

SELF-STUDY REPORT

(Third Cycle Accreditation Report)

Of

Dharampeth Education Society's
**Dharampeth M. P. Deo Memorial
Science College, Nagpur**

Submitted to
National Assessment and Accreditation Council
(NAAC) Bangalore



www.dharampethscience.com

Self-Study Report

(Third Cycle Reaccreditation Report)

Submitted to
National Assessment and Accreditation
Council (NAAC) Bangalore



Dharampeth Education Society's
Dharampeth M. P. Deo Memorial Science
College, Nagpur.

Affiliated to RTM Nagpur University Nagpur
Reaccredited B by NAAC with CGPA 2.83
District: Nagpur
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Dharampeth Education Society's

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Ref: DSC/SR/JR/...../2017-18

Date: 24/3/2017

To
The Director
National Assessment and Accreditation Council
Bengaluru

Subject: Submission of the Self-Study Report for Reaccreditation

Respected Sir,

Greetings from all the faculty and staff of Dharampeth M. P. Deo Memorial Science, College, Nagpur!

It's indeed very gratifying to submit the Self-Study Report of our institution to the apex organization of our Nation.

This highly significant document reflects the planning and careful investment of time and energy of our faculty and staff with a singular aim to produce an enriching experience for all the stakeholders.

We firmly believe that the upcoming periodic assessment by your august office will provide us a great stimulus to continue our march towards excellence of the highest order.

Thank you so much for the cooperation we have received from your benevolent office.

Warm regards,

Dr. Akhilesh V. Peshwe
Principal



INDEX

Sr. No.	Contents	Page No.
	NAAC Steering Committee	5
	Preface	6
	Executive Summary	7
	SWOC Analysis	9
	Self-Study Report	11-20
1	Profile of the Institution	
2	Criterion wise Inputs	
	Criterion I : Curricular Aspects	21-57
	Criterion II : Teaching Learning and Evaluation	58-89
	Criterion III : Research, Consultancy and Extension	90-116
	Criterion IV : Infrastructure and Learning Resources	117-133
	Criterion V : Student Support and Progression	134-188
	Criterion VI : Governance, Leadership and Management	189-201
	Criterion VII : Innovations and Best Practices	202-216
3	Evaluative Reports of the Departments	
	Faculty of Science	
	Department of English	217-228
	Department of Physics	229-237
	Department of Chemistry	238-245
	Department of Mathematics	246-252
	Department of Botany	253-259
	Department of Zoology	260-267
	Department of Statistics	268-273
	Department of Electronics	274-280
	Department of Microbiology	281-298
	Department of Computer Science	299-312
	Faculty of Home Science	
	Department of Food Science & Nutrition	314-325
	Department of Human Development	326-331
	Department of Textile & Clothing	332-338
	Department of Resource Management	339-344
	Department of Extension Education	345-352
	Department of Physical Education	353-360
4	Post-accreditation Initiatives	361
5	Recommendations Received from NAAC and Compliance Fulfilled	362-363
6	Declaration by the Head of the Institution	364-365
7	Certificate of Compliance	366
	Annexures	
8	Annexure: A– Copy of recognition of College under Section2(f) and 12(B) of UGC Act	367
9	Annexure: B– Affiliation of the Courses and Details	368-371
10	Annexure: C – Copy of Certificate of NAAC Accreditation and Peer Team Report (2 nd Cycle)	372-381
11	Annexure: 3.1-----4.1	382-400



NAAC Steering Committee

Sr. No.	Name	Designation
1	Dr. A. V. Peshwe	Principal
2	Dr. Mrs. A. S. Kulkarni	Steering Committee Coordinator
3	Dr. Mrs. S. K. Ubale	IQAC Coordinator
4	Dr. N. L. Khobragde	IQAC Member
5	Dr. R. B. Lanjewar	IQAC Member
6	Dr. Mrs. R. K. Kulat	IQAC Member
7	Mr. Pradeep Ashtikar	Office Staff



Preface

Preparing the reaccreditation report of the institution has been a very motivating and satisfactory experience for all of us. The NAAC announcement to submit the reaccreditation proposal before March 31, 2017 worked like a trigger for us and though we were already preoccupied with long university practical examinations we decide to do our best to complete all the formalities necessary for the submission of the reaccreditation report in the given time.

During this span we experienced a tremendous synergy among our faculty and staff members. I must appreciate the efforts taken by each one of them. All the faculty and staff members, HoDs, Criteria Coordinators, IQAC coordinator and NAAC coordinator have made a very committed all-out attempt to meet the dead line. It is most endearing to me that this 3rd cycle report is entirely made by our faculty and staff members. I am sure that their massive energy, time and efforts will be suitably rewarded.

I am indebted to the President of Dharampeth Education Society, Adv. Ullahas Aurangabadkar; the Secretary of DES, Shri. Ratnakar Kekatpure; and the other executive office bearers for their strong support and motivation. With sincerity, gravity and eagerness we look forward to the esteemed peer team.

Principal



Executive Summary

The genesis of our glorious institution lies in the pious resolve of a few young souls who came together during the pre-independence period of our nation. They resolved to illumine the lives of people with knowledge and education. These inspired souls laid the foundation of our parent institution, Dharampeth Education Society in the year 1929, under the leadership of Honourable Shri. B. K. Pathak. Since then the society has made committed efforts to widen the horizons of knowledge through a repertoire of institutions right from KG to PG.

The society established our institution Dharampeth M. P. Deo Memorial Science College, in the year 1968 with just four departments: Mathematics, Physics, Chemistry and English. The institution persistently extended the gamut of its courses by opening Biology, Zoology and Botany departments in the year 1970; Electronics in 1985, Microbiology in 1986, and Computer Science 2001. In the meanwhile faculty of Home science and Statistics were opened in 1978. All these years our departments have been flourishing in several ways only because of very committed faculty and staff members. Over this very long period of time we have an extraordinary record of highly successful alumni. To complement the academics our NCC, NSS, EVS and Women Development Cell departments conduct several awareness programmes. To add to this the Rotract Club of our students have initiated a very special computer literacy programme for the school children residing in the adjoining disadvantaged localities. 'Persistent', a renowned IT company has donated us computers to facilitate this programme.

We regularly organize study tours, workshops, seminars, exhibitions, career oriented courses to facilitate deeper involvement of students in the teaching learning process. These activities help us connect the syllabi with the day today phenomenon of life. Many of our faculty members are on the BOS of R.T.M. Nagpur University, Nagpur and took the initiative to organize a workshop on 'Curriculum, Design and Development' in our institution.

Our faculty and staff members mentor our students with complete dedication and unreserved enthusiasm as a result our students show talent and skills in various areas of their interest. Along with their academic prowess they also displayed their skills and talent in the intercollegiate and University level games and sports.

We make efforts to facilitate the progress of both below average students as well as above average students. We encourage better students to complete online certificate programmes offered by the Government of India portal known as NPTEL. We make sincere efforts to make our students employable and focus on developing their life skills in general.

The institution has a very rich tradition of students joining defence services. During the third cycle we conducted a special coaching programme for NDA aspirants at very subsidized rates. We have great pride on our cadets, students and alumni who have carved out a niche for themselves.

Our institution provides excellent support to our researchers. So far we have completed about 11 funded projects including a major project. However, our golden run of sponsored minor/major research projects suffered during the third cycle of accreditation due to shrinkage in funds primarily from Government agencies like UGC.

During this span our faculty members continued to contribute to research activities by way of participations and presentations at national as well as international conferences. A Research Methodology workshop organized by our institute was much appreciated by research participants.



We also have to our credit a highly successful NAAC sponsored National Workshop on the topic 'An Insight into New Strategies and Policies of NAAC into Higher Education'.

It was a matter of great honour for us when R.T.M. Nagpur University, Nagpur entrusted us with the responsibility to organize a special training programme for the shortlisted researchers of the prestigious Avishkar competition. Our faculty members mentored 43 research scholars of the Avishkar team. We also invited renowned scholars and experts from outside to participate in this pride project. Dedicated efforts from our side complemented the ingenuity of all the participants. Our moment of great satisfaction and pride came when three research scholars of the RTM Nagpur University team won prizes at the Inter University Level completion. Selection of the same participants for the next stages of the zonal national competition 'Anveshan' was due reward for everyone's contribution.

Another enriching achievement was organizing 'Kutuhel', a Vidnyan Bharti (VIBHA) venture on campus. 'Kutuhel' was a unique exhibition in which prominent brands like LG demonstrated how home appliances such as TV, AC, Washing Machines function. Renowned research institutes displayed some of the on-going research projects and disseminated information about their work and functioning. Showcasing Zoology museum along with works of Home Science and Vocational Departments of our institution was a rewarding experience in several ways for our faculty and students.

Along with all these achievements one of the very unique and special achievement of our institution is a highly successful and fully functional Maintenance Department that has very efficiently minimized the on campus maintenance expenses with sheer selfless dedication. It is through the earnings made by the department the institution has built up a state-of-the-art conference hall.

Our institution is one of the distinguished institutions of this region and has always been blessed with very famous Educationists, Professors and Principals. It was a moment of glory for all of us when beloved President of India, Honourable Dr. A.P.J. Abdul Kalam magnanimously graced the Golden Jubilee Function of our Society. We felt mighty proud when the society assigned the responsibility to host this enlightening event to us.

In this long committed march towards excellence we are trying to invest all our energy with utter dedication, enthusiasm and joy. We value the accreditation process and are very eager to continue our march forward with the guidance, evaluation and suggestions from the esteemed Peer Team.

Principal



SWOC Analysis

Strengths:

- One of the most distinguished institutions established in 1968 founded by Dharampeth Education Society founded in 1929
- Activities oriented towards academics as well as co-curricular development of students with and holistic approach confirming the vision and mission of the institution as well as the national policy
- Progressive attitude and techno savvy faculty and staff
- Excellent support to researchers
- RTM Nagpur University assigns important assignments to the faculty members of our institution
- Highly qualified staff
- Emphasis on Self-maintenance through a functional maintenance department
- Positive attitude towards assessment and accreditation and complete cooperation from the management
- Balanced attitude towards teaching-learning process, academics, research and career progression
- Very sound Employees' Credit Co-operative Society
- Fairly adequate infrastructure and spacious green conscious campus
- Adequate smart rooms to conduct workshops, seminars, discussions and webinars

Weaknesses:

- Being affiliated to R.T.M. Nagpur University Nagpur the institution has to function within the given structure and latitude
- The flexibility to opt for courses/subjects is confined to electives and non-core options. The limitation is on account of the affiliated nature of the institution.
- Flooding issues during the rainy season because of the geographical location
- Old teacher centric style insider furniture of several classrooms
- Shortage of staff and large number of contributory faculty members



Opportunities:

- Institution is inching closer to attain academic excellence
- The college has infrastructure to function as the online examination centre for GRE, TOEFL or other such examinations
- The institution can further strengthen tie ups with research institutes in and around Nagpur
- The Institution can make students employable in the MIHAN and METRO Rail projects.
- The institution can go for tie-ups with prestigious National as well as International Universities
- The Nagpur Metro project is going to increase accessibility of the institution
- If we receive funds the institution can build a multipurpose sporting complex
- If funds are granted institution can start Doctoral Programmes in some of the subjects.

Challenges:

- Recruitment of new faculty and staff as per the policies of the past several years has been a big challenge
- There are multiple windows for getting clearance of the Roster system and that adds to the unfortunate delay in getting roster approved.
- Essential laboratory equipment cannot be purchased because the fund crisis.
- Funding agencies take lot of time to fund projects and many good projects get stalled because of the sudden fund delays from the UGC office
- Involving students into research projects is challenge as there are no incentives for their academic time under the present evaluation and assessment structure of the R.T. M. Nagpur University Nagpur.
- Rigid financial assessment rules hamper college development projects.

Principal



SECTION B: SELF-STUDY REPORT

1. Profile of the Affiliated College

1. Name and Address of the College:

Name :	Name: Dharampeth M. P. Deo Memorial Science College	
Address :	North Ambazari Road, Nagpur	
City :Nagpur	Pin :440033	State : Maharashtra
Website :	www.dharampethscience.com	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Akhilesh Peshwe	O: 0712-2241372, 2241490	09422313334	0712-2241372	principal_dsc@rediffmail.com
Steering Committee Co-ordinator	Dr.Mrs. Archana Kulkarni	O: 0712 2241372, 2241490	09823374091	0712-2241372	archanakulkarni62@gmail.com

3. Status of the Institution:

Affiliated College

☒

Constituent College

☐

Any other (specify)

☐

4. Type of Institution:

a. By Gender

i. For Men

☐

ii. For Women

☐

iii. Co-education

☒

b. By Shift

i. Regular

☒

ii. Day

☐

iii. Evening

☐

5. It is a recognized minority institution?

Yes

No

☒

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.



6. Sources of funding:

Government ☐Grant-in-aid ☒Self-financing ☒Any other ☐

7. a. Date of establishment of the college: ...

01/06/1968

b. University to which the college is affiliated /or which governs the college (If it is a constituent college)

RTM Nagpur University, Nagpur

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	22 March 2002	
ii. 12 (B)	22 March 2002	

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.) NA

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
i.				
ii.				
iii.				
iv.				

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes ☐ No ☒

If yes, has the College applied for availing the autonomous status?

Yes ☐ No ☐



9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes ☐ No ☒

If yes, date of recognition: (dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes ☐ No ☐

If yes, Name of the agency NA and

Date of recognition: NA

10. Location of the campus and area in sq.mts: Urban

Location *	
Campus area in sq. mts.	20234.3
Built up area in sq. mts.	20,234.28

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

• Auditorium/seminar complex with infrastructural facilities

• Sports facilities

* Play ground ☒

* Swimming pool ☐

* Gymnasium ☒

• Hostel

* Boys' hostel

Nil

i. Number of hostels ii.

Number of inmates

iii. Facilities (mention available facilities)

* Girls' hostel **Nil**

i. Number of hostels ii.

Number of inmates

iii. Facilities (mention available facilities)

* Working women's hostel **Nil**

i. Number of inmates



ii. Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise) **Nil**
- Cafeteria — **Yes**
- Health centre — **Yes**

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance..... Health centre staff –

Qualified doctor Full time ☒ Part-time ☒

Qualified Nurse Full time ☒ Part-time ☒

- Facilities like banking, post office, book shops ☒
- Transport facilities to cater to the needs of students and staff ☒
- Animal house ☒
- Biological waste disposal ☒
- Generator or other facility for management/regulation of electricity and voltage ☒
- Solid waste management facility ☒
- Waste water management ☒
- Water harvesting ☒

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted			
		Science Faculty : B.Sc 10 options : PCM, PME, PSM, PMCom, SMCom, PScom, EMCom, CBZ, CZM, CBM. Languages (at B.Sc. I level) Eng, S. Eng, Mar, Hin, Sansk. Home Science Faculty ∴ All the subjects are compulsory	3 years	H.S.S.C. Pass or Equivalent qualification	English	Faculty of Science :	I	II	III	Total
						PCM	86	69	38	193
						PME	20	14	23	57
						PSM	19	08	22	49
						PMCom	28	23	12	63
						SMCom	24	14	01	39
						EMCom	25	21	05	51
						PScom	26	09	02	37
						CBZ	53	41	25	119
						CZM	45	44	33	122
						CBM	26	19	16	61
						Home Science Faculty :	50	25	21	96



						887	
ii	Post-Graduate	NA					
iii	Integrated Programmes PG	NA					
Iv	M.Phil.	NA					
V	Ph.D	NA					
Vi	Certificate courses	01	03 Months	XIIth	Englis		
vii	UG Diploma	01	06 Months	XIIth	Englis	Nil	
viii	PG Diploma	NA					
Ix	Any Other (specify and provide details)	NA					

13. Does the college offer self-financed Programmes?

Yes ☒ No ☐

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Number	01
-----	-------------------------------------	----	--------------------------	--------	----

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Grant in Aid Courses



Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science UG: 09	Mathematics Electronics Physics Statistics Chemistry Microbiology Zoology Botany	✓	NA	NA
Arts	NA	NA	NA	NA
Commerce	NA	NA	NA	NA
Any Other (Specify) UG:05	Home Science: Foods and Nutrition Human Development Textiles And Clothing Family Resource Management Home Science Extension Education.	✓	NA	NA

Self Financing

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
UG 01	Computer science	✓	NA	NA
Ad-on courses : 02	1. Certificate and diploma in bioinformatics. 2. Certificate and diploma in mushroom cultivation	NA	NA	NA

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- a. Annual system
- b. Semester system
- c. Trimester system

17. Number of Programmes with

- a. Choice Based Credit System ☐
- b. Inter/Multidisciplinary Approach ☒



c. Any other (specify and provide details)



6. Does the college offer UG and/or PG programmes in Teacher Education?

Yes ☐ No ☒

If yes,

a. Year of Introduction of the programme(s) and number of batches that completed the programme

NA

b. NCTE recognition details (if applicable)

Notification No.: NA

Date: NA

Validity: NA

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately? Yes



No



19. Does the college offer UG or PG programme in Physical Education?

Yes ☐ No ☒

If yes,

a. Year of Introduction of the programme(s) and number of batches that completed the programme

NA

b. NCTE recognition details (if applicable)

Notification No.: NA

Date: NA

Validity: NA

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately? Yes



No



20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government <i>Recruited</i>	-	-	07	08	03	04	11	02	28	05
<i>Yet to recruit</i>										



Sanctioned by the Management/ society or other authorized bodies <i>Recruited</i>	-	-	-	-	01	03+01	08	03	-	-
<i>Yet to recruit</i>										

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	-	-	06	03	02	02	13
M.Phil.	-	-	0	04	01	00	05
PG	-	-	01	01	00	02	04
Temporary teachers							
Ph.D.	-	-	--	-	04	09	13
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	18	49	67
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

22. Number of Visiting Faculty /Guest Faculty engaged with the College. 01

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2013-2014		2014-2015		2015-2016		2016-2017	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	19	25	22	27	31	33	27	39
ST	08	06	04	10	04	07	07	07
OBC	63	64	62	97	07	67	69	104
General	47	55	42	54	34	48	30	37
Others	NT-09 SBC- 04 VJ-02	12 03 02	NT-08 SBC- 02 VJ-01	05 05 -	NT-09 SBC- 07 04	04 07 02	NT-07 SBC- 05 VJ-03	10 06 01

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	346	NA	NA	NA	346
Students from other states of India	06	NA	NA	NA	06
NRI students	Nil	NA	NA	NA	Nil



Foreign students	Nil	NA	NA	NA	Nil
Total	352	NA	NA	NA	352

25. Dropout rate in UG and PG (average of the last two batches)

UG

PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

(b) excluding the salary component

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes ☐ No ☒

If yes,

a) Is it a registered centre for offering distance education programmes of another University

Yes ☐ No ☐

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes ☐ No ☐

28. Provide Teacher-student ratio for each of the programme/course offered (from all departments)

Program/course	Teachers –student ratio
Science	1:25
Home science	1:45

29. Is the college applying for

Accreditation : Cycle 1 ☐ Cycle 2 ☐ Cycle 3 ☒ Cycle 4 ☐

Re-Assessment: ☐

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-



accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: 16/09/2003 Accreditation Outcome/Result...B grade

Cycle 2: 10/03/2012 Accreditation Outcome/Result B grade with CGPA 2.83

** Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.*

31. Number of working days during the last academic year.

229

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

180

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC

15/05/2004

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR (i) 28/08/2014

AQAR (ii) 30/08/2014

AQAR (iii) 27/01/2016

AQAR (iv) 29/03/2017

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information) **Nil**



Criteria wise Inputs

CRITERION- I : CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Dharampeth M. P. Deo Memorial Science College, Nagpur is one of the premier educational institutes in central India, Nagpur offering education to Junior and Senior Level in Science and Home Science faculties. Our college has been established to serve selflessly towards the cause of human excellence especially in character building and personality development through knowledge and higher education. In this Era of Globalization our college strives hard to impart scientific attitude among students and enable them to face the challenges of competitive world. Students are not only academically motivated but also stimulated to exhibit their talents through various extra-curricular activities. The students contribute significantly towards national reconstruction, which leads to a perfect balance between body, spirit, intellect and emotion.

The vision: -

- The vision of the institution is to develop global talent through quality and affordable education.
- To make thriving, determined and vibrant population of youngsters well equipped to move into the knowledge society
- To prepare students for wide spectrum of positions and profiles in various fields.

The mission:-

- **To nurture the obvious and identify the unseen and undiscovered talents of the students and turn them towards the path of success.**
- **To give more than the curriculum so as to enrich the academic experience of the learners.**
- **To provide an ambience which will help the students to focus on studies and build relationships with their peers.**
- **The vision and the mission, as stated above, are eminently in tune with the five core values defined by NAAC, as they focus on imparting quality education in consonance with the present time so as to equip the students with the skills,**



knowledge, competence and values leading to their all round development which in turn will contribute to the national development as well.

Goals and Objectives :

- To groom the students so that they are able to navigate successfully through the curriculum.
- To inculcate scientific and rational attitude among the students.

The vision, mission as well as goals and objectives of the institution are communicated through prospectus, the college website & by display at strategic locations in the campus to the students, teachers & staff. The New entrants to integrated courses are acquainted with vision & mission during induction programme . Programme and courses are in consonance with the vision of the college . The objectives are always in mind while carrying out curricular as well as co-curricular activities, and are communicated to the students, teachers, staff and other stakeholders through formal and informal interactions and through various programmes including parent - teacher meetings to the parents also. Our institute is affiliated to Rastrasant Tukdoji Maharaj Nagpur University, Nagpur which designs the curriculum, and it is followed by the college. It is to be noted that some faculty members of our institute proactively make suggestions for shaping the curriculum.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

The college is affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur. The curriculum for various subjects and courses are designed by University & affiliated colleges implement the same. Many faculty members of the college are on syllabus designing committee through Board of Studies and academic bodies of University and thereby are involved in designing the curricula. Faculty members participate in seminars, workshops organized by University in collaboration with affiliating colleges for revision syllabi, wherein the scope objectives & implementation of curricular design are deliberated upon. Some of the effective means of implementation of curriculum at college level are –

1. The office of principal communicate information of the academic terms received from university to the faculty during the meeting held at closing of academic year.
2. Departmental heads conducts meeting.

Academic requirements are received through these syllabi .Based on this, the College frames its academic Calendar. Academic Calendar includes different Evens, student centric activities related to curriculum and co-curricular, the schedule of class room teaching, class test, practical



examination, mentorship programs, performance improvement program.

The Heads of Department, in consultation with other members the teaching staff, decide and allocate the courses, prepare the time table and implement it. Head of the Department also frame their departmental calendar of curriculum based, in -house activities.

Proposed annual teaching plan made by every department is one of the important action plan for effective implementation of the curriculum and it includes month wise topic taught, no. of periods required, engaged periods and extra classes required to complete the syllabus.

Remedial lectures are organized especially for the academically weaker students. Experts from various subjects teaching in different colleges are invited to give lectures and guidance so that the students can avail of their expertise and be better prepared for their exams.

Guest lectures in a variety of areas of interest in academics, social awareness as well as practical implementations of knowledge is organized on a regular basis.

Bridge Course developed by every department for students at the beginning of the academic year.

Industrial and academic visits are arranged to give students an insight and exposure to practical aspects of the curriculum.

Activities done by various departments since last four years-

Department of Microbiology

Sr. No.	Activity	Date	Topic	Guest Speaker	Resource Person
1	Guest Lecture	29 th Aug. 2012	Opportunity in the Field of Management for Microbiology Students	Dr. Anjali Deshpande, Alumnus of Dept.	All India Sales Manager, Himedia Laboratories, Mumbai
2	Installation of "Microcosm" & Guest lecture	13 th Sep. 2012	Nuances of Biosciences	Dr. C. D. Mayee	Former Vice – Chancellor of Parbhani University And Ex-Director of CICR, Nagpur.
3	Visit to Research Organization	26 th Sep. 2012	Visit to NEERI		
4	Power Point Presentation Competition	15 th Dec. 2012		Mrs. Kiran Patil	Department of Microbiology, LAD College, Nagpur
5	Quiz Competition was organized by Department of Microbiology, Dharampeth M. P. Deo Memorial Science College, Nagpur				



6	Intercollegiate Scientific Rangoli Competition was organized by Department of Microbiology, Dharampeth M. P. Deo Memorial Science College, Nagpur	17 th Dec. 2012	Competition based on Biological Science	Mrs. Seema Nimbarte & Mr. Mrs. Reena Shah	Department of Microbiology, Sevadal Mahila Mahavidyalaya, and Department of Zoology, Mohta Science College, Nagpur
7	Hands on training was imparted under the Industry – Institute Interaction. The Workshop was organized in collaboration with Himedia, Mumbai	21 st Jan. 2013	Techniques in Molecular Biology		

Sr. No.	Activity	Date	Guest	Resource Person
1	Installation of Students association “ Microvision” and Guest Lecture on food Safety	3 rd Sept. 2013	Dr. Reeta Isarani	Sr. Scientist CSIR, AGMARK Laboratory, Nagpur
2	Visit to City T.B. Hospital, Nagpur	27 th Sept. 2013	-	-
3	A Guest lecture on the topic Role of Spiritual values in students life	19 th Oct. 2013	Mrs. Pratibha Puranik	Electrical Engineer, Pune
4	In house power point presentation competition	30 th Dec. 2013	-	-

Sr. No.	Activity	Date	Guest	Resource Person
1	Installation of students association “ jarasims” & Guest lecture on Global Warming	22 nd Sept. 2014	Dr. Aarti Saoji	Ex-Director, Institute of Science, Nagpur



2	Workshop for B.Sc. Students on Career After Graduation	10 th Nov. 2014	-	Clinovision (Clinical Research Company, Nagpur Branch.
3	Visit to Indira Gandhi Rugnalaya, Nagpur	18 th Nov. 2014	-	-
4	Intercollegiate PPT Presentation Competition	23 rd Dec. 2014	Dr. Moghe & Prof. Gulhane	Kamla Nehru Mahavidyalaya & Institute of Science, Nagpur
5	Visit to Hedgewar Blood Bank, Nagpur	30 th Dec. 2014	-	-
6	Organized Screening test for Bank Entrance Exam.	14 th Jan. 2015	Mr. Rahul Vaidya	-
7	Visit to Science Exhibition jointly organized by Indian Science Congress & Raman Science Centre, Nagpur	22 nd Feb. 2015	-	-

Sr. No.	Activity	Date	Guest of Honor	Institute Name/ Working Place
1	Guest Lecture	16 th July 2015	Dr. Atul Kulkarni, Alumnus of Dept.	Rutgers Research Institute New Jersey, USA
2	Guest Lecture	19 th August 2015	Dr. A . M. Deshmukh	Head Dept. of Microbiology Marathwada University, Aurangabad
3	Installation of Students	12 th September	Dr. Manoj Bhandarkar	Deputy Director,



	Association & Guest Lecture	2015		Central Forensic Research Laboratory, Nagpur.
4	Intercollegiate Scientific Rangoli Competition	26 th September 2015	Dr. Krishana Veni Aiyangar & Dr. Seema Ubale	LAD College, Nagpur
5	Regional Level Workshop On Biofertilizer Production Terchnology	31 st March 2016	Dr. Mrs. Alka Chaturvedi	Deptt. of Head PGTD Department of Botany RTM Nagpur University Campus, Nagpur

Sr. No.	Name of the Activity	Date	Resource Person	Name of the Institute
1	“Bridge Course for B.Sc. Part – I”	16/06/2017 (For Two weeks)		
2	<ul style="list-style-type: none"> ➤ Guest Lecture ➤ Topic: Cancer : Cross talk tissues and Cells. ➤ Installation of Students Association “Microvian-2016” 	30/08/2016	Dr. Archana Moon	Associate Professor PGTD of Biochemistry, RTM Nagpur University Nagpur
3	Poster Presentation Competition	14/09/2016	Dr. Vijay Charde	Taywade College, Koradi
4	Intercollegiate Scientific Rangoli Competition	26/09/2016	Dr. Surekha Kalkar &	Ex J. D. Amravati Division & Head, Dept. of Botany, Institute of



			Dr. Santosh Kasbekar	Science, Nagpur & Head, Dept. of Microbiology, Sindhu Mahavidyalaya, Nagpur
5	Guest Lecture Topic: Monoclonal Antibodies and its Applications.	18/2/2017	Dr. Swati Peshwe	Associate Professor, Institute of Science, Aurangabad
6	Power Point Presentation Competition in House.	23/02/2017		
7	Visit to Waghville Adventure Trip on dated 24-12-2017			
8	Visit to Waste Water Treatment Plant Situated at Ambazari Ordinance Factory, Ambazari Road, Nagpur-			
9	Interactive session on Career options in Microbiology by Dr. Anirban Pal Manager R & D "PRARAS" Bio-science Pvt. Ltd., Bangalore on dated 06/03/2017.			

Department of Computer Science (Session 2012-13 To 2016-17)

Sr. No.	Name of the Activity	Date	Resource person	Name of the Institution
2	Workshop on "Introduction to Java"	11 th Jan 2013		
3	Aptitude Test on Basic of Computers and Object Oriented concepts.			
4	Workshop on Employability & Campus Boosting	25,26 Oct. 2013		Take it ideas training and placement Pvt. Ltd."
5	Power Point Presentation Competition	20 th Oct. 2015		
6	One day workshop on "Career Oriented courses in Computer	13 th Feb. 2015		National Skill Development Co-operation



	Science			
7	Lecture on "Future prospectus in S/W and H/W Computing	7 March 2015	Mrs. S. A. Narale	
8	Seminar on "Utilization of ICT Tools"	5 th Oct.2014	Mrs R. R. Kapre	
9	Two Day workshop on "Introduction of Hardware and Software Installation	13 th Aug.2015		
10	The test was conducted for "BHAVISHYA JYOTI SCHOLARSHIP	20/09/2015		NIIT
11	Seminar was given by the B. Sc I & B. Sc III year students on the various topic of the syllabus	8 August 2015		
12	The test was conducted for "BHAVISHYA JYOTI SCHOLARSHIP	19 Sept 2015		NIIT
13	A one day workshop on training and career opportunities in the field of computer science	23 rd Sept.2015		GR Solutions, Nagpur
15	A workshop/ seminar was organized by department by the GADGET the Career Tool	19/10/2015	Alumni Mr. Rahul Vaidya	
16	Poster presentation competition	20/10/2015		
17	Chart presentation activity	15/10/2015		
18	Group Discussion for the students of B.Sc III year was conducted by the faculty of the department.			
19	Skill Development program		22 nd February 2016	



20	Essay Writing Competition	03 rd March 2016	
21	Power Point Presentation related to syllabus	30 th and 31 st March 2016	
22	Debate Competition on topic "Android Application Is Boon"	04/04/2016	
23	Workshop for the students of Computer Science on how to write "Scientific Article and Research Paper"	05/04/2016	
24	Under skill Development Program workshop on "Enhancement Of Computer Skills" was jointly organized by Dept of Microbiology and Computer Science	8 th to 12 th August 2016	
25	Interdepartmental Activity, Under Skill Development one week Training Program was organized jointly by Department of Computer Science and Department of Microbiology for students of life sciences	22 August to 27 August 2016.	
26	Two days workshop on "Computer Networking and Security"	9 th and 10 th September 2016	
27	Seminar on how to make PPT Presentation .	28 July 2016	Abhishek Aachrya
28	Dr Ashok Shekdar Intercollegiate PPT Presentation Competition jointly organized by Dept of Computer Science and English	28 th September 2016	
29	Seminar was arranged for Computer Science students on "Animation and Video Editing"	10 Aug. 2016	
30	Two days workshop was arranged by the Computer Science Department for the selected students of Computer Science in the X-CELLER Company.	1 st & 2 nd Feb.2017	
31	A Guest Lecture on "ROBOTICS"	03/03/2017.	Mr Anil Tatode
32	A Guest Lecture on "Choose Right Career after Graduation"	01/03/2017	Mr. Ganesh Tanksale

Department of Physics (Session 2012-13 To 2016-17)

1	Guest lecture on Applied Physics The Physics of God particle: The Higgs Boson'	05/10/2012	Dr. G.G.Sahastrabudhe
2	Visit to Meteorology Department	05/01/2013	
3	Department hosted Vidarbha Universities Physics Teachers	19 th and 20 th January 2013.	



	Association organized Student's Seminar.		
4	Guest lecture on 'Basics of Nano Science and Nano Technology'	24/09/13	Dr. K.G. Rewatkar
5	Visit to Khaparkheda Thermal Power Station	13/10/2013	
6	Visit to Science Expo at Raman Science Centre	09/01/2014	
7	Guest lecture on 'Basics of Impedance Analysis'	13/01/2014	Dr. Ms. J.B. Randhawa HOD Applied Physics, Govt. Engineering College, Amravati
8	Guest Lecture on subject, 'Career Opportunities in State/Civil Services'	20/09/2014	Shri. E.Z. Khobragade Ex-IAS Officer, Govt. of India
9	Lecture on subject, 'Importance of LEDs in new generation lighting'.	18/10/2014	Dr. S.J. Dhobale Associate Professor in Physics, PGTD, RTMNU, Nagpur
10	Department hosted Dr. Ashok Shekdar Memorial Intercollegiate PPT competition	28/01/2015	
11	Science Forum 2015-16 jointly organized a lecture on topic, 'Basics of Quantum Physics'.	23/09/2015	Prof. P.R.Shende, Ex-HOD Physics, Dharampeth M.P. Deo Memorial Science College, Nagpur
12	Science Forum 2016-17 in association with Vidnyan Bharati organized a lecture on subject, 'Gravitational Waves'.	24Aug. 2016	
13	B.Sc. 6 th Semester students, 1 Mr. Raju Gupta, 2 Ms. Rinki Tiwari, 3 Ms. Snehil Supriya 4 Ms. Shreya Dongardiwe and 5 Ms. Priyanka Mankar won first prize of video making competition held on 28/02/2017 on 'Science Day' jointly organized by the Indian Women Scientists' Association, Nagpur Branch and Dr. Ambedkar College, Dikshabhumi, Nagpur		
14	Dept. organized a workshop of one week, 'Design, Fabrication and Repairing of Physics Laboratory Equipment' students completed the certificate course successfully and were given certificates on the concluding day at the hands of Principal Dr. Peshwe.	6-11 March 2017	Dr. Ambekar was coordinator



1	Guest lecture on the topic ‘protein Synthesis’.	on4 th September2012	Dr. A.S. Mohite	(HOD Dept. of Zoology,Sewadal Mahila Mahavidyalaya
2	Self-Government Programme organized for students by Dept. of Zoology from 3 rd of Jan. to 5 th of Jan.2013. Total 10 students participated from B.Sc.I and B.Sc.II . Formal inauguration of Self Govt. Programme was done by Dr. S.C. Masram (Asst. Prof PGTD RTM University, Nagpur). On the last day of programme all the participants were felicitated and given prizes.			
3	Three days practical workshop as well as guest lecture on “Fabrication and setting up of aquarium”	8 to 10 Oct. 2015	Prof. Rajendra Kshirsagar	MCVC Dept. of Fishery , Dharampeth M. P. Deo Memorial Science College, Nagpur.
4	Study tour organized for all Zoology students at Deolapar, Mogarkasa and Dongartal on 14 th Oct. 2015			
5	Visit To Sericulture Department RTM Nagpur University, Nagpur was organized by dept. dated on 9/3/15.Sericulture is one of the application of Zoology as well as economic zoology. Dr. Rai (Head of the dept. sericulture) and Dr. Rathod described the life cycle of silkworm , rearing of silk, life cycle of an insect pest Locust and showed the video regarding sericulture techniques			
6	Guest Lecture on topic “Methods of DNA Extraction”		Dr. Suresh (Department of Zoology, Dr. Babasaheb Ambedkar, College topic	
7	Guest lecture on “Bioinformatics and Biostatistics”	14/3/16 and 5/4/16	Dr. Rupali Deshpande	
8	Dept. of Zoology organized visit to “Rajiv Gandhi Biotechnology Centre “ on 29/03/2016			
9	Department of Zoology organized visit to “Biodiversity park” Rajbhavan Nagpur			
10	Department of Zoology organized Exhibition for school students , inauguration of exhibition was done by President Ad. Aurangabadkar (President, Dharampeth Education Society) and Dr. A. V. Peshwe (Principal, Dharampeth m. P.Deo Memorial Science College)			
11	Guest lecture on ‘Bioinformatics& Biostatistics’	7/3/2017	Dr Rupali Deshpande	
12	Organized Study tour at Ghodazari lake & a social agro project Somnath for leprosy patient.			
13	Department of Zoology participated in KUTUHAL (Vigyan Bharati Activity in collaboration with Dharampeth M. P. Deo Memorial Science College. Nagpur) organized exhibition of rare specimens .different models and charts on 4 th & 5 th			



	Feb 2017 for school students and their parents which was explained by B.Sc.III students
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Department of Electronics (Session 2012-13 To 2016-17)

Name of Guest/Speaker	Designation and Institute	Title	Date
Dr. Madhukar Korde	Retired Professor, Institute of Science,, Nagpur	Chief Guest lecture on “Future Prospects in B.Sc. Electronics” Inauguration of Electronics Association-2012- 13.	10 th Dec. 2012
Dr. (Mrs.) T. Sengupta	Associate Scientist, MRSAC, Nagpur	Guest Lecture on “Remote sensing satellite Development in India and its Applications”	15 th January 2013
Dr. V. B. Hirulkar	Associate Professor, SFS college, Nagpur	Guest Lecture on “Advances in semiconductor Electronics” Inauguration of Electronics Association-2013- 14.	29 th September 2013
Prof. Subhashish Chandra	Assistant Professor, Institute of Forensic Sciences, Nagpur	Guest lecture on “Interesting and useful aspects of Electronics”	26 th March 2015

Seminars/ Conferences/Workshops organized & the source of funding

One day workshop for Electronics teachers of RTM, NU to crystallize and finalize the semester pattern syllabus of B. Sc. in subject Electronics of RTM, Nagpur to be implemented from 2013-14	Fund given by college	28 th July 2012
Two day workshop for hands on training for Electronics Circuit Assembly was arranged for students	Self-Funded	11 th and 12 th March 2015
Power point competition for electronics students	Self-Funded	31 st March 2015



Department of Chemistry (Session 2012-13 To 2016-17)

1	An InterCollegiate Seminar Competition 'HEMOVISION-2012'	28th Sept. 2012		
2	Visit of B. Sc. III students was arranged to Atomic Mineral Division, Nagpur.	27 September 2012		
3	Seminar for students of B. Sc. III on topic Photo chemistry colorimetry and spectrophotometry.	18 December 2012		
4	Guest lecture on environmental pollution with special reference to scenario at Nagpur. The lecture was followed by Poster competition on environmental pollution.	16 January 2013	by Dr. Kaustav Chatterjee	Head Oper. Reva Enviro syst. Pvt. Ltd, Nagpur
5	Visit to C. E. T. P. Buttibori	03 OCT 2013		
6	Visit to Raman Science Centre, Nagpur	10 JAN 2014		
7	Visit to Royal Society of Chemistry Nagpur Region, Nagpur at SFS College, Seminary Hill, Nagpur	14 Sep 2013		
8	Guest lecture on topic "Domestic waste treatment and Management"	25 th September 2013	Dr. D. S. S. Ganguly, I. O. F. S. (RTD)	
9	Guest lecture on 'Wild Life and Protection Act'	4 th Jan, 2014	Prof. Dilip Yardi,	(Rtd) Env. Science Deptt from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
10	"Chemistry for Mankind".	5 th Oct. 2014	Dr. S. S. Umare	
11	'Hadronic chemistry and its application'	27 th March 2015	Dr. Vijay Tangde	
12	Visit to Centre for Science and Rural development, Dattpur	28 th Feb. 2015		
13	Visit to National Civil Defence College, Civil Lines, Nagpur	11 th March 2015		
14	Inauguration of chemical society "Alchemy"	22 nd Sept.	Dr. N.K. Tiwar	Former Scientist ISRO Bangalore.



		2015	i,	
15	Organized one day University Level teacher's Workshop entitled "Discussion on Restructuring of U.G. Syllabus"	11 th Oct. 2015		
16	Alchemy arranged student seminar for semester-V in the subject chemistry			
17	About Eight students offering chemistry from B.Sc. final year were trained at ANOCON laboratory Butibori, Nagpur			
18	Alchemy arranged visit to Regional Forensic Science Laboratory for the students during "Forensic Science Awareness Week".	29 th Jan.2016		
19	A Guest lecture on topic Structure and Bonding in (NPCl ₂) ₃ and (NPCl ₂) ₄	12 th April 2016	Dr. Hemant Jahagirdar	
20	Selection Rule and Hole formalism	12 th April 2016	Dr. K.P.Kariya	
21	NMR Spectroscopy	12 th April 2016	Dr. N.M.Karde	
22	One Day University Level Teacher's Workshop entitled "Discussion on Restructuring of U.G. Syllabus"	11 th Oct.2015		
23	A meeting was organized at Dharampeth M.P.Deo Memorial Science College, Nagpur on to finalize draft of the discussion.	28 th October 2015		
24	Guest lecture on the topic "Opportunity of Research in Germany and Beyond".	12 th Sept. 2016	Dr. Anu Naik	
25	Student's seminar was organised by the Department of Chemistry in the month of Oct. 2016 for B.Sc. Sem-V students.			
26	Workshop on "Handling of Instruments, Maintenance of Instruments, Preparation of solution etc" was arranged for Laboratory Assistant and Attendant in Chemistry Department			
27	Chemistry Department adopted Microscale Technique for students of B.Sc. Sem-V and Sem-VI in regular chemistry practicals			
28	Department conducted assessment test for student of B.Sc. Sem-I for identification of slow, ordinary and extraordinary learner.			

**Department of BOTANY (Activities 2012-13 To 2016-17)**

1.	Organized a one day excursion to observe several species of plants at Rawanvadi and Ziri. Dr. P. T. Humane guided the students about the flora in natural habitat.	29 th September, 2012
2.	The department of Botany actively engaged to provide the facility of plant identification to the students and researchers in the field of pharmacy and herbal medicine. Recently a group of ten people from College of Ayurved and Research Centre, Pune visited the department, Dr. P. T. Humane guided the staff and students on taxonomy of medicinal plants on 8 th January, 2013.	
3.	Department of Botany organized a one day botanical excursion to Chandpur on 1 st October, 2013. Dr. P. T. Humane guided the students about the flora in natural habitat. This helped to increase awareness about the conservation and sustainable use of the environment and natural resources.	
4.	University grants commission sanctioned diploma in mushroom cultivation to the department in the session 2013-14 under career oriented courses.	
5.	A one day botanical excursion to Ziri, Ravanwadi and Korambi on 20 th October, 2014.	
6.	A one day botanical excursion to Chandpur on 17 th October, 2015.	

Department of English(Activities 2012-13 To 2016-17)

<u>1</u>	English Language Association has organized an Intercollegiate Poster Presentation Competition. The topics of the competition was "The Role of Media in Language Learning" and Short Story Writer that inspire you".	21 st January, 2013.
<u>2</u>	"An Intercollegiate Photo Article Writing Competition" was conducted by the department.	
<u>3</u>	A Self Government Activity was carried out for Students of Home Science who covered Grammar topics in this activity.	26 th and 27 th July, 2013.
<u>4</u>	A Poster Presentation Activity was	7 th , 8 th and 9 th August, 2013.



	held The topic was “An introduction to Tenses”.	
<u>5</u>	A Street Play Activity was held on 20 th September, 2013. The topics were Water conservation, Female foeticide, and Generation Gap.	
<u>6</u>	English Language Association organized an Intercollegiate Poster Competition. The topics of the competition was “Indian Writing in English”.	21 st January, 2014.
<u>7</u>	One Week Workshop on ‘Grammar Rules’ was conducted..The workshop aimed at revising basic grammar topics before the Transformative grammar as most of them are from Marathi medium. Grammar worksheets were provided for practice and prizes were given for quick answers were in order to inculcate competitive spirit.	
<u>8</u>	A Poster Presentation Competition was held The topic was an ‘Introduction to Preposition’	25 th July, 2015
<u>9</u>	An innovative workshop organized on ‘Convert Prose into Poetry ‘.	7 th August 2015.
<u>10</u>	One Week Workshop on ‘Grammar Rules’ was conducted for BS c HS c- I students The workshop aimed at revising basic grammar topics before the Transformative grammar as most of them are from Marathi medium.	29 th August, 2015
<u>11</u>	The month of September was declared as the ‘Month of Debate’ where the students opting Supplementary English debated on the probable topics of essay writing.	
<u>12</u>	A Self Government Activity was carried out Students of Home Science covered Grammar topics in this activity.	25 th September, 2015.
<u>13</u>	A ‘Story Book Writing Activity’ was carried out for BS c- I students. The students were asked to prepare a story book on the basis of the chapter prescribed in the syllabus.	
<u>14</u>	A workshop on “Listening Skills” was conducted for the students of Home Science.	3rd February, 2016
<u>15</u>	A Workshop on “SWOT ANALYSIS” was conducted on 9 th April, 2016. Students prepared a project on “SWOT analysis of Characters” from the Prose of the syllabus.	9 th April, 2016.
<u>16</u>	An Intercollegiate Poster Competition was held The topic of the competition was “Movies Inspired by Books”.	21 st January, 2014.
<u>17</u>	An Intercollegiate “Photo Article Writing Competition” was conducted by the department. .	



<u>18</u>	Bridge Course in English was conducted from 11 th to 16 th July to help learners to understand Basic English Vocabulary and to familiarize learners with the basics of grammar.
<u>19</u>	A Self Government Activity was carried out on 26 th and 27 th July, 2017. Students of Home Science covered Grammar topics in this activity.
<u>20</u>	‘Poetry on Canvas’ activity was conducted on 9 th August, 2016. Students prepared posters on the poetry Ulysses and Ecology from the syllabus.
<u>21</u>	Round Table Discussion on Gandhi and Politics on 23 rd August, 2016 for Supplementary English students.
<u>22</u>	Film Screening ‘Partition of India’ was screened on 11 th July 2017.
<u>23</u>	Guest lecture on Time Management and Goal Setting by Mr. Shreesh Shukla, Founder, EssDee and Partner at Raj Scientifics on 19 th September, 2017.

Department of Statistics (Activities 2012-13 To 2016-17)

1	Stat Fest: A flow chart presentation competition Problem solving competition.			
2	“Indian Statistical System”	4 th October 2012	Mrs. Shalini Bhoyar	Deputy Director General, NSSO, Ministry of statistic and planning.
3	Guest Lecture on “Applications of Statistics in Medical Sciences”			
4	Power point presentation on motivational story of tiny frog emphasizing importance of patience and perseverance	25 th Sept., 2014	Mr. Chachalesh Sawai	
5	Problem solving competition : numero Stat	5 th March 2015		
6	Stat Vita : A Statistical quiz competition on 14th March 2015			
7	Intercollegiate Power point		10 march 2016	



	competition on topic:-‘Recent innovations in Science and Technology’ -‘Woman Scientists’	
8	Statistics Society 2015-16 organized different competitions for students like- 1. Treasure Hunt: Hunting for solution of a tricky question using given clues. 2. Poster competition: Diagrammatic representation of any statistical data from newspaper. 3. PPT Competition 4 Essay Competition: “Today’s Statistical Thinking” is as necessary as the ability to read and write.	

Faculty of Home Science

DEPARTMENTAL ACTIVITIES (2012-13 To 2016-17)

- The students of B.Sc part 1 and 2 visited Raman Science Centre on 13th December. The students learned concepts like handloom, machine clock, networking, magnetic induction. They got excited on learning the concept of Air Piano and how a cyclone was formed. They also visited 3D show and planetarium and could also witness the science magic show.
- The students of Home Science attended the workshop on floral carpet. This was organized by Mrs. Vinaya Kashikar of Home science faculty.
- The students of B.sc home science part 1 and 2 attended the NSS Camp on December 2012.
- A Poster Presentation Competition was held on 13th August, 2012. The topic was “The Elixir of Life”. The competition was judged by Mrs .Sujata Ali, Department of English, Dharampeth Science College, Nagpur .The winner of the competition was Ms. Radhika Shrama (1st prize) and Ms. Meenakshi (2nd Prize).
- A Self Government Activity was carried out on 9th January, 2013. Students of Home Science covered Grammar topics in this activity.
- A Guest Lecture on “Transformative Grammar” was conducted on 16th January, 2013, by Dr. Mrs. Manjushree Sardeshpande, Assistant Professor, Department of English, R.S.Mundle Dharampeth Arts and Commerce College, Nagpur.
- Certificate Course in Conversational Skills through E-Training was introduced in the academic session 2012-13. 12 students have enrolled for the course.



- Felicitation of students who bagged meritorious position at the RTMNU in academics & sports during academic session 2014-15 at the hands of Dr. V.J. Aprajit, Principal of our college, was organised.

NUTRITION WEEK

On the occasion of Nutrition week celebration, competition of preparing Novel-recipe out of unknown ingredients was organised by Dr. Shweta Kholkute & Mrs. Nivedita Dande. Students creative skills were tested.

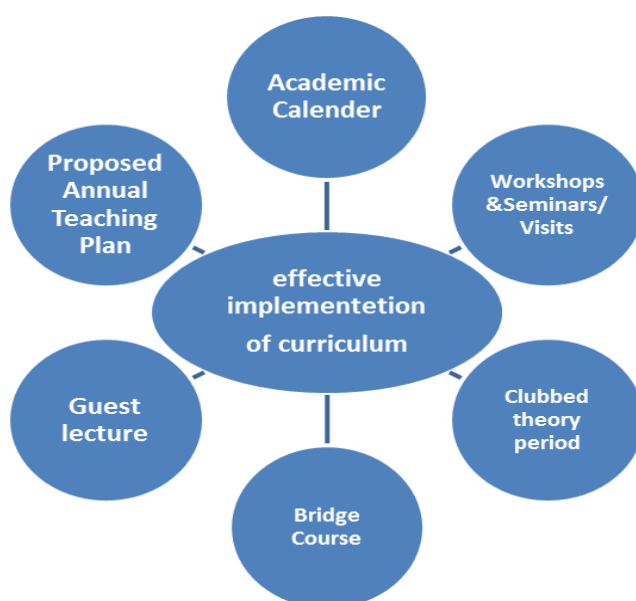
WORKSHOPS

‘Paper Quelling’ and ‘Best out of waste’ workshop was organised for H.Sc students, on the 3rd of November 2015 by Mrs. Prajakta Ganorkar and Ms. Girja Ganorkar took immense effort for helping every participant to learn. Students took immense interest and whole-heartedly participated in this workshop.

EXTENSION COMMUNICATION TECHNIQUE

- B.Sc. H.Sc. III students arranged and presented the concept of ‘Ideal Village’ as an activity in progression of the curriculum in the subject Extension Communication Techniques. It’s a curriculum based activity where in students are assigned marks for the efforts. This activity was conducted under the guidance of Dr. Manda Walokar, Head Mistress of ‘South Point School’.
- Installation of Home Science Students Association “HARMONY.”
- Rangoli workshop by Alumni of college Ms. Nikita Deshmukh & Megha Dawande.
- Participation of B. Sc. Home-Science Part – II & Part – III students in workshop for Diabetic Patients, organised by, “Madhumeha Modem” on 28th August 2016 at Akola.
- Department of Resource Management & Nutrition, faculty of Home Science, Dharampeth Science College in association with IWSA Nagpur Branch and Apang Mahila Bal Vikas Santha, WHC Road, Nagpur, has celebrated World Food Day on 25th October 2016 at 3.00 p.m by organizing a Poster and Slogan Competition.
- The Programme details are as follows.
- Theme for the Poster and Slogan : Let us make hunger and nutrition Competition go hand in hand Sub Themes
- Nutrition through organic and local food
- Meal planning for health

- Hunger management for nation building
- Health care begins from home kitchen
- Venue: Dharampeth Science College, Ambazari, Nagpur.
- Alumni Meet was organized by Department of Resource Management on 24-12-2017. Principal Dr. Akhilesh Peshwe addressed the meet.
- Rahul Jawade, Director: ATR Enterprises, GMIPL, Red-Integrate Innovations Pvt Ltd, addressed a guest lecture on „significance of Management in Today’s Scenario”, on 29-12-2017. Lecture was organized by the Department of Resource Management, Nagpur.



1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The college ensures that the academic programs are in line with the institution’s goals and objectives and the College is updated with the latest norms and guidelines stipulated by the affiliating university. To effectively translate the curriculum and improve teaching practices the following steps are taken:-

- Teaching faculty is encouraged to update their knowledge by participating in seminars, workshops and hands -on training sessions and courses conducted by other agencies like affiliated Universities and nearby colleges.



- Institute provides facilities like ICT in some of the laboratories
- Smart classroom facility
- Net connectivity to every department
- Video conferencing facility
- Audio-visual aids are provided.
- Most of the departments have their own departmental library other than the central library.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The College is affiliated to Rastrasant Tukdoji Maharaj Nagpur University, Nagpur and it is mandatory to follow the rules and regulations of university. However the institution does its contribution through the teachers as most of the teachers are members of Board of Studies.

Departments prepare an academic calendar at the beginning of the session which includes time schedule for effective completion of curriculum, schedule for conducting internal tests as well as other co and extracurricular activities, Faculty is motivated to participate in workshops / meetings organized by Board of Studies of relevant subjects. Faculty are encouraged and granted duty leave for upgrading their

Knowledge by attending research meets, workshops, symposia, training programs and UGC sponsored orientation and refresher courses. Some of the departments have organized workshops on revised curriculum design and development as per the guidelines of UGC in collaboration with Board of Studies of RTM Nagpur University, Nagpur.

Some of the departments also take initiative in organizing guest lectures and demonstration of some new practical included in the curriculum. Teachers always try to generate student's interest and suggest different resources.

The College has an excellent collection of books in the library and has also developed some databases for students. Every department has its own departmental library with question bank, reference book, text book, journals, manuals and donated books.

To encourage the students and generate their interest in reading, Best Reader Award is given annually and is one of our best practices.

Visits to various establishments like industry, research institutes and excursions are arranged by most of the departments to impart much needed knowledge to the students.

Remedial coaching and counselling is provided to academically weaker students.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research



bodies and the university in effective operationalization of the curriculum?

In order to execute curriculum effectively our college is having Academic Collaborations with some of the beneficiaries. Though the institution is UG college, it has limited number of formal and signed MOUs for collaboration. The institution has signed the MOUs with following institutions / organizations / industries for its research activities.

- PathakAyurvedic Pharmacy, (Ethical Division), Plot No.3, Dwarkapuri Layout, Kashinagar, Rameshwari Nagpur-440027 (Maharashtra) Mfg. Licenses No. NG/Ayu/02/2007
- PathakAyurvedic Pharmacy, House No.57/4, Shivaji Ward, RailToly , Gondia-441614 (Maharashtra) Mfg. Licenses No. ND/Ayu/36/1995
- Shree BaidyanathAyurvedBhavan Pvt. Ltd., Great Nag Road, Nagpur- 440009 CIN No. U24233WB1947PTCO15374
- Nisha Herbal Pvt. Ltd., Plot No. U-142, MIDC Hingana, Nagpur- 440028
- ManasAyurved, Plot. No. 9, GokulBunglow, Ghatate Lay-out, Nr. Bole Petrol Pump Square, Civil Lines, Nagpur- 440001
- Grace Herbals, 28 & 29, Deepkamal Society, Khapri (Rly.), Nagpur- 441108
- SMS ENVOCARE LTD, SMS Group; Corporate Office: 20, IT Park, Parsodi, Nagpur 440022, Maharashtra
- Sun Enviro Pvt. Ltd, Nagpur, Plot No. 22, Ashok Colony, Near Union Bank,of India Pratap Nagar, Nagpur 440025
- Enviro Techno Consultant Pvt. Ltd, Nagpur. Plot. No. 68, MahakaliNagar-2; Behind Keshav Hospital, Manewada, Nagpur 440024
- Purti Power and Sugar Ltd, Khursapar, Bela, Tah. Umred, Dist Nagpur; Office 46, Hill road, Ram Nagar, Nagpur
- Purti Alternative Fuel Pvt. Ltd, Corporate office: 30, Palkar Palace, Ambazari Layout, Nagpur; Registered Office: Plot No. 42, Hill Road, Ram Nagar, Nagpur
- Gau Anusandhan Kendra' at Deolapar,
- Microbiology department has signed MOU with 'Rajiv Gandhi Biotechnology Centre 'since -2011-12.
- An MOU has been signed with the MCVC department of our college to undertake the maintenance work of our college.

Our Institute also organizes Seminars, workshops and guest lectures by inviting Industry experts so as to keep the students in touch with the recent trends of education. Visits are also organized to different laboratories and industries .



1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (number of staff members/ departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

The college has made major contributions in the field of designing the curriculum. A number of faculty members are the members of Board of Studies, member of subject examination committee, member of committee for curricular design. It is worth noting that Dr. A. V. Peshwe, Principal of our institute and a faculty of English being a member of Kavi Kulguru Kalidas Sanskrit University, Ramtek, his English book on Administrative Services, for the students of B.A. semester I and II is being published.

Dr. A. V. Peshwe worked as a member on prestigious committees formed by the RTM Nagpur University, Nagpur for academic excellence like-

1. Vision Document committee

2. Youth Policy committee

Sr. No.	Name of the Faculty	Dept./Subject	Session	Board of Studies
1	Dr. A. V. Peshwe	English	2015-16	English
2	Dr .C. V. Dhule	Electronics	2012-13 To 2014-15	Electronics
3	Dr.C.P. Cholkar	Statistics	2015-16	Statistics
4	Dr. N.L.Khobragade	Mathematics	2012-13 To 2014-15	Math
5	Dr.A.S.Kulkarni	Microbiology	2012-13 To 2014-15	Microbiology
6	Dr.S.K.Ubale	Physics	2012-13 to 2014-15	H.Sc.(applied Physics)
7	Dr.P.T. Humane	Botany	2015-16	Botany
8	Mrs.M.M. Deshpande	Human Development	2012-13 to 2015-16	Human Development
9	Mrs.R. Kulat	Textile and clothing	2021-13 to 2015-16	Textile and clothing
10	Dr.R.B.Lanjewar	Chemistry	2012-15	H.Sc.
11	Dr.Mrs. V.R.	Public health and	2012-13 to	H. Sc.



	Kathoke	epidemiology	2014-15	

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

Our institution developed curriculum for some courses approved by the RTM Nagpur University and sanctioned by the UGC. The syllabus is exhaustive and has wide applied content. It has vocational applications at each level in Science and Home-Science.

-The college runs a U.G.C sponsored Add- on certificate course and diploma course in Bioinformatics as well as UG and PG course in Bioinformatics.

-One year Diploma in Mushroom cultivation under career oriented course sanctioned by UGC

- Computer department of our institute designed curriculum for short term training programmes 1. 'Fundamentals of Computer' for non-teaching staff

2. 'Under-skill development programme for life science students

a. 'Enhancement of computer skills'

b. 'Enhancement of learning skills through ICT tools'

3. 'Enhancement of teaching and learning through ICT tools' for Home Science faculty.

1.1.8 How does institution analyse /ensure that the stated objectives of curriculum are achieved in the course of implementation?

A continuous effort is made while designing and implementing the curricula.

The Institution focuses on objectives to develop problem solving and decision making capacity, personality development and effective communication. Sufficient care is taken to ensure that the curriculum is implemented within the prescribed time frame and the teachers ensure that the entire portion is covered well in time. If for some unforeseen reasons a particular teacher is unable to complete the syllabus then extra lectures are arranged.

Regular written , oral tests and preliminary examinations help to analyze the level of understanding and communication skills of students.

Opportunities are provided to students for real life experience by including field visits in the curricula.



Most of the departments of our institution keep a record of students admitted to Post graduation, percentage of students employed, percentage of students who are self sufficient.

- Remedial teaching is arranged for slow learners.
- Regular feedback on curriculum from academicians is obtained.
- Analysis of feedback from students is communicated to staff.
- Feedback of academicians as well as of students is regularly communicated to B.O.S. members so as to bring about necessary change in syllabus.
- Mock sessions of practical examinations are conducted prior to their semester examination to ensure that the stated objectives of curricula are achieved.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution.

The main goals and objectives of offering such courses are to equip students with practical skills which could not be provided in the regular curricula. Communication skills and overall development of students improve as a result of interactive sessions and presentations

The college runs a U.G.C sponsored Add- on certificate course and diploma course in Bioinformatics and Mushroom cultivation. Bioinformatics gives students a deeper insight about the subject and widens their prospects in research work. Mushroom cultivation will enable the students to become self- sufficient.

- Some of our students have registered for NPTEL online course in different subjects.

Computer department of our institute regularly runs short term skill development programmes like

1. Fundamentals of Computer for non-teaching staff
2. Under skill development programme for life science students
 - a. 'Enhancement of computer skills'
 - b. 'Enhancement of learning skills through ICT tools'
- 3.' Enhancement of teaching and learning through ICT tools for Home Science faculty.

1.2.2 Does the institution offer programmes that facilitate twinning/ dual degree? If yes', give details.

Currently, no such facility is provided.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may



cover the following and beyond:

- *Range of Core / Elective options offered by the University and those opted by the college*
- *Choice Based Credit System and range of subject options*
- *Courses offered in modular form*
- *Credit transfer and accumulation facility*
- *Lateral and vertical mobility within and across programmes and courses*
- *Enrichment courses*

The Science faculty, at the degree level offers 9 subjects in different combinations as per the syllabus framed by science faculty of RTM Nagpur University, Nagpur. It includes Physics, Chemistry, Mathematics, Electronic, Statistics, Computer Science, Zoology, Microbiology and Botany. RTM Nagpur University has introduced semester pattern in the faculty of science since 2013-14 and the new syllabi for all the subjects came into force from the academic session 2013-14.

Elective options:

The students are free to select the subjects which are offered in various combinations. In addition to this they have a paper of Compulsory English at B.Sc. part I level. Student has to opt for any one language out of Marathi/Hindi/Sanskrit/Supplementary English in B.Sc. Part I.

The various programme options available in the college are Environmental Science is the compulsory subject at B.Sc. part II level. The Science subject opted at B.Sc. I level are retained at B.Sc. II and B.Sc. III level.

A new elective option with subject combination Electronics, Mathematics and Computer Science was implemented since session 2006-07 by the college for the course enrichment.

The subject combinations are as follows:

MATHEMATICS GROUP	BIOLOGY GROUP
Physics, chemistry Mathematics	Chemistry, Botany, Zoology
Physics, Mathematics, Electronics	Chemistry, Botany, Microbiology
Physics, Statistics, Mathematics	Chemistry, Zoology, Microbiology
Physics, Computer science, Mathematics	
Statistics, Computer Science. Mathematics	
Electronics, Computer Science, Mathematics	

Faculty of Home-Science-

The H. Sc. faculty at its degree level has compulsory subjects at the I, II, III level. Semester pattern was introduced recently in H. Sc. faculty 2016-17 onwards.



B. Sc .I
Food Science & Nutrition
Human Development
Introduction to Textile & Clothing
Resource Management
Home Science Extension
Ecology & Environment
Basic Chemistry
Applied Physics
English & Communication Skills
B.Sc. III
Diet Therapy
Family Dynamics & Counseling
Advance pattern making & Fashion Designing
Resource management
Extension Training Management
Public Health & Epidemiology
Nutritional Biochemistry

The subjects and paper title introduced in Semester pattern are given below:

H. Sc. SEM I	H. Sc. SEM II	
Fundamentals of Food Science and Nutrition I	Fundamentals of Food Science and Nutrition II	English & Communication Skill
Fundamentals of Textile & Clothing	Development in early years	
Fundamentals of Family Resource management	Sewing Techniques	
Fundamentals of	Interior Decoration & Design	



Home Science Extension	
Ecology and Environment	Social survey and Community Development
Basic Chemistry I	Ecology& Environment II
Applied Physics and Basic Computer I	Basic Chemistry
English and Communication Skill I	Applied Physics and Basic Computer II

The college also runs a U.G.C sponsored Add- on certificate course and diploma course in Bioinformatics and recently sanctioned diploma in Mushroom Cultivation under career oriented course by UGC. These courses can be opted by the students of any stream.

There is no flexibility to the students to move from one discipline to another . However academic flexibility is given to the desirous students for the transfer from Science to Home Science faculty and vice versa and from one subject combination to another subject at B. Sc. I level with prior permission of the Principal and before the submission of enrolment forms of the students to the University.

1.2.4 Does the institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

The institution offers computer Science as one of the self- financed Programme. The students can offer Computer Science along with Mathematics /Statistics /Physics/ Electronics at degree level. The Curricula for Computer Science is designed by RTM Nagpur University, Nagpur. Qualification of the teacher for appointment is as per the eligibility norms prescribed by the University. The fee structure is higher than the grant in aid programmes but within the limit given by the University/State Government. The salary of the teachers appointed for this subject is decided by the management. Fee Structure: 5000/- per annum. The Add-on courses like Certificate/Diploma in Bioinformatics as well as Mushroom Cultivation is a self- financing course introduced by UGC Scheme as an introduction to career oriented course for providing parallel education for students to enhance their employability. The curriculum was designed by the college and was approved by the



concerned board of studies in the University.

Fee Structure:

Add-on Course	Fees per annum
Certificate course in Bioinformatics	1500/-
Diploma in Bioinformatics	2500/-
Mushroom cultivation	2500/-

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

Regional and global competencies among students are strengthened by arranging programmes/workshops/seminars on personality development, communication and soft skills for enhancing the confidence level and preparing the students to be globally acceptable. Skill development programme is based on the following parameters

- Team work
- Decision making
- Time management

The training and Placement cell provides training and guidance to students by organizing seminars and workshops.

Session 2012-13	<ul style="list-style-type: none"> ➤ A seminar on “Effective Communication Skill” ➤ A workshop on ‘Aptitude Test, Interview Techniques and Group Discussion. ➤ A seminar on “Why MBA” ➤ Two students Ms. Shraddha Patankar (B.Sc.II) & Ms. Apurva Ingole (H. Sc. III) were selected for the placement drive conducted by Wipro. 10 students appeared for GD &PI
Session 2013-14	<ul style="list-style-type: none"> ➤ ‘Power point presentation Competition ‘ for student by Computer department ➤ Two days workshop on “Employability & Campus boosting” for students conducted by “Take It Ideas Training & placement Pvt. Ltd.”
Session 2014-15	<ul style="list-style-type: none"> ➤ A seminar on “GDPI(Group Discussion & Personal Interview Techniques) ➤ A seminar on “Communication Skill” ➤ Five students (B.Sc. III) were participated in Open Campus



	<p>Interview of Infosys organized by Zulelal Institute of Engineering, Nagpur</p> <ul style="list-style-type: none"> ➤ Aptitude test (on the basis of Competitive exams) was conducted by training & placement cell in collaboration with Gadget Career Academy for B.Sc. III students.
Session 2015-16	<ul style="list-style-type: none"> ➤ A seminar on 'Facing Challenges in Competitive Exams . ➤ 20 students enrolled for 'Free training programme of Computer and English organized by NCCI Nagpur. ➤ The Aptitude test was conducted by NIIT for 'BhavishyaJyotiScholarship" for students of Computer Science. ➤ Seminar on "How to crack competitive exams?" organized by The Career Tool Academy and Alumnus of the college. ➤ One day workshop on "Training and Career opportunities in the field of computer. ➤ Microbiology dept. organized workshop on "Regional Biofertilizer Technology". ➤ Workshop on " Developing Communication Skill" ➤ A Mind Training workshop on " Mind Power Improvement" ➤ An interactive on "Confidence Building and Performance" for the students of H.Sc.
Session 2016-17	<ul style="list-style-type: none"> ➤ Career Guidance Seminar in Collaboration with Maharashtra Times on Career in Defence & Science Stream. ➤ A seminar on Career Opportunities in Govt. Jobs UPSC, MPSC & Banking Sector. ➤ Seminar on Education & Career Opportunities Abroad ➤ Seminar on Business Analytics Workshop on PHP (Web Designing) at company premises for B.Sc Computer Science Students ➤ Seminar on "How to crack the SSC, UPSC, MPSC & Banking Exams. ➤ Seminar on Career in Robotics
	<p>Placement Camp / Drive Organized:</p> <p>CL TC organized outsourcing recruitment drive for "CAPE GEMINI" . B. Sc. passed out students were sent for interview at Dr. Ambedkar College, Nagpur on 9/9/2016.</p> <p>In campus placement drive for B.Sc. passed out students for "Position of MR" in Troikaa Pharmaceutical Company was organized on 3rd March 2017. Two candidates were short listed.</p> <p>Inter Departmental Skill Development Program.</p> <p>Department of Computer Science & Department of Microbiology jointly organized Two in house skill development program for the students of life sciences.</p>



Sr. No.	Date	Name of Activity
1	8 th – 12 th Aug. 2016	Enhancement of Learning Skills through ICT Tools
2	22 nd -27 th Aug. 2016	7 days workshop on “Enhancement of Computer Skills”

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the institution take advantage of such provision for the benefit of students?

The University does not provide flexibility of combining face-to-face and distance mode of education.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?

The Institutions goals and objectives are to groom the students so that they are able to navigate successfully through the curriculum and to inculcate scientific and rational attitude in the students. The institution is affiliated to the University and the rules and regulations are as prescribed by the university. There is limited scope for curriculum enrichment as the syllabus is framed by the University, however, the teachers constantly endeavor to provide additional knowledge and information to the students. The institution takes efforts to supplement University’s curriculum through various activities .

Most of these activities are totally curriculum based (seminars/ guest lectures/workshops/visits etc.),

- Efforts are taken to achieve high standards of academic excellence.
- Some of the faculty members are generous and kind enough to provide financial help to aspiring needy students .
- To supplement academic needs; Library services along with adequate IT network are made available.
- Enrichment programs and add on courses have been introduced to the Students and they are encouraged to use latest technological methods in academics..
- The institution upgrades laboratories as per the basic requirement of curriculum.



- The department of computer science often visits Industries to train the students for project development.
- Visits to biotechnology laboratories, forensic laboratories, thermal power station, hospitals, field visits, excursion for collection of samples are organized by some of the departments.
- Challenging activities based on curriculum like Exhibitions, 'Scientific Rangoli Competition', Power Point competition and many more were organized by various departments.
- In the faculty of H.Sc. various departments visit Food Industries, Textile Industries regularly.
- It is noteworthy to mention that this year our college took initiative in organizing curriculum based exhibition in collaboration with 'Vigyan Bharati' by name 'Kutuhel'. Vigyan Bharati works for the total development of Bharat through the application of science and technology.
- To enhance the knowledge of the students and to make them aware about the internal working of the electrical appliances, actual demonstrations by professionals was performed in the campus. The entire activity was student centric. Various departments including Home Science Department participated in the exhibition.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

There is limited scope for curriculum enrichment as the syllabus is framed by the University. A feedback regarding the curriculum is obtained from the students as well as academic peers. Analysis of the feedback is done to understand and minimize the gaps in the curriculum, resulting in the suggestions and recommendations that are made to Board Of Studies of the University.

Various activities are done to enrich the curriculum.

- Guest lecture on subject like 'Future prospects in Hardware and Software Computing'
- Workshops on 'Career Oriented Courses In Computer Science' was organized by Computer Dept.
- A seminar on "Why MBA"
- Aptitude test (on the basis of Competitive exams) was conducted by training & placement cell in collaboration with Gadget Career Academy for B.Sc. III students.



- A One day workshop on “Training and Career opportunities in the field of computer.
- Department organized a workshop for one week on ,’ Design, Fabrication and Repairing of Physics Laboratory Equipment’ between 6-11 March 2017 for the B.Sc. 6th Semester students.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

Women Cell organizes lectures, Seminars, workshops relating to gender issues, spreading awareness among the students regarding the legal rights of a woman.

A guest lecture on “Methods of tackling problems faced by working women in today’s world.”

- ‘Betibachao rally’
- Why are more boys born than girls?
- A skit competition based on Role of Women, Female foeticide and generation gap
- Woman’s security & self respect Rally was organized to pay homage to the Delhi Rape Victim ‘Nirbhaya’

Environmental Education-

- Environmental Science is a compulsory subject for B.Sc.II. Projects based on environmental issues are given to students every year .
- Recently Green audit (energy audit) has been started which was done by Home Science students opting for Applied Physics.
- Tree plantation programme by NSS
- NSS volunteers participated in ‘JaldindiRally’ to spread awareness among the community about the necessity of saving water.
- Environmental awareness drive : The students of our college visited Futala Lake and performed a small skit demonstrating the pollution of water of the lake due to wrong habits of the public, thereby destroying the entire flora and fauna of the lake water.
- Students of our college visited Biodiversity Park to learn about the myriad species of butterflies, corals and insects.
- College regularly organizes ‘Pollution Under Control Camp’(PUC Camp)
- To manage solid waste in the college campus vermi composting activity is taken up with the students of Zoology under Solid Waste Management.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure



holistic development of students?

§moral and ethical values

§employable and life skills

§better career options

§community orientation

Moral, ethical Values and Community oriented activities taken up by the college:

To make students aware of community development our college is actively engaged in various social activities like National Service Scheme (N.S.S), visit to orphanage.

Activities under NSS:

- Tree Plantation activity is taken up every year on World Environment Day.
- Blood donation camp is held every year in collaboration with Hedgewar Blood Donation Bank.
- Organ Donation Awareness programme is organized regularly.
- 'Beti Bachao Rally' to create awareness in the society about the need and the importance of girl child.
- Visit to 'Old age Home' 'orphanage' by Home Science students to make them aware about the fast diminishing family values in our society.
- The students of NSS took out Vyasankuti Rally in the economically backward areas where their camp had been set up to highlight the evils of smoking and consuming alcohol.
- The students of NSS conducted 'Andhashraddha Nirmulan Programme' in the rural areas through dramas and skits.
- A lecture on 'Road Safety' in association with Janakrosh to make the students aware about rules and regulations regarding road safety.
- A lecture on 'Nuclear Power Plants and its Principles' was taken up to create awareness among the students about importance and need of today's energy crisis.

Value addition committee of our college conducted competitions based on community oriented issues

1 Population Explosion : its effects

2 Why are more boys born than girls?

3 Fight poverty: Educate girls

4 Students visited 'Snehanchal' (one of the social organization which works for last stage cancer patients) met the patients and shared their pain.

The aim of these activities was to create awareness, realization of social duties and impart



knowledge among students about current social issues.

Employability and life skills for better career options:

Education is aimed to prepare one for future life. Training the young students for future employment is thus one of the major objectives of higher education. With this aim in mind one of the major goals of Training and Placement Cell is promotion of employment. Our college offers various certificate courses, seminars and guest lectures to improve their employability such as:

- A seminar on “Facing challenges in Competitive exams
- ‘Free training programme of Computer and English ’organized by NCCI Nagpur
- Career Tool Academy and Alumnus of the college conducted a guidance seminar on “ How to crack Competitive Exams”
- One day workshop on “Developing Communication Skills” A mind training workshop on “ Mind Power Improvement”
- An interactive workshop on “Confidence building and performance”

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Feedback from students is obtained by Feedback committee members, who, from time to time ask students to express their opinion about the syllabi and method of teaching. The assessment schemes implemented and the question paper pattern are discussed in the classroom by teachers of different subjects. The feedback is collected from students and is analysed. If required corrective measures are taken by the authorities .

STUDENTS FEEDBACK FOR TEACHERS:

Analysis of students feedback based on parameters like Knowledge base of the teacher , Communication skills, Sincerity / Commitment of the teacher, Interest generated by the teacher in the subject, Communication skills (in terms of articulation and comprehensibility)

Parents Feedback :

Analysis of parents feedback based on parameters like-

Infrastructure Facilities, Library, Laboratory, Canteen, Internet facility, Student’s counselling and guidance , Placement activities, extracurricular activities and sports. Programmes arranged by the college for achieving industrial exposure, encouragement to students for participation in various co-curricular activities. Quality of academic resources, namely teachers, course material etc. Efforts taken by college for overall grooming and personality development, student mentoring, discipline maintained by the college. Technical knowledge and communication skills acquired by the students.



The college regularly organizes parent- teacher meetings to exchange the view points on the student progress in academic as well as non-academic fields. Suggestions given by the parents are duly considered and implemented as far as possible. Parents are free to meet the Principal, Vice Principal and the Teachers as and when need arises.

Academic Peers:

Feedback is obtained from academic peers in the seminars, workshop, meetings and during practical examinations which are specifically organized for the purpose or on other occasions when they meet during centralized assessment programmes in the university.

Alumni Feedback Analysis:

Feedback is obtained from alumni based on following parameters like admission procedure, fee structure, environment in the college, infrastructure, lab facilities, computer and internet facilities, faculty, training & placement, library and office.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The feedback and result is analyzed at the college level and whenever necessary, our faculty with the help of teachers from other colleges brings the matter to the notice of the elected members of the boards of studies in different subjects who in turn take the required steps to initiate necessary changes.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

There is very less scope for curriculum enrichment as the syllabus is framed by the University, however the teachers constantly endeavor to provide additional knowledge and information to the students. As and when the syllabus gets revised many departments of our college take initiative and contribute significantly by organizing workshops on discussion of revised syllabus. To sensitize students and develop their personality the college organizes numerous activities throughout the year. **(Appendix:1.1.6)**

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes, there is a formal mechanism to obtain feedback from students and stakeholders .The college obtains feedback on curriculum from-

- a) Students: Written Feedback and online
- b) Alumni: Written Feedback



c) Parents: Written Feedback

The analysis of the feedback so obtained is discussed in the faculty meeting and the same is communicated to the University at the time of restructuring of the syllabus. To bridge the knowledge gap identified, short term courses, value added programmes, enrichment courses are organized by the college.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

UGC sanctioned One year diploma in 'Mushroom cultivation' which was introduced to encourage the students for self-employment during the session 2014-15.



CRITERION II : TEACHING LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

College gets publicity in the admission process through

- The advertisements, which are regularly published in local and regional newspaper.
- College prospectus which is annually revised.
- Website: www.dharampethscience.com
- Notices put up on College notice boards.
- Verbal mouth publicity is voluntarily given by pass out students.

Transparency in the admission process

1. Admission process is intimated well in advance through Newspapers
 - The prospectus that is available alongwith the admission form. It contains information regarding the choice of subjects in the group in which admission is being sought, the eligibility, the college profile as well as the details about the admission process, fee structure and scholarships.
 - Website
 - Notices
 - Admission committee which strictly follows the government/ University rules and guidelines.
 - The admitted student list that is displayed on college notice board after admission process.
 - Flexibility in admission process that allows interchange of group of the students with the permission of the Principal, subject to the availability of seats.
2. The college strictly follows the deadline prescribed by the RTM Nagpur University and the admission process is completed before this date.
3. The Convener, Admission Committee, takes stock of the admission status and appraises the Principal accordingly. The Principal closely monitors the admission process in coordination with the Admission Committee.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.



Admissions to the First Year Degree course follows RTM, Nagpur university norms.

- The students applying for first year degree courses need to complete a pre admission registration process.
- The students are admitted to the 1st year degree course on the basis of interview.
- All reserved category students are given admission as per the policy of the State Government.
- Admission to second and third year degree courses is done as per the RTMNU rules.
- Admission is given to desirous meritorious students from other colleges, subject to availability of seats.

For career oriented courses (COC)

- Students admitted in the college for various UG courses are eligible for admission to the COC.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The cut off % varies from year to year depending on the XII board results and the demand for the various courses. The cut offs at our institution for the last two years is given in the following table:(1)

Admission profile

2015-16	Min.	Max
B.Sc/B.Sc(H.Sc)	40%	84%

2016-17	Min.	Max
B.Sc/B.Sc(H.Sc)	43%	96%

- In the Science stream, over 90% of our 12th standard students join professional courses.
- When compared to other colleges of the affiliating university, more or less the same trend is observed in other colleges as well.



2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort; and how has it contributed towards the improvement of the processes?

Yes, the college authorities take review of admission process and students profile annually and measures are taken to improve the process as per their needs.

- At the end of academic session, Principal holds a meeting with the heads of all the departments and members of admission committee and seeks advices from individuals about the required strength of students to be admitted in the next academic session at entry level.
- Appropriate proportion of group-wise admission is maintained as per the requirement of the college.
- The norms of reservation are strictly followed.
- When the admission process ends, the admission committee prepares a complete report that contains information regarding number of students admitted to individual programme, ratio of boys and girls, percentage of students from different categories and demand ratio.
- Students profile is prepared on the basis of data furnished in the admission form. This profile is also maintained through software in the college office.

Following suggestions were taken into account:

- To increase cutoff marks from 50% to 55% for admission at entry level for UG courses.
- To guide bright students regarding the scope of career after opting Basic Science courses.

Outcomes of this mechanism:

- It leads to a good student demand ratio.
- Results of students of the individual courses and subject combination are improved.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate /reflect the National commitment to diversity and inclusion

**** SC/ST***

**** OBC***

**** Women***

**** Differently abled***

**** Economically weaker sections 80***

**** Minority community***

**** Any other***

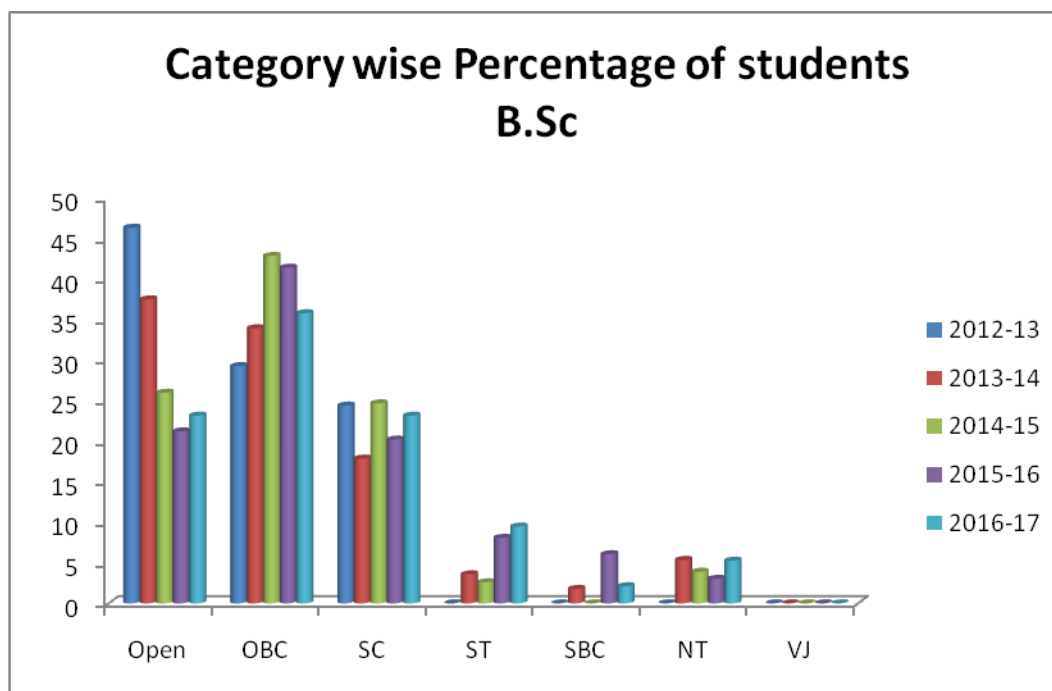


- Admission policy strictly follows the admission guidelines laid down by the Government.
- Students from the socially disadvantaged groups are duly admitted nevertheless, a sizable number from the economically weaker sections, students with learning disabilities, children of widows and defense personnel are also admitted. Students also get the admission through sports quota.
- The fees of SC/ST/OBC candidates are refunded (tuition, lab, examination, library and sports) by the Social Welfare Office, in accordance with government rules. The college has a high ratio of girls to boys.
- Our institution succeeded in securing benefits of the student's welfare fund of RTMNU for two of our economically disadvantaged students.

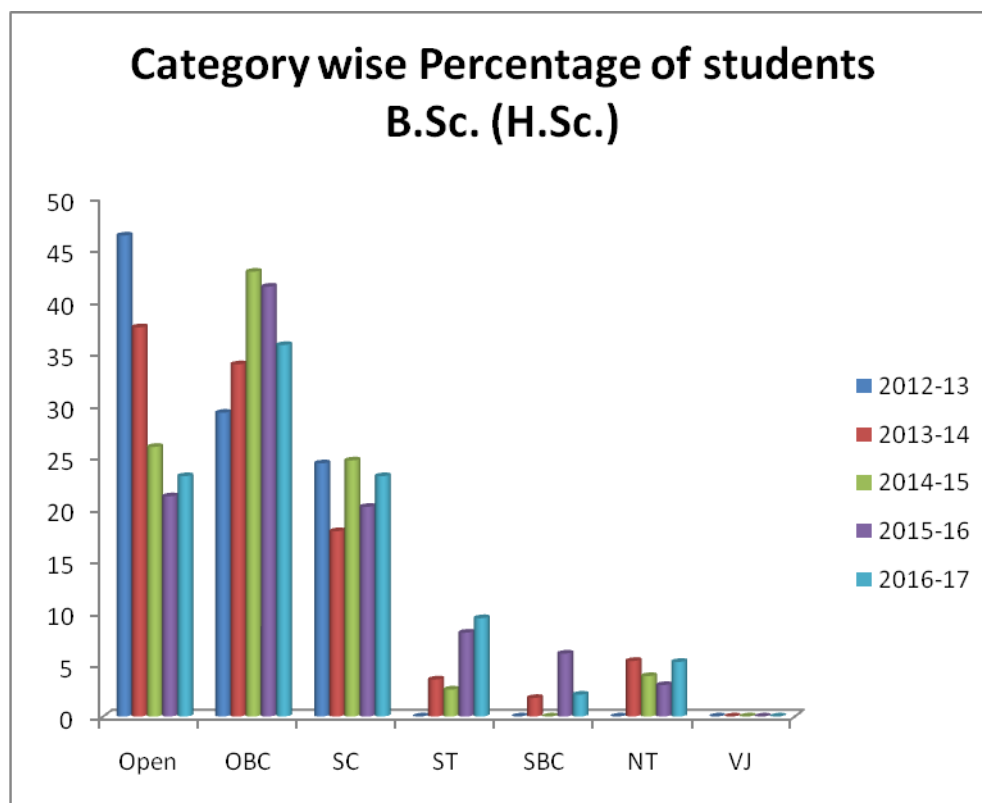
The following tables shows the number of students from the reserved categories admitted to the various streams in the last five years.

Students from the Reserved Categories

B.Sc	2012-13	2013-14	2014-15	2015-16	2016-17
Open	151	195	207	204	192
OBC	235	269	282	344	384
SC	100	93	106	127	126
ST	21	12	23	32	27
SBC	11	14	16	17	23
NT	28	31	29	25	34
VJ	3	4	3	04	5
Total	549	629	666	752	791



B.Sc(H.Sc.)	2012-13	2013-14	2014-15	2015-16	2016-17
Open	19	21	20	21	22
OBC	12	19	33	41	34
SC	10	10	19	20	22
ST	-	2	2	8	9
SBC	-	1	-	6	2
NT	-	3	3	3	5
VJ	-	-	-	-	-
Total	41	56	77	99	95



2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase/decrease and actions initiated for improvement.

2012-13

Programme	No. of applications Registered/Sold	Number of students admitted	Demand Ratio
B.Sc/ B.Sc(H. Sc)	445	330	1.34

**2013-14**

Programme	No. of applications Registered/Sold	Number of students admitted	Demand Ratio
B.Sc/ B.Sc(H. Sc)	499	347	1.43

2014-15

Programme	No. of applications Registered/Sold	Number of students admitted	Demand Ratio
B.Sc/ B.Sc(H. Sc)	649	338	1.7

2015-16

Programme	No. of applications Registered/Sold	Number of students admitted	Demand Ratio
B.Sc/ B.Sc(H. Sc)	634	384	1.65

2016-17

Programme	No. of applications Registered/Sold	Number of students admitted	Demand Ratio
B.Sc/ B.Sc(H. Sc)	751	401	1.8

➤ Demand Ratio is increasing every year.



2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

- All the differently-abled students who approach our college and those who satisfy the basic criteria get admission.
- The seats are earmarked for differently-abled students as per the directives from the Government of India.
- However, none of such students approached since last 5 years.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes, there is a provision for assessing the student's knowledge and skills before the commencement of the program.

- 12th standard marks serve as a basic indicator of knowledge of the student.
- The institution assesses students' needs during the admission.
- The admission committee interviews and assesses the students' abilities.
- Keeping in mind their career pursuits and higher education plans, they are counselled accordingly and knowledge gaps are identified. Based on this, they are counselled to choose a combination of subjects that suit their potential.
- The Principal addresses the first year students and gives them information about the rules and regulations of the college.
- During classroom interaction, teachers assess the students' knowledge and skills. They also identify their strengths and weaknesses through teacher-student interface.
- Bridge courses of respective subjects are conducted for slow learners, so that they are able to cope up with standard level before the commencement of actual subject teachings.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Addon/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Various strategies are designed and executed at the departmental level, which help the slow learners to bridge their knowledge gap and supplement them through additional instructional methods like:

- Bridge courses are offered wherever necessary.



- Various strategies such as remedial teaching, collaborative learning, approach writing for practical, practice sessions for viva and practical. Weaker students are given time beyond class hours by their teachers, to bridge the gaps in their knowledge and improve their performance.
- Teachers put in extra efforts to help students excel at the examinations particularly at the final year.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The college organized the below mentioned activities to inculcate the spirit of gender equality, social inclusion & environmental awareness.

Gender equality:

- The college has a separate Women Cell, Grievance Redressal Cell & Anti-Sexual Harassment Cell and Anti-ragging cell to look into the welfare of female students & staff. Various programs & activities arranged were:

Activities:

- Lecture on “Methods of tackling problems faced by working women in today’s world” delivered by Mrs.Reena Sinha, Director , NIIT, Nagpur.
- A Street Play Competition on topic 1. Water conservation 2. Female Foeticide 3. Generation gap, was held in the college premises.
- Skit competition was conducted by Women Cell for students. Theme were 1. Role of women 2.FemaleFoeticide 3. Generation gap.
- A rally was organized to highlight the dangers to women security and self respect.
- Lecture on “Rani MaaGaiclinliu of Nagaland” delivered by Mrs. TesileZeliang, teacher and social worker from Nagaland.
- Social awareness programme entitled “ShaikshinikKirtan” by Mr. Vasantdada Kumbhare.
- Poster and Essay Competition was organized on theme “Awareness against sexual harassment”.

Inclusion:

- To promote overall development of students from various reserved category, economically backward class, the following activities were arranged:
- Communicative English speaking classes
- Various remedial courses for English, Mathematics, Statistics



- Interaction with Alumni & current students.

Activities:

- Guest Lecture on “Effective Communication Skills” by Mr. Dilip Kelkar was conducted on 29th August 2012.
- A workshop on “Aptitude Test, Group Discussion and Interview techniques was conducted from 11th to 15th Dec. 2012 by Prof. Sumeet Tekade, Prof. Sachin Gaikwad and Prof. Geeta Naidu.
- Guest Lecture on “Why MBA” was conducted on 10th Jan. 2013 by Prof. Divendra Bisen.
- Intercollegiate Poster Presentation on topics “Indian writing in English” was conducted on 12 February 2014 organized by English department.
- An alumni Prof. Subhashishcandra, Assistant professor, Institute of Science delivered a lecture motivating the students on various interesting and useful aspects of electronics on 26th March 2015.
- A seminar on “Facing challenges in competitive exams” was conducted by Mr. Rahul Vaidya on 7th September 2015.
- 20 students enrolled for :Free Training Program of Computer and English” organized by NCCI, Nagpur.
- A workshop on “Developing Communication Skills” was held on 20th Oct. 2015 by Ms. Sushmita Chakraborty.

Environment:

Under the banner of NSS the college arranges various environmental programs to encourage the students to be environment friendly. The students are made aware about various environmental problems in and around the college and the city and the remedies are suggested.

Activities:

- Lecture on “Domestic Waste Treatment and Management” by Dr. S. S. Ganguly, I.O.F.S.C (RTD) was organized.
- Lecture on “Wild life and Protection Act” by Prof .DilipYardi (Rtd) Env. Science Dept., Dr. Babasaheb Ambedkar,Marathwada University, Aurangabad.
- Poster competition on topic “Environment Pollution and climate change” was organized.
- PUC (Pollution under control) camp was organized on 18th Jan 2014 in the college ground by NSS Unit.
- Devbhoomi purgrast sahayata nidhi of Rs. 24105/- was raised as a financial aid to the victims of national disaster at Uttarakhand.



- A Street Play on the topic 'Water conservation' was performed.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

- On the basis of marks scored in qualifying exams and aptitude test conducted at entry level the advanced learners are identified.
- Apart from departmental unit tests, classroom tests, students activities, group discussions, PPT presentations, quiz competitions etc. are organized.
- Faculty regularly informs them about intra and intercollegiate competitions and seminars, where they participate and their abilities are tested and honored. These students also mentor the weaker students.
- Teachers challenge and motivate these students to go beyond the course work.
- Some teachers help students to prepare for entrance exams for post graduate schools, and for UPSC Examinations.
- Special financial help is provided to students for participation in various competitions.
- Exhibitions in college and visits to other institutions give students an opportunity to expand their horizons.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- The students are monitored by class teachers & mentors on the basis of academic performance, internal exam marks, classroom participation in class activities etc. re-examination, extra lectures, remedial classes, counseling is done in case of risk of dropout students.
- Economically weaker students who are good in academic performance & economically backward class students are provided with scholarship from Samajkalyan.
- In case the student wants to cancel admission, the Head of Department informs the parents to discern the exact reason. The student is counselled by the staff to continue the program.
- Some faculties contribute by paying fees of needy students.
- Earn and Learn Scheme is implemented in which students work in college and they get paid for the same.



- Slow learners are given (easier) notes and (simpler) textbooks. Students from economically weaker sections are provided with books from the department library. Also teachers from the Mentor Cell meet the students and encourage them to improve their performance.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

At the end of every academic year, the faculties plan and organize the Teaching Learning and Evaluation schedule termed as academic calendar for coming session.

Academic calendar of the Institution

- College prepares an academic calendar in accordance to the academic calendar framed by the RTMNU and implements it from the first day.
- An academic calendar encompasses the different academic activities, evaluation schedules and extracurricular activities.
- Probable dates for activities such as internal exams, industry visits, seminars, guest lectures, and study tours etc are mentioned in the planner.
- Students are aware about the academic calendar as it also referred in the college prospectus.

Teaching learning Plans

- In the beginning of the session Timetable Committee prepares the College Time Table in consultation with the faculties.
- Departmental meetings are conducted to allocate subjects and classes to respective teachers.
- Every subject teacher submits a teaching plan in the specified format that contains a brief description of the topic to be covered and the number of lectures required to cover that particular topic. It is submitted to the respective Head of the Departments.
- At the end of each semester, every teacher submits a Course Completion Certificate to his or her respective Head of the Departments.

Evaluation of students:

- Every department evaluates students internally on the basis of Attendance, Assignments, Practical, Participation in co-curricular activities along with various departmental tests.
- In addition to the above, every subject teacher gives assignments and projects to the students, takes presentations, conducts group discussions, and case study discussions to support the above evaluation pattern.



- The assessed answer sheets are shown to the students and the model solutions are shared and discussed by each subject teacher.
- Marks scored by individual student for the examination are displayed on the notice board.
- In addition to theory examinations, practical examinations are conducted at the end of every semester/academic year.

2.3.2 How does IQAC contribute to improve the teaching –learning process? IQAC contribution to improve the teaching learning process:

- The IQAC plays a significant role in the Teaching Learning Process.
- The IQAC has regular meetings in which activities relating to the academic development of the students such as regular lectures, guest lectures, seminars, workshops, co-curricular activities, and study tours are planned.
- The above information is then shared with all the HODs as well as faculty members for effective implementation.
- The IQAC also looks into the feedback obtained from the students on faculty, curriculum, infrastructure etc. and suggests suitable steps for improvement.
- IQAC plays a crucial role in motivating teachers to participate in Seminars, workshops, conferences organized by other colleges, which broadens the knowledge horizon of the teachers and helps them in keeping abreast with the recent developments in their respective subjects.
- The IQAC works in close coordination with all the committees of the college to ensure effective implementation of the activities planned.
- It motivates and insists to practice Student Centric Learning.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Teachers use Blended Learning methods to make learning an enjoyable and fruitful experience for the students in addition to regular lectures:

Support Structures:

- Computers with internet facility at every department.
- LCD, OHP and ICT facility at department level.
- AV theatre with all ICT facility.
- UGC Network Resource Center for students.



- Central Research Laboratory with instrument facility.
- Enriched Central and Departmental Libraries, access through INFLIBNET.
- Well equipped Laboratories, Computer Laboratories, Wi-Fi Connectivity in certain areas.
- College uses SMS facility for whole class or students individually.
- Teachers upload assignments, syllabus and practical work for students.
- Botanical Garden
- Museum
- Educational visits like excursions, visits to Research Institutes, Hospitals and Industries were arranged for students by various departments during last five years.
- Assignments are given, seminars, group discussions and quiz competitions are organized often to make the learning student centric.
- Some of the departments are Cloud connected classrooms. On this platform, teachers create and manage classrooms online, post assignments, study materials, notification etc. Teachers can message whole class or students individually, track individual student questions, plan teaching assignments in advance, post links, and store all these in library.
- Students can upload assignments to the teacher digitally, access teacher guides in the library, access class calendar for deadlines and other notifications. It is an initiative which (i) uses and integrates technology (ii) connects all students in a virtual classroom.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into lifelong learners and innovators?

- The institution at the time of admission collects hobbies data from the students and throughout year we conduct programmes that give students space and freedom to exhibit their talent and skills.
- College publish two special student magazine : Asmita and Pearl through which the student can express their views and explore their writing skills.
- College organizes cultural activities.
- Send the student to participate in various competitions to other colleges.
- Guest lectures on a variety of topics are organized at departmental level.
- Projects are mandatory in Environmental studies for each and every B. Sc. II students.
- Students are encouraged to develop their creativity through extra curricular activities , cultural programmes and many more.



- Intercollegiate competitions like Scientific Rangoli, Dr. shekadar memorial debate competition are organized every year.
- Various cultural programmes are organized around the year for the students to not only participate but for them to get actively involved in organizing and handling programmes such as Guru Pornima, Teachers day, Youth day, savitribai Phule divas, Samvidhan divas etc. During these programmes students are encourage to organize, compere and conduct these activities to nurture their creativity.
- Institution conducts study tours to famous museums and research laboratories.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? e. g. Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NMEICT), open educational resources, mobile education, etc. The facilities available and used by the faculty members for effective teaching are

- The best infrastructural facilities are offered to the students and accordingly, all the Laboratories in the college have provisions for LCD & Internet Connectivity.
- Teachers often use Power Point Presentations to make learning an interesting experience. This minimizes the monotony of the lecture and makes understanding simpler and an enriching experience.
- Students are also encouraged to give presentations in the class by using the latest technology.
- Library is equipped with CDs and DVDs on different topics.
- We have Wi-Fi enabled campus and E-learning Web site.
- ICT enabled teaching has become an inevitable part of our pedagogy.
- E-learning resources are provided through INFLIBNET.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

To keep abreast of recent developments the college ensures the below:

- Teachers are encouraged to participate, present and publish papers and posters in National and International academic events.
- Guest Lectures of prominent Academicians are arranged in the college.
- Each department conducts various Seminars, Workshops and Events every year as premeditated in the Academic Planner.



- Faculty members who are members of Board of studies ensure that recent developments are being incorporated in the syllabi of different subjects. Faculties those who are not members, give their suggestion to the Chairperson, Board of Studies .These suggestions are then incorporated in the syllabus.
- The college library is updated with books, journals and e-journals on latest topics.
- Teachers are encouraged to participate in Faculty Development Programs organized by the University & other colleges.
- The college publishes a magazine 'Asmita' annually in which students contribute immensely. The students get a chance to show their creativity through articles, jokes, puzzles and poems.
- Study tours are also arranged every year for students to provide them information regarding current practices going on in the industry.

2.3.7 Detail (process and the number of students \ benefited) on the academic, personal and psychosocial support and guidance services (professional counselling / mentoring / academic advice) provided to students?

- Student Counselling and Career Counselling programmes are available on the campus.
- Teachers are accessible to students whenever they have any difficulties through Mentor-Mentee Scheme.
- One to one mentoring as well as group mentoring is done as and when required by them.
- Workshops are also held on specific problems related to adolescence.
- Workshops are organized on topics like Personality Development, Study Skills, Positive Thinking & Self Confidence, Understanding the Self and Managing Learning Difficulties.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

- The faculty uses various innovative approaches to enhance the teaching learning process such as mentoring by teachers, appointing students as mentors, peer teaching/learning, collaborative learning, use of Open Educational Resources (OERs), preparation of in-house laboratory manuals, visits to other higher learning institutions, discussions and debates on current affairs, poster presentations.
- Teaching Learning process is made participative by involving advanced learners in making presentations, and accessing OERs. Use of OERs has given the students the flexibility of



learning at their own space and pace. All these innovative methods have led to enhancement of the quality.

- The faculty is encouraged to participate in faculty development programs on innovative teaching practices.
- Students perform well academically as well as in co-curricular and extra-curricular activities organized at intra/inter-collegiate levels and at national level.

2.3.9 How are library resources used to augment the teaching-learning process?

- OPAC: The Online Public Access System OPAC is a facility of the SLIM software through which students/faculties can access the availability of a specific resource in the library by browsing OPAC from any computer/laptop within the premises of the Institute. Users can browse books/magazines/CDs /DVDs and ensure if they are available in the library or issued. OPAC has made it easy to take the library on the desktop of the user and provide spontaneous service to the Users.
- The College Library is updated with E-book and E-journal facility. It also avails life membership of various magazines and journals.
- Library is well equipped with Network Resource Center (NRC).
- These services provided by library are accessible and available for each student along with faculty members.
- Library gives 'Best Reader Award' every year to teaching and non-teaching staff.
- User-friendly atmosphere is maintained in the library

Library Holding	2012-13	2013-14	2014-15	2015-16
Textbooks	16685	17225	17550	19392
Reference Books	562	631	631	753
Any other (donated)	134	285	610	--
Total No. of Books	17381	18141	18791	20145
Journals/ Periodicals	37	39	39	35



e-resources	15000	15000	15000	6000+ Inflibnet+ N-list
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2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

- Yes, the college arduously follows academic calendar given by the University. The faculty tries their level best to complete the curriculum within the University frame work.
- Due to unplanned activities or events or due to some unforeseen circumstances (e.g. Water logging due to heavy rains etc.), the teachers who are facing a problem in completing the syllabus conduct extra classes as allotted by the Head of the Departments.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The IQAC of the college monitors and evaluates the quality of the teaching learning.

The monitoring and evaluation of the quality of the teaching learning is done by the following means

- a. Students' feedback aids in understanding the teaching attributes of the faculties.
- b. All faculty members and stakeholders observe strict discipline and timeliness in order to achieve the required outcome.
- c. Biometric is mandatory for all the teaching and non-teaching staff to monitor the punctuality and commitment.
- d. Record of classroom attendance is maintained on regular basis.
- e. Grievances, if any, regarding teaching learning process are collected through the complaint box.
- f. Feedback is taken from the students In case of negative feedback the authority gives personal counselling to the concerned teachers.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum



- Recruitment of competent and qualified teachers is as per the norms of Government and the RTM, Nagpur University.
- Requirement of faculty is calculated based on workload in both terms (in the Academic Year) and accordingly, roster is finalized in association with the RTM, Nagpur University.
- Advertisement is released in the leading newspapers and eligible candidates are shortlisted and called for interview by the Selection Committee of RTM, Nagpur University.
- Eligibility criteria and the norms of reservation are strictly followed.
- Teachers are motivated to attend Refresher Courses to meet the changing requirement of curriculum.
- In addition to this, teachers attend University organized workshops whenever any major change in curriculum is introduced.
- Contributory teachers are appointed as per the requirement.
- Approval is sought for selected/appointed teachers from University and Joint Director.
- The College grants Study Leave, FIP to pursue higher studies (M.Phil/Ph.D.) and Duty leave to attend seminars/ conferences/ workshops/short term course (one week)/orientation and refresher courses.
- The staff members are motivated to do the research work by undertaking Major and Minor research projects for which laboratories and infrastructure are made available as per their requirements.

Strategies adopted by the college to retain the staff

- Our College provides an ideal working environment for its staff.
- Teachers are allotted subjects as per their area of specialization and preference.
- Teachers are encouraged to write and publish articles, books as well as research papers.
- Conducive environment is provided to them in the form of infrastructure and facilities like duty leave, study leave etc.
- The College also organizes various seminars, developmental activities, study tours for teachers. This encourages the teachers to pursue an enriching career in academics.
- Teachers who have superannuated are recommended for extension as per the provisions of the UGC/State Government. In the last 5 years 5 teachers have got extension beyond the age of 60 years.

Highest Qualification	Professor	Associate Professor	Assistant Professor	Total
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	Male	Female	Male	Female	Male	Female	
Permanent Teacher							
D.Sc/D.Litt.	-	-	-	-	-	-	-
Ph.D.	-	-	6	5	3	2	16
M.Phil.	-	-	-	1	-	-	01
PG	-	-	-	1	-	-	01
Temporary Teachers							
D.Sc/D.Litt.	-	--	-	-	-	-	-
Ph.D.	-	-	-	-	04	09	13
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	18	49	67

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

- In order to cope with growing demand and scarcity of senior teachers the institution gave extension benefits to many of our teachers. However, the institution has suffered a lot of inconvenience on account of the complicated roster sanction systems and recruitment policies.
- The institution has two career oriented courses: Bioinformatics and Mushroom cultivation. Students are finding the programme interesting.
- College deputed teachers for UGC sponsored refresher courses to upgrade their knowledge. Workshop on concern topics, Industrial visits, Excursions are regularly organized to enhance their knowledge and technical skills.
- College also incorporates holistic approach by organizing various programmes on spirituality and Yoga.



2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a)

Nomination to staff development Programme:

The college always encourages and deputed the staff members for Refresher Courses, Orientation Courses, Training programmes and Workshops. The opportunities are given as per the need.

Academic staff development program	Number of faculty nominated
Refresher course	05
HRD Programmes	Nil
Orientation program	02
Staff training conducted by the college	Nil
Staff training conducted by university/other college	20
Summer/Winter schools, workshops, etc.	49

b)

- *Teaching learning methods/approaches*
- *Handling of new curriculum*
- *Contents/Knowledge Management*
- *Selection, development and use of enrichment materials*
- *Assessment*
- *Cross Cutting Issues*
- *Audio Visual aids/ multimedia*
- *OER's*
- *Teaching-learning material development, selection and use*

The college organizes various workshops and training programmes to empower and enable faculty to use technology, innovative methods, to create and manage e-content, handling new curriculum and assessment.



- **Handling new curriculum:** The College deputed teachers for syllabus restructuring workshops organized by RTM Nagpur University where they actively participate in it. It has taken an initiative in organizing B. Sc (Electronics, chemistry, microbiology) syllabus restructuring workshop several times.

Workshops, seminar, training program, etc organized during last 5 years:

- University level workshop on “Semester pattern curriculum design and development for UG courses” organized by Microbiology Department.
 - NAAC Sponsored National Workshop on “An insight into new strategies and policies of NAAC into higher education”
 - One day workshop for Electronics teachers of RTMNU was organized to crystallize and finalize the semester pattern syllabus of B.Sc. in Electronics subject.
 - One week certificate course in Ms-Word and Ms-Excel(2007) for non teaching staff organized by Computer Department.
 - University Level Teacher’s Workshop on” Discussion on restructuring of U. G. Syllabus” organized by Chemistry Department.
 - One day workshop on “ Biofertilizer Production Technology” organized by Microbiology Department.
-
- **Content/knowledge management:** We have active members from our College who are members of Board of studies in RTM Nagpur University in various subjects who are actively involved in restructuring the syllabus.
 - **Selection, development and use of enrichment materials:** Many faculty members have written text books in various subjects according to syllabus prescribed by RTM Nagpur University. They have also presented research Papers in Seminars/Conferences/Workshops and published in National and International reputed journals and monographs.
 - **Assessment:** Teachers submit their Self- Appraisal Forms to the respective Heads of the Departments annually.
 - **Cross cutting issues:** The students of B. Sc and B. Sc(H.Sc) have a compulsory course on Environment Studies in Second year. For the girl students and female staff a self-defense program was organized.
 - **Audio Visual Aids/multimedia:** Blended Learning and E-learning platforms are utilized to scaffold the teaching – learning techniques.



- **OER's:** Teachers give references for study. The College provides free downloading services to students for those references.
- **Teaching learning material development, selection and use:** The teachers recommend latest books, references and journals pertaining to their area of specialization to enhance the quality of teaching learning.

c) (i) **Percentage of faculty invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies:**

(ii) **Percentage of Faculty attended and participation in paper presentation in external workshops / seminars /conferences recognized by national / international professional bodies.**

Sr.No	Session	% of staff attended conferences/Seminars/ Workshops	% of staff presented Papers in conferences	No.of staff invited as Resource person
1	2012-13	100%	38%	02
2	2013-14	100%	27%	03
3	2014-15	100%	44%	01
4	2015-16	100%	52%	02

2.4.4 What policies/systems are in place to recharge teachers? (e.g. providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

The college management has in place several policies that continually engage teachers in recharging themselves. These are as under:

- The teachers are encouraged to develop their professional competence. The teachers who request for study leave/ deputation/ training programs/ refresher course etc. are granted permission to attend the same.
- The faculties are encouraged to prepare and submit Minor and Major Research projects/ Proposals to various funding agencies. They are also encouraged to take up inter-disciplinary projects or collaborative research work. In the last 5 years,
Ongoing Minor/Major research projects: Nil



Projects Completed: 09

Projects applied: 05

- Teachers get duty leave for their participation in conferences, seminars, symposia and other academic activities organized by other institutions. In view of this, faculty members have availed the facilities provided by the college.

2.4.5 Give the number of faculty, who received awards / recognition at the state, National and International level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

- Although none of the faculty members have received awards/recognition at the State, National and International level for excellence in teaching during the last four years, but one of our faculty **Dr. Narendra L. Khobragade, Head, Deptt. Of Mathematics** was awarded with “Best Teacher Award by RTM, Nagpur university during academic session 2014-15.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching learning process?

- College regularly conducts evaluation of teachers by the students and external peers. The feedback received from them has been helpful in this regard.
- The teachers are also required to fill up a self-appraisal report at the end of the year, which is submitted through the Head of the Department and is assessed by the Head of the Institution at the end of the academic session.
- Teachers’ progress in his/her career is also monitored by the respective Heads of the Department, who also act as internal peers.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The institution ensures the awareness of the evaluation processes to the students and faculty through:

1. College Prospectus
2. College Website



3. Through induction program
4. The college office regularly displays circulars regarding the details of verification and revaluation for University examination.
5. The students of Third Year who have passed out but have a backlog in any of the subjects are regularly informed about the evaluation dates by the phone call.
6. The academic performance of the students in internal examinations is monitored by discussing their queries related to the respective subject.
7. Provision of re-examinations is given for genuine absentees in internal paper.
8. The faculty members are made aware of the recent updates of the evaluation process through workshops .
9. The faculty members attend BOS meetings where syllabus contents and evaluation system are discussed. However the marks for each unit /modules are decided by RTMNU, Nagpur.
10. The evaluation pattern of the college is discussed by the Head of the institution, which is included in the Principal's Address.
11. In addition to this , faculties also inform the students about examinations to be conducted throughout the session and ensure its accountability.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

- The college implements the evaluation reforms initiated by the RTMNU.
- Examination is conducted by the college in accordance with the rules of RTMNU.
- Unit tests, seminars, remedial classes are conducted at the departmental level to evaluate the students' scholastic performance.
- Revision of subject is carried out by giving assignments to the students from time to time.
- Students Life skills are evaluated by their participation in extracurricular activities
- For Assessment of the internal marks, Faculty uses several methods like Quizzes, MCQ's, Projects, Presentations, problem solving, open book test and so on.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- Being affiliated to RTMNU, the institute strictly follows the University norms and guidelines for conducting semester examinations.
- The College Examination supervisor ensures the smooth conduct of the examinations in the institution.



- The University Flying squad teams visit the College and scrutinize the examination centre.
- The internal marks of the students are displayed on the notice board and internal papers are also shown to students and are discussed with students.
- The institution also uses SMS alerts to inform students of critical dates and deadlines whenever necessary.

2.5.4 Provide details on the formative and summative evaluation approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.

- Formative Evaluation is done by
 - a. Monitoring students' behavior.
 - b. Revision lecture after completion of each chapter
 - c. Conduction of class tests
 - d. Performance of student's in-group discussions
 - e. Question paper solving
 - f. Revision in form of assignments
 - g. Participation of students in departmental activities.

- Summative evaluation is carried out in two ways-

Internal and External Examination

The Department conducts Internal Test for each subject at the end of each semester. As far as External evaluation is concerned, the RTMNU conducts examination at the end of each semester. Combination of Formative evaluation with the summative evaluation of our college gives a positive impact on students' learning and helps to improve their overall personality.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightage assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

The significant improvements made to ensure rigor and transparency in the internal assessments are:

- The performance of the students in the classroom (like participation of the student in GD, Que-Ans, Presentations).
- Participation of the student in the curricular and co-curricular activities.
- Social commitments towards college and society through NSS Activities.



- Communication skills can be judged on the basis of viva –voce during practical exams, seminar presentations and interactive sessions in the class.
- Students' academic, social and psychological indicators are monitored through these performances and are taken into consideration for internal evaluation.

2.5.6 What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students.

- We have high aspiration for our graduates, and in the pursuit of our academic mission, we constantly endeavor to provide them employability skills, life skills, and nurture attitudes and dispositions through curricular and co-curricular activities.
- The three essential dimensions of our college graduates, are personal growth, which will make them specialists in their chosen discipline, effective communicators, and independent individuals, with ability to apply discipline, specific knowledge in solving problems in different contexts.
- Enquiry & Life-long learning which includes intellectual curiosity, critical thinking abilities, scientific temper, ability to create, understand and analyse knowledge.
- Global outlook and Community Engagement which equips them with the ability to work in any context, cutting across cultural or regional boundaries, ethically evaluate one's work in a global context, and to be aware of sustainability issues.
- Our students are expected to be graduates who are self-reliant, specialists in their chosen discipline, continuous learners, effective communicators, respectful of different cultures, socially responsible, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, and environmentally conscious. In this regard the students are given ample opportunities to develop and nurture these qualities through participation in the activities of co-curricular, NSS, Anti-Sexual Harassment Cell, Extension Activity Cell, Anti-Ragging committee.
- They also participate in governance through their representation on the Student Council.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

- The teachers are sensitized regarding the responsibility with respect of internal assessment. So there is less scope of complaint. Grievances if any, are handled at the level of the HODs and the Principal.



- The University has made provision for revaluation for which students need to apply by paying necessary fees. The University also supplies photo copy of the answer sheet and the students can apply for revaluation which is done by appointing special examiners, at University level.

2.6 Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

The learning outcomes are clearly stated in the college Vision and Mission they are:

1. College should be a front runner in field of education.
2. To create visionary professionals and entrepreneurs by providing skill development programmes.
3. To develop innovative ideas and leadership skills among students by organizing student centric activities for example: programmes organized by Student Council of the College.
4. To integrate Teaching and learning process in an effective way through the implementation of traditional as well as innovative teaching techniques.
5. To inculcate social and moral values among the students through their involvement in social activities undertaken by NSS and NCC.
6. To develop outstanding educators and research scholars by giving them opportunities in research.

Awareness of learning Outcomes is done through:

1. Principal addresses B. Sc. I year students through induction program:

Fresher students of B. Sc. I year on the arrival are welcomed and informed about the course, its prospectus, rules and regulations of the institute and learning objectives of the course.

2. Alumni meets/Interactions:

Successful Alumni are invited formally and informally to share their experiences with the current students. The students are motivated through these interactions and are encouraged to follow their seniors.

3. One to one Counselling/ Mentoring:

HODs and Class Teachers conduct counselling sessions to understand the problems of the students and guide them to follow the right path and achieve personal and professional goals.

4. Career Development Programme :

Training, Placement, and Career Guidance Cell of the college plays an important role in designing and executing Career Development programs. Eminent speakers from varied sectors are invited to share their knowledge and experiences.



5. Prospectus :

It states Vision and Mission statements of the Institute. It provide guidelines regarding admission procedure, Course Contents , details of Teaching faculties and other amenities such as canteen , medical health check-up, library, Network Centre and evaluation patterns which clearly brings out learning outcomes.

6. Slogan of College

“Educate, Innovate and Empower

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/ achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Pass percentage of students for last five years is given below

Sr.No	Course	Semester	2012-13	2013-14	2014-15	2015-16
1	B. Sc.	V	*	*	*	56.62
		VI	50	65.2	43.71	78.67
2	B. Sc. (H. Sc.)	V	*	*	*	*
		VI	100	75	42.86	52.9

* Annual Pattern

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

- College maintains the track record of progress & performance of each student, which is communicated from time to time to the students by emails and notices on notice boards.
- Each department monitors students' progress after tests/projects etc at regular intervals. The mechanism of informal communication and feedback available from the assignments/class tests is communicated to individual students in the classroom.
- Departments conduct PTA meetings to share the analysis with parents especially in cases where the student is falling short of the expected standards or potential.



2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (quality Jobs, entrepreneurship, innovation and research aptitude) of the Courses offered?

- Subject toppers are awarded with Endowment and Incentive prizes sponsored by college, donors and staff members.
- For overall development of the students different strategies are structured by LMC, IQAC in such a way that it should cater to the need of slow and advanced learners.
- For overall development of a student following basic expected learning outcomes are seen 1. Knowledge and understanding 2. Intellectual skills 3. Practical skills 4. Social responsiveness and 5. Communication skills.
- Strategies like remedial teaching, tutorials, mentoring and bridge courses are aimed as inclusive teaching practices.
- Social awareness is one of the learning objective of our mission and hence college is always on front foot to conduct social awareness programs like ,
 - a) Rallies based on various themes.
 - b) Tree plantation
 - c) Donation to Bal Sadan
 - d) Food Supply to Prerna Bal Sadan, an Orphanage of Mentally challenged and HIV patients.
 - e) Clothes donation to Goonj.
 - f) Blood donation
 - g) Organization of National events like Independence Day, Republic Day, Savitribai Phule Jayanti, Samvidhan divas, Youth day, Dr. Babasaheb Ambedkar Jayanti, Guru Purnima etc.

Assessment

1. Unit Test (After completion of every chapter)/ Class Test (At the end every month)
2. In-house Competitions (like academic presentation competition)
3. Intercollegiate Competitions
4. Remedial classes (arranged for slow learners)
5. Feedback

2.6.5 How does the institution collect and analyze data on student learning outcomes and use it for planning and overcoming barriers of learning?



- The result is obtained from RTMNU gazette by the respective departments .
- Faculty takes tests/assignments/presentations and class discussions to analyze student performance.
- Feedback by the students on teaching process is incurred and changes are made accordingly.
- Remedial and Tutorials are conducted for weaker students.
- Students with diverse needs are also taken care of by the mentors.
- Comparison of college results with overall results of the university proves a good indicator of students' academic growth.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes.

- Placement cell of the college arranges campus placements and interviews
- Consultancy services are provided by some of the departments.
- Creativity in students is monitored during the activities conducted under ED cell. The activities of the Cell gives them the drive to convert their creative potential into successful ventures.
- The institution encourages student/teachers research skills. The research work is presented at National, International and University level research competitions/forums (Avishkaar).
- NSS, NCC, Anti-Sexual Harassment Cell help to develop the skills for community engagement.

2.6.7 Does the institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

- Yes, assessment is used as an indicator for evaluating students' performance.
- Student with highest marks in IInd year of graduation is nominated as secretary of the student's council of the college and all other who have good academic performance , leadership qualities and interest towards co-curricular activities as per the rules and regulations laid down by RTM, NU are nominated as office bearers of Students' Council.
- Remedial teaching or extra classes are conducted by the departments whenever required.

Participation of students in student's council for last two year.

Session	College Representative	Student Members					
		Academic	NSS	NCC	Sports	Cultural Activity	Ladies Representatives
2014-15	Mr. Chanchalesh Savai	Ms. Shubhangi Sonwane Ms. Ragini Jaiswal Mr. Akash Shukla Ms. Avanti Chaphale	Ms. Sneha Padghan	Mr. Madhav Jha	Mr. Rohit Tiwari	Mr. Rushal Patil	Ms. Kanchan Nerkar Ms. Amrin Siddhiqui



		Ms. Shivani Deo Ms. Payal Chakunde					
2015-16	Ms. Sneha Padghan	Ms. Vaishnavi Saraf Mr. Mrunal Wagh Mr. Rohit patel Ms. Shivani Deo Ms. Payal Chakunde Ms. Madhura Temurnikar	Ms. Kiran Bondre Ms. Gayatri Pathak Ms. Kruttika Rao	Mr. Pradeep Dwivedi Ms. Diksha Mohurle	Mr. Ajay Singh Mr. Vikas Sharma	Mr. Tejshree Dhavle Ms. Rakshanda Bhingare Ms. Kanchan Deshmukh Ms. Kruttika Rao	Ms. Kalyani Lande Ms. Kalyani Pande
2016-17	Mr. Mrunal Wagh	Ms. Mayuri Binniwale Mr. Rohit Patel Ms. Madhura Temurnikar	Ms. Neha Hedao Ms. Sapna Pathade Ms. Diksha Selar	Mr. Pradeep Dwivedi Ms. Diksha Mohurle Ms. Shrushti Doye	Mr. Ajay Singh Mr. Roshan Rohikar	Ms. Pranjali Mahajan Ms. Kruttika Rao Prajakta Puranik Ms. Shruti Baiwar	Ms. Kajal Sahare Ms. Shreya Harankhedkar

2.6.7. Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include?

1. Participation of the faculty members to conduct University examinations as a members/ chairmen of flying squad paper setters, moderator, examiner, LEC members , Placement committee Members for CAS.
2. The faculty members of our college also work as paper setter, moderator and examiner in RTMNU and other Universities.
3. The college shows active participation to conduct parliamentary Election 2014 and MNC elections 2017.
5. The faculty members of college also worked as external referee for evaluation of Ph.D. thesis and M.Phil. Dissertations.
6. The faculty members of our college evaluate and assess Debate competition organized by different institutions and colleges.
7. The faculty members of this college also worked as subject experts in selection committee constituted by University for selection of Assistant Professors.
8. The faculty members of this college also worked as examiner for evaluating posters/oral presentation in National / International conferences organized by various institutions.
9. Teachers are periodically upgrading their subject knowledge as per the need and changes in the curriculum.
10. Monitoring the student's progress is an integral part of the function of the college.



CRITERION III : RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research centre/s of the affiliating University or any other agency/organization?

The Institution has applied for research centre in the faculty of science to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and is making necessary infrastructure and ancillary arrangement for the same in the laboratories of the departments.

The institution has signed MOUs with many industries and research institutions to facilitate the research promotion. The list of MOU partners are given below:

- Pathak Ayurvedic Pharmacy
- Rajiv Gandhi Biotechnology Centre, RTM, Nagpur University.
- Shree Baidyanath Ayurved Bhavan Pvt. Ltd.
- Nisha Herbal Pvt. Ltd.
- Manas Ayurved
- Grace Herbals
- SMS ENVOCARE LTD.
- Sun Enviro Pvt. Ltd.
- Enviro Techno Consultant Pvt. Ltd.
- Purti Power and Sugar Ltd.
- Purti Alternative Fuel Pvt. Ltd.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the college has research advisory committee to monitor and address the issues of research.

The composition of the committee is as follows:

Chairperson : Dr. A. V. Peshwe (Principal)

Member : Dr. N. L. Khobragade (HOD Mathematics)

Member : Dr. Mrs. S. K. Ubale (HOD Physics)

Member : Dr. Mrs. A. S. Kulkarni (HOD Microbiology)

Member : Dr. R. B. Lanjewar (HOD Chemistry)

Member : Dr. P. T. Humane (HOD Botany)

The activities undertaken are:

- Creating awareness about various funding agencies
- Encouraging faculty to participate in research activities



- Updating the records of publications and awards

The recommendations made by the research advisory committee are:

- ❖ Setting up of a central research laboratory with basic & advanced facilities for most of the subjects in the institution.
- ❖ To organize seminars, workshops for teaching faculties to showcase their research work.
- ❖ To encourage the students to embrace research activities.
- ❖ To find out the thrust areas of research, to identify the funding agencies for the successful implementation of the research projects into reality.
- ❖ To purchase statistical Software like SPS, SPSS, Adobe Acrobat, etc. and to tie-up with online databases like British Council library, pub-med, etc.
- ❖ To grant study leave to carry out research work.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes / projects?

§ Autonomy to the principal investigator

Yes, the autonomy is given to principal investigators (PIs) right from the selection of the research area to the completion of the project. Institution provides all the necessary facilities like laboratory, purchasing, administration to the PIs. The sanctioned amount of the projects is transferred to the account of PI for easy access of funds during the conduction of minor research project, while in case of major research projects the guidelines of sanctioning authorities were followed. This type of arrangements by the institution helps the PIs in completion of the projects within stipulated time.

§ Timely availability or release of resources

Yes, timely availability of resources was ensured. Once the sanctioning authority approved the project it was ensured that the recurring and non-recurring resources were provided to complete the projects as per the norms of the institution and funding agencies.

§ Adequate infrastructure and human resources

Yes, the adequate infrastructure and human resources are made available for research. The laboratory and other related facilities were provided as and when need arose to the principal investigator. The manpower like administrative and technical support was provided for the smooth conduction of the projects. Adequate facilities were provided in the central research laboratory for research.

§ Time-off, reduced teaching load, special leave etc. to teachers

Yes, the teachers are permitted to have time-off and reduced teaching load in accordance with the UGC regulations. Special leave is granted to the teachers pursuing research work.



The teachers are relieved to attend seminars, workshops and conferences, etc.

§ Support in terms of technology and information needs

The support in terms of technology and information needs is generally available to the teachers in the institution. Additional needs are also fulfilled if and when required. Every department is well equipped with computer, internet, scanner, printer, etc. and additional staff is also provided on request. The college library and departmental libraries are the sites for access of information including e-journals subscribed by the library of the college. The college is registered for INFLIBNET.

§ Facilitate timely auditing and submission of utilization certificate to the funding authorities

The accounts staff of the college assists the project co-ordinators regarding the systematic maintenance of the project account and audit procedures. This has facilitated timely audit of the project account and submission of the utilization certificate to the funding agencies.

§ Any other

The research committee of the college and IQAC always try to streamline the research procedures. The principal and management are extremely supportive and encourage research projects and skill development of the staff of the institution. The teachers are felicitated once they are M.Phil. / Ph.D. degree and on publication of research papers / articles in the journals, book publication, awards if any.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The research committee of the institution organizes various seminars, workshops and various competitions for the students in developing scientific temper, research culture and aptitude among students. Every year, the batches are distributed among the teachers and respective teachers allot the EVS projects to each student to create interest and awareness about the environment and related research. The department of statistics conducts statistical data collection and its analysis with the help of students on varied topics. The microbiology department organizes scientific *rangoli* to provide the platform for innovative ideas of the students in research. The department of botany gives projects on ethnobotany and in addition also organises various field visits. Other departments too organize various visits to create interest among students.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.



a. Guiding student research

Session	Guiding student research			
	Registered	Working	Submitted/awarded	Total
2012-13	10	-	-	10
2013-14	02	10	-	12
2014-15	-	12	-	12
2015-16	03	09	06	18
2016-17	-	15	01	16

b. Research projects:

Session	Major Research Project		
	Sanctioned	Ongoing	Submitted
2012-13	-	-	-
2013-14	01	-	-
2014-15	-	01	-
2015-16	-	01	-
2016-17	-	-	01
Session	Minor Research Project		
	Sanctioned	Ongoing	Submitted
2012-13	-	03	03
2013-14	01	01	02
2014-15	-	02	01
2015-16	-	02	-
2016-17	-	-	02

(Annexure: 3.1.5)

3.1.6 Give details of workshops/ training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Session	workshops/ Seminars / Conferences / training programmes/sensitization programmes conducted/organized				
	International	National	State	Others	Total
2012-13	-	01	-	-	01
2013-14	-	-	-	-	Nil
2014-15	-	01	-	-	01
2015-16	-	-	-	-	Nil



2016-17	-	-	-	-	Nil
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3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

Most of the faculties of the institution are actively engaged in the research activities and many of them are guiding the Ph.D. students. The expertise available with the institution and their prioritized research areas are given below:



Sr. No.	Name of the faculties	Research Recognition No.	Prioritized areas of the research
1.	Dr. A. V. Peshwe	Ph.D .(Cell)/RRC/Guide/1134, B/6833 Dated: 24/11/2010	Literature & Educational psychology
2.	Dr. N. L. Khobragade	Ph.D .(Cell)/RRC/Guide/925 Dated: 04/11/2012	Boundary value problem
3.	Dr. Mrs. A. S. Kulkarni	Ac/Recog/Guied/Sci/1825/B/2532 Dated:04/01/2003	Applied and medical microbiology
4.	Dr. R. B. Lanjewar	Acad/Recog/Guide/Sci/1777	Nuclear Chemistry, Mossbauer Spectroscopy, Radiochemistry, Neutron Activation Analysis
5.	Dr. Mrs S. K. Ubale	Acad/Recog/Guide/Sci/1713 B/2245 Dated:8 th Dec 2004	Solid state Semiconducting Glasses
6.	Dr. K.S. Moon	Ph.D.(Cell) /RRC/Guide/phy/4186/0/355 Dated:4 th Dec 2006	Solid state
7.	Dr. D.B. Jadhao	Ph.D.(Cell) /RRC/Guide/Sci/79/B/444 Dated:9 th Jan 2008	Organic Chemistry
8.	Dr. M. J. Dhongade	Ph.D.(Cell) /RRC/Guide/Sci/860/B/277 Dated 12 th July 2010	Mammalian Reproductive Physiology
9.	Dr. P. T. Humane	Ph.D. (Cell) RRC/1975 Dated: 12/ 12/2014	Angiosperm Taxonomy, Ethnobotany, Phytochemistry
11.	Dr. P. W. Ambekar		Material science
12.	Dr. Mrs. V. P. Meshram	Ph.D. (Cell)/Research/ science/ 84/B/ 449	Synthesis and characterization



		Dated: 09/01/2008	of coordination polymers, chelate polymers & nano-materials
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3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The institute is actively involved in inviting eminent personalities from the field of research to interact with the students and teachers as well as to associate with the institution. Some the efforts taken to attract the researchers of eminence to visit the campus are given below:

- The institution has organized a National workshop on 'New strategies and policies of NAAC in higher education in 2012-13.
- One week workshop was organized for the researchers and teachers on 'Emerging Trends in Research Methodology in 2014-15. In this workshop many eminent personalities from all over the country were invited to share their views on different aspects related to research in science.
- In addition to these eminent scientists were invited like Dr. Tapan Chakravarti, Ex-Director, NEERI, Dr. Hemant Purohit, Deputy Director, NEERI and In-charge Biotechnology Laboratory, Dr. Sanjay Dhobale, Associate Professor, PGTD Physics, RTM Nagpur University and Dr. Kishor Rewatkar, Associate Professor of Physics, Dr. Ambedkar College, Nagpur, Dr. M. Y. Apte, Ex-HOD Physics, SFS College, Nagpur, Dr. Kamal Singh, Ex-VC, SGBAU, Amravati, Dr. C. D. Mayee, Ex-Director CICR, Dr. Rita Israni, Sr. Scientist, AGMARK Laboratories, Dr. Manoj Bhandarkar, Deputy Director, Central Forensic Laboratory, Dr. Atul Kulkarni, Senior Scientist, Rutgers Research Institute, New Jersey, USA, Dr. A. M. Deshmukh, HOD Microbiology, Dr. Babasaheb Ambedkar Marathwada Uni. Aurangabad, Dr. Alka Chaturvedi, Prof. & Head, PGTD Botany, RTM Nagpur Uni., Dr. Arti Saoji, Ex-Director, Institute of Science, Nagpur, etc. to share their views and ideas on research.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Dr. Mrs. Varsha V. Rangari, Head, Department of Electronics has availed the sabbatical leave for the doctoral research at Department of Physics, RTM Nagpur University, Nagpur for a period of two year. The institution consistently encourages the staff to contribute in research. Most of the staff members of the institution are doctorate and are actively involved in research activities. The institution is also trying to enhance the



facilities in the laboratory to cater to the need of research.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

The institution organizes various awareness programs for the students and society to transfer the relative findings of the research of the institution. Conference proceedings and college magazines are kept in the departmental library for free access to everyone including students. Project reports are kept in the departmental library. Faculty members are encouraged to publish their findings in reputed journals.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research?

There is a provision for the departments in the annual budget of the institution, which is used in purchase of books, journals, need based chemicals, classwork materials, equipments, instrument, etc. as well as the amount is also used for the maintenance of high-end instruments and equipments. There is no specific budget provision for research in the institution budget but the amount sanctioned by the UGC as well as other funding agencies is used in the research activities. Majority of the research need is fulfilled by the institute through the funds availed from various funding agencies like UGC, DST, etc.

Give details of major heads of expenditure, financial allocation and actual utilization.

Session	Books / Journals	Equipments / Instruments	Chemicals/ laboratory expenditure	Others
2012-13	72944/-	16965/-	99464/-	99876/-
2013-14	18685/-	17500/-	205492/-	127228/-
2014-15	32869/-	32881/-	145740/-	137928/-
2015-16	65642/-	36038/-	294681/-	106362/-
2016-17	114707/-	45631/-	156401/-	126988/-

Table: 3.2.1 (a) Budget (in Rs.) for General Granted Courses

Session	Books / Journals	Equipments / Instruments	Software / computers	Current Lab. Exp.	Others
2012-13	Nil	51035/-	145189/-	13060/-	71246/-
2013-14	5142/-	8700/-	286000/-	12717/-	61076/-
2014-15	5580/-	11150/-	Nil/-	5310/-	93906/-



2015-16	4293/-	135430/-	59550/-	5410/-	68315/-
2016-17	945/-	732394/-	370450/-	3518/-	158711/-

Table: 3.2.1(b) Budget (in Rs.) for Computer Science (No grant base)

Note: *The budget for the session 2016-17 is given till the end of February, 2017*

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

Although there is no provision in the institution to provide seed money to the teachers for research, but the management provides infrastructure for research as well as other related assistance like instruments, equipment, books, journals, etc. The research committee of the institution also encourages the staff for applying to avail the research grants and also help in writing and submitting the research proposals.

But the management and principal has taken initiative in making necessary budgetary provisions from next year onwards.

3.2.3 What are the financial provisions made available to support student research projects by students?

As the institution is running UG courses, there is no separate arrangement for student research projects, but the students are encouraged to take part in the research by providing them small research topics in environmental science. This activity motivates the students and prepares them for research work.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research?

Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

Various departments of the college undertaking interdisciplinary research share various facilities like instruments, infrastructure from various departments like: department of:

- Botany, Microbiology and Chemistry
- Department of Electronics and Computer Science
- Department of Chemistry and Physics
- Department of Zoology and Botany
- Department of Statistics

Some faculty members carry out interdisciplinary research in collaboration with faculty members of other colleges having different subjects to meet the challenges.

However, research advisory committee recommends central research laboratory to enhance interdisciplinary research and optimum utilization of its infrastructure and instruments.



To promote the research activity this year, the college in collaboration with RTM Nagpur University guided the students for AVISHKAR 2016, pre-training program. Many of our college faculties were subject mentors in guiding the students.

It is noteworthy to mention that two of the students who were guided by our faculty members, won first and second prize for showcasing their research work.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The institution has a well-stocked library, which has a tie ups with other leading libraries, helping in dissemination of knowledge. The library stores the most recent books, reference volumes, periodicals, journals and e-resources. The institution provides free access to internet facility in the library for the students and staff of the college. There is free access of the various instruments /equipments available in the central research laboratory to all the departments. The computer lab of the institution is also accessible to all staff of the college as well as the students.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

The institution is taking necessary efforts to receive the special grants or finances from the industries or other beneficiary agencies for developing research facilities but as of today no such grants has been availed.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

Nature of the Project	Duration Year From To	Title of the project	Name of the funding agency	Total Grant		Total grant received till date
				Sanctioned	Received	
Major projects	2013 to 2016	-	SERB, DST	6.0L	5.5L	5.5L
Minor projects	2011-12 to 2012-13	-	UGC	10.02L	9.965L	9.965L

Annexure-3.1.5

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?



The institution is running UG courses but provides all possible assistance to the students and teacher within the campus for research work.

- The institution has well-stocked library and collaboration with other libraries as a source of knowledge (INFLIBNET, e-journals and books, subscription of national and international journals).
- Well equipped laboratories with the departments
- Separate central research laboratory
- Wi-fi and Internet facility
- Departments with ICT facility
- Video conferencing facility
- Twelve faculty members are recognized PhD supervisors

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- Research Advisory Committee (RAC) of the college from time to time inform the stakeholders about various funding agencies, their schemes and criterias to all.
- RAC looks into the routine affairs like application to the PhD cell of RTM Nagpur University, submission of research proposals, etc.
- RAC motivates to participate in conferences, workshops, guest lectures, etc
- Grants received from various funding agencies are judiciously utilized for the purchase of laboratory instruments which helps in enriching the laboratories.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.

In last four years no such grant has been received by the institution as a special grant or finances to develop research facilities. However, the grants of major and minor research projects are used for developing research facilities.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

Many of the institutes like Ambedkar College, Deekshabhoomi, Nagpur; LAD College, Shankar Nagar, Nagpur, VNIT, Nagpur in the city provides their facilities to the institution. Some CSIR research institutes like Citrus, Cotton Research Centre, NEERI, ICAR, NBSS and university PG departments also provides research assistance to the institution as and when required.

3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers?



- The library is well-stocked with many reference books, journals, e-journals, databases, internet facility, facility of INFLIBNET, etc.
- Heads of the various Departments and the Faculty members are asked to recommend books, references, journals, periodicals, other books of varied interest.
- There is a purchase committee headed by the librarian and senior teachers who decide on the purchase of different books titles.
- Wi-fi and broadband facilities are available 24x7.
- Video conferencing facility,
- OPAC, reprographic facility, computer, printer, scanners and ICT facility.
- A total of 19 journals are subscribed by various departments.

Library holdings	2012-13		2013-14		2014-15		2015-16	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	484	173908	705	176559	650	62529	362	27557
Reference	603	-	603	-	603	-	603	-
Journals /	19	-	19	-	19	-	19	-
e-resources	N-List	5000	N-List	5000	N-List	5000	N-List	5000
Any other (Magazines)	16	-	16	-	16	-	16	-

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The department of microbiology is having collaboration with Rajiv Gandhi Biotechnology Centre, RTM Nagpur University, Nagpur, for carrying out interdisciplinary research. The department of physics has collaboration with PGTD of Physics, RTM Nagpur University, Nagpur, for exchange of research.

Wi-fi, video conferencing, ICT facilities, are added facilities to support research activities.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

* Patents obtained and filed (process and product)

Dr. P. W. Ambekar of Physics department filed a patent for Mixed potential electrochemical CO₂ gas sensor (Application No. 763/Mum./2012; date of publication 25th May, 2012). Also the institution encourages the staff to file the patents, if any in, the



research projects.

*** Original research contributing to product improvement: Nil**

*** Research studies or surveys benefiting the community or improving the services**

Dr. P. T. Humane, worked on floristic studies in Bhandara district which is made available to the forest department for further planning and assistance.

Dr. Mrs. S. K. Ubale, carried out survey of Electromagnetic radiation assessment of Dharampeth M. P. Deo Memorial Science College Nagpur.

*** Research inputs contributing to new initiatives and social development**

Dr. P. T. Humane, worked on a major research project, i.e. on “*Study of the Phytoremediation Activity of Some Wild Plant species and the effects of phytoremediation on taxonomically important characteristics*”. Many tests of the research found introduction of heavy metals in food chain. The report of the project will definitely help in near future to the policy makers.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

The institute published a book on ‘Quality Assurance in Higher Education: Issues and concerns’ ISBN No. 978-93-80287-80-5. The editorial board comprises Dr. A. M. Bhate, Dr. Mrs. V. S. Katkar, Dr. Mrs. A. S. Kulkarni and Mrs. S. A. Deshpande.

3.4.3 Give details of publications by the faculty and students:

*** Publication per faculty**

Sr. No.	Year / Session	No. of Research Papers Published
1.	2012-13	31
2.	2013-14	24
3.	2014-15	19
4.	2015-16	18
5.	2016-17	12

*** Number of papers published by faculty and students in peer reviewed journals (national / international)**

There were 104 research publications in national and international peer reviewed journals



for the last five years (2012-2017) (*Annexure: 3.4.3a*)

* *Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)* :

Nil

* *Monographs* : Nil

* *Chapter in Books* : There were 4 books published with chapters in the book written by faculties of the institutions.

* *Books Edited* : There were 17 books published by the faculties of the institution which includes text books as well as reference books.

* *Books with ISBN/ISSN numbers with details of publishers* :
There were 21 books with ISBN number published by the faculties of the college.

Research paper publications per faculty in peer reviewed journals from 2012 onwards are listed in Scopus /Google scholars having citation index, SNIP, SJR, Impact factor, h-index.
(*Annexure-3.4.3b*)

3.4.4 *Provide details (if any) of*

* *Research awards received by the faculty:*

Dr. Mrs. A. S. Kulkarni:

- Received best poster presentation award in International Conference organized by IInd World Congress for Man & Nature 2012 November 03,04,05, 2012 on Global Change Impact on Biodiversity, Culture & Technology in association with Sevadal Mahila Mahavidyalaya, Nagpur.
- Received IIIrd prize for poster presentation in the UGC Sponsored National Conference on Pharmacogenomics: Revolutionizing Personalized Medicine organized by Nabira Mahavidyalaya, Katol 21&22 September, 2012.
- Received first prize for poster presentation at UGC Sponsored National Seminar on "*Biodiversity Conservation a Global Need*" organized by J. M. Patel Arts, Commerce and Science College, Bhandara.

* *Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally*

Some of the faculty members were invited to chair the technical sessions in national and international conferences.

* *Incentives given to faculty for receiving state, national and international*



recognitions for research contributions.

Dr. N. L. Khobragade, Head of the department of Mathematics honoured with 'Best Teacher Award' from RTM Nagpur University, Nagpur in 2014-15.

Dr. S. K. Ubale, Head of the dept. of Physics honoured with distinguished researcher award by VSM & Jagdamba College of Engineering in International Conference held at Dubai on November, 2015.

The faculty members are felicitated at annual prize distribution function to acknowledge their research contribution.

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The college translates its vision by working on the potential of the students for their employability. Generating future workforce of the nation, the institution has devised a strategy which addresses these issues at various levels and has adopted a number of measures through interactions with the industry as follows:

- Add on career oriented courses have been introduced which includes COC in Bioinformatics and Mushroom cultivation
- Throughout the academic years various seminars related to communication skills and employability checks have been organized by the career guidance and placement cell. These programs are especially organized for final year and pre-final year students to help them prepare themselves better and to be in sync with recruiters demand.
- Founded with the objective of nurturing creative entrepreneurial skills amongst the youth we invite successful entrepreneurs to have talks, discussions and workshops with our students.

The management is trying to start the skill-based courses in the future which will be directly linked with the industries.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

- Institution publishes the name and expertise of the faculties on website to make it publicized so that the maximum number of people can take the benefit of the facilities available in the institution.
- Through communication with alumni
- Through display on notice board
- The department of microbiology provides consultancies in the form of bacterial cultures and carry out microbiological analysis of various samples.
- The department of botany provides plant identification and authentication



facility

- Chemistry department also provides the chemical analysis
- The department of food and nutrition provides consultancies in diet counselling

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The college promotes teaching, research and consultancies. Our institution has a distinguished faculty whose expertise in their respective field have broad laurels not only for themselves but also for the college. Our faculty members are invited to various colleges for scholarly guidance and support.

The management and the principal provides infrastructural facilities and other related resources necessary for the consultancies and also the website of the college provide wide publicity in this direction.

Research advisory committee guides and promotes the faculty to undertake consultancy in the respective areas. For these assignments adjustment in the time table is made as and when required and if necessary.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The department of microbiology is providing the consultancy for microbial cultures and related analysis and the botany department provides the plant identification facility to the researchers in the field of plant sciences and pharmacognosy. The department of chemistry provides the chemical analysis and services to the needy researchers in the field of chemical sciences.

The department of microbiology generated revenue of Rs. 26600/- through consultancy.

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

In order to encourage the consultancy programs management give complete freedom to the faculty members. Since the consultancy program is at initial stage the management is yet to finalize its policy.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

In alignment with the vision and mission of the college, there are multiple ways in which the college promotes an institution-neighbourhood-community network and student



engagement.

The College departments like NSS unit, NCC unit, Nature club, Women Development Cell and Department of Lifelong Learning and Extension undertake various activities for development of students. The NSS unit visits regularly in nearby slum areas and with the help of students carry out surveys about their health and hygiene, facilities available, educational status, etc. Through this, students get an opportunity to interact informally with children, youth, and/or adults in that areas and share a sense of connection despite differences in lifestyles and life circumstances. During these surveys they also organize workshops for women on skill-development activities, impart training to create best out of waste and conduct various games/craft/activity workshops for the children of these villages.

The organizations working in this direction are as follows:

Departmental Associations: Through departmental associations college organizes various academic and co-curricular activities throughout the year. In organizing these events students interact within the college and outside the college with peer group and learn how to encounter problems and negotiate them.

National Service Scheme (NSS): The NSS unit of the institution run with 150 registered students as per the university norms. There is an overwhelming response from the students in the various activities organizes under the banner of NSS in every academic year. The different activities organized under NSS are as follows:

- Tree Plantation
- Blood donation camp
- Organ Donation Awareness program
- Beti Bachao Rally
- Visit to 'Matoshri Oldage Home' and 'Orphanage'
- Vyasankmukti Rally
- Andhashraddha Nirmulan Programme
- A lecture on 'Road Safety 'in association with Jan-Akrosh to spread awareness among the students about rules and regulations regarding road safety
- a lecture on 'Nuclear Power Plants and its Principles' to create awareness about importance and need of today's energy crisis
- Vruksha Dindi
- Voters Awareness Rally
- Water conservation
- Disaster Management, etc.
- Awareness about the cashless movement



Awareness Programs: Various awareness programs are organized like traffic rules awareness, health awareness, environment awareness, etc. All these activities ensure that the students are exposed to the world with realistic and practical emphasizing attitude. Their zealous engagement not only ensures strong ties with the local communities but also help them evolve into global citizens.

The management and the institution are always keen on holistic development of the students. The institution has various committees in campus which are working for the holistic development of the students and to incorporate the social responsibility as well as creating the general awareness among them.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

There are conveners and co-conveners of various committees. For programs like NSS and Extension there are student volunteers who supervise and coordinate the activities involving students. The student coordinator communicates to the faculty members of the committees. The activities are reviewed and corrective measures are initiated. Thus, in conclusion, these extension activities are broadly overseen by the Principal, led and initiated by assigned teachers, and planned and organized by students under the supervision of these teachers.

The college has number of such committees which serves the need of the immediate neighbourhood by motivating students which are members of:

- NSS unit
- Science forum
- NCC unit
- Equal Opportunity Cell
- Student Welfare Committee

Apart from above units, the college undertakes activities as extension activities and as Institutional Social Responsibility.

- Computer awareness programs are routinely organized for children from slum areas.
- The college ground is made available to Rotary for organizing vintage car show every year on Republic day.
- Library facilities are made available to senior citizens and individuals in the neighbourhood.
- The college believes in involving students in these projects which not only makes them equal partner in these social mission but in the process also ensures that values of good citizenship are instilled in them.

The above activities help students in developing leadership qualities, team building and sensitivity to other's need. This makes them participate in Nation building process with maturity, confidence and with social responsibility.



3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The institution is very much perceptive about its stakeholders which are important for performance of the institution. We have various stakeholders and their input, feedback and suggestions are very important for the development of the institution. These are as follows:

Students:

Academic and administrative feedback is taken from the students on and off-line. The feedback is given to the students of final year at the end of the session and it is collected from the concerned teachers and mentors.

Alumni:

We have established an 'Alumni Association' and they organise alumni meet once a year. In meetings with the alumni we are taking the feedback on the development of the institution as well as suggestions for the improvement of the institution in future.

Parents:

The institution conducts parents meeting every year for all undergraduate students so as to understand the requirements of students and parents. We also take the feedback from the parents for various types of services provided by the institution.

Academic peers:

The feedback is taken from the academic peers during their visits for examinations on campus and during various academic meets. The suggestions received from them are taken into consideration.

Teaching, Non-teaching and administrative staff:

The suggestions are taken from the teaching, non-teaching and administrative staff of the college during the meeting regarding the various events managed in the college premises. The suggestions from the staff are taken into consideration if found important and useful.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

- The college believes in bridging the gap between theoretical approaches to education and providing a firm grid whereby the same can be translated into something concrete and positive for the society.



- The college plans and organizes its extension and outreach activities in the beginning of the session.
- At the beginning of the academic year, a meeting of the conveners of the various extension and outreach programs is held to prioritize the activities for the year. Orientation programs are conducted for motivating the students and they are briefed about the scope and nature of the activities.
- The committee prepares a budget and submits it to the Principal for approval. On the basis of approval received, committees and departments conduct outreach programs.

There is a budgetary provision in the college for the extension activities in every session in the college which is used in organizing various extension activities for the session. The details of the budget provision under the head of extension activities are given as follows:

<i>Sr. No.</i>	<i>Financial year</i>	<i>Budget for extension activities (in Rs.)</i>
1.	2012-13	19745
2.	2013-14	21325
3.	2014-15	42470
4.	2015-16	48652
5.	2016-17	110997

In addition to institute's financial support the college also receives funds for organizing NSS activities from RTM Nagpur University, Nagpur.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

The college promotes the participation of students and faculty members in extension activities in several ways:

- To ensure maximum participation of the students notices and circulars are sent to all the departments and displayed on the notice boards across the campus.
- One of the faculty is appointed as coordinator for extension activities who works in coordination with other dedicated teachers and student representative.
- To encourage students participation in various these activities the initiatives taken by the college are:
 - ❖ Best NSS and NCC cadets are felicitated during the Annual Prize distribution function.
 - ❖ The Institution encourages NCC students to participate in the Republic Day parade function.



- ❖ The NSS unit organises various programs like blood donation camp, PUC, road safety, voter registration & leadership programs, which creates more visibility and sense of participation for the National cause. In collaboration with Rotaract, NSS unit this year also organised tree plantation drive.
- ❖ The alumni help to create awareness campaign among the current batch to join NSS/NCC and participate in various activities including hosting the cultural festival. NCC cadets of previous years are invited during Independence Day and Republic day functions.

The Institution encourages and motivates teachers involved in extension activities and hone their skills by allowing participation in orientation courses, refresher courses and training programs organized by relevant agencies. The leadership role achieved by our teachers in activities like NSS and NCC is testimony to the proactive and motivating attitude of the Institution to promote teachers and students in the relevant fields.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The surveys in the area of community health, gender equality, literacy, status of education and dropouts, career development etc. were done in slum areas by the student of the institution under extension activities. These activities introduce the social awareness among the students.

To ensure social justice and empower students from under-privileged and vulnerable section of the society the college has constituted committees such as:

- NSS
- Women's Grievance Redressal Cell
- Science Forum
- Equal Opportunity Cell

These committees work to address various social concerns of the neighbourhood around the campus. Besides this, college provides financial aid to the students of weaker section in the form of Scholarships, book-bank facility, etc.

Sadbhavna Diwas is celebrated, the main objective in celebrating this program is to promote secularism among students and other stakeholders and instilling in them tolerance towards all religions.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The student's academic and learning experience is complemented through:

- Creation of a more humane, tolerant and accommodative personality.



- Building templates for the effective leadership through articulation of ideas.
- Providing real life situations as an alternative pedagogy of learning.
- Providing environmental consciousness with emphasis on 'zero-waste'.
- Offering effective communication skills for effective delivery of ideas and its implementation.

It has been experienced that some of the students in later years wanted to give back to society through the institution by formally associating with the extension activities of the institution.

A green campus with a special zone of un-disturbed native vegetation proves that our commitment over the environment is not only in our words but is clearly reflected in our actions as well. Our students zealously joined the Swachhha Bharat Abhiyan whereby they undertook activities like campus cleaning, watering the plants and nurturing them. These small efforts thus have been translated into meaningful exercises.

Values and skills inculcated:

- Changing the mind set of students from luxuries to necessities.
- Sensitivity to nature and environment.
- Less dependence on others and initiating and voluntary self service
- Importance of team work and tolerance to each other
- Dignity of labour
- Helping attitude
- Skill for leadership and better communication skills
- Understanding social responsibility

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The college understands that for any outreach activity to be undertaken and to make it successful it has to have a blue print which is sensitive to the peculiar socioeconomic makeup of the community and must also have practical suggestions to ensure their participation. These concerns act as guiding principle whenever such programs are planned.

The college ensures the involvement of community in its outreach activities and contribute to the community development with the help of various NGOs (Rotary Club, Jan-Akrosh, Indian Women Scientists Association, (IWSA), Nagpur Branch and Vidnyan Bharti), Govt Institutes (Police), etc.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.



The college has constructive relationship with some of the NGOs working on various outreach and extension activities like cleanliness drive, literacy and health awareness. The NSS volunteers of the institution assist the NGOs like Jan-Akrosh, in controlling traffic, and also making the citizens aware of the traffic rules during rush hours in the nearby areas. The students are also working for the health & hygiene, AIDS awareness, water conservation, literacy and importance of education, etc. in slum areas nearby the institution.

With support of Rotaract college undertook tree plantation program, computer awareness program for underprivileged school children. During Ganesh festival students of the college actively participated in *Nirmalya* collection thereby protecting nearby water bodies from pollution.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years
: Nil

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The institution is running UG courses and the students are not actively engaged in research work. The scholars registered for Ph.D. under the guidance of our teachers are working in other institutes with due permission. The Institution supports its scholars for availing facilities which are not available in the college. The institution is surrounded by a host of premier educational and research institutions. This has helped the research students and staff to use many facilities, which otherwise are not available on campus. Whenever a faculty needs to avail facilities in a formal way, he / she applies to the Principal and seeks permission from the parent and host institutions. Some of them include:

- CSIR research institutes like Citrus, Cotton Research Centre, NEERI, ICAR, NBSS, etc.
- VNIT, Nagpur
- Rajiv Gandhi Biotechnology Centre, RTM Nagpur University, Nagpur
- The post graduate teaching departments, RTM Nagpur University, Nagpur.
- Ambedkar College, Deekshabhoomi, Nagpur;
- LAD College, Shankar Nagar, Nagpur,
- Taywade College, Koradi



The institution also supports teaching staff in availing training programs, interaction with experts and to deliver invited talks organized in the nearby institutions on a frequent basis. Such interactions with renowned persons help in increasing awareness, better research ideas and formation of research tie ups. The institution maintains a good professional relationship with other institutions affiliated to RTM Nagpur University, Nagpur, as the students registered for PhD under the guidance of faculty members work in liaison with these institutes for completing their research work. Also the faculties from such institutions provides their expertise as visiting faculty or resource person for the research related activities though there are no formal faculty exchange programs.

3.7.2 Provide details on the MoUs /collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The institution is running UG courses and signed few MoUs with other institutes, research laboratories and industries. (Please refer 3.1.1). The institute is planing to work in collaboration with these organizations for enriching the curriculum by starting few skill-based courses in future.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/library/new technology/placement services etc.

The institution is benefitted in many ways through the institution-industry interaction. Some of them are given as follows:

- The library has taken institutional membership of the British Council Library and American library.
- As the college does not have university approved research laboratories to carry out their research work, the collaborations with other colleges help the faculties indirectly to undertake students for PhD program. The beneficiaries of this collaboration are the faculties from department of Microbiology, Chemistry, Physics, etc.
- A diploma course was designed in collaboration with Tushar Mushroom Udyog, Near PHC Shahapur, Bhandara and it is sanctioned by UGC as career oriented course.
- Placement opportunities were improved by associating with organizations like Premier Academy of Administrative Services (PAAS)

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.



The conferences/workshops/ seminars organized by the institution in last four years are as follows:

- The institution has organised a two days NAAC sponsored National Workshop “An insight into the new strategies and policies of NAAC in higher education” & published proceedings of the workshop. About 187 delegates participated in the workshop.
- Some of the departments from the college like Electronics, Micro-biology and Applied Physics organized workshop on new curriculum design and development for the teachers of the affiliated colleges to discuss and finalise scope and the limitations of the syllabus in view of the changed syllabi of these workshops were organised in collaboration with B.O.S of the concerned subjects.
- A workshop on “Shakes and Sharbat” was organised by Faculty of Home - Science.
- A workshop on “Life Saving Skills” was organised for all the staff members.
- Workshop on computer training was organised for the technical staff of the college. About 15 staff members participated in this training programme. The workshop included training in “MS- Office & MS-Excel”
- Two days workshop for B. Sc. I students was conducted for “Employability and Power boosting”
- The institution organised a seven days Research Methodology Workshop on Emerging Trends in Research Methodology- Innovate 2015 from 20th to 27th April, 2015 sponsored by Indian Science Congress, Nagpur Chapter and Global Biotech Forum, Nagpur, India.

(Annexure: 3.7.4)

3.7.5 *How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -*

a) Curriculum development/enrichment

Some of the departments from the college like Electronics, Micro-biology and Applied Physics organized workshop on new curriculum design and development for the teachers of the affiliated colleges to discuss and finalise scope and the limitations of the syllabus in view of the changed syllabi of these workshops were organised in collaboration with B.O.S of the concerned subjects. The institution motivates and allows the staff for their participation and contribution in such workshops organized by the various institutions affiliated to RTM Nagpur University, Nagpur.

Recently the syllabus for diploma in mushroom cultivation was designed along with the faculty member from other institutions. The members of the committee includes Dr. P. T. Humane, Head, Dept. Of Botany, Dharampeth M. P. Deo Memorial Science College, Nagpur, Dr. A. A. Fulzele, Head of the Dept. Of Botany, M. M. Science College, Nagpur,



Dr. W. Y. Tagde, Head of Dept. Of Botany, C. J. Patel College, Tirora, dist. Gondia and Dr. K. M. Borkar, M. B. Patel College Sakoli, dist. Bhandara.

b) *Internship/ On-the-job training*

The library of the institution runs a scheme '*earn while learn*' for the students. This activity provides financial support and basic knowledge about the working of the library to the students.

c) *Summer placement*

The institution is trying its best by interacting with many industries and organizations which will definitely help in placements of the students in future.

d) *Faculty exchange and professional development*

There are no such formal faculty exchange programs but the institution allows staff to visit other institutions / organizations as visiting faculty as well as experts. The same is in case of the faculties from other institution.

e) *Research* : Nil

f) *Consultancy*

The department of Statistics was actively involved in providing consultancy for statistical data analysis, the botany department is providing consultancy for plant identification and authentication to the researchers in plant sciences, the microbiology department is providing consultancy for microbial cultures and carry out microbiological analysis of various samples and department of chemistry provides the facility of chemical analysis.

g) *Extension* : Nil

h) *Publication:*

The institution has tie up with GC Publilshers, Nagpur and Central Techno Publication. Many teaching staff of the institution published text books with both these publishers. The institution is taking continuous efforts for such tie ups for increasing number of publications in near future.

i) *Student Placement:*

The placement cell of the institution is trying to establish the tie ups with software companies, corporate sectors, industries, etc. for the placement opportunities to the students.

j) *Twinning programmes* : Nil



k) *Introduction of new courses*

Diploma in mushroom cultivation is sanctioned by UGC under career oriented courses.

l) *Student exchange*

The institution does not have any formal student exchange program. However, the NSS volunteers and NCC cadets are frequently sent for different activities, like NSS / NCC camps, lectures, seminars, rallies, awareness programs, etc. organized by the colleges affiliated to RTM Nagpur University, Nagpur.

m) *Any other* : Nil

3.7.6 *Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.*

The institution is trying its best for establishing the linkages and collaborations with various industrial houses for starting new courses which will enhance the value addition to the course and will help in boosting employability of a stakeholder in near future.

- Membership of industry representative in IQAC.
- The college organizes programs to facilitate interactions with academicians / scientists and experts from the industry in formal as well informal ways.



CRITERION IV : INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The College has enhanced the infrastructure to facilitate effective teaching and learning, the college always tries to cope up with the needs and students strength. According to the requirement of the various courses, the college has set up a policy to augment the laboratories, classrooms and library facilities. Though we are an aided institution, college management provides support for additional as well as up gradation of current infrastructure on regular basis. The college has ample infrastructure facilities and resources to conduct the curricular, co-curricular, extra-curricular, and research activities. Facilities enhancing student centric activities and audio visual aids are given priority. The development of the infrastructure is in pace with the academic development of the institution. The infrastructure is used to its optimum extent and all the students have an easy access to the available learning resources. As per need sufficient infrastructural facilities are provided by the institution.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities - classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The Academic wing houses various Departments of the college. All the departments, Administrative wing and Library are well connected with intercom. The classrooms are spacious. All the departments with practical subjects have separate, well ventilated, well- equipped laboratories and staff rooms for the faculty to facilitate the academic programmes.

- A Seminar Hall, Mini Auditorium, and two Smart Rooms with facilities like audio-visual aids (LED, OHP), computers, and public - address system is housed in the college. The academic wing has an area of 3627 sq. Mt. (**Annexure 4.1**)
- A separate wing is available for the Home-Science Faculty, with an area of 372 Sq. Mt. (**Annexure 4.1**)
- The College has separate Administrative wing which includes Principal's Cabin, Office, Conference Hall and Library. In consonance with the new subject combinations some of the class-rooms have also been added in this wing.



- The Central Library is equipped with adequate space and large number of books and journals, Internet and other support facilities.
- The college has developed Central / Interdisciplinary Research Lab with adequate research facilities / equipments to carry out basic research work.
- Zoology and Botany Departments have museum with a rich and rare collection of specimens.
- The college has well – maintained BOTANICAL GARDEN. Apart from the crotons and medicinal plants in the garden, the college has taken efforts to maintain green zones resulting into a beautiful campus blanketed in green.
- Reprographic facilities and mini stationary store are available on the campus during college hours for the students. This facility is provided by College Credit Co-operative Society.
- The college has separate NCC, NSS and Mahila Adhyayan Kendra to conduct various activities.
- The college has a Seminar Hall and Mini auditorium which is available for conducting activities like Debate competitions, Elocution competitions, Quiz competitions, etc.
- College Provides facilities to students for NPTEL online courses.

b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

College has played a proactive role and supportive role in grooming students. Specific spaces have been earmarked for extra-curricular activities and made available to students.

- For various cultural activities separate outdoor arrangements are made, as and when required.
- To promote Sports activities the college has maintained a play ground with an area of 6626.25 sq. Mt. with facilities of playing Cricket, Volley- ball , Basket ball, Foot- ball, etc. Sufficient sports material and kits facilitate sports activities. **(Annexure 4.1)**
- The college has also provided Mini-Gym facility to students and staff.
- The college has also in-door facilities for sports/ games and yoga and has first- Aid centre to provide basic medical treatment for students and staff.
- Water Purifiers and coolers are available.
- For the convenience of the staff members, facilities such as the branch of Bank of Maharashtra and office of the College Credit Co-operative Society are available on the campus.
- The college provides separate parking arrangements for students and staff.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line



with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The resources and infrastructure of the college are effectively shared to enable its Optimum utilization. The college has adequate infrastructure facilities and resources to conduct the curricular, co-curricular, extra-curricular, and research activities. The development of the infrastructure is in pace with the academic development of the institution. Maximum utilization of the infrastructure is ensured and all the students have an easy access to the available learning resources. The laboratories and classrooms are available for students since morning 07.00 till 05.45 pm for their optimal use.

On holidays college allows external agencies like UPSC, MPSC, RBI, Other Banks, and Railways etc. to conduct their examinations.

Security measures: Entire college premises including office and library are under surveillance of Close Circuit Television (CCTV). There are in all 44 cameras installed in the college premises. This measure was taken in view of safety of the students community.

LCD Projectors: To make teaching learning process more effective and interesting the college has installed 25 LCD Projectors in the laboratories/classrooms. Teachers are encouraged to use the facility.

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

- Keeping the general trend of less preference of physically disabled students towards practical subjects, the number of students seeking admission to the institution with only science stream is negligible.
- Classrooms are on the ground floor.
- Library is housed on the ground floor.

4.1.5 Give details on the residential facility and various provisions available within them:

- *Hostel Facility – Accommodation available*
- *Recreational facilities, gymnasium, yoga center, etc.*
- *Computer facility including access to internet in hostel*
- *Facilities for medical emergencies*



- *Library facility in the hostels*
- *Internet and Wi-Fi facility*
- *Recreational facility-common room with audio-visual equipments*
- *Available residential facility for the staff and occupancy*
- *Constant supply of safe drinking water*
- *Security*

The college mostly caters to the needs of local students but for outsider students if any, the college has MOU's with few hostels around the college.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

There is a preliminary first-aid facility which provides basic treatment. In coordination with this hospital staff facilities like general health check up and basic blood tests are routinely conducted in the college.

In case of emergency, Private and Corporation Hospital are easily available as these hospitals are located just 1 km from the college.

4.1.7 Give details of the Common Facilities available on the campus—spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

- **IQAC:** IQAC has a separate room to co-ordinate their activities smoothly and effectively.
- **Grievance Redressal Cell:** The college has a Grievance Redressal Cell. The Complaints & Suggestion boxes have been installed in the college premises. The complaints and suggestions are redressed from time to time by the constitutive committee members.
- **Women's Development Cell:** The college has women's development cell. This cell looks after the well being of the girl students. Various activities are organized for them from time to time.
- **Placement and Career Guidance:** The college has a career and placement guidance cell which looks after the activities related to career guidance and placements for the students.
- **Canteen:** The College provides a clean and hygienic canteen facility.
- **Gymkhana:** The mini-gymkhana facility is available for all the stakeholders. They use this facility mostly during their spare time.



- **Safe drinking water facility:** Water coolers with purifiers have been installed on each floor of academic wing for providing safe drinking water facility. Also Water coolers with purifiers have been installed in the administrative wing.
- **Auditorium:** The college has two mini auditoriums; one of them is 'Late Vinayakrao Phatak Hall' and has capacity of 150 seats. There is another mini auditorium by name, 'APJ Abdul Kalam Hall' which has a seating capacity of 80.

4.2 Library as a Learning Resource

4.2.1 *Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?*

The Library constitutes of a Library Advisory Committee. The Library Advisory Committee serves in an advisory capacity to support the Library program within the educational philosophy of the college. The committee members formulate guidelines for the library services and programs.

- Act as a liaison between the faculty, administration, and student body and the library program.
- Act in an advisory capacity to the Librarian on implementation of policy and library management.
- Assess and make suggestions for the integration of the library program and its services within the instructional programs of the institution.
- Encourage the use of all library collections and facilities as well as services.
- Recommend solutions to library problems related to faculty's and student's needs and usage.
- Formulate long-term planning of the library program.
- Assess the adequacy of library materials and services for the curriculum offerings of the institute.

4.2.2 *Provide details of the following:*

- *Total area of the library (in Sq. Mts.)*
- *Total seating capacity*
- *Working hours (on working days, on holidays, before examination days, during examination days, during vacation)*
- *Layout of the library (individual reading carrels, lounge area for browsing and*



relaxed reading, IT zone for accessing e-resources)

The details of the library are as follows

1	Total area of the library (in Sq. Mts.)	249.76 Sq. Mts.
2	Total seating capacity	74 (Students+Staff)
3	Working hours (on working days, on holidays, before examination days)	On Working Days: 10.30am to 5.30pm On holidays: Closed
4	Layout of the library	Stack Room: 142.72 Sq.Mts. Reading Room: 107.04 Sq.Mts.

Apart from the Central Library, there are individual departmental libraries (11).

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Heads of the various Departments and the Faculty members are asked to recommend books, references, journals, periodicals, other books of varied interest. There is a purchase committee headed by the librarian and senior teachers who decide on the purchase of different titles.

Library holdings	2012-13		2013-14		2014-15		2015-16	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text books	484	173908	705	176559	650	62529	362	27557
Reference	603	-	603	-	603	-	603	-
Journals/ Periodicals	19	-	19	-	19	-	19	-
e-resources	N-List	5000	N-List	5000	N-List	5000	N-List	5000
Any other (Magazines)	16	-	16	-	16	-	16	-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- OPAC
- Electronic Resource Management package for e-journals
- Federated searching tools to search articles in multiple databases



- *Library Website*
- *In-house/remote access to e-publications*
- *Library automation*
- *Total number of computers for public access*
- *Total numbers of printers for public access*
- *Internet band width/ speed 2mbps/10 mbps/1 gb*
- *Institutional Repository*
- *Content management system for e-learning*
- *Participation in Resource sharing networks/consortia (like Inflibnet)*

1	OPAC	Yes, Computers are made available for this purpose.
2	Electronic Resource Management package for e-journals	N-LIST and INFLIBNET
3	Federated searching tools to search articles in multiple databases	----
4	Library Website	Webpage on College website
5	In-house/remote access to e-publications	Through N-LIST and INFLIBNET
6	Library automation	Yes, Bar code facility available
7	Total number of computers for public access	10
8	Total numbers of printers for public access	01
9	Internet band width/ speed(2mbps/10 mbps/1 gb)	10mbps
10	Institutional Repository	-----
11	Content management system for e-learning	-----
12	Participation in Resource sharing networks/consortia (like Inflibnet)	N-LIST and INFLIBNET



4.2.5 Provide details on the following items:

- *Average number of walk-ins*
- *Average number of books issued/returned*
- *Ratio of library books to students enrolled*
- *Average number of books added during last three years*
- *Average number of login to opac (OPAC)*
- *Average number of login to e-resources*
- *Average number of e-resources downloaded/printed*
- *Number of information literacy trainings organized*
- *Details of “weeding out” of books and other materials*

Sr. No.	Particulars	Details
1	Average number of walk-ins	40 to 50 Approx.
2	Average No. of books issued/returned	2650
3	Ratio of library books to students enrolled	1:30
4	Average number of books added during last three years	1717
5	Average number of login to opac (OPAC)	55 Approx.
6	Average number of login to e-resources	30 Approx
7	Average number of e-resources downloaded/printed	15 Approx
8	Number of information literacy trainings organized	4 to 5 times
9	Details of “weeding out” of books and other materials	Books of old syllabi/torn books etc. approved by concerned department and Library Advisory committee are discarded.

4.2.6 Give details of the specialized services provided by the library

- *Manuscripts*
- *Reference*



- *Reprography*
- *ILL (Inter Library Loan Service)*
- *Information deployment and notification (Information Deployment and Notification)*
- *Download*
- *Printing*
- *Reading list/ Bibliography compilation*
- *In-house/remote access to e-resources*
- *User Orientation and awareness*
- *Assistance in searching Databases*
- *INFLIBNET/IUC facilities*

Sr. No.	Particulars	Availability
1	Manuscripts	----
2	Reference	Available at reading section
3	Reprography	Available in the Library
4	ILL (Inter Library Loan Service)	Available
5	Information deployment and notification (Information Deployment and Notification)	----
6	Download	Available
7	Printing	Available
8	Reading list/ Bibliography compilation	According to users' need
9	In-house/remote access to e-resources	Access to N-List
10	User Orientation and awareness	<ul style="list-style-type: none"> ➤ Conducted for staff of the library with regard to basic computational skills and library software. ➤ Orientation for students, during "Principal's Address" ➤ Also through Notices/ display boards/Instructions.
11	Assistance in searching Databases	Available on request for OPAC
12	INFLIBNET/IUC facilities	INFLIBNET available for Users

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the



college.

- Network resource center is housed in the library which provides computers with internet facilities to the students for the NPTEL Online Certificate Course work project, research work and to search the information which are not available in library in print form. The library provides this facility free of charge.
- The reprographic facilities are available.
- The library is computerized, which helps students to search the books using OPAC (Online Public Access Catalogue).
- Library organizes Orientation programme for the Students.
- Reference service is provided by the library.
- Library also runs, “Earn and learn” facility for students.
- Latest subject wise books exhibition.
- Book display board.
- College manual /clippings in newspaper.
- To attract more students and staff to visit the library and use the resources, the “Best Reader Award” is instituted.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The library staff assists the visually/ physically challenged person in tracing the books as well as issue of books as and when required.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

There is a suggestion box kept in the library where the students put their suggestions, recommendations, complaints, grievances. On regular basis the authorities go through the suggestions and appropriate actions are taken for the smooth functioning of the library.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

- *Number of computers with Configuration (provide actual number with exact*

- *Computer-student ratio*
- *Stand alone facility*
- *LAN facility*
- *Wifi facility*
- *Licensed software*
- *Number of nodes/ computers with Internet facility*
- *Any other*

Sr.No.	Particulars	Facilities	
		Yes/No	Numbers
1	Number of computers with Configuration (provide actual number with exact configuration of each available system)	<p>➤ (Processor: Core2duo, Ram: 2GB, Hard Disk: 320GB),</p> <p>➤ (Processor: Duo 2 Core, Ram: 2GB, Hard Disk: 320GB),</p> <p>➤ (Processor: CoreI3, Ram: 2GB, Hard Disk: 500GB),</p> <p>➤ (Processor: CoreI5, Ram: 4GB, Hard Disk: 500GB),</p> <p>➤ (Processor: Pentium4, Ram: 512MB, Hard Disk: 160GB)</p>	<p>23</p> <p>02</p> <p>10</p> <p>14</p> <p>12</p>
2	Computer-student ratio	-	1:9



3	Stand alone facility	Yes	20
4	LAN facility	Yes	-
5	Wi-fi facility	Yes	03
6	Licensed software	Yes	06
7	Number of nodes/ computers with Internet facility	Yes	21

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

On campus Internet facility is available to faculty and students. Students are allowed to use computer labs and internet facility for preparing their projects, assignments and presentations apart from routine practical work. For access to N-List and other e-resources, five computers are provided in the college library. The computers in the administrative office are interconnected via a local network to facilitate resource sharing.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Under the supervision of the IQAC committee, a subcommittee decides on the need to upgrade and improve facilities related to IT infrastructure.

- Head of department of computer science is consulted regarding up gradation.
- Technical staff is employed to oversee proper installation and working of systems.
- The college has an in-house AMC facility to keep servers and allied systems in optimal working condition.
- Proper care is taken to dispose off e - waste appropriately.
- A proposal to implement cloud campus using Google cloud is proposed.
- Complete data backup solutions are to be provided in future.
- A proposal has been made to introduce Wi-Fi facility in the campus for teachers and students.
- In future, there are plans to add one more Computer lab with 30 Internet & LAN connected Computers to already existing 2 Computer Labs. We plan to add 10 Projectors in existing classrooms.

4.3.4 Provide details on the provision made in the annual budget for procurement,



upgradation, deployment and maintenance of the computers and their accessories in the institution (Year-wise for last four years)

Head of Expenditure	2012-13	2013-14	2014-15	2015-16
Procurement & Upgradation	145189=00	286000=00	-	59530=00
Maintenance	36000=00	23000=00	36070=00	12300=00

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- ICT resources are made available to administrative and teaching staff.
- Students are encouraged to use online study materials by providing web links, educational videos and use of simulators for practical purpose.
- ICT resources are made available to students to prepare presentations.
- ICT facilities are used for designing college magazine, collection and analysis of data for IQAC and NAAC work.
- The library provides e-resources, e-materials and Inflibnet for staff and students for updating knowledge in different areas.
- The College uses Google drive to obtain and analyze general feedback which are taken online every year to improve the teaching learning process.
- All the departments have been provided with computers/ printers, LCD projectors with net connectivity.
- Faculty members are encouraged to use power point presentations in the class rooms.
- The library computers are available to students. They are given freedom to use the resources and learn through e-resources.
- All Science laboratories are equipped with computer + LCD projector. These are used for demonstrations/explanations of practicals, power point presentations and video clips.
- The College provides facilities for online NPTEL courses.
- Smart class rooms with projectors + LCD TV + Interactive Board.
- Internal assessments and practical marks are entered online and sent to the Affiliating University.
- GOI Scholarships, freeship, University examination forms are filled online and sent to the concerned departments.



4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

The role of teacher as a facilitator stands, to promote, to help move forward, to make easy. Hence, the context of instruction, a teacher's role is to promote learning, to help students, to develop more and more by learning, by providing them a conducive environment to interact with, in order to bring about learning and further development.

Our teachers are part of the environment in which students are learning, or are participating in the process of instruction. They provide guidance in order to bring about learning of students by way of their interaction with relevant instructional components.

The teachers are facilitators of learning. We boost different methods to promote learning using ICT tools. Some are student- centred-like library work, project work, experimentation home assignment etc. where major focus is on how student organize their steps of learning by interacting within different environmental components like printed matter, natural realities, internet facilities etc. All such methods show that teacher guides students as to how to go about learning sequence, this facilitates their learning.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

- The College avails of the Information and Library Network Centre (INFLIBNET) facility for the benefit of students and faculty.
- The college has American Library membership.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

- *Building*
- *Furniture*
- *Equipment*
- *Computers*
- *Vehicles*
- *Any other*



Optimal utilization of financial resources:

- Due process is followed through purchase committee.
- Warrantee periods are used.
- Maintenance cost drastically reduced through MCVC department of our college.
- Switching over to led and solar which helps to consume electricity.

Sr. No.	Facilities	2012-13	2013-14	2014-15	2015-16
a.	Building	-	-	-	-
b.	Furniture	-	-	-	-
c.	Equipment	-	743946=00	658034=00	246960=00
d.	Computers	-	-	1000000=00	-
e.	Vehicles	-	-	-	-
f.	Any other	58000=00	255039=00	11250=00	-

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

Building: The college edifice is around 50 years old. The structural Audit is conducted periodically and the last Structural Audit was done in 2011 on the recommendations of the auditor, measures have been taken to strengthen and maintain the existing structure. The maintenance is done using Emergency Repairs as Necessitated in some areas. Spaces like wash rooms requires frequent upkeeps thus the washrooms have been maintained on a regular basis. External and internal painting is done on a regular basis. The last interior and exterior painting was carried out in the year 2010.

Furniture: As per the requirements of changing times, like necessity of computer trolleys, chairs, file racks, storage space for stacking assignments, examination materials etc. the college invests in the maintenance and making of the furniture.

Equipment: Regular AMC is done of the drinking water purifier to ensure safe and clean drinking water supply to the students and the staff members. The electricity related problems are resolved in-house by MCVC department of the college.

Similarly the AMC maintains the air conditioners, Close Circuit surveillance (C.C.T.V).

Computers: In-house computer technician is available to maintain and facilitate the smooth running of the computers and the peripherals in the college. New computers and their peripherals



are purchased from a shortlisted supplier to keep ourselves up to the mark with the changing requirements of time.

Safety and Security: Taking care of the safety of the students, faculty as well as the infrastructure, the college has taken measures like installing Close Circuit Cameras (CC Televisions) near all the entrances into the college, the canteen, the corridors and both the offices. The college has also invested in 24 hours security service in the college to weed out the entry of trespassers inside the college. This entire service has been out sourced. Having a foresight in control on unforeseen incidences like fires, the premises have fire extinguishers strategically located covering the entire premises. Some of the staff members have been trained regarding firefighting and how to use the extinguisher.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

- Computer lab technicians look after the maintenance of various computers.
- MCVC department looks after the electricity related problems.
- For maintenance of electrical equipments such as air conditioners, photocopy machines, equipments and instruments in electronics laboratory, etc, annual service contract is given to the concerned vendor.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- Basic laboratory instruments like oscilloscopes signal generator, power supplies, colorimeters and incubators are calibrated in-house before commencement of the academic year and practical examinations.
- Microscope cleaning and maintenance is done in-house twice a year.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

The college has taken herculean steps to make the institution infrastructure, building and facilities as per the requirements of the changing times. Major allocations in the budget are made for the purchase, maintenance, improvement and the upkeep of the equipments and the building structure.

REFLECTIONS:



- The best practices like promotion of active learning, participative learning, Self-Learning and peer learning are encouraged throughout the course. Knowledge is not taken as 'given'; it emerges from the teaching-learning experiences.
- The student – teachers are induced to understand their learners within their sociocultural contexts and learning needs. More effort should be made in this direction.
- The curriculum is taught through modeling, discussion, and doubt clarification, giving immediate feedback and providing suggestions for improvement. More care is taken that the student – teachers integrate their theoretical knowledge in practical situations.
- The use of technology in transacting the course is limited to the use of Power Point projections both by the teacher educators and students. Training is required for the widespread use of ICT in the teaching-learning process.

The quality sustenance and enhancement measure with regard to Infrastructure and Learning Resource are –

- Campus maintenance by Campus Maintenance Committee.
- Consumption of Tobacco in any form in the Campus is prohibited.
- Gardening and tree planting is done by the NSS students group.
- Library with books, reference books, Journal, Magazines & CDs is centrally located.
- Central Library with reprographic facility and internet connectivity.
- Computer laboratory with modern equipment and internet connectivity.
- Optimization of space through administrative and academic space sharing.
- Computer Centre with shared resources and facilities Air conditioned Auditorium with Sound System, and provision for using LCD.
- Optimization of space through multipurpose rooms.
- Identity card for each student.
- Purified Cool Drinking Water.
- Renovated Student's Toilets.
- Subsidized Canteen in the Campus.
- First – Aid provisions kept in the gymkhana
- College Sports ground.
- College Co operative Society and Bank of Maharashtra, Yashwantnagar
- College Co-operative society runs stationary stores and provides reprographic facilities.



CRITERIAN V : STUDENT'S SUPPORT AND PROGRESSION

5.1 STUDENTS MENTORING AND SUPPORT

5.1.1 Does the institution publish its updated prospectus /handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the institute publishes updated prospectus every year. The prospectus gives the Vision and Mission statement of the college and the details of Governing Body, Local Management Committee, and List of College Teaching Staff along with Administrative, Library and Laboratory staff. It comprises information regarding:

- Courses offered, admission procedure, important instructions regarding admission rules, payment of fees and fees chart, fee concessions and scholarships, rules of refund of deposit/fees etc.
- Various statutory bodies like Entrepreneurship Development Cell to promote entrepreneurship in the students, Training, Placement and Career Guidance Cell, Women Cell, Anti-Ragging Cell, Grievance Redressal Cell, Anti sexual Harassment Cell and more.
- Extension services through NSS, NCC, Women Study Centre and Value added programmes.
- Endowment prizes and incentives for meritorious students.
- U.G.C Sponsored Certificate and Diploma Course as an Add-on Course in Bioinformatics and U.G.C. Sponsored Diploma Course as Career oriented course in Mushroom-cultivation.
- List of free ships and scholarships offered, the discipline and code of conduct expected, attendance and grant of terms.
- Indoor and Outdoor Games and Sports facilities, Basket-Ball Court, Mini Gymnasium.
- Academic Calendar.
- Best Reader Award for students and staff, Best Student (Girl and Boy) of the Year Award in Sports.
- Library with reprographic facility and INFLIBNET facility.

5.1.2. Specify the type, number and amount of institutional scholarships/ free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

Year 2012-13



Following are the details of free ships scholarships and other financial aid given to the students during the last four years:

Category	Free ship Amount in Rs	Number of students	Scholarship Amount in Rs	Number of students
GENERAL(SBC/NT)	4543/-	04	162980/-	66
SC	4380/-	16	349061/-	61
ST	2753/-	01	100453/-	10
OBC	57276/-	21	523452/-	139
PHYSICALLY	-	-	-	-
TOTAL	68952/-	42	1135946/-	276

YEAR 2013-14

Category	Freeship Amount in Rs	Number of students	Scholarship Amount in Rs	Number of students
GENERAL	11983/-	06	175194/-	35
SC	26261/-	10	422356/-	68
ST	2963/-	01	142122/-	13
OBC	48691/-	18	748416/-	174
PHYSICALLY	-	-	-	-
TOTAL	89898/-	35	1488088/-	290

YEAR 2014-15

Category	Freeship Amount in Rs	Number of students	Scholarship Amount in Rs	Number of students
GENERAL	14086/-	04	151411/-	36
SC	354109/-	10	841545/-	89
ST	7192/-	02	121338/-	16
OBC	39486/-	11	1167209/-	224
PHYSICALLY	-	-	-	-
TOTAL	414873/-	27	2281503/-	365

TABLE YEAR 2015-16

category	Freeship Amount in Rs	Number of students	Scholarship Amount in Rs	Number of students
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GENERAL	3791/-	01	159002/-	28
SC	2214/-	07	940760/-	92
ST	3681/-	01	159724/-	19
OBC	78998/-	22	1202324/-	231
PHYSICALLY	-	-	-	-
TOTAL	88684/-	31	2461810/-	370

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Year	Percentage of students receives financial assistance from state government , central government and other national agencies
2012-13	44.61%
2013-14	50.14%
2014-15	52.36%
2015-16	48.29%
2016-17	33.70%

5.1.4. What are the specific support services/ facilities available for:



Sr.No	Type of Support	Support services by the institution
1.	Students from SC/ST, OBC and economically weaker sections	<ul style="list-style-type: none"> • Reservation in admissions • GOI scholarships; EBC concession • Special coaching/guidance under UGC schemes • Students belonging to economically weaker sections of the society are allowed to pay fees in easy installments. • Teacher mentors come forward to help economically weak students.
2.	Students with physical disabilities	<ul style="list-style-type: none"> • Reserved seats. • Writer for handicap during examinations. • Ramp and wheelchair. • Administrative Block and Office block on ground floor for easy access. • All classrooms on the ground floor and examinations are conducted on ground floor. • Toilets on the ground floor. • Teaching and non teaching staff helps the students whenever required.
3.	Overseas students	<ul style="list-style-type: none"> • All facilities as prescribed by RTM Nagpur University. No overseas students admitted recently.
4.	Students to participate in various competitions (National and International)	<p>Organizes intercollegiate competitions at college as well as departmental level such as:</p> <ul style="list-style-type: none"> • Late Madhur Shrikant Dahake Memorial Inter Collegiate Debate Competition every year. • Dr. Ashok Shekhdar Memorial Intercollegiate Power Point Presentation Competition every year. • Extracurricular Activities committee Convener looks after the students enrollments in various competitions. • Annual Cultural Event is conducted every year to



		<p>showcase the talent in the field of Singing, Dancing and Theatre. Teachers motivate students to participate in various extracurricular competitions by informing them through personal interaction and through display boards.</p> <ul style="list-style-type: none"> • Teachers support the student's participation by providing flexibility in attending the classes. • Extracurricular Activities committee Convener looks after the students enrollments in various competitions. • Physical education officer takes efforts towards students participations in sports. • Sportsmen are encouraged to participate in National and International events.
5.	Medical assistance to students: health centre, health insurance etc.	<ul style="list-style-type: none"> • Medical checkup for all students as per RTM Nagpur University, Nagpur. • All students are covered by a group insurance policy. • Health Centre is provided with regular BP and Sugar checkup • First Aid Box made available.
6.	Organizing coaching classes for competitive exams	<ul style="list-style-type: none"> • Seminars, Workshops and Lectures by experts are organized to help students for competitive exams. • Departments organize awareness programmes for students appearing for MPSC AND UPSC. • Guest lectures, workshops and counselling sessions are arranged for the students to inculcate life skills and employability skills. Sessions mind power, future planning, meditation techniques, SWOT analysis, are incorporated. • Seminar on topics like 'Employability & Campus Boosting', 'GDPI (Group Discussion & Personal Interview) Techniques', 'Communication Skill', 'Career After Graduation', 'Facing challenges in Competitive exams' are



		<p>arranged.</p> <ul style="list-style-type: none"> • Screening test for Bank Entrance Exam, Aptitude test on the basis of competitive exams, Concept Test in Chemistry, and guidance on 'How to Crack Competitive Exams' are conducted.
7.	Skill development (Spoken English, Computer literacy, etc.,)	<ul style="list-style-type: none"> • The College conducts seminar/workshop/lectures on personality development, time management, communication skill, interview techniques, and group discussion for under graduate B Sc and B Sc Home Science students . • The department of English conducts programmes on Conversational skills, Grammar rules, Listening skills, SWOT analysis etc. Self Government activities, and innovative programmes such as Poetry on Canvas, Story Book Writing, Street Play, Project writing using SWOT, were also conducted. • The department of Computer Science also conducts various training programmes like , Introduction of Hardware and Software Installation, training and career opportunities in the field of computer science, 'Expert Coaching for Exams', "Android Application ,World of Technology', 'Writing Scientific Article and Research Paper'. Activities under skill Development Program on 'Enhancement Of Computer Skills', 'Computer Networking and Security', 'OS installation', 'Animation and Video Editing', X-CELLER Company , 'Project Development Using Oracle as Front End and Visual Basic as Backend' 'Error Debugging Competition' , 'Basic concepts in Java' are also conducted. • All departments organizes guest lecturers by experts from



		various fields for updating knowledge skills.
8.	Support for “slow learners”	<ul style="list-style-type: none"> The faculties try to support academically weak students who are identified through aptitude test by discussing their academic queries. The teachers encourage remedial teaching. The College promotes guiding students through Mentor-Mentee Scheme. A batch of 20-25 students is mentored by one teacher on their academic and personal difficulties. Student mentors also help slow learners through peer guidance.
9.	Exposure of students to other institutions of higher learning /corporate /business house etc.	<ul style="list-style-type: none"> The departments give exposure to students through industrial visits to factories to get real time experiences. The students get opportunities to participate in Intercollegiate and Inter-university competitions to showcase their talents in the field of Arts and Science. To expose students to laboratories, pharmacies and research centres to inculcate the spirit of research in them.
10.	Publication of student magazine	<ul style="list-style-type: none"> The College publishes annual magazine “Asmita” . The students contribute articles in Hindi, English, Marathi and Sanskrit . The department of Chemistry publishes “Pearls”, a departmental magazine which includes scientific articles of students .

SR. NO	YEAR	DATE	DEPARTMENT	NAME OF SPEAKER	TOPIC OF LECTURE
1	2012-	14	CHEMISTRY	Dr. Abhay Patwardhan,	‘Life of Dr. Homi J.



	2013	September 2012		Scientist Fat Atomic Mineral Division, Nagpur	Bhabha and Indian Atomic energy programme'
2	2012- 2013	04 September 2012	ZOOLOGY	Dr. A.S. Mohite, HOD, Dept. of Zoology	'Protein Synthesis'
3	2012- 2013	13 September 2012	MICROBIOLO GY	Dr.C.D.Mayee, former Vice-Chancellor of Parbhanith University and Ex-Director of CICR, Nagpur	"Nuances Of Biosciences"
4	2012- 2013	15 January 2013	ELECTRONICS	Mrs. Sengupta, Associate Scientist, Maharashtra Remote Sensing Satellite application Centre	"Remote Sensing Satellite Development in India & its applications".
5	2012- 2013	5 October 2012by	PHYSICS	Dr. G. G. Sahasrabuddhe, Prof. Department of Applied Physics, Ramdeobaba Kamla Nehru College of Engineering	'The Physics of the GOD Particle: The Higgs Boson'.
6	2012- 2013	4 October, 2012	STATISTICS	Mrs. Shalini Bhoyar, Deputy Director General, NSSO (FOD), Ministry of Statistics & Planning, Nagpur	'Indian Statistical System'
7	2012- 2013	6th September 2013	MATHEMATIC S	Prof. Vivek Wagh	Recent Trends in Mathematics
8	2012- 2013	29 September 2012	COMPUTER SCIENCE	Prof. Nitin Goje , Asst Prof. & Academic Co-ordinator at M.C.A. Dept, ITM. Institute of Management & Research, Kamptee.	Object oriented concept using c++



9	2012 - 2013	16 January, 2013	ENGLISH	Dr. Mrs. Manjushree Sardeshpande, Assistant Professor, Department of English, R.S.Mundle Dharampeth Arts and Commerce College, Nagpur	“Transformative Grammar”
10	2013-14	3 rd September 2013	MICROBIOLOGY	Dr.Reeta Isarani Sr, Scientist CSIR, AGMARK Laboratory, Nagpur.	Food Safety
		19 th October, 2013		Mrs. Pratibha Puranik Electrical Engineer, Pune	Role of ‘Spiritual values in students life’
11	2013-14	25 th September 2013	CHEMISTRY	Dr. D. S. S. Ganguly, I. O. F. S. (RTD)	Domestic waste treatment and Management which was followed by interactive session with the students.
		1 st October 2013		Mr. D. D. Sarkar, Chemical Eng., C. E. T. P.	-
		4 th January 2014		Prof. Dilip Yardi, (Rtd) Env. Science Deptt from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	‘Wild Life and Protection Act’
12	2013-14	24 September 2013	PHYSICS	Dr. K.G. Rewatkar, Associate Professor, Dr. Ambedkar College, Nagpur	“Basics of Nano Science and Nano Technology.”
		13 January 2014		Dr Ms J B Randhawa, Head, Department of Applied Physics,	‘Basics of Impedance Analysis’



				Government Engineering College, Amaravati	
13		27 September, 2013	ELCECTRONICS	Prof. Dr. V.B. Hirulkar	“Advances in semiconductor Electronics”
14	2013-14		STATISTICS	Dr. Shriram Jyotishi, Associate Professor, Shri Ayurved College, and Nagpur	‘Applications of Statistics in Medical Sciences’
15	2014-15	5 th Oct. 2014	CHEMISTRY	Dr. S. S. Umare	“Chemistry for Mankind”.
		27 th March 2015		Dr. Vijay Tangde	‘Hadronic chemistry and its application’
16		20 th September 2014	PHYSICS	Shri E.Z.Khobragade , Ex.IAS Officer Govt.of India	“ Career Opportunities in State/Civil Services for Science Graduates ” .
		18 th October 2014		Dr. S.J. Dhoble Associate Professor, PGTD, Nagpur	“Importance of LED`s in New Generation Lighting ”
17		13 th September 2014	HOMESCIENCE	social workers from 'Snehanchal'	-
18		22 nd September 15	MICROBIOLOGY	Dr.Aarti Saoji on Ex-Director Institute of Science, Nagpur	‘Global Warming’
19	2015-16	22 nd September 2015		Dr.N.K.Tiwari, former Scientist ISRO Bangalore.	Mangal yaan
		12 th April 2016	CHEMISTRY	Dr. Hemant Jahagirdar	Structure and Bonding in (NPCl ₂) ₃ and (NPCl ₂) ₄
	2015-			Dr. K.P.Kariya	Selection Rule and Hole formalism



	16			Dr. N.M.Karde	NMR Spectroscopy
		23 rd September 2015.	The “SCIENCE FORUM “2015-16”, a joint venture of the Departments of Physics, Electronics, Statistics, Mathematics and Computer Science.	Prof. P. R. Shende	Basics of Quantum Physics.
		16 th July 2015	Microbiology	Dr. Atul Kulkarni, Rutgers Research Institute New Jersey, USA	Personalized Medicine: Cancer
		19 th August 2015		Dr. A . M. Deshmukh Head Dept. of Microbiology Marathwada University, Aurangabad	
		12 th Sept. 2015		Dr. Manoj Bhandarkar Deputy Director, Central Forensic Research Laboratory, Nagpur.	
		8 th October 2015	Zoology	Prof. Rajendra Kshirsagar (MCVC Dept. of fishery , Dharampeth m. P. Deo Memorial Science College, Nagpur	“Fabrication and setting up of aquarium”
		4 th March		Dr. Rupali Deshpande	Bioinformatics and



		and 5 th March			Biostatistics
2016-17	30 th August 2016	Microbiology	Dr. Archana Moon	Cancer : Cross talk tissues and Cells.	
	18 th February 2017		Dr. Swati Peshwe Associate Professor, Institute of Science, Aurangabad	Monoclonal Antibodies and its Applications.	
	March 2017		Dr. Anirban Pal (manager R & D , PraRAS, Biopharmaceutical company, Bengaluru	“Career in Microbiology”	
	23 rd August 2016	Science Forum	Dr. M.Y. Apte, Ex-HOD Physics, SFS College, Nagpur	‘Gravitational Waves’	
	12 th September 2016	Chemistry	Dr. Anu Naik	Opportunity of Research in Germany and Beyond	
	3 rd March 2017	Zoology	Dr. Mrs. Vaishali Deshpande	Bioinformatics	
	3 rd March 2017	Computer Science	Mr Anil Tatode	Robotics	
	1 st March 2017		Mr. Ganesh Tanksale	Choose Right Career after Graduation	
	19 th September, 2017.	English	Mr. Shreesh Shukla, Founder, EssDee and Partner at Raj Scientific	Time Management and Goal Setting	



5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co curricular activities such as sports, games, quiz competitions, debate and discussions, cultural activities etc.

The college encourages the young talented students of the college to participate in the wide platter of co-curricular activities conducted by the various colleges in and around Nagpur.

- The Extracurricular Activities Committee mentor students to participate in activities such as: Stats Quiz, poster presentation competition, elocution, debate, essay competition and cultural competitions like singing, dancing and skit.
- Free ship and admissions to sports persons are given to eligible students. Prizes and awards are given to sports person. Special dietary requirements of sportspersons before sports activities are taken care of. Training programs of sport persons is adequately done under the guidance of sports teacher. Special test sessions for sportspersons, NSS and NCC cadets are conducted and sports uniforms are distributed by the sports department of the college.
- Notices of the extracurricular and co-curricular activities are displayed on the notice boards and announcements are made in all classes.
- The college appreciates the performance of the students by displaying their achievements in the college notice board and college magazine.
- The 'Best Student Award' is given by considering his/her performance in curricular, co curricular and extra-curricular activities in the three years tenure of degree course.
- Data collection regarding their interests and inclinations in extra-curricular activities is collected at admission level so that they can be motivated to participate in the competitions they wish to participate.
- Students who wish to participate in competitions, the subject teachers provide flexibility in the time table and examinations. They are allowed to appear for additional exams if they have missed any examinations.
- Cultural Committee gives opportunity to students to participate in Annual Cultural Events like Vocal recitals, Classical /folk dancing, Mimicry, Mime, Theatre and performing art. Other creative competitions like Salad decoration, Best out of Waste, Rangoli, Mehendi , Anand Mela etc.
- Winners of extra-curricular and sports activities are felicitated on the Republic Day.



- The teachers also encourage these students and provide assistance in completing their semester work/ academic assignments.
- Sports uniforms (track suits, sweat shirts, caps, gloves, sports bag, shoes) and other sports equipment are provided to students.
- University, National and International level prize winner participants are given 10 marks grace as per the norms of RTMNU.

5.1.7 Enumerating on the support and guidance provided to the students preparing for the competitive exams , give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET,UGC-NET,SLET,ATE/CAT/GRE/TOFEL/GMAT/Central /State Services, Defence, Civil Services, etc.

Following are the support and guidance provided to students preparing for the competitive exams.

- The college provides coaching to NDA appearing candidates at concessional rates. Some of the college faculties along with outside experts provide guidance to the students.
- The college provides library facility to the students who prepare for competitive exams.
- INFLIBNET facility is provided through library.
- Students are motivated to enroll for NPTEL - online .
- Institution has special reading resources available for these competitive exams.

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc).

- **Personal as well as Academic Counselling**

The counselling of the students is done through Mentor-Mentee Scheme. Each teacher is a mentor to a batch of 20-25 students. Students' academic, personal and psychological aspects are dealt with the respective teacher from time to time.

- **Career Counseling**

The Training, Placement and Career Guidance Cell and departments of the college organizes career counseling programmes in fields like Information technology, preparation of competitive exams, Employability & Campus Boosting, Confidence Building and Performance, Career after graduation



in Government Sectors, Industries etc. Guest lectures, workshops and counseling sessions on the topics such as mind power training, future planning, meditation techniques, SWOT analysis, etc. are arranged for the students.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes' detail on the Services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list of employers and the programmers).

Yes, the Career Guidance and Training services are provided through The Training, Placement and Career Guidance Cell of the college for all students in the institute. It is headed by the Training and Placement Officer. However seminars, workshops, aptitude tests and skill development programmes are also conducted by various departments. Services such as Pre-placement training, Personality development training, Skill development training, are provided to help students identify job opportunities and prepare themselves for interview.

- The institute identifies the training requirements for students at the entry level.
- Companies visit the college for campus placements on and off the campus but as the students prefer to opt for post graduate courses they are less inclined towards placements.
- Following are the training programmes organized by Training Placement and Career Guidance Cell and other departments of the College

Sr.No	Training and Placement Cell / Department	Topic of Programme	Date
1.	Department of Electronics	MCQ based Test was conducted under the aegis of the Society for Promotion of Excellence in Electronics Discipline, 'SPEED'.	15/12/12
2.	Department of Computer Science	Two Days Workshop on 'Employability & Campus Boosting' for students conducted by "Take It Ideas Training And Placement Pvt. Ltd".	25/10/13 & 26/10/13



3.	Department of Chemistry	Concept Test in Chemistry by Homi Bhabha Centre for Science Education (TIFR) Mumbai	18/01/ 2014
4.	Training and Career Guidance Cell	<ul style="list-style-type: none"> • A Seminar on ‘GDPI (Group Discussion & Personal Interview) Techniques’ was conducted in collaboration with ITM Group of institutions. • A Seminar on ‘Communication Skills’ was conducted by JD College of Engineering, Nagpur. • Aptitude test (on the basis of competitive exams) was conducted by Gadget Career Academy for B.Sc. III students. • Five B.Sc. III students participated in Open Campus Interview of Infosys organized by Jhulelal Institute of Engineering, Nagpur. 	20/09/ 2014 24/09/ 2014 21-24 January 2015
5.	Department of Microbiology	<ul style="list-style-type: none"> • Workshop for B.Sc. Students on ‘Career after Graduation’ by Clinovision (Clinical Research Company, Nagpur Branch). • Organized Screening test for Bank Entrance Exam, Mr. Rahul Vaidya(Alumnus) 	10/11/2014 14/1/2015
6.	Training and Career Guidance Cell	<ul style="list-style-type: none"> • A Seminar on ‘Facing challenges in Competitive exams” was conducted by Mr. Rahul Vaidya, Director of 	07/09/ 2015



		<p>Gadget – The Career Tool Academy Alumnus of the college for Life Sciences students. It was followed by an aptitude test.</p> <ul style="list-style-type: none"> • 20 students enrolled for ‘Free Training programme of Computer and English’ organized by NCCI, Nagpur. • The Aptitude Test in collaboration with Computer Science department was conducted by NIIT for “Bhavshiya Jyoti Scholarship”. • In collaboration with Computer Science Department, Mr. Rahul Vaidya, Director of Gadget – The Career Tool Academy and Alumnus of the college conducted a Guidance Seminar on ‘How to Crack Competitive Exams? Top ten students were selected for 50% scholarship in coaching fees at Gadget-the career tool. • A One Day Workshop on ‘Training and Career Opportunities in the field of Computer Science’ was conducted by GR Solutions, Nagpur. • A Workshop on ‘Developing Communication Skills’ was conducted. Ms. Sushmita Chuckerbutty, Director, Maraina Solutions, Maraina Achievers Academy, Nagpur. • A Mind Training Workshop on 	<p>10/09/2015</p> <p>20/09/2015.</p> <p>15/10/2015</p> <p>23/09/2015</p> <p>20/10/2015</p> <p>22/12/ 2015</p> <p>15/01/ 2016</p>
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		<p>“Mind Power Improvement” was conducted by Radha Krishna Foundation – Unleash your hidden Potential for the students of Home Science Faculty.</p> <ul style="list-style-type: none"> An Interactive Workshop on ‘Confidence Building and Performance’ conducted by GR Solutions, Nagpur. 	
7.	Department of Microbiology	<ul style="list-style-type: none"> Interactive session on ‘Career options in Microbiology’ by Dr. Anirban Pal Manager R & D “PRARAS” Bio-science Pvt. Ltd., Bangalore. 	06/03/2017
8.	Home Science	<ul style="list-style-type: none"> Training programme of HACCP & ISO Certified Company named Waghmare food products. The students learned the concept of quality control, marketing, packaging and even environmental analysis of hazardous condition and need of proper sanitation in the surrounding. 	14/11/17 to 27/11/17

PLACEMENT

- Ms. Shraddha Patankar B.Sc. final year student was short-listed for M.S. programme at VIT, Vellore by Wipro technologies, Bangalore.
- Ku. Apurva Ingole, student of B.Sc. H.Sc – III was selected in campus placement of Wipro company.



Report of Training and Placement Cell 2016-17

SR. NO.	DATE	NAME OF ACTIVITY	NAME OF COMPANY	NAME OF FACULTY
1	27/06/2016	Career Guidance Seminar in Collaboration with Maharashtra Times on Career in Defense & Science Stream.	Air Force Maintenance Command Nagpur.	Wing Commander Mr. Gangakhedkar & Dr. Y. Rayalu
2	10/8/2016	A seminar on Career Opportunities in Govt. Jobs UPSC, MPSC & Banking Sector.	Prabodhan Bahu Uddeshiya Sanstha, Nashik (Nagpur Unit)	Mr. Rathi
3	13/08/2016	Seminar on Education & Career Opportunities Abroad	Valmiki Consultant	Mr. Bharat Vyas & Mr. Khushlani
4	31/01/2017	Seminar on Business Analytics	ASM Group of Institute Pune, Faculty From IBM, Pune	Mrs. Shital Soni
5	1 st & 2 nd Feb. 2017	Workshop on PHP (Web Designing) at company premises for B.Sc Computer Science Students	Xceller Nagpur	Mr. Prashant Rakhunde
6	7 th Feb. 2017	Seminar on Career in Government Jobs & Private Banking Sector.	Career Launcher	Mr. Naidu
7	15 th Feb. 2017	Seminar on "How to crack the SSC, UPSC, MPSC & Banking Exams.	Gadget Guru	Mr. Rahul Vaidya
8	3 rd March 2017	Seminar on Career in Robotics	Oberoi Centre for Excellance RTM Nagpur University	Mr. A. Totade

Placement Camp / Drive Organized:

HCL TC organized outsourcing recruitment drive for "CAPE GEMINI". B. Sc. passed out students



were sent for interview at Dr. Ambedkar College, Nagpur on 9/9/2016.

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Campus placement drive for B.Sc. passed out students for “Position of MR” in Troikaa Pharmaceutical Company was organized on 3rd March 2017. Two candidates were short listed.

Inter Departmental Skill Development Programs were conducted:

Department of Computer Science & Department of Microbiology jointly organized two In- House Skill Development Program for the students of Life Sciences.

Sr. No.	Date	Name of Activity	Name of Faculty
1	8 th – 12 th Aug. 2016	Enhancement of Learning Skills through ICT Tools	Mrs. Snehal Narale & Mrs. Ruma Kapre
2	22 nd -27 th Aug. 2016	7 days workshop on ‘Enhancement of Computer Skills’	Mrs. Snehal Narale Mrs. Kalyani Morone & Mr. B. Wanjari

5. 1.10 Does the institution have a Student Grievance Redressal Cell? If ‘yes’ list (if any) the grievances reported and redressed during the last four years?

The college has a Grievance Redressal Cell as per the directions of RTMNU for the students and staff of the college. The complaints are received through the complaint drop box. The drop box is checked once a month in the presence of the Convener and issues if any is discussed and sorted out under the guidance of the Head of the Institute and the team members of the committee.

- Students had requested to reconsider the canteen facility of the college, which was sorted out in a positive way. A new canteen has been set up.
- Students suggested to increase the number of computers in library which was implemented immediately.
- The complaint about the quality of the uniform was raised and the issue was sorted out.
- Installation of vending machines was suggested which was redressed amicably.



5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The College has constituted Anti Sexual Harassment Cell as per the directions of RTMNU. The Cell addresses and resolves the issues pertaining to sexual harassment. The Cell also organizes various awareness programmes on gender sensitization for the female students and also encourages them to report the matter to the authorities directly or through complaint box installed in the college campus. The Cell also organizes competitions like essay, poster and collage competitions in order to make the students aware about safety measures to be taken against sexual harassment. Following are the activities of Anti Sexual Harassment Cell:

1. Cell for Prevention of Sexual Harassment was inaugurated by Advocate Mrs. Padma Chandekar. She briefly clarified the basis and significance of such cells and the dire need of it in today's society. She also emphasized on the importance of Indian Culture, upbringing of children, family bonds and the need to distinguish between right and wrong.
2. Nari Suraksha Samman Sanstha on 18th February 2017. They empowered the students to build up their self confidence and personality development.
3. One day workshop was organized on 27th February 2017 under this Cell. Advocate Mrs. Smita Deshpande was guest speaker. She focused on different laws coming under the Cell of Sexual Harassment in work place. Different self defense techniques of Taekwondo were also demonstrated by the students.
4. Poster competition and essay competition was conducted under this cell. The theme of the competition was "Awareness against Sexual Harassment".

Women Cell also conducted various activities and provisions for resolving issues pertaining to sexual harassment:

- The Women Cell organized a lecture on 'Methods of tackling problems faced by Working Women in today's world' in 2013. Mrs. Reena Sinha, Director, NIIT, Nagpur, was the eminent Guest Speaker
- Women's Day was celebrated with great zeal and enthusiasm on 8th March, 2013. Documentary films on Greatest Woman Scientist Late Kalpana Chawala and a great social activist and reformer Hon'ble Sindhutai Sapkal.



- Women Cell organized 'Skit Competition' by students which took up the issues like Role of Women, Female Foeticide and Generation Gap was conducted. Around 45 students participated and the winner of the competition was 'Role of Women' by BS c HS c students.
- A Rally on 16th December, 2013 was staged in memory of a young woman whose savage gang rape on a moving bus on this day one year ago evoked nationwide anger and outrage of the sort rarely witnessed. The students also raised questions as to whether police are doing more to protect women and courts treating sexual violence seriously. Also a one-minute silence was observed in memory of Nirbhaya, or "fearless".
- Women Study Centre organized a Guest Lecture by Ms. TesileZeliang, a teacher and social worker from Nagaland, organized on 18th December, 2014. She spoke about Rani MaaGaidinliu of Nagaland. Rani Maa was a Naga spiritual and political leader who led a revolt against British rule in India. It was a motivational lecture and gave information about the history, people, society & leaders of Nagaland.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

- An Anti-Ragging Committee has been formed as per the provisions of the Maharashtra Anti-ragging Act to resolve issues pertaining to ragging. No cases were reported in this regard since last five years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Student safety insurance policy is provided for the students by the Institute.
- Financial support is provided to poor and needy students by some of the staff members.
- The institute supports financially and logistically medically needy students.
- Stakeholders are endowed with subsidized canteen facility.
- Book bank facility is offered by the Library.
- Bus & railway concession is given.
- UGC sponsored book bank facility to SC/ST students appearing for competitive exams like UPSC, MPSC, NET/SLET etc.
- Slow learners are identified and remedial coaching is provided.



- Travelling allowance, free sports kit and sportswear for students participating in intercollegiate sports activities.
- Counselling support by the faculty mentor.
- Internet facility.
- Mini Gymnasium facility.

5.1.14 Does the institution have a registered Alumni Association? If 'yes' what are its activities and major contributions for institutional, academic and infrastructure development?: The institute does not have any registered Alumni.

Yes, the College has an alumni association. Alumni meets are arranged once a year. There is an alumni tab dedicated to the alumni on the College website. . The association is involved in providing voluntary services. Members of the Alumni association contribute as coaches, trainers and judges in various activities of the college. They guide the students in academic matters and matters related to career prospects. A few of the Alumni members are working in the college as teaching and non-teaching staff.

- Dr. Anjali Deshpande, all India Sales Manager, Himedia Laboratories, Mumbai and alumnus of the department visited the college on 29 August, 2012. She delivered a lecture on “Opportunity in the field of management for Microbiology students.
- Financial Management Lecture by Ms. Dani , Alumnus spoke on “ Empowering women through financial management on 8th march 2015.
- A Guest lecture by Alumni Mr. Sudhir Lathurkar, Financial Advisor on “Finance Management and Smart Investments” in June 2016.
- Alumni meet on 30th December of faculty of Home Science was arranged on 30th December 2016.
- Alumni, Dr.Singh guided the students in a free Skin Care Camp organised by faculty of Home Science in collaboration with Ajantha Pharmaceuticals on 30th January 2017.
- Guest Lecture by Dr.Atul Kulkarni , Alumni ,Senior scientist Rutgers Cancer research Intstitute New Jersey (USA) on the topic “Personalized Medicine: Cancer.
- Guest lecture Dr.Anirban Pal (manager R & D , PraRAS, Biopharmaceutical company, Bengaluru) “Career in microbiology” in March 2017.
- Dr. Dhande’s Alumni, provides medical assistance to the college.



STUDENT PROGRESSION

5.2.1 How does the institution facilitate student progression to higher level of education and / or towards employment?: The institute carries out programmes on career opportunities after PG.

STUDENTS PROGRESSION	Percentage
UG TO PG	75%
PG TO M Phil	NA
M Phil to Phd	NA
CAMPUS SELECTION	0.5%
OTHER THAN CAMPUS SELECTION	NA

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

The following are the programme-wise/batch-wise details of pass % (last five years):

Sr.No	Name of the Institute	Programme	2012-13
	Dharampeth M.P.Deo Memorial Science College	B Sc I	10.60%
	(Annual Pattern)	B Sc II	15.2%
		B Sc III	50%

Sr.No	Name of the	Programme	2012-13	2013-14	2014-15	2015-16
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Institute						
Dharampeth M.P.Deo Memorial Science College	B Sc III(Annual)	50%	65%	41%	71%	
	B Sc H Sc I	57%	68%	33.3%	63.15%	
	B Sc H Sc II	61.6%	41%	55.5%	76.93%	
	B Sc H Sc III	100%	88%	42.3%	52.23%	

Sr.No	Name of the Institute	Programme	2013-14		2014-15		2015-16		2016-17	
	Dharampe th M.P.Deo Memorial Science College	B Sc	SE M I	SEM II	SEM I	SEM II	SEM I	SEM II	SE M I	SE M II
			13.4 2%	17.1 %	20.12 %	30.49 %	16.49 %	17.65 %	22 %	

Sr.No	Name of the Institute	Program me	2014-15		2015-16		2016-17	
	Dharampe th M.P.Deo Memorial Science College	B Sc	SEM III	SEM IV	SEM III	SEM IV	SE M III	SE M IV
			25.24 %	31.07 %	28.77 %	38.16 %	23. 28 %	55. 93 %



MERIT LIST

Sr.No	Name of the Faculty	Name of the student	Order of Merit
	Home Science		
1.	2012-13	Apurva Ingole	5 th
2.	2013-14	Anushree Oke	1 st
		Meera Shah	3 rd
3.	2014-15	Avanti Chaphale	1 st
		Shubhangi Khobragade	2 nd

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

As per the current trends, most of our UG students opt for M Sc or MBA courses and then they further proceed for placements or often employment-oriented courses. Very few opt for research and employment so as to facilitate their progression to higher studies we take the following measures:

- Training Placement and Career Guidance Cell designs and executes programmes related to career opportunities in various fields such as IT, Government jobs etc.
- MOU's with industry for placements
- Campus recruitment
- Career-oriented Courses
- Personality and Skill Development Programmes

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

Students who are weak in certain subjects are identified on the basis of their performance in aptitude test, class tests and unit tests. In respect to this view the college takes extra efforts in arranging:

- Remedial coaching for slow learners especially to improve the academic performance of the students.
- Bridge courses for the first year students at the beginning of the session.
- Extra classes and additional practical to understand the concepts.



- Notes are provided and question papers are discussed and students are asked to solve various question papers of previous university examinations.
- The students are instructed to write the answers based on the notes given. These answers are valued by the teachers and the students are advised regarding betterment in the performance.

STUDENT PARTICIPATION AND ACTIVITIES

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

Sr.No	Year	Date	Winners	Running Trophy
	2013-14	15 th January 2014	1 st :Ms. Emon Fukon of Dharampeth Science College 2 nd : S. H. Manlik of Sindhu Mahavidyalaya Consolation: Rushal Patil of Dharampeth science College & Seema Sheikh of S.F.S. College.	Dharampeth M.P.Deo Memorial Science College,Nagpur
	2014-15	28 th January 2015	1 st : Ms. Mahelaqua Haque of LAD College, Nagpur 2 nd : Ms. Sarah Siraj of S. K. Porwal College, Kamptee Consolation: Ms. Manasi Parab (Kamala Nehru College, Nagpur) and Ms. Manju Singh (LAD College, Nagpur)..	LAD College Nagpur
	2015-16	10 th March 2016	1 st :Mr. Bharat Pillay of Santaji Mahavidyalaya, Nagpur. 2 nd :Ms. Nikita Gupta of Sindhu Mahavidyala, Nagpur. Consolation prizes: Ms. Vaishnavi Gharote and Mr. Shahabaz Khan of Dharampeth M. P. Deo Memorial Science College, Nagpur.	Dharampeth M. P. Deo Memorial Science College, Nagpur



	2016-17		1 st Mr.Khemal Chanore of Dharampeth M.P.Deo Memorial Science College,Nagpur. 2 nd Faisal Khan S.F.S College, Nagpur	Mohata Science College, Nagpur
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INTER-COLLEGIATE EVENTS

Dr. Ashok Shekhdar Memorial Intercollegiate Power Point Presentation Competition

Students Participation in Intercollegiate Competitions conducted by various departments

Sr.No	Year	Date	Department/Topic	winners
1.	2012-13	17/12/2012.	Microbiology: Scientific Rangoli competition	1 st : Rushal Patil of Dharampeth science College 2 nd : Ms. Ravita Jain of Sevadal Mahila Mahavidyalaya 3 rd : Ms. Rupali Charlewar of Mohta Science College
		21 January, 2013.	English: Poster Presentation on Topic: 'The Role of Media in Language Learning' and Short Story Writer that inspire you". Photo Article Writing Competition: Winners of the Competition:	1 st : Ms.Nikita Deshmukh Dharampeth science College 2 nd : Radhika Verma Dharampeth science College 1st Prize: Ms.Avanti Chaphale (BS c I), Dharampeth M.P.Deo Memorial Science College, Nagpur. 2 Prize: Ms. Christina Rapheal (B.A. II) Kewalramani KanyaMahavidyalaya. Nagpur).



2013-14	21/01/2014	English: Poster Presentation Competition on the topics: "Indian Writing in English". Photo Article Writing Competition:	1 st : Mr.Rajan Sharma (B.A. II) Shri Niketan Arts and Commerce College, Nagpur 2 nd : Ms.Trushna Awatade , G.S. College of Commerce and Economics 1 st Prize: Ms.Avanti Chaphale (BS c II), Dharampeth M.P.Deo Memorial Science College, Nagpur.
2014-15	23/12/2014	Microbiology: Intercollegiate PPT Presentation Competition,	Team from Institute of Science , Nagpur
2015-16	26/09/2015	Microbiology: Scientific Rangoli Competition	Mr.Mrunal Wagh, DMV, Nagpur.

EXTRACURRICULAR ACTIVITIES ORGANISED BY VARIOUS DEPARTMENTS

Sr.No	Name of the Department	Name of the event
1.	Chemistry	<ul style="list-style-type: none"> Seminar for students of B. Sc.III were conducted on 18 December 2012. Poster competition on environmental pollution was conducted on 14 September 2012 Seminar for students of B. Sc.III was conducted on 26 & 27th December 2013. Poster competition organized for students on the topic "Environmental Pollution and Climate



		<p>Change” 4th January , 2014</p> <ul style="list-style-type: none"> • Poster competition on the theme Green Chemistry: Sustainable Development was conducted on 27th March 2015. • Alchemy arranged student seminar for semester-V. • A ‘Power Point Presentation Competition’ for B.Sc. part III. • Students’ seminar was organized in the month of October, 2016.
	Microbiology	<ul style="list-style-type: none"> • Power Point Presentation competition on 15 December 2012. • Quiz competition:-Final year students of the department organized quiz competition for first and second year students. • In house Power Point Presentation competition on 30th December, 2013. • ‘Bridge Course for B.Sc. Part – I’ 16/06/2017.(For Two weeks). • Poster Presentation Competition on 14/09/2016 • Power Point Presentation Competition in House on 23/02/2017
	Statistics	<p>Stat-Gallery was arranged:</p> <ul style="list-style-type: none"> • Stat-Fest: On 10 January, 2013, Stat-Fest, a festival of Statistical activities was organized. Stat-Fest comprised the following Competitions: <ul style="list-style-type: none"> ○ Stat- Flow: A Flow-Chart Presentation Competition ○ Numero-Stat: A Problem solving Competition ○ Stat-Skill: A Project Presentation



		<p>Competition</p> <ul style="list-style-type: none"> • Seminars on different topics of the syllabus were presented by the students of B. Sc. III students. • 5th March, 2015 a 'Problem Solving Competition: Numero-Stat'. • Mrs. C.P. Cholkar gave a presentation on 'Rangoli' using computer programs in BASIC. Mr. Pushkar Joshi gave a presentation on 'Statistical Maze'. • 'Stat-Vita': A statistical quiz competition was organized on 14th March, 2015. 'Star-Gallery' was also organized on that occasion. • Treasure Hunt: Hunting for the solution of a tricky question using given clues. • Poster Competition: Diagrammatic Representation of any Statistical Data from News Paper. • PPT Competition: Topic- Explanation of any Desired Distribution. • Essay Competition: Topic- Today Statistical Thinking is as necessary as the Ability to Read and Write.
	English	<ul style="list-style-type: none"> • A Poster Presentation Competition was held on 13 August, 2012. The topic was "The Elixir of Life". • A Self-Government Activity was carried out on 9th January, 2013. • A Poster Presentation Competition was held on 25th July, 2015. • An innovative workshop on 'Convert Prose into Poetry' was conducted on 7th August 2015.



		<ul style="list-style-type: none"> • One Week Workshop on 'Grammar Rules' was conducted for B.Sc. H.Sc.- I students on 29th August 2015. • The month of September was declared as the 'Month of Debate'. • A Self Government Activity was carried out on 25th September, 2015. • A 'Story Book Writing Activity' was carried out for B.Sc.- I students. • A workshop on "Listening Skills" was conducted on 3rd February, 2016 for the students of Home Science. • A Workshop on "SWOT ANALYSIS" was conducted on 9th April, 2016.
	Electronics	<ul style="list-style-type: none"> • Power Point Presentation competition was organized on 27 December 2012.
	Faculty of Home Science	<ul style="list-style-type: none"> • Poster and Slogan competition was conducted to celebrate the Breast Feeding Week in collaboration with Nutrition Society of India on 5th August 2013. • Recipe Competition for different age groups specifically for diabetic and, anaemic people was conducted on 3rd September 2013. • Inter-Collegiate debate competition was held in first week of August which is celebrated as Nutrition week. • Under the same banner a guest lecture by Ms. Rujuta Divekar a celebrity dietician was attended by our students along with Mrs Sapna Patil , faculty member.



		<ul style="list-style-type: none"> • UG students participated in ‘Skit Competition’ arranged for them. The students of B Sc II bagged the prize. • Department of Home Science and Indian Women Scientist Association jointly conducted a Cookery Competition on the theme ‘Making of Healthy Snacks’ on the occasion of the World Food Day on the 18th of October, 2014. <p>NUTRITION WEEK</p> <ul style="list-style-type: none"> • On the occasion of Nutrition Week celebration, competition of preparing Novel-recipe out of unknown ingredients was organized. <p>WORKSHOPS</p> <ul style="list-style-type: none"> • ‘Paper Quelling’ and ‘Best out of waste’ workshop was organized for H.Sc students, on 3rd of November 2015. <p>EXTENSION COMMUNICATION TECHNIQUE</p> <ul style="list-style-type: none"> • B.Sc. H.Sc. III students arranged and presented the concept of ‘Ideal Village’ as an activity in progression of the curriculum in the subject Extension Communication Techniques. • Quiz Competition and Poster Making was arranged on Breast Feeding Week. • ‘Diabetic Modem’ an activity for students of 2nd and 3rd year was held at Akola on 28th of August. The students arranged for the exhibits and also prepared Food pyramid. • World Food day 2016 was celebrated on 28th, October in collaboration in IWSA (Indian Women Scientist Association). Poster Competition on the theme ‘Food for Hunger’ was arranged.
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		<ul style="list-style-type: none"> • 4th and 5th of February 2017, a Home Science expo by VijyanBharti titled ‘Kutuhel’ : Unfolding Home appliances was arranged. Students arranged the exhibits and model on the themes of social issues, clinical nutritional assessment, health awareness, education for toddlers and pre-schoolers with suitable teaching aid for their all round development.
	4. Computer Science	<ul style="list-style-type: none"> • Seminar was given by B. Sc I & B. Sc III year students on various topics of the syllabus on 8 August 2015. • Two Day Workshop on ‘Introduction of Hardware and Software Installation’ 13 August 2015. • One Day Workshop on Training and Career opportunities in the field of computer Science 23 September 2015 • A workshop was organized on “Gadget the Career Tool’ on 19/10/2015. During the workshop demo was given to students on “Expert Coaching for Exams” by Rahul Vaidya. • Poster Presentation competition was conducted on 20/10/2015. • Chart Presentation Activity was conducted on 15/10/2015. • Group Discussion for the students of B.Sc III year.



		<ul style="list-style-type: none"> • Skill Development program for Computer Science student was organized on 22nd February 2016. • • Essay Writing Competition was conducted on 03rd March 2016. • Power Point Presentation was conducted on 30th and 31st March 2016. • Debate Competition was arranged on topic “Android Application Is Boon” on 04/04/2016. • The Seminar on “WORLD OF TECHNOLOGY” was arranged on 4 April 2016. • Workshop was assembled on “Writing Scientific Article and Research Paper” on 05/04/2016. • Quiz Contest was organized on 9th April 2016. • Seminar on ‘How to make PPT Presentation’ was conducted on 28 July 2016 • Under Skill Development Program workshop on “Enhancement Of Computer Skills” was jointly organized by Dept of Microbiology and Computer Science from 8th to 12th August 2016 for Microbiology students. • Interdepartmental Activity, Under Skill Development One Week Training Program was organized jointly by Department of Computer Science and Department of Microbiology for students of life sciences from 22 August to 27 August 2016. • Two Days Training Program on “Enhancement of
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		<p>Teaching and Learning through ICT tools” was organized for the faculty members of Home Science</p> <ul style="list-style-type: none"> • Two days workshop on “Computer Networking and Security” on 9th and 10th September 2016 was conducted. • Dr Ashok Shekdar Intercollegiate PPT Presentation Competition jointly organized by Dept of Computer Science and English on 28th September 2016 • Chart Making and Presentation Competition was conducted on 20th August 2016 • PPT Presentation Competition was conducted on 13th September 2016 • Workshop on “OS installation” was conducted for students on 18th October 2016. • Seminar was arranged for Computer Science students on “Animation and Video Editing” by Abhishek Acharya. • Two days workshop was arranged at X-CELLER Company on 1st and 2nd February 2017. • Seminar was given by the B. Sc III year students on various topics of the syllabus in the month of March • Workshop on “Project Development Using Oracle as Front End and Visual Basic as Backend” was conducted. • In-House activity “Error Debugging Competition” was conducted. • A Seminar on “Basic concepts in Java” on 16/03/2017.
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	Zoology	<ul style="list-style-type: none"> • Three days practical workshop as well as Guest Lecture on “Fabrication and setting up of aquarium” was organized from 8 to 10 Oct, 2015. • Zoo Exhibition was organized by Department of Zoology on 4th and 5th of February 2017. More than 500 students of different Schools and parents appreciated the exhibition.
	Physics	<ul style="list-style-type: none"> • One Week Workshop, 'Design, Fabrication and Repairing of Physics Laboratory Equipment' from 6-11 March 2017.

YEAR 2015-2016

1. A team of two students participated in an Intercollegiate Debate Competition organized by India Peace Centre, Nagpur on 12th August, 2015. The topic of the competition was 'Capital Punishment'. Mr. Pranay Malviya and Mr. Vivekanand Jha from BS c-I were the participants.
2. Students participated in 'Machfiesta- 2015" organised by Mechanical Department of Yashwantrao Chavan College of Engineering, Nagpur on 17th and 18th August, 2015. The students who presented posters in the event Fuego Automatico are:
 - a. Mr/.Vinay Mathure BS c-I
 - b. Ms.Ashmika Morey BS c-I.
3. Students participated in "Electrrica 15.0, organised by Electrical Engineering Department of Yeashwantrao Chavan College of Engineering, Nagpur on 14th and 15th August, 2015. The students who presented posters in the event are"
 - a. Mr/.Vinay Mathure BS c-I
 - b. Ms.Ashmika Morey BS c-I
 - c. Ms. Kritikka Rao BS c_I.
4. Intercollegiate Yuva Mahotsav celebrated by Vivekanad Kendra Kanyakumari, Nagpur Branch. Students participated in various competitions:



Sr.No	Name of the Competition	Name of the student/Number of students	Date
1.	Examination Based on Indian Culture	17 students	3 rd September 2015
1.	Elocution Competition	1.Mr.Khemal Chanore 2.Ms.Neha Labhe	4 th September 2015
2.	Power Point Presentation Competition	1.MS.Sneha Padghan	7 th September 2015

5. Mr.Pranay Malviya BS c-I participated in Udaan Ek Jhep..Lets live the dream in association with one of the esteemed newspaper of Nagpur, Tarun Bharat conducted an Intercollegiate APJ Abdul kalam Memorial Orator Competition on 5th September, 2015. The topic of the competition was “Shrimad Bhagwad Geeta should be included in syllabus”.
6. Mr.Khemal Chanore and Mr.Rahul Gaydhane participated in Late Rtn. Dr.P.R.Dharmadhikari Memorial Inter College Debate Competition organized by Rotary Club of Nagpur West at Dharampeth Polytechnic on 8th September, 2015. The topic of debate was, Is religion necessary for human Life?
7. Students of BS c –I participated in various competitions organized by Dr. Babasaheb Ambedkar College of Engineering &Research, Wanadongri, Nagpur.
 - a. Poster Presentation Competition:
 1. Abhay Bhagat and Dhaneshwari Sahare
 2. Hitendra Pawar and Aishwarya Pitale
 3. Sapna Pathade and Pranjal Manwatkar
 4. Akhilesh Sharma and Alok Singh
 5. Nikita Kalbande and Ujama Saiyad
 - b. My Web Page
 - a. Khemal Chanore
8. Students participated in Intercollegiate event “Technotryst: 2015 on 21st and 22nd September, 2015 organized by G.H Raison College of Polytechnic, Nagpur.



Sr.No	Name of the Competition	Name of the students	Date
1.	Power point Presentation	1. Mr.Khemal Chanore 2. Ms. Ravina Dadewar	21 st September,2015
2.	Quiz	1. Mr. Ritesh Singh 2. Mr.Rohit Patel	21 st September,2015
3.	Junk Yard	1. Mr.Khemal Chanore 2. Rohini Chuhan 3. Ms. Sumira Bhure 4. Ms. Ravina Dadewar	21 st September,2015
4.	Junk Yard	1. Mr. Ritesh Singh 2. Mr.Rohit Patel 3. Mr. Pranay Malviya 4. Mr.Vivekanand Jha	22 nd September , 2015

9. Following students participated in the events organised by Lady AmritBai

Daga College of Women of Arts, Commerce and Sceience and Smt. Ratnidevi Purohit College of Home Science and Home Science Technology, Nagpur.

1. Ms.Mayuri Biniwale (BSc II): Vidarbha Level Open Vocal Classical Music Competition
 2. Ms. Madhura Temurnikar (BS c HS c-I) :Inter- Collegiate Light Music Competition
 3. Ms. Asawari Pande(BS c –I) : Late Mr.Abdul Rasheed Khan Annual Inter-Collegiate Urdu Ghazal Competition
 4. Mr.Rohit Patel (BS c –I) and Mr.Ritesh Singh (BS c-I): Dr. S.Iyengar Inter-Collegiate General Knowledge Quiz Competition
 5. Mr.Khemal Chanore (BS c-I) and Ms. Rohini Chauhan (BS c-I): Dr. Shridevi Naidu Inter –Collegiate Debate Competition
 6. Ms.Kanchan Deshmukh (BS c HS c- III) and Ms. Kalyani Lande (BS c HS c- III): National Service Scheme N.S.S. Unit –I organized Inter Collegiate Debate Competition
10. Following students participated in an Intercollegiate Dance Competition “Navrang”



1. Prajakta Puranik
2. Mrunal Wagh
3. Adesh Lokhande
4. Nikita Mundle
5. Komal Hiranwar
6. Nikhil Lad
7. Animaka Shulka
8. Aarti Jamunpani
9. Pankaj Patel
10. Ketki Deogade
11. Snehal Sagane
12. Ashmika Morey

11. Following students won in intercollegiate event “Kalasrujan 2015-16” organized by Dharampeth M.P. Deo Memorial Science College, Nagpur from 3rd November to 5th November 2016.

1. Miss. Sneha Padgnan won 2nd position in Best out of waste Contest.
2. Mr. Mrunal Wagh won 1st Consolation Story Telling Competition
3. Miss. Gayatri Pathak won 1st Consolation in Salad and Flower Decoration Competition
4. Miss. Mayuri ,& Miss. Chandrakala won 2nd in Collage Competition

Students Participation : 2016-2017

1. Following students participated in Idea of India” Youth Thinkers Summit on organized by Samarth Bharat to be held on 7th August, 2016. The names of the participants are:
 1. Mr. Khemal Chanore (BS c –II)
 2. Ms. Poornima Malaye (BS c – I)
 3. Mr. Nayan Lokhande (BS c- I)
2. Ms. Prajakta Puranik B Sc- II and Ms. Neha Labhe B Sc- II participated in Maharashtra Times “SHRAVAN QUEEN” Inter-University Level Personality Contest organized by Maharashtra Times on 12th August 2016.



4. Ms. Mayuri Binniwale and Ms. Aishwarya Pitale participated in State Level "Dwipatri Abhinjay Spardha" organized by Akhil Bhartiya Marathi Natya Parishad ,Thane Branch on 26th August 2016.
5. Ms. Poornima Malaye (B Sc –I)and Ms. Vaishnavi Huddar (B Sc- I) participated in Vidarbha Level Inter – Collegiate Debate Competition "Vaikhari 2016" organized by Nikalas Mahila Mahavidyalaya , Nagpur on 27th August, 2016.
6. Ms. Shruti Baiwar B Sc – I participated in Inter-Collegiate Light Music Singing Competition organized Dadar Matunga Cultural Centre in collaboration with LAD College of Women and Rasoni Group of Institutions held on 2⁶ September, 2016.
7. Ms. Payal Bhagat B Sc-I and Mr. Mrunal Wagh B Sc- III participated in Intercollegiate Essay Competition organized by Dhanwate National College, Nagpur on 27 December, 2016.
8. 17 students participated in State Level Inter University Cultural Festival 'Indradhanush' 2016.
9. Following students participated in Intercollegiate 'Yuvarang 2017' organised by Students Welfare Department of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
 - Light Vocal: Ms.Shruti Baiwar (B Sc-I)
 - Classical Instrumental : Akshat Hedao (B Sc-I)
 - Poetry: Ms.Mayuri Binniwale (B Sc-III)
 - Classical Dance: Ms.Prajakta Puranik (B Sc-II)
 - Rangoli: Mrunal Wagh (B Sc-III)
10. Mr. Shabaz Khan and Ms Ashwairya Kapse Student of B.Sc. Sem-V participated in intercollegiate seminar competition held at Seth Kesarimal College, Kampti Oct. 2016.

5.3.2 Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Achievements of students in co-curricular, extracurricular and cultural activities:

Year	Name of the competition	Name of the student	Award	Organized by



2012-13	Mr. Abhishek K.Singh	Debate Competition held under UDAAN-2013 on Saturday, 12 th October 2013.	First Prize	Tulsiramji Gaikawad-Pa College of Engineering & Technology, Mohgaon, Wardha Road, Nagpur.
	Ms. Roshani Singh	Intercollegiate debate Competition	second prize	Rotary Club of Nagpur West
		Vedh-2013 Intercollegiate Cultural Competition	Rolling trophy	R. S. Mundle Dharampeth Arts and Commerce College, Nagpur
	Ms. Nikita Deshmukh	Rangoli Competition	First prize	
	Ms. Avanti Chafle	Personality Contest	First prize	
	Ms Emon Fukon	Personality Contest	Second Prize	
	Mr. Vijay Soni	Inter-collegiate Power Point Presentation competition	Third Prize	Ambedkar College, Nagpur on 29 December 2012.
2015-16	Ms. Neha Labhe B.Sc.-I	Intercollegiate Elocution Competition	First prize	Intercollegiate Yuva Mahotsav celebrated by Vivekanad Kendra Kanyakumari, Nagpur Branch.
	Mr. Vinay Mathure	Intercollegiate Poster Presentation	First prize	Dr. Babasaheb Ambedkar College of



		Competition		Engineering & Research, Wanadongri, Nagpur.
	Ms.Kanchan Deshmukh Ms.Kalyani Lande Ms.Pranjali Mayuri Binniwale Mr.Ajay Singh Mr.Pranay Malviya Ms.Krutikka Rao Ms.Harshala Walde	Intercollegiate Street Play Competition	Third Prize	Vivekanand Kendra Kanyakumari, Nagpur Branch.
	Mr. Ritesh Singh Mr.Rohit Patel Mr. Pranay Malviya Mr.Vivekanand Jha	Intercollegiate event "Technotrust:	Third (In apti	G.H Raison College of Polytechnic, Nagpur. 21 st and 22 nd September, 2015
	Ms.Kanchan Deshmukh and Ms. Kalyani Lande in	Inter Collegiate Debate Competition	First Consola	National Service Scheme N.S.S. Unit –I, L.A.D College, Nagpur
	Ms.Sneha Padghan	Intercollegiate Poster Competition	Second prize	Dharampeth M.P.Deo Memorial Science College on 21 st January, 2014
	Ms. Razia Taherali	Photo article writing competition	Second prize	Dharampeth M.P.Deo Memorial Science College, Nagpur
2016-17	Ms. Payal, Bhagat	Intercollegiate Essay Competition	Second prize	Dhanwate National College, Nagpur on 27 December 2016
	Mr. Raju Gupta,	Video making	First prize	Indian Women



	Ms. Rinki Tiwari, Ms. Snehil Supriya Ms. Shreya Dongardiwe and Ms. Priyanka Mankar	competition		Scientists' Association , Nagpur Branch and Dr. Ambedkar College, Dikshabhumi, Nagpur
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SPORTS

- The students of our college participated in various R.T.M. Nagpur University and Open tournaments during the session 2012-2013. Total 15 teams (9teams of boys and 6 teams of Girls) and our Senior College students excelled in most OF the events.
- R.T.M. Nagpur University organized Inter-Collegiate Athletics competition. Ku. Avanti Chaphale, B.Sc. I H.S.G. bagged Two Gold Medals and One Silver Medal in Shot-put, Discuss Throw and Javelin Throw.
- Ku. Kiran Shahkar, B.Sc. I won Silver Medal and Bronze Medal in 400 m,& 200 m. Running events.
- In Inter-Collegiate Archery competition Ku. Priya Sarve, B.Sc. II won GoldMedal in 50 m. and Silver medal in 30 m. Archery event.
- Inter-Collegiate Archery comptition Mast. Rohit V. Chaudhari, B.Sc. I won Two Silver Medals in 50 m. and 30 m. Archery every.
- Ku. Avanti Chaphale, B.Sc.I, H.S.G. represented Nagpur University in Ashwamedh (Maharashtra University) 2012-13 in Athletics Shot-Put and DiscussThrow event held at Nagpur.
- Our students Mast. Rohit V. Chaudhar B.Sc. I and Ku. Priya Sarve B.Sc. II were selected for All India Archery competition held at Amritsar.
- This year Mast. Amit R. Singh B.Sc.III was selected as Best Sportsperson ofthe year and Ku. Shraddha Patankar B.Sc. III was selected as Best Sportswoman of the year.

YEAR 2013-14

- Mr. Abhishek K.Singh BS c III was awarded First Prize in the Debate Competition held under UDAAN-2013 on Saturday, 12th October 2013 organized by Tulsiramji Gaikawad-Patil, College of Engineering & Technology, Mohgaon, Wardha Road, Nagpur.
- Late Madhur Shrikant Dahake Memorial Inter Collegiate Debate Competition - Late Madhur Shrikant Dahake Memorial Inter Collegiate Debate Competition was held on 9th



October 2013 in the college. Around The second position was bagged by the team of Dharampeth M.P.Deo Memorial Science College, Nagpur comprising of Mr. Abhishek Singh B.Sc. III and Mr. Navin Patankar B.Sc. III. Mr. Navin Patankar B.Sc. III won the second individual prize of Rs. 1500/--.

- Mr. Abhishek Singh B.Sc. III and Mr. Anikesh Tiwari B. Sc. I participated in the Inter Collegiate Debate organised by the Centre Point College on 4th and 5th October 2013. Mr. Abhishek Singh won special award.
- NSS Volunteer Mr. Rohit V. Gadgil participated in the State Level Adventure Camp held at Chikhaldara from 9th January to 13th January 2014.
- NSS Volunteer Rohit Gadgil participated in the State level Selection Camp for NSS Pre National Republic Day and State Republic Day Parade, organized by Govt. of India, Ministry of Sports and Youth affairs and National Service Scheme Cell, Department of Higher and Technical Education, Government of Maharashtra in Collaboration with NSS cell, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, from 21st to 23rd September 2013.
- NSS Volunteer Mr. Sachin B. Karale participated in 4th Bhartiya Chhadra Sansad organized by MAEER's MIT School of Government, Pune and Bhartiya Chhadra Sansad, Foundation from January 10th to 12th, 2014 at Pune.

YEAR 2014-15

This session (2014-15) R.T.M.Nagpur University, Nagpur and District associations organized various competitions and our college participated and excelled in different Games & Sports. 10 Boys team (Chess, Football, Boxing, Swimming, Kabaddi, Volleyball, Badminton, Basketball, Cricket and Athletics) and 06 Girls team (Badminton, Basketball, Chess, Langadi, Archery and Athletics) participated in this competition. We also participated in Dr.Panjabrao Deshmukh Krida Mahotsav

2014-15.

This year we have 06(six) Color Holder players.

- **Mr. G. Rajesh B.Sc.I** secured Bronze medal in High-Jump event in Maharashtra state Annual Athletics Championship held at Pune on 15-18 August 2014. In Ashwamedh selection trials he bagged Three Gold medals in 100mts, 200mts and High Jump events respectively and represented R.T.M.Nagpur University Nagpur athletics Boys team in Maharashtra State Inter-University Ashwamedh 2014-15 held at Aurangabad. And also bagged Three Gold medals in 100mts, 200mts and High Jump events respectively in the



Inter-collegiate Athletics meet 2014-15 organized by R.T.M.Nagpur University Nagpur and qualified for the All India Inter-University Athletics meet 2014-15 held at Mangalore. He also awarded as a 'Best Male Athlete 2014-15 of R.T.M.Nagpur University Nagpur'.

- Ku.Kiran Shahakar B.Sc.III won Two Gold Medals in 100 mts & 200 mts and a Silver medal in 400 mts. running events in Ashwamedh selection trial and represented R.T.M.Nagpur University Nagpur athletics Girls team in Maharashtra State Inter-University Ashwamedh 2014-15 held at Aurangabad and also secured One Gold and Two Bronze medals in 100mts, 200mts and 400mts running events in Inter-collegiate Athletics meet 2014-15 organized by R.T.M.Nagpur University Nagpur.
- Ku.Avanti Sanjay Chaphale B.Sc.III(H.sc) bagged Gold medal in Discus Throw and Bronze medal in Shot-put event in Ashwamedh selection trial and represented R.T.M.Nagpur University Nagpur athletics Girls team in Maharashtra State Inter-University Ashwamedh 2014-15 held at Aurangabad. She also won Gold medal in Discus throw and Silver medal in Javelin throw in Inter-collegiate Athletics meet 2014-15 organized by R.T.M.Nagpur University Nagpur.
- Mr. Roshan Rohikar B.Sc.I won Gold medal in Tripple Jump event in Ashwamedh selection trial and represented R.T.M.Nagpur University Nagpur athletics Boys team in Maharashtra State Inter-University Ashwamedh 2014-15 held at Aurangabad and also represented Nagpur District Athletics team in Maharashtra State Annual Athletics Championship held at Pune in 2014.
- Mr.Kunal Dasarwar B.Sc.I represented Nagpur District Badminton Team in Maharashtra Senior Inter District & State Badminton Championship 2014 held at Latur, also represented to Nagpur District Team in Maharashtra State Level Tournament held at Chembur Gymkhana Mumbai. And also represented R.T.M.Nagpur University Nagpur Team in West-Zone Inter-University Badminton competition held at Bhopal in the month of November 2014.
- Mr.Akshay Muley B.Sc.II performed excellently and won Bronze medal in 20 km Walking event in Inter-collegiate Athletics meet 2014-15 organized by R.T.M.Nagpur University Nagpur also won Two Gold Medals in Javelin throw and 5 km walking events in District level Annual athletics selection trials held at Nagpur.
- Mr. Pujjam Bansod B.Sc.I represented R.T.M.Nagpur University Nagpur in West-Zone Inter-University competition held at Gandhinagar, Gujarat in the month of October 2014.



- Mr. Pradip Dwivedi B.Sc.II won Silver medal in Inter-collegiate Boxing competition weight category 75-81 kg. Organized by R.T.M.Nagpur University Nagpur.
- Mr. Shashi Rai B.Sc.II won Bronze medal in shot-put event in Inter-collegiate Athletics meet 2014-15 organized by R.T.M.Nagpur University Nagpur.
- Ku.Tewjaswini Gawande B.Sc.II good perform in R.T.M.Nagpur University Nagpur Inter-collegiate Chess tournament 2014-15 and scored 4.5 points out of 6 and selected for Chess selection trials.

YEAR 2015-16

SPORTS

- 1) Mr.Kunal Dasarwar B.Sc.II represented Nagpur District Senior Team in Maharashtra State Senior Championship held at Nanded on 14-17 July 2015. Also represented to Nagpur District Team in Maharashtra State Level Tournament held at Chembur Gymkhana Mumbai on 29th August – 02 October 2015. Kunal is the team player of R.T.M.Nagpur University, Nagpur, Badminton Team and participated and is a Runner-up of West-Zone Inter-University Badminton tournament held at Gwalior on 12-14 October 2015 . He also qualified for the All India Inter-university Badminton Championship on 16-19 October 2015 after a long period of 8 years
- 2) Mr. Pujjam Bansod B.Sc.II represented R.T.M.Nagpur University Nagpur in West-Zone I Championship held at Aurangabad on 1st October to 4th October 2015.
- 3) Mr. Shashi Rai B.Sc.II won Two Bronze medals in shot-put & Discus Throw event in Inter-collegiate Athletics meet 2015-16 organized by R.T.M.Nagpur University Nagpur.
- 4) Mr.Akshay Muley B.Sc.II had taken excellent efforts and won Gold medal in 20 km Walk in Inter-collegiate Athletics meet 2015-16 organized by R.T.M.Nagpur University Nagpur also Javelin throw in District level Annual athletics selection trials 2015 held at Nagpur.
- 5) Mr.Yash Tambekar B.Sc.I won Silver medal in U/19 State Fencing Championship in the open category held at Nashik on 17-19 December 2015.



- 6) Mr. Mayur Sawarkar B.Sc.I won Silver medal in U/19 State Fencing Championship in the Nashik on 17th -19th December 2015 and participation in 3rd youth Maharashtra State F held at Solapur on 07th -09th August 2015.
- 7) Mr. Roshan Rohikar B.Sc.II won Gold medal in Triple Jump event U/18 in District le selection trials 2015 held at Nagpur.
- 8) Mr. Akhil Gaigowal B.Sc.I won Gold medal in Triple Jump event U/20 in District le selection trials 2015 held at Nagpur. █

Best Sportsman year 2015-16

Shashi

Prakash

Rai

(Football, Athletics, Volleyball)

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The college has a system whereby students give general feedback online Feedback is also obtained on:

- Learning Resources and Teachers quality
- Canteen facility
- Infrastructural facility and Sports facility

5.3.4. How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications / materials brought out by the students during the previous four academic sessions.

- The college publishes an Annual magazine “Asmita” exclusively for students’ publications. Essays, articles, poems and other creative outputs in English, Hindi, Marathi and Sanskrit language are included in the magazine. It also comprises the record of student’s activities, their participation and achievements. The editorial board consists of students from all the years who painstakingly collect and screen the material for publication. Cover page design contest is conducted to get the students inputs regarding the designing of the magazine.
- The annual magazine of Alchemy, Association of Chemistry department of the college annually publishes a scientific magazine “Pearls”. It contains articles and papers of the students on varied topics.



- This year Mr. Akshat Hedao (B Sc- I) is College club reporter of the esteemed daily “The Maharashtra Times”. The reports of the activities of the college are written by him and published in the aforesaid newspaper.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding?

The selection of “Student Council” is as per provisions of Section 40(2)(b) of the Maharashtra University Act, 1994. The composition of “Student Council” is as follows: Principal, Senior Teacher, Teacher In-Charge of NCC, NSS programme officer , Director of Sports and Physical Education, one student from each class with academic merit at the examinations held in the preceding year and engaged in fulltime studies in the college (nominated by the Principal), one Student each (nominated by the Principal) showing outstanding performance in Sports, NSS, NCC and Cultural Activity, two female students nominated by the Principal (SC/ST/NT/DT-NT/OBC). The function of the Student Council is to maintain overall discipline on the campus, work as a facilitator between the students and the college and coordinate all the extracurricular activities and annual cultural event of the college.

The Students’ Council organizes Annual Cultural and Sports Week. The details are as follows:

YEAR 2012-13

Swami Vivekanand Cultural and Sports Week: A Cultural and Sports Week was celebrated from 19 to 24 January, 2013 which was dedicated to the memory of Swami Vivekanand on account of Swamiji’s 150 birth anniversary year. During this week Sports events like Carrom , Chess , Cricket and Football and Cultural Events like Rangoli ,Mehandi , Flower arrangement, Salad decoration and Handwriting competitions were arranged . An excerpt from the lecture of Swami Vivekanand was dictated to the students. 'Rangarang' a singing and dancing competition was also organized. Swami Vivekanand Art gallery was arranged by the students in which various artistic articles made by the students were displayed.

YEAR 2013-14

Annual Cultural Week, ‘ Goonj 2014’: Cultural week was organised from 16th to 23rd January, 2014. The cultural activities commenced on 21st January with the Rangoli Competition and Mehendi



Competition. An art gallery and fete wa arranged by the students of Home Science faculty.

The main attraction of the Goonj was the orchestra, 'Swaranandwan' presented by the physically challenged members of Padmabhushan Late Baba Amte's, ' Andanwan', Warora. There were around 100 artists in the orchestra who presented songs, dances and mimicry. A Skit, 'Swarga dot com', was presented by the students of the college which was written and directed by Mr. Nikhil Edlabadkar of the college. Dance Competition which was judged by Panditji Shri. Vyas and Mrs. Sujata Ali. Performance by Puneet Kushvaha Gaurang and the troop of Jallosh Band.

Sr. No	Name of the Event	Names of the first Winners	Names of the Runner up
1.	Rangoli Competition	NIKITA DESHMUKH	<ul style="list-style-type: none"> • YAMINI JIOTODE • ANKITA PAWAR
	Mehendi	YAMINI JIOTODE	<ul style="list-style-type: none"> • NIKITA DESHMUKH • DIVYATA WANI
	FETE COMPETITION FIRST PRIZE:	KAJAL JAISWAL.	<ul style="list-style-type: none"> • KOMAL DONGRE. • AVANTI CHAPHALE AND ANKITA PAWAR
2.	Singing competition	ANIRUDHA KOMERWAR	<ul style="list-style-type: none"> • MEENAKSHI SHIVKUMAR. • KANCHAN DESHMUKH
3.	Dancing competition	FIRST PRIZE SOLO: ASHWINI WANJARI	-
4.	Dancing competition (Group/Duet)	DANCING DREAMERS. FIRST PRIZE DUET:DESI DUETS.	



Annual Cultural and Sport week ‘ANTARANG 2014-15’

Sports and Cultural week under the banner of ‘Antarang 2014-15’ was celebrated from 3rd to 4th February, 2015. Competitions like poem Recitation competition, Personality competition, Mehendi Competition, Rangoli Competition, Flower Decoration Competition. Sports events include indoor and outdoor games like Cricket, Carom, Volley Ball, Chess etc. were also organized on 2nd and 3rd February, 2015. On 4th February cultural programmes like Singing, Dancing were organized.

Annual Cultural and Sport week ‘JALLOSH 2015-16

Students’ Council Sports and Cultural Event “Jallosh 2015-16” from 18th March to 23rd March 2016. The Cultural event was inaugurated on 22nd March 2016 at the hands of Dr.Puranchandra Meshram, Registrar, Rashtrasant Tukadoji Maharaj Nagpur University Nagpur. The Valedictory Programme of the event was held on 23rd March 2016. Dr.Anil Hirekhan, Finance and Accounts Officer, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur was the Chief Guest and Mrs. Medha Nandedkar, Joint Secretary; Dharampeth Education Society was the President of the function.

The competitions and the winners of the Cultural Activity are as follows:

Sr. No	Name of the Event	Names of the first Winners	Names of the Runner up
1.	Rangoli Competition	Mrunal Wagh (BSc-II)	Kiran Chauhel
2.	Singing competition (Solo)	Ms.Asawari Dange (B.Sc. –I)	Mr. Bhushan Khawse (BSc-II)
3.	Singing competition (Duet)	Ms.Neha Labhe (BSc – I)and Ms. Asawari Dange (BSc – I)	-
4.	Dancing competition (Solo)	Prashant Patil (XI)	Prajakta Purani (B.Sc. –I)
5.	Dancing competition (Group/Duet)	Mrunal & group	PCM group
6.	Poster	Rakhi Patel(BSc-III)	Shweta Kamdi (BSc-II)



Annual Cultural and Sports Week 'EXPRESSIONS' 2016-17

Students' Council Cultural Event "Expressions 2016-17" from 18th October to 23rd October 2016.

The sports event was inaugurated at the hands of Dr. Akhilesh Peshwe, Principal of the college. The competitions and the winners of the Cultural Activity are as follows:

3 DAYS Collegiate	Sr. No	Name of the Event	Names of the first Winners	Inter Event:
	1.	Rangoli Competition	Mrunal Wagh (BSc-II)	
	2.	Singing competition (Solo)	Male: Akshat Hedao(B Sc-III) Female: Shruti Baiwar(B Sc-III)	
	3.	Singing competition (Duet)	Ms. Mayuri Binniwale(B Sc –III) Mr. Akshat Hedao(B Sc-III)	
	4.	Dancing competition (Solo)	Ms. Prajakta Puranik (B Sc –II)	
	5.	Dancing competition (Duet)	Mr. Mrunal Wagh (BSc-II)	
	6.	Dancing competition (Duet)	Mr. Mrunal and Group	

"KALASRUJAN 2015"

An Intercollegiate event "KALASRUJAN 2015-16" from 3rd to 5th Nov, 2015. On 3rd November, 2015,

The details of the competitions are as follows:

Date	Name of competition	Judges Name	Winners Name
3 rd Nov	Quiz Competition		1 st Miss. Anagha Wankhede & Mr Roshan Gede (Hislop College) . 2 nd - Mr. Hrishikesh Ghangrekar & Mr. Abhishek Ambulkar.(Ramdeobaba College)



			<p>of Engineering)</p> <p>3rd- Mr. Shrirang Sapre & Ashwin Rang.(Dr.Babasaheb Ambedkar College of Law)</p> <p>3rd- Mr.Prasun Shukla & Miss Divya Manihar.(G.S.College of Commerce and Economics)</p>
3 rd Nov	Best out of waste Contest	<ul style="list-style-type: none"> • Mr.Prathmesh Deshpande • Dr.Mrs. Vijaya Katkar 	<p>1st Mr. Vaibhav Vadichar (Dharampeth Polytechnic)</p> <p>2nd Miss. Sneha Padgnan (Dharampeth College.)</p> <p>3rd Miss. Malvika Dharmadhikari(Upper L.A.D)</p> <p>1st Consolation- Miss. Rohini Sakharkar (Dharampeth Polytechnic)</p>
4 th Nov	Story Telling Competition	<ul style="list-style-type: none"> • Dr.Mrs.Vandana Nasery • Mrs.Anjali Nagapurkar 	<p>1st Mr. Nagesh Ingale (Hislop College)</p> <p>2nd Miss. Puja Savlani (Sindhu College)</p> <p>3rd Mr. Parel Fernandis (S.F.S College)</p> <p>1st Consolation –Mr. Mrunal Wagh (Dharampeth Science.)</p>
4 th Nov	Salad and Flower Decoration Competition	<ul style="list-style-type: none"> • Mrs.Sakshi Bhusari • Mrs.Sushma Saraf 	<p>1st Mr. Twinju John(S.F.S College)</p> <p>2nd Miss Priyanka Malke (G.S College)</p> <p>3rd Miss Malvika Dharmadhikari (Upper L.A.D College)</p> <p>1st Consolation-Miss. Gayatri Pathak (Dharampeth Science College)</p>
5 th Nov	Cover Page Design Contest	<ul style="list-style-type: none"> • Miss.Aparna Rajvaidya • Dr.Seema Ubale 	<p>1st Miss. Sneha Padghan(DharampethCollege)</p> <p>2nd Mr. Suraj Yadav (G.S College)</p> <p>3rd Mr. Vinay Mathure (Dharampeth Science College)</p> <p>1st Consolation- Mr. Mayuri</p>



			Rodge(Dharampeth Science College)
5 th Nov	Collage Competition	<ul style="list-style-type: none"> • Mrs.Sarang Mhaske • Dr.Mrs.Archana Kulkarni 	1 st - Miss. Pinky Lavani & Miss. Shravni Pathak(Sindhu college) 2 nd - Miss. Mayuri ,& Miss. Chandrakala (Dharampeth Science College) 3 rd - Miss. Rupa Singh & Miss. Akansha Ganar (L.A.D College) 1 st Consolation- Miss. Priya Lalvani, & Miss. Rashi Bodle(Sindhu College)

5.3.6. Give details of various academic and administrative bodies that have student representatives on them.

Student representation and participation has been an integral part of academics as also of the various activities of the college. Student representation is on the following committees

- Academic advisory body
- Administrative advisory body
- Students' Quality Assurance Cell
- Internal Quality Assurance Cell
- Anti-Sexual Harassment Cell
- Students' Council
- Cultural Committee
- Magazine Committee
- Grievance Redressal Cell
- Departmental Associations
- Rotaract
- Sports Committee
- Anti –ragging cell
- NCC Unit



5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

The Alumni Association of our college meets regularly on the college premises. The college makes its premises available for get together and other functions of the Alumni Association. The college makes a conscious effort to encourage the present students to join the Alumni Association and also provides communication details of the present and past students to the Alumni for further correspondence. Many of the past and present faculty members are also the members of the Alumni Association. They are also invited as judges for the competitions and as Chief speakers for events. They are invited for important events like National and International level academic events like conferences and seminars.



CRITERION VI : GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Every institution is known by its personality, thrust areas and quality of teaching that bear a distinct stamp. Our college believes in giving whole – some education to the learner. The vision and mission of the institute are as given in criteria – I

a) Vision statement : The vision of the institute is to develop global talent through quality and affordable education. To produce thriving, determined and vibrant population of youngsters well equipped to move into the knowledge society. To prepare student for wide spectrum of position and profiles in various field. The institution has a vision of a new world in which relationships are governed by the spirit of liberty and equality. We strongly believe that the students can contribute a lot towards National development and as such emphasis is towards achieving balance not only between body and spirit but also in the intellect and emotion. The college is conscious that it will have to address the challenges thrown upon by the fast changing environment and new pattern of education which includes empowerment of the students through programmes that enhance knowledge, creativity, information and relevant skills of the students. The college strives to inculcate and encourage learners to become self-reliant by giving necessary thrust on enhancement of efficiency of our students through teaching-learning methods and also through implementation of some short-term programmes.

- The college aims at developing a scientific temper, modern outlook and love for the motherland, imbibing culture, heritage and traditions besides developing global talent by imparting quality and affordable education.
- The efforts of the college are towards producing thriving, determined, creative and vibrant population of youngsters, well - equipped to move into the knowledge society with confidence.
- To improve self confidence and creativity through participation and involvement in co-curricular activities so as to prepare students for wide spectrum of positions and profiles in various fields.



b) Mission statement:

To nurture the obvious and identify the unseen and undiscovered talents of the students to turn them towards the success path. To give more than the curriculum so as to enrich the academic experience of the learners. To provide an ambience which will help the students to keep their focus on studies and build relationships with their peers. Our mission is to provide quality education to the students. The institution embarks on the mission of creating individuals who are confident about their potential, diligent to work towards the goal, sensitive to their environment and above all co-creators of their own destiny. We are dedicated to serve the society to ensure vast synthesis of knowledge with harmonious perfection. The mission of the college is to provide a good academic ambience, give the students more than the curriculum and serve selflessly towards the cause of human excellence especially in character - building, and personality development by providing platform to the students through which their undiscovered talents are identified.

Goals and Objectives:

Apart from providing quality education to the students in the field of Science and Home Science the college has certain set goals towards which it is moving with participation of all its components. The main objectives are:

- To groom the students so that they are able to navigate successfully through the curriculum and to inculcate scientific and rational attitude and also to enable them to acquire the capability to progress within and beyond their potentials.
- To provide opportunities for personality development of the students through the activities that are focused on boosting their IQ, EQ and SQ so as to develop free and fearless thinking in the students leading to their intellectual and moral maturity and to bridge the gap between educational and social needs.
- To instil in the students a sense of belonging and infuse a spirit of love for their College, City, Nation and Mother Nature and prepare them as responsive and responsible citizens.
- To make students aware of their social and moral responsibilities and their role in nation building in order that they become strong, self-reliant and socially sensitive citizens of tomorrow.

c) The following characteristics of the institution are reflected in the vision and the mission statement:

- Adequate and well maintained infrastructure
- Multiple choices in UG programs
- Highly qualified and experienced teaching faculty
- Co-education
- Sprawling campus
- Well equipped laboratories
- Research facilities
- Use of ICT in teaching-learning and administrative process
- Freedom to participate in extracurricular and sports activities



- Academic extension activities to nurture the scientific temper
- Transparency in administration
- Well maintained campus discipline

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

In the design and implementation of the quality policies and plans, the following hierarchy is maintained. The Principal and the faculties are committed and ever supportive through the Local Management Committee (LMC), the College Council, the Council of Heads and the IQAC

- **Role of the Parent Management:** LMC is formed as per the Maharashtra University Act under section 85, where the President and the office bearers of the parent management are the members of the LMC, and the management representatives are also on the IQAC, the Purchase Committee, and the Building Committee.
- **Role of the Principal:** The role of the principal is multi-dimensional. The principal is the academic and administrative head, the secretary of the LMC, the chairman of IQAC, the Council of Heads and the College Council, which is formed as per the Ordinance no. RTM Nagpur University, Nagpur
- **Role of the Faculty:** Three teachers and one non-teaching representative are elected on to the LMC; senior teachers are members of the IQAC, the UGC planning Board, the Building committee, the Research Committee, the Purchase committee and the Council of Heads. All teachers are members of the College Council and are also on different academic and administrative committees.

6.1.3 What is the involvement of the leadership in ensuring:

- The policy statements and action plans for fulfillment of the stated mission :
 - Formulation of action plans for all operations and incorporation of the same in the institutional strategic plan
 - Interaction with stakeholders
 - Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
 - Reinforcing the culture of excellence:
 - Champion organizational change
- The members of the parent management actively participate in policy decisions, the formulation of action plans and their implementation, in LMC meetings and in reviewing the overall progress.
 - The principal as the head of the institution bears the responsibility of the smooth functioning of the college, in consultation with the IQAC, the college council, the council of heads with a view to strengthen the culture of excellence. He designs the quality plans and policies, the budget, the audited statements and gets it approved in the meeting of the LMC.
 - The action plans include plans for the improvement of teaching-learning, floating of new programs and providing infrastructural support for the departmental initiatives, research, support services, library and the use of ICT in all transactions, and are targeted towards attaining the college vision and the mission. The entire process involves all the units of the institution.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

- The academic and administrative policies which are planned by the LMC are monitored and reviewed at regular intervals through the IQAC.
- Academic Audit is conducted to monitor the teaching-learning process.
- As and when the need for introducing new courses arises, discussion is held in the staff council and the same is placed before the LMC for approval.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

- The top management provides the freedom to the faculty to develop the academic leadership and administrative environment, by giving them a free hand to work as conveners, secretaries and/or members of the organizing committees of various academic events organized in the college, as also to work on various academic bodies in university and other governmental bodies.
- The top management also assigns various responsibilities in relation to academic leadership to the



principal, all members of the Council of Heads, the IQAC Coordinator and its members, and the conveners of the various academic committees.

- Senior faculty members have been given the responsibility of heading their respective departments.

6.1.6 How does the college groom leadership at various levels?

- The college authorities provide freedom and opportunities to the faculty members to plan and implement the various academic, extracurricular and extension activities, through various committees, which helps to enhance and maintain the quality at all levels. Many of the faculty members being on the various bodies of the university such as the Academic Council, the Boards of Studies, Chairman BOS and members of Special task force do get an opportunity to improve their leadership qualities.

- Student leadership is groomed through the Students' Council, which is formed every year as per the Maharashtra University Act, under the provision of the section 40(2) b.
- The student representatives are nominated on various academic and extracurricular committees related to the students.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

- Under the supervision of the principal the college authority provides complete autonomy to the heads of the department in planning and implementation of the teaching-learning plans, research, extension events and student related academic and extracurricular activities.

- The budget is allotted through the principal as per the need of the respective departments and according to programs.

- Autonomy is given to the departments to utilize the allotted budget as per the requirement.
- Decentralization of work and/or governance through more than 25 various committees.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management. Yes, the college promotes the culture of participative management at following levels.

- Teaching and non-teaching staff are the members of the LMC.
- All faculty members have the freedom to involve themselves in the decision making process during the meetings of the College council, the Council of Heads and the IQAC and as members and/or conveners of the various committees.

- Active role of the IQAC members in the management of academic events organized in the college.

- Students actively participate in various activities as a part of SQAC and the Students' Council.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

- Yes.
- The college has distinct quality policies targeted towards achieving the goal and the mission of the institution.
- The IQAC too has developed some quality policies through the involvement of all stake holders.
- The quality policies are reviewed every year during the meeting of the staff Council, HODs meetings, the IQAC and the LMC.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, the college has a perspective plan that can be defined as below:

The following aspects are considered in the perspective plan for the general development of the institution.

- To start new programs if, any.
- To develop the infrastructure and other facilities as per the need.
- To promote extensive use of ICT in all academic and administrative transactions.
- To encourage all stakeholders for active participation in events and activities reflecting the social responsibility.



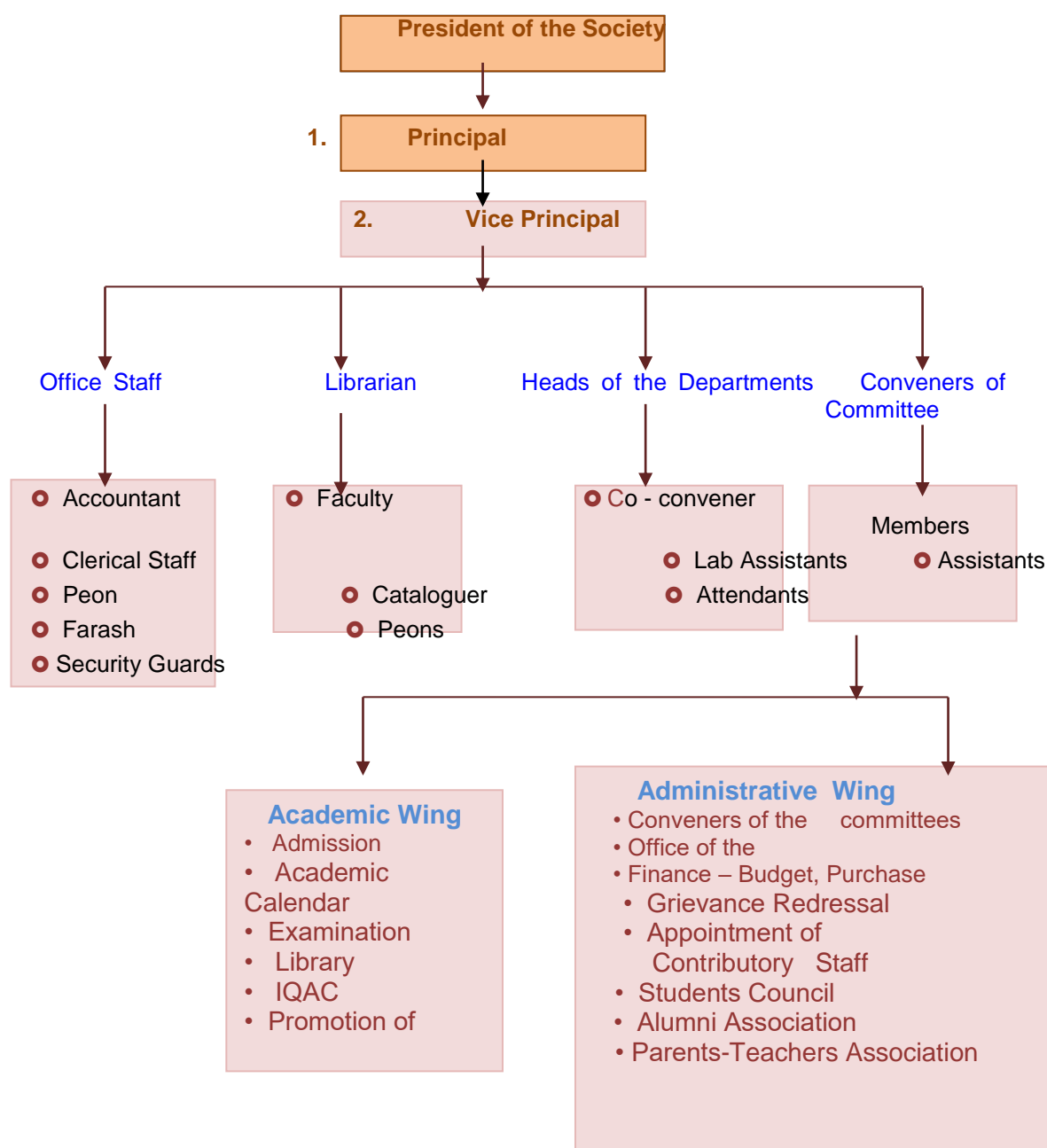
- To provide facilities to students to encourage their participation in extra and co- curricular activities.
- To develop green campus.
- To establish linkages with other institutions and form MoUs for research and other academic activities.

6.2.3 Describe the internal organizational structure and decision making processes.

- Internal organizational structure:

In order to cope with the changes, challenges, constraints and opportunities met from time to time statutory bodies have been supplemented by functional bodies for streamlining participation of the staff members.

- The organizational structure consists of statutory body LMC and non- statutory Committees and Cells constituted by the institution. Management is represented by the nomination of 6 **members** on LMC.
- Principal along with the other members of the Management and various sub- committees constituted by the management, take the decision in the best interest of the institution.
- There is a good rapport and team work among the Management, Principal and all the staff members.
- The policies and practices of institution in the matter of infrastructural development, faculty recruitment, and finance management, purchase of major items and evaluation of staff performance are monitored by Local Managing Committee.
- Important academic activities such as research and extension activities are discussed and planned in the meetings of the faculty with the Principal.
- The institution has developed its own organizational mechanism for monitoring the academic, administrative and co-curricular aspects. These are coordinated through different committees comprising staff members.
- The organizational structure and functions follows the hierarchical structure. It is represented as flow chart , given underneath :



- **Local Management Committee (LMC):** The president of the parent management as its chairman, the principal as its secretary, one member from among the members of the parent management, three experts nominated by the parent management, three teacher representatives, and one non-teaching staff representative, constitute the Local management Committee.
- **Staff Council:** The principal is its Chairman and all regular faculties are its members.
- **IQAC:** The principal is its Chairman, a senior faculty is nominated as its coordinator and member secretary, five faculty as members, one representative of the executive council of the parent management, and one member as an expert nominated by the principal from outside the college and a member of the Alumni Association.
- **HODs:** It consists of all the Heads of the departments as its members and the principal is its chairman.



- **Students' Council:** The principal is its chairman, one faculty member nominated by the principal, one student from each class who has shown academic merit in UG and PG, one student representative each from NSS, NCC, sports and cultural fields, two lady representatives and a General Secretary who is elected from among the student representatives.

• **Decision Making Process:**

- The quality enhancement plans, the financial policies and implementation policies are decided by the LMC.
- The decisions regarding the academic activities are taken in the staff council which are subject to approval of the LMC.
- The IQAC plans and suggests the process for implementing the various academic activities.
- The extracurricular activities are planned in consultation with the Students' Council.
- Departmental academic and research activities are planned by the respective head of the department.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

Teaching & Learning:

- The teaching schedule (Time Table) is prepared at the beginning of the session and is implemented.
- Academic teaching plan is maintained.
- ICT and other teaching aids are employed in the teaching-learning process.
- Library stores the most recent books, reference volumes, periodicals, journals and e-resources.
- Well equipped laboratories.
- Learners' performance is assessed through continuous evaluation process such as unit tests, assignments, seminars and projects.
- Remedial coaching classes are conducted for slow learners.
- The Academic Audit is conducted by IQAC and suggestions are implemented.
- Organize science popularization programs and other scientific events.
- Promote the faculty improvement through refresher courses, orientation programs, and short term courses.

Research & Development:

- Establishment of MoUs and Collaborations with various institutes and industries.

Community engagement:

- NSS and NCC units of the college plan the various community programs in which the students actively participate.
- The faculty members actively participate in social programs for community development and are working with NGOs.
- The state government rules, regulations and reservation policies are strictly adhered to during the recruitment of teaching and nonteaching staff.

Industry interaction:

- College extends full support and gives a free hand to establish the collaboration with industry for the exchange of information for providing training to the students.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The annual report of all administrative and academic activities is placed before the LMC for discussion, suggestions and approval.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

- Study leave and duty leave granted for academic work.
- The teaching and nonteaching staff is felicitated for special achievements and / or for their 25 years of service, and felicitation on retirement.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of



implementation of such resolutions.

• In the academic year 2012 -13, In the Local Management Committee (LMC) meeting following resolutions were considered.

- 1) To approve the annual LMC report to be submitted to the parent society.
 - 2) To approve the leave of the teaching and non-teaching employees.
 - 3) To approve the appointments of fix-pay and contributory teachers.
 - 4) To approve the promotions of teachers under Career Advancement Scheme.
 - 5) To approve the time bound promotions of non-teaching staff.
 - 6) To approve the staff justification made by Joint Director H.E.,
 - 7) To approve superannuation of staff.
 - 8) To approve the list of material to be written-off.
 - 9) To approve the audited statement of receipts and expenditure of the financial year 2012-2013.
 - 10) To approve the revised budget statement of 2013-14 and the proposed budget of 2014-15.
 - 11) To approve the received and balance grants received from the state government.
 - 12) To approve class wise and subject wise position of the admitted number of students for the year 2012 - 13 .
 - 13) To approve the class wise and subject wise university results of students for the year 2012-13.
 - 14) To approve the tentative schedule of the academic activities in 2013- 14.
 - 15) To review the ongoing construction from management fund and the UGC funds.
 - 16) To approve the construction in progress, from the parent management funds and UGC funds.
 - 17) To approve budget for the proposed constructions.
 - 18) To approve the proposals of the Purchase Committee for the purchases during the year 2013-14.
- The above mentioned resolutions were passed in the LMC meeting and were implemented.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution?

• No

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

• No

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

- Yes, the Feedback Committee collects the students' responses on the institutional performance through well structured questionnaire, on various aspects such as curriculum, teaching-learning process, library, sports, NCC, NSS and other facilities.
- ICT is used in analyzing the feedbacks and the suggestions received are placed before the head of the institution for corrective measures from time to time.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- The college authorities permit and encourage faculty members to participate in various professional development programmes such as FIP, refresher courses, orientation courses, training programs and short term courses.

FIP : FIP was sanctioned to Mrs V. V. Rangari , Assistant Prof. Electronics Deptt in the year 2013-2015

Refresher course : completed by dr. D. B. Jadhao, Dr. K. S. Moon, Dr. Mrs. V. P. Meshram, Dr. K M Paturkar, Dr. V. V. Rangari, Dr. S. A. Deshpande, Mr. P. T. Humane and Mr. N. P. Gaikwad in the last five years

Orientation course : Dr. K. M. Paturkar

Training Programme : Dr. D. B. Jadhao, Dr. K. S. Moon, Dr. V. P. Meshram, Mrs. V. V. Rangari and Dr. P. T. Humane

- During last five years, faculty members have attended the refresher courses and most of them have attended orientation courses and completed their short term training programs.
- During last five years, 10 faculty members delivered invited talks, chaired sessions and delivered guest lecturers in various academic events.
- non-teaching staff members were deputed to attend trainings on scholarships and online administration



program.

- Two training workshops were conducted for developing the professional skill of the nonteaching staff from the colleges of parent management.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Dr. P. W. Ambekar was deputed to undertake pre-commission training at Officers training Academy, Kamptee, Faculties were encouraged to participate in Indian Academy of Sciences sponsored programmes like summer research fellowship programme, Academy's Refresher courses and scientific meets, etc.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- The performance appraisals of teaching staff are collected at the end of every academic year through the format introduced by RTM Nagpur University and are evaluated by IQAC for further processing. Prior to this, a regular self appraisal format of the university was used and is considered for CAS.
- Self appraisals are considered for confirmation and promotion by the management through the LMC.
- Performance evaluation of nonteaching is evaluated the Proforma issued by the respective head of the department and the principal which are later communicated to the management.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

- The head of the institution communicates orally to the concerned employee whose performance is found to be below average.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- GLIC
- Loan facility through Dharampeth College Credit Cooperative Society, and other nationalized banks, (Bank of Maharashtra and Shriram Bank)
- Medical reimbursement by State Government.
- LTC scheme as per the state government norms.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The management maintains absolutely fair policies in terms of selection process and hiring of candidate. Selection is in merit based and as per Government provision. We provide ample opportunity and support to our faculty members to develop their academic career.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The detailed budget is prepared and approved by the LMC and agreed to by the principal.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

- **Internal Audit:**-The yearly internal audit is conducted by a Chartered Accountant appointed by the parent management and is approved in the LMC.
- **External Audit:**-Yearly audit is conducted by agencies deputed by the state government such as, the Senior Auditor and the Accountant General of Maharashtra State.
- There were no major audit objections.
- The compliance on some of the minor objections was made by the institution.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

- The major sources of institutional funding are Grant –in –aid received from, the State Government, for salary and non-salary expenditure of grantable section..
- The college is also entitled to utilised some part of student fees, as per rules, for meeting routine non-salary expenses.
- For self-finance courses the major source of receipt is Student's Educational Fees and the deficit is managed by DES.



• College also received UGC plan development grants for several co-curricular and extracurricular activities and instruments, books and journal purchases for UG.

Audited income and expenditure statements will be made available during NAAC – Peer team visit.

• The details of audited income and expenditure statement of academic and administrative activities of the previous five years is as furnished in

Additional Funding and the Utilization of the Same.

1.) Additional Assistance. XI Plan Rs.20,00,000/-

2.) Merged Scheme. Rs.8,00,000/-

3.) I.Q.A.C. Rs.3,00,000/-

4.) Additional Assistance XII Plan Rs.3,00,000/-

5.) General Development Assistance.2,32,500/-

6.) Currier Oriented Courses. Rs.9,00,000/-

U.G.C.GrantXI & XII Plan Received & Exp.

Sr. No.	Year	Sanction / Received Grant	Expenditure
1	2012-2013	28,00,000/-	3,18,449/-
2	2013-2014	6,87,500/-	12,70,535/-
3	2014-2015	9,00,000/-	16,86,579/-
4	2015-2016		2,46,960/-
5	2016-2017	-----	2,16,598/-

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

• The additional grants of Rs.1546500/- Lakhs received through major and minor research projects funded by UGC and DST details is given below

Research Project

Nature of the project	Duration year from to	Title of the project	Name of the funding agency	Total grant		Total grant received till date
				sanction	received	
Major	2013-2014	Botany " Evaluation of Antibacterial Activity and Medicinally Important Python Chemical potenational of some Ethenomedicine plants of Bhandara District (MS)	SERB	6,00,000/-	5,50,000/-	5,50,000/-
Minor project	2011-2013	1.DR.N.L.Khobragade:Mathematics: Extension of some accepts of thermoplastic problems of Physics & engineering"	UGC	75000/-	75000/-	75000/-
	2011-2013	2. Dr.Mrs.V.P.Meshram: Chemistry; "Synthesis and Characterization of high thermally chelate polymers"	UGC	85,000/-	79500/-	85,000/-
	2011-2013	3.Dr.C.V.Dhule:Electronics:Growth&Characterization of ferroelectric thin films for solar cell application.	UGC	192000/-	192000/-	192000/-
	2011-2013	3.Dr.Mrs.A.S.Kulkarni M/B:"Isolation and Characterization of Novel bacteriocins against mullti drug resistant pathogen"	UGC	1,75,000/-	1,75,000/-	1,75,000/-
	2011-	4.Dr.Mrs.A.V.Nasery: Statistics "The study of the	UGC	85000/-	85000/-	85000/-



	2013	stochastic patterns in the cause wise Dethclaims, Reserves in life Isuarance"				
	2011-2013	5.Dr.Mrs.P.A.Likhite:Electronics: Growth characterization & device application of rare earth doped erroletic lead germinate(Pb5Ge3011)	UGC	1,75,000/-	1,75,000/-	1,75,000/-
	2011-2013	6. r.P.W.Ambekar:Physics:"entitled surface electronics as on important parameter, governing the performance of electrochemical gas sensor"	UGC	1,45,000/-	1,45,000/-	1,45,000/-
	2011-2013	Mrs.S.A.Deshpande,English: Recent Trends in developing communicative competence through e-learning	UGC	70,000/-	70,000/-	70,000/-

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

- Yes, IQAC was established in the year 2004 and is fully functional.
- The IQAC provides quality enhancement measures and plans and implements the various academic activities as per NAAC guidelines.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

The management has approved all the decisions on academic and administrative activities taken by IQAC and implemented by the institution.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, they have been contributing to the process of planning the quality sustenance and enhancement measures.

d. How do students and alumni contribute to the effective functioning of the IQAC?

- Student Council members are given representation on various college committees formulated under IQAC as per SPQA requirements.
- The Alumni contributes to IQAC in the form of suggestions from time to time.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

- The IQAC formulates academic and extracurricular committees and are circulated at the end of Academic session for the next ensuing session.
- Every teaching staff member is nominated on minimum 3 to 4 committees.
- The report of the work done or the activities conducted is submitted to the IQAC and a review is taken by the head of the institution as a chairman of the IQAC.
- The IQAC acts as a steering committee for NAAC. The SSR and the AQAR reports are prepared by the IQAC. The senior clerk is a member of the IQAC which facilitates in transferring or exchanging information through email.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities?

If 'yes', give details on its operationalisation.

Yes, the institution has an integrated framework for quality assurance of the academic and administrative activities. Its structure is as given below.

- Heads of Departments: Plans and implements the academic activities.
- Principal: Permits the staff for implementing those plans into action.
- IQAC: Guides and helps the various committees to plan the activities and review the outcome at regular intervals.
- Staff Council: Two meetings of the college council held during the academic session take a review of all academic activities and provide suggestions.
- LMC: The details on administrative and academic activities are reviewed in the LMC meeting. The principal executes the decisions taken by the above committees and councils.



6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures?

If 'yes', give details enumerating its impact.

- Yes, the institution has conducted training programs for the teaching and the non-teaching staff for the effective implementation of quality assurance measures taken by IQAC.
- The working of the departments, the office and the library is fully on an ICT format.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

- Yes, the IQAC conducts the academic audit of all the departments, which includes the verification, assessment and review of the various academic activities such as teaching-learning process, academic extension, research, and extracurricular activities.
- The suggestions, if any, are orally communicated to the particular department for improvement and corrective measures.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Established by the parent management, guides, motivates and helps in improving the performances of the colleges run by the society.

- The IQAC collects the data and information that is used to compile the AQAR report to be sent to NAAC every year.
- The IQAC always keeps in touch with NAAC, UGC, and the parent university to get recent updates about quality enhancement measures.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- Teaching schedule or the time table is prepared at the beginning of the session and is approved by the Council of Heads which is then communicated to the students and the staff.
- The teaching plan is prepared by individual teachers and is implemented accordingly. The month wise review of the course covered is taken at by the respective departmental heads and then a summative review report is acquired by IQAC through academic audit.
- The teaching plan and attendance record is maintained regularly.
- The student performance is assessed on a regular basis through oral tests, unit tests, and seminars, as a part of the internal assessment pattern as prescribed by the university.
- The measures are taken to improve the slow learners by conducting remedial coaching classes and/or extra classes by respective departments.
- Course curriculum is completed by respective teachers within the time frame.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The institution communicates its various quality assurance policies, mechanisms and outcomes, to the various internal and external stakeholders through the college prospectus, website, news papers, the Staff Council, HODs, and the e-governance culture.

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

- Separate grant received from UGC for enhancement of IQAC in XII plan.
- Connectivity of all departments via internet. Intercom system set up for inter-departmental communication.
- E-governance culture for surveillance and monitoring of all campus activities.
- CCTV set up.
- Biometric system for log in and log out of the employees.
- A National level workshop on Preparation for NAAC organized by IQAC was organized in 2013.
- Office Renovation:
 - o E-governance
 - o Automation
 - o Student counters
 - o Separate Record Room
 - o Photocopy machine
 - o Separate O.S. Office and Visitors room.



- As the principal is the member of the executive council of the parent society, the college staff has ample opportunities to discharge the responsibility of conducting various society level functions.



CRITERION VII : INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 *Does the Institute conduct a Green Audit of its campus and facilities?*

Yes. The Institute takes utmost care to deal with the environment. Planting new and not cutting the old trees, their maintenance which would yield tonnes of CO₂ absorption every year. It is our regular practice not to harm the environment. Recycling of mercury (Hg) and plastic producing devices such as CRT monitors are recycled by the dealing firms such as Reboot. GREEN INDIA CERTIFICATION for this is also awarded in which clear mention about the CO₂ and other parameters are provided. In another initiation, we have started calculating electric power consumption in terms of energy.

The Energy Consumption Audit:

- Under the faculty of Home Science, Applied Physics and Computer Application, is one of the subjects included in the syllabi which contain a portion of calculation of electric bill and energy consumption. Keeping this in mind and the environment consciousness, the institution with the initiative taken by the Physics Department conducted 'Energy Consumption Audit' of the campus and has made apt recommendations. The entire survey has been made by the students of Home Science Part-II under the guidance of the Physics Department Staff.
- It has been found that being an old establishment, our Institution has various old technology based devices such as tube lights, high watt fans, mercury and sodium vapour based street lamps, cooling or heating or mechanical machines (refrigerators, ovens, motors) etc. These devices consume more power and are harmful to the environment, if exposed. They give mercury vapours which are one of the most dangerous elements if released in the environment.
- We have made a strategy with the permission of Management to replace those with the new technology based devices such as replacement of CRT based monitors with LCD/LED type computer monitors. Many tubes and CFCs are replaced as and when fused. Almost all the CRT monitors are replaced with LCD/LED monitors. Similarly, all Mercury and sodium based lights have been replaced with LED bulbs.



- The project is in its initial stages, planning has been done for the conservation of energy to meet the long-term goals. The institution has taken appropriate measures to minimize and optimize energy consumption.

7.1.2 What are the measures taken by the Institute to make the campus eco-friendly?

Initiatives:

- Campus maintains trees and other plantations on campus to neutralize carbon emission.
- Strategy to make further purchases of LED lighting and low power consuming devices.
- Well maintained Botanical Garden including aquatic plants.
- Medicinal Plants are planted and maintained.
- Looking at the solar emission availability, a proposal is given to Management to install Solar PV module on the roof of the building and it is under consideration.
- Localized Rainwater flood management system is installed at the campus in order to avoid the loss of educational working days during rainy season (heavy rains).
- Regular PUC camp by NSS and NCC students
- E-Waste Management: Reuse of household e-waste such as first/second generation mobile chargers.
- Minimal use of CRT based computer monitors which are mostly recycled with proper firms.
- Bird Shelters are installed at few places within the campus to attract the and settle birds of different types in order to make the campus aesthetically natural and green.
- Spring loaded faucet to every drinking water cooler used to avoid unnecessary loss of drinking water.
- Energy efficient fan and cooling systems are installed in new installations.
- The CC TV cameras installed with motion sensor to curtail the disk space and the electricity.



- Teaching and non-teaching staff ensure that lights and fans are switched off when the lectures are not engaged.
- The Institution sees to minimal usage of air conditioners is done during the day.
- Students of NSS and NCC unit play a very significant role to meet the goals of energy conservation by participating in various theme-based activities, awareness programs and clean and green environment drives.
- Use of renewable energy: Initiatives have been taken to install solar power panels. The Institution is also considering the possibility of converting existing gas lines into biogas based plant.
- **Rain Water Harvesting & Check dam construction:** In the 100m vicinity of the Institute a Check Dam called Ambazari Lake is already constructed by the Government of Maharashtra and maintained by the Nagpur Municipal Corporation due to which water column within the campus is already raised hence further harvesting is not possible within the campus. Thus, needed flood management system is installed for any emergency.
- **Efforts for Carbon neutrality:** Efforts are taken to minimize the carbon footprints by adopting achievable measures such as:
 - Minimal use of paperwork
 - Reuse of used practical record covers for packaging during examination and other work
 - Use of least possible chemicals during chemistry practical classes. In chemistry, Dr. R. B. Lanjewar had incorporated a new method to reduce the use of chemicals.
 - Lt. Dr. P. W. Ambekar from Physics department has developed several low power consuming devices for laboratory practical using household electronic waste.
 - Cellphones are permitted for emergencies within premises.
 - Measures to replace electricity by solar energy are in the process.
 - The College has taken steps to restrict outside vehicle entry into the campus and specific parking area is allotted for staff and students.
 - The College has also been nurturing a large number of plants and trees which can absorb carbon dioxide.

- The College has restricted the usage of plastic bags in the campus.
- Plantation: Every year saplings are planted and maintained within the campus and at camp area where NCC/NSS students work.
- The campus is having over 172 varieties of flora that has resulted in a lush green campus.
- The campus has over 27 different varieties of medicinal plants and herbs.

Hazardous waste management:

- Every department is self-motivated and does not generate any hazardous waste. The condemned lead-acid batteries are disposed through external agencies. Utmost care and precautions are taken to store concentrated acids/ chemicals in a safe and separate room. The liquid waste from the chemical laboratories are isolated and neutralized before they are released in common effluent stream and gets diluted (We believe that solution to pollution is dilution).
- Proper care and appropriate set up is made in the laboratories to handle and dispose hazardous chemicals.
- Microbial wastes are neutralized as per the protocols and then discarded in properly labeled, differently colored disposal bags.
- Biological waste is carefully autoclaved after proper treatment and disposed.
- Fumigation of labs is performed on a regular basis to avoid contamination.



e-waste management:

- The Institution takes input from respective departments on the condition of electronic equipment in departments. Department of Physics has taken initiative to refurbish the old and discarded equipment with the help of renowned companies such as Microsoft registered Reboot. We recently received GREEN INDIA INSTITUTION certification



from Reboot who have taken back about 15 CRT Monitors, that leads to reduction in carbon emission of 170 Kgs, saved 15 trees and about 60 gallons of gasoline is conserved. Please see the illustration.

- Based on findings of the survey, the Institution has segregated the nonworking computers, electronic gadgets and instruments and labeled them as scrap and handed over to a dealing firm. They have awarded us with a Green Certificate for e-waste disposal.

7.2.1 *Changes in the classroom timings:*

- From the session 2016-17 we have re-designed our time-table by clubbing two theory periods. The main intention was to reduce the change over time between the classes and to reduce the switching over the topics of the students. This idea was in a sense innovative and to get students more involved in the period/lecture. The teacher got freedom to select their own method of teaching and implementation enabling discussions and seminar in the second half of the periods. This was indeed beneficial to the students as they could concentrate on a single topic disabling sudden switching within the subjects. Teachers also got sufficient time to deal with the topic and also to carry out their other academic as well as co-curricular activities.

7.3 **Best Practice**

- 7.3.1 Elaborate on any two best practices which have contributed to the achievement of the Institutional objectives and/or contributed to the quality improvement of the core activities of the College.

Best Practice:- 1

- (i) **Title of the Practice: Student's Safety Insurance Policy Facility Provided by the Institution:**
- (ii) **Goal: To insure the stakeholders in case of any untoward incident**
To inculcate the knowledge of securing self/one's life
To impart the importance of precautionary measures in stakeholders
 - (Describe the aim of the practice followed by the institution. Mention the underlying principles or concepts in about 100 words.)
- (iii) **The Context:**



- The institute is located at the west end of the city. Most of the students are coming from nearby mofussil area who are economically weak and may not be insured. In case any mishap/ untoward situation arises, college is ready to help such students by providing insurance cover. In this regard, the college has undertaken a drive in which these students are insured under group insurance policy and the expenditure is fully borne by the Institute. This initiative has been taken by the then principal with the consent of the Management to ensure safety and security of the entire teaching and non-teaching staff as well as the students and is being continued since the past **five** years effectively.
- (Describe any particular contextual features or challenging issues that have had to be addressed in designing and implementing the Practice in about 150 words.)

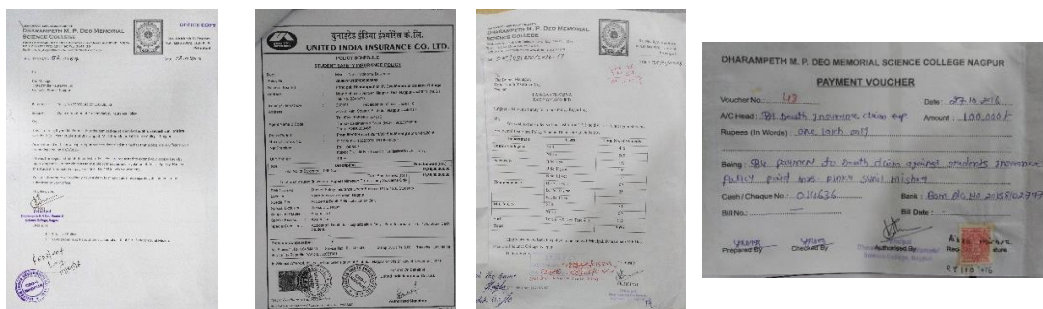
(iv) The Practice

- This practice enables the poorest of the poor admitted and bonafide student to be insured by the college irrespective of the fact whether an insurance policy has been taken out by their family or not. Priority is being given to provide the info to the family in case of any mishap with the stakeholders. We being science Institute, many laboratories come in direct risk zone such as – In chemistry laboratory, many hazardous chemicals viz. acids, alcohols and concentrated bases are used to perform the experiments, in Physics laboratory one is always at risk of electrical hazards, Students working on Playground, under sports department may face sudden injuries. Likewise, every laboratory and subject related activities may lead to certain risks to the stakeholders. In view of these, a precautionary measure in the form of an insurance policy is provided with no monetary burden on the students.
- Institute pays every year @ Rs. 70/-per student as an annual premium to the renowned Insurance company, United India Insurance Co. Ltd. on its own. Around 2000 stake holders are insured every year. Since long we came across very meager such happening, except last year.
- (Describe the Practice and its implementation in about 400 words. Include anything about this practice that may be unique in the Indian higher education. Please also identify constraints or limitations, if any.)

(v) Evidence of Success



- As discussed, we have been lucky enough till last session with almost no cases of any accidents and unhappening, but last year, one of our beloved students, Mr. Sandesh Sunil Mishra from B.Sc. II who was also an NCC cadet was regular swimmer, practicing swimming at Officer's Club Swimming pool died in a mishap that took place on May 10, 2016. As soon as we received the information, we confirmed the news and checked the record which enabled us further processing of his case to the Insurance company leading to get an amount of Rs. 1,00,000/- which was handed over to his parents. The amount is compensated under the policy number 2309014215P10898553 vide receipt no. 48 dated 27.10.2016.
- (Provide evidence of success such as performance against targets and bench marks and review results. What do the results indicate? Describe in about 200 words.)



(vi) Problems Encountered and Resources Required

- (Please identify the problems encountered and resources (Financial, Human and other) required to implement the practice in about 150 words.)
- Till date no evidence of any problem is encountered within the campus related to any mishap.

(vii) Notes (Optional)

- (Any other information that may be relevant and important to there ader for adopting/implementing the Best Practice in their institution (about150words)).

Best Practice: - 2

- (i) **Title of the Practice:** Design and fabrication of new equipment and repairing the old one in Physics Laboratory
- A one week duration workshop for students of B.Sc. III (Semester-VI) was conducted by the Department of Physics on March 06-11, 2017. The workshop was aimed at providing hands



on training to the students on the theme ‘Design and fabrication of New Equipment and repairing the old one in Physics Laboratory.’ The students were given guidance and hands on training by one of the expert faculty from department of physics Lt. Dr. P. W. Ambekar.

(ii) Goal:

- To provide sufficient background and theoretical knowledge to the participants regarding the regulated power supplies and other important knowhows.
- To inform how to do a better contact using soldering, information regarding high tension lines, earthing & common ground.
- To demonstrate actual design and fabrication of a simple power supply and its regulation.
- To develop/prepare cost effective connecting wire sets using 3.5 mm and 1.5 mm banana jacks with an edge over its quality of wires and soldering.
- To provide the participants skill based hands on training to develop new equipment.
- (Describe the aim of the practice followed by the institution. Mention the underlying principles or concepts in about 100 words.)

(iii) The Context:

- The main focus of this workshop was to impart skill based knowledge to the final year students in which they are lagging. For this purpose, the workshop was conducted using expertise from the department of physics. The students were initially imparted theoretical knowledge and basic practice in designing new equipment such as power supplies, LED characterization kit and determination of Planck’s constant kit using transparent LEDs with discrete wavelengths. Moreover, cost effective banana jacks were prepared using economical spare parts keeping in mind its quality.
- Students were also taught to refurbish old and worn-out ac/dc power supplies by replacing the old components with the new ones.
- (Describe any particular contextual features or challenging issues that have had to be addressed in designing and implementing the Practice in about 150 words.)

(iv) The Practice



- The students were taught by demonstrating the essential parts of the power supply such as transformer, rectifier or diodes, capacitors, regulating ICs etc.

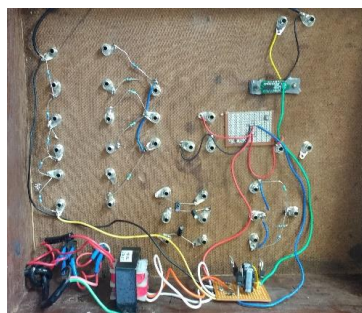
The basic structure of the transformer was explained in detail highlighting the types of transformers, identification of primary and secondary terminals and their specific use.

- The rectifier diodes were taught in detail mentioning its anode and cathode and current carrying capacity. Moreover, half wave, full wave and bridge rectifiers were fabricated by designing them on PCB. Soldering and contact formation was given special focus during fabrication of these devices. The ripple factor and its minimization using capacitor filter was demonstrated practically that enabled the output of the power supply almost DC. The ripple factor and hence the fluctuating output is the main drawbacks observed in simple power supply. Therefore, the need of IC regulation was covered in practical session. Using ICs 7805, 7815, 7915 etc. the output was regulated and drawback was rectified.
- On the similar track, students designed and fabricated few regulated power supplies with fuse, ON/OFF switch and Indicator LED.
- Moreover, equipment such as LED characteristics Kit, Planck's constant measurement instruments were demonstrated firstly and fabrication work was performed by the students. In addition to the regulated 0-5 V power supply, it included a special design of potentiometer based voltage variation which is measured with the help of inbuilt digital panel meter. The use of DPM in this apparatus enabled the experimentalist to measure the knee voltage accurately as compared with the analogue type meters. This proved an added advantage over the more power consuming analogue voltmeter. The entire assembly was fitted in a PVC rectangular cabinet of dimensions 4x4x8 inches. Special mention of the design is that it has capability to perform two experiments on a single instrument. This design saved almost Rs. 40,000/- of the college if compared with the regular purchase.
- In another design, after demonstration, students could design and fabricate Op-AMP (Operational Amplifier) kits in triplicate with special benefit of having able to perform more than six experiments on a single apparatus. The DPM was also included in this design to measure input voltage digitally. This design saved an amount of Rs. 30,000/- of the college if compared with new purchase.

- Students prepared around 100 banana patch cords of 3.5 mm and 1.5 mm banana jacks with a better-quality wire and pins with proper workout on soldering which is almost 1/10th of the price available in market. It also saved 20,000/- of the Institute.
- The monetary benefit of the Institute is always considered as meager as compared to the skill development and benefit of the students. Hence, the workshop is a successful best practice and we shall be continuing the same for all the three years and also train the nonteaching staff as well.
- (Describe the Practice and its implementation in about 400 words. Include any thing about this practice that may be unique in the Indian higher education. Please also identify constraints or limitations ,if any.)

(v) Evidence of Success

- (Provide evidence of success such as performance against targets and benchmarks and review results. What do the results indicate Describe in about 200 words.)



(vi) Problems Encountered and Resources Required

- (Please identify the problems encountered and resources(Financial, Human and other) required to implement the practice in about150words.)



- Few mechanical workshop related problems were encountered while conducting the workshop.
- 1. Hand drill which was being used for drilling purposes was found to be insufficient in completing the task but managed with the same.
- 2. Students had difficulty in coping with the basic skill required for performance of a given task. The same had to be demonstrated by the skilled staff and their concepts were cleared.
- 3. Technical difficulties were faced by the students in coping with the mirror image of the PCB layout to be developed. With proper guidance and practice they learnt the required skill.

(vii) Notes (Optional)

- (Anyother information that may be relevant and importan to the reader for adopting/implementing the Best Practice in the irinstitution(about150words)).

In addition to the above elaborated Best Practices, we adopt the following too.

- College Magazine Asmita
- Students contribute articles on diverse topics of varied interest as well as poems. The magazine also covers all the achievements of students as well as staff in academics as well as extracurricular activities.
- Pearl Magazine by the chemistry department
- It highlights the activities and the achievements of the students offering chemistry as one of the subjects.
- Collegiate Cultural Fest
- The college organizes a cultural fest for students and staff without hampering academic session annually. Sports competitions are also included in the fest.
- OPEC
- A Library software 'Online Public Access Catalogue' is established in the main library of the Institute. Almost every book can be accessed with a minimal information of either name, accession number, etc. of the bearer of the book.



- Admission Process is partially Online
- Admission process in the college is conducted manually as far as admitting the students and submission of forms is concerned. The latter procedure of enrolling the students to the university is done online.
- Ex-students Library Facility
- Special library facility is provided to the passed-out students of our college in order to enable them to prepare for competitive examinations. Students also have the facility of computers at their disposal.
- Inter Library Loan Facility of Library
- In an MOU with local colleges, library books can be accessed or issued on loan with different colleges such as Dharampeth Arts and Commerce college, LAD college, Dr. Ambedkar College situated in Nagpur.
- Add on courses
- Few add on courses have been introduced by our college for the benefit of our students such as Bio-informatics and Mushroom culture.
- Medical Checkup facility on campus
- The college has inhouse medical examination room for students as well as staff. Doctors with their team visit the college once a week on regular basis. Dr. Pinak Dande, who is also alumni of this college has voluntarily shouldered the responsibility to provide assistance to his alma mater.
- Training for Competitive Examination is started this year for NDA and CDS exams.
- Special coaching and guidance has been initiated this year to prepare the students for various competitive exams such as NDA and CDS by charging nominal fees. Classes are held during vacations or after the college hours.
- Yoga for parents / students



- Training Program for Staff
- We encourage our staff to participate in the various training programs organized by various firms to upgrade their knowledge.
- Free Uniform Distribution to the needy
- College undertakes to distribute uniforms free of cost to the financially backward students every year.
- Financial Assistance to the needy students by faculty
- College staff undertake to pay in addition to college tuition fees, mess as well as hostel fees of financially backward students on a charitable basis.
- National Cadet Corps (NCC)
- Every year around 25 cadets including SW cadets are registered with the 2MAH ARMD SQN, NCC unit. Cadets are given Drill Training, Weapon Training in addition to theoretical knowledge which is an essential part to inculcate unity, discipline and leadership qualities amongst the cadets. They get to learn the diverse cultures of various parts of India by participating in different National Level Camps.
- National Social Service (NSS)
- With the initiative of NSS group of our college, we conduct various social service activities such as Blood Donation Camp, Tree Plantation, PUC Camp, Cleanliness Drive etc.
- Vermiculture composting
- The college has recently started vermi-composting for solid waste management with the initiative of the Zoology Department.
- Canteen Facility with limited use of plastic and disposable materials.
- The college provides on campus canteen facility to the stakeholders for a reasonably cheaper rate compared with outside restaurants with edge over the food quality.
- Activities by Value Addition Committee



- The college organizes several value-added programs for creating awareness among the students such as celebrating National and International Days, Teacher's Day, organizing intercollegiate debates/elocutions, quiz competitions, etc.
- New Voter Registrations
- College provides special facility to the students for their enrolment in New Voter List in addition to providing space and manpower to Government Agencies as and when required.
- Women Development Cell
- Women Cell of the college organizes several guest lectures by experts for highlighting the various causes of women and creating awareness about the legal rights and privileges of a woman among the students. Special achievers are felicitated on women's day each year.
- Fee relaxation for sports and economically deprived
- Incentives for topper / academic achievers
- In addition to the Departmental Prizes, College gives special incentives in the form of cash prizes to the student achievers in addition to citation and memento on Jan. 26, every year.
- SWOT/SWOC analysis by English Department
- Innovative teaching method 'SWOT Analysis of the character' from the prose of syllabus of B.Sc. Part-I is conducted by the students.
- Staff Welfare Fund/Society for Non-teaching staff
- A registered society for the welfare of the non-teaching staff members of the Institute is established, wherein a collective sum of the amount is given to a member on different occasions such as birthday, death, marriage of within family etc. A minimal amount of Rs. 50/- per member per month is collected round the year.
- On Campus Credit Cooperative Society
- Under the aegis of the Dharampeth Education Society, we have formed a registered Credit Co-operative Society wherein the entire teaching and non-teaching staff can avail the



facility of taking small loans at affordable interest rate. An emergency loan facility is also provided by the society.

- Bank Facility within the campus
- The college provides in house bank facility for the entire staff and the students wherein all the bank transactions are performed for the convenience of the stakeholders thereby saving time and energy by going outside.
- KUTUHAL
- We have started a yearly practice, 'KUTUHAL' (Know, Understand, Test, Use, Home Appliances and Learn) Science Exhibition/Home Appliances Unfolded for best ecofriendly practice and innovation, from session 2016-17 at our Institute in association with VIBHA (Vigyan Bharti Vidarbha Pradesh Mandal), which is always involved in inculcating science and different skills in people of the Vidarbha.
- AVISHKAR 2016
- RTM Nagpur University conducts a unique activity 'AVISHKAR' every year. Many colleges take part in it. University selects the best models/ presentations/ innovations and then send to the State and National Level competitions. This year, our college organized a Training Program for University Team, a Mentoring Workshop for the University level selected team for State Level Competition wherein, many in and outside experts were invited to mentor the students, specific to the invention/s. The mentors with their expertise guided the student participants and helped them in boosting their performance for the competition.



Evaluative Report of the Department of English

1. Name of the department :- Department of English
2. Year of Establishment :- 1968
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :-
UG:- B.Sc and B.Sc H.Sc
4. Names of Interdisciplinary courses and the departments/units involved:-NA
5. Annual/ semester/choice based credit system (programme wise)

Class	Year				
	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc I	Annual	Semester	Semester	Semester	Semester
B. Sc. H Sc.I	Annual	Annual	Annual	Annual	Semester

6. Participation of the department in the courses offered by other departments:-**Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:- **Nil**
8. Details of courses/programmes discontinued (if any) with reasons: - **Nil**
9. Number of Teaching posts:

	Sanctioned					Filled				
	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17
Assistant Professors	01					01				
Associate professors	01					01				

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of experience	Years of Appointment	No of students registered for PhD from last 4 Years
Dr.Akhilesh Peshwe	M.A. , M.Ed, (USA), LL.B, Ph D	Principal and Associate Professor	English	21	From 1996	Awarded-02 Submitted-01 Registered- 04
Mrs.Shraddha Deshpande	B.Tech (HID), M.A., SET	Asst Prof.	English	10	From 2007	Nil

11. List of senior visiting faculty: - **Nil**



12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :-

Year	B.Sc I	B.Sc II	B.Sc III
2012-13 to 2016-17	NA	NA	NA

13. Student -Teacher Ratio (programme wise)
B.Sc I Year

No. of students	No. of teachers	Ratio
320	02	1:160

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Sanctioned	Filled
Academic support staff (technical)	Nil	Nil
Administrative staff	Nil	Nil

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

DSc	D.Litt	Ph.D	MPhil	PG
-	-	Submitted: 01		01
		Awarded :01		01

16. Number of faculty with ongoing projects from

a) National : Completed: 01
Ongoing: 01+01

b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Submitted: 02

18. Research Centre /facility recognized by the University - Nil

19. Publications:



➤ No of papers published in peer reviewed journals (National/International)

Name of Faculty	National Conference					International				
	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17
Dr.Akhilesh Peshwe	-	02		02	-	-	-	-	04	01
Mrs Shraddha Deshpande	02	-	-	01	02	-	-	-	01	-

Publications of Dr. Akhilesh Peshwe

Sr. No.	Title	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Dr.Ambedkar's Message for the educated Unemployed Youth	International Research Journal: PradnyaSanket Year 2015	ISSN Number: 2455-0469	-
2	Present Needs and Requirements for Producing Quality Research	Role of Academic audit for Upgradation and Sustenance of Quality in Higher education Institutions Year 2015 Published by Vasantrya Naik College of arts and Social Science (Online Journal)	978-93-83139-23-1	-
3	The Confluence of Spirituality Mysticism and Science in the Works of Kathleen Raine	Hislopia Journal published by Hislop College Nagpur	ISSN -0976-2124 Volume 6 (2) Number 2 December 2013	-
4.	In Print The book is prescribed for the BA III Syllabus of R.T.M Nagpur University, Nagpur.	Text Book-Step Up III Foundation Course in English Published by Cambridge University Press.	ISBN 978-93-82993-31-5	Peer reviewed
5.	On "Bhartiya Kalganana: Associated Aspects "in the World Ethnic Religious Conference organized by Maras Loks Foundation , Latvia. Represented International Centre for Culture Studies for Culture Studies , Nagpur , India.	https://vimeo.com/133877724	Maras Loks Foundation , Latvia	
6.	Resonance of Adwait Philosophy in Kathleen Raine's Poem.	International volume titled: Resonance of Ancient Indian Culture in the World Year 2015	ISBN: 978-81-925843-3-1	
7.	Underachievement: A multidimensional approach to bring about reversal.	Book title: English Language Education : Understanding Change Publisher: All India Network of English Teachers AINET	@2015 AINET ISBN 978-93-5196-505-3	



8.	Around the Language in 48 Minutes	Best Practices for Quality Enhancement in Higher Education Published by Vasantao Naik Government Institute of Arts and Social Science, Nagpur.	978-81-7192-098-3 @ IQAC,VNGIASS,Nagpur	
9.	Need of the Hour: Teaching Communicative Skills in English and Employability Skills	NAAC Sponsored One Day National Seminar Proceedings. Published Titled: Academic Innovations and Administrative Reforms to Meet Global Challenges in Higher Education in Higher Education	Smt. Binzani Mahila Mahavidyalaya	

Publications of Mrs. Shraddha Deshpande

Sr. No.	Title	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	A Psychoanalytical Construal of Samuel Beckett's Dramatic Creations: A Review.	Research Journal of English Language and Literature (RJELAL) International Journal	ISSN Number 2395-2636(Print):2312-3108(Online). Vol.4.Issue 2.2016 (Apr-Jun).	A Peer Reviewed (Refereed) Impact Factor - 4.26
2	'Arousal and learning of language through 'Edmodo'.	National Level Journal 'Sanskodhan'	ISSN . 2249-8567.	Peer reviewed
3	"Samuel Beckett's drama "Krapp's Last Tape" A Jungian Interpretation".	National Level Journal "Sanskodhan"	ISSN Number -2249-8567.	Peer Reviewed
4.	Multimedia Learning: An e-learning platform for English Language Acquisition" in a	Conference Souvenir in National Conference Alekh-2013 On E-Business, E-education, E-learning organized by KDK College of Engineering, Nagpur on 16 th Feb, 2013.	ISBN- 978-93-5097-174-1	
5.	Introducing E-learning Course for English Language Acquisition".	Book "Quality Assurance in Higher Education: Issues and Concerns"	ISBN 978-93-80287-80-	
6.	"Integrating Graham Walla's Theory of Creativity in Teaching English Language	National Conference Souvenir "Significance of Teaching Learning and Evaluation in an Interdisciplinary Scenario" on 7 th	ISBN: 978-93-82351-55-9	



		January 2017 organised by Rajkumar Kewalramani Kanya Mahavidyalaya, Nagpur.		
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20. Areas of consultancy and income generated: - Nil

21. Faculty as members in

a) National Committees: Nil

b) International Committees : Nil

c) Editorial Boards:

- Mrs.Shraddha Deshpande worked as a member of Editorial board of Book “Quality Assurance in Higher Education: Issues and Concerns” of Naac Sponsored National Workshop on “Quality Assurance in Higher Education: Issues and Concerns”.
- Dr.Akhilesh Peshwe worked as a as a member of Editorial Board of ‘Resonance’ published biannually by Ramchandra Umathe Science and Mokhare Arts and Science College.

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme
- Every year more than 80% students have done their projects as per their syllabus. They have done project of Swot analysis of the characters.
 - 100% students participate in assignments on the subjects in the form of projects submitted towards internal assessment on a part of their course work at all levels at the UG programme in the course.
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :-**Nil**

23. Awards / Recognitions received by faculty and students: -

1. Application of SWOT Analysis of Two Gentlemen of Verona and The Verger.

Dr.Akhilesh Peshwe

Coordinator of ‘Avishkar’ Training Programme	Organized by RTM Nagpur University, Nagpur
Coordinator of Special Task Force Committee for English and Other Languages in Commerce to function as Board of Studies	Constituted by R.T.M. Nagpur University, Nagpur
Recognized for Contribution to the Vision Document of R.T.M. Nagpur University, Nagpur	BCUD Director on behalf of the RTMNU
Member of the Yuva Dhoran Committee	Constituted by R.T.M. Nagpur University, Nagpur
Member of Vision Document Committee	Constituted by R.T.M. Nagpur University, Nagpur
Most Popular Teacher on Campus	By Dainik Bhaskar



“Prashansa Patra” for Election Duty in 1999

Commissioner of Police, Nagpur

Mrs. Shraddha Deshpande

- Received Second Best Paper Award in National Level One Week Workshop on Research Methodology organized by C.P. & Berar College, Mahal, Nagpur. The topic of paper was ‘Id, Ego and Superego of Samuel Beckett’.
- Represented Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in 11th Maharashtra State Inter-University Research Convention AVISHKAR -2016 TH Level Under the Discipline Humanities, languages and Fine Arts held at Swami Ramanand Teerth Marathwada University, Nanded(MS) during January 27-29, 2017. The topic of the Research paper: Classroom Content and Character Building:

24. List of eminent academicians and scientists / visitors to the department:

Sr. No	Company Name	Name of Resource Person
1.	PG Department, Rashtrasant Tukadoji Maharaj Nagpur University , Nagpur	Dr. Shoma Sen Associate Professor
2.	Shrimati Binzani Mahila Mahavidyalaya, Nagpur	Dr. Suchita Marathe Vice Principal
3.	Department of English, R.S. Mundle Dharampeth Arts and Commerce College, Nagpur.	Dr. Mrs. Manjushree Sardeshpande, Assistant Professor
4.	Department of English, Kewalramani Mahila Mahavidyalaya, Nagpur	Mrs. Madhavi Mohril, Assistant Professor
5.	Department of English, S.B. City College ,Nagpur.	Mrs. Pranjali Kane , Assistant Professor
6.	EssDee and Raj Scientifics	Mr. Shreesh Shukla, Founder and Partner
7.	Dr. Baba Saheb Ambedkar College, Nagpur	Dr. Pallavi Chopde Assistant Professor

25. Seminars/ Conferences/Workshops organized & the source of funding:

- Dr. Akhilesh Peshwe worked in organizing committee of Multi-Disciplinary International Conference on ‘Resonances of Ancient Indian Culture in the World’ on 24, 25 and 26 October, 2015 organised by R.S. Mundle Dharampeth Arts and Commerce College, Nagpur
- Mrs. Shraddha Deshpande worked in organizing committee of Naac Sponsored National Workshop on “Quality Assurance in Higher Education: Issues and Concerns”.



26. Student profile programme/course wise: B.Sc. I

Year	Application Received	Selected	Enrolled	
			M	F
2012-13	320	310	137	173
2013-14	333	317	152	165
2014-15	351	338	140	198
2015-16	347	332	143	189
2016-17	380	352	148	204

*M = Male *F = Female

Subject: B Sc I Year

Year	Compulsory English		Supplementary Passing Percentage	
2012-13	Annually		Annually	
	67.14%		92.85%	
2013-14	Sem I	Sem II	Sem I	Sem II
	79.6%	74.29%	100%	100%
2014-15	Sem I	Sem II	Sem I	Sem II
	91.9%	90.29%	91.6%	92.5%
2015-16	Sem I	Sem II	Sem I	Sem II
	89.97%	86.28%	89.28%	93.47%
2016-17	Sem I	Sem II	Sem I	Sem II
	80.96%	-	92.5%	-

B.Sc (Home Science)

Year	English and communication skills
2012-13	52.00%
2013-14	88.89%
2014-15	82.93%
2015-16	86.67%

27. Diversity of Students

B.Sc I

Year	%of students from the same state	%of students from other states	% of students from abroad
2012-13	301	09	Nil
2013-14	311	06	Nil
2014-15	326	12	Nil
2015-16	329	03	Nil



2016-17	346	06	Nil
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28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? - Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Campus selection	Nil
Other than campus recruitment	90%
Entrepreneurship/Self-employment	2%

30. Details of Infrastructural facilities

Library	Yes
Internet facilities for Staff & Students	Yes
Class rooms with ICT facility	Yes
Laboratories	Yes

31. Number of students receiving financial assistance from College, University, Government or other agencies.

Academic Session 2012-13										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	89	42	06	-	08	04	-	-	05	154
Total	89	42	06	-	08	04	-	-	05	154

Academic Session 2013-14										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	90	39	09	-	21	05	02	01	10	177
Total	90	39	09	-	21	05	02	01	10	177



Academic Session 2014-15										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	139	46	13	-	14	05	01	-	-	218
Total	139	46	13	-	14	05	01	-	-	218

Academic Session 2015-16										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	99	45	06	-	08	05	01	02	03	169
Total	99	45	06	-	08	05	01	02	03	169

32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

Year 12-13

1. A Poster Presentation Competition was held on 13th August, 2012. The topic was “The Elixir of Life”.
2. A Self Government Activity was carried out on 9th January, 2013. Students of Home Science covered Grammar topics in this activity.
3. A Guest Lecture on “Transformative Grammar” was conducted on 16th January 2013
4. Certificate Course in Conversational Skills through E-Training was introduced in the academic session 2012-13. 12 students have enrolled for the course.
5. A Self Government Activity was carried out on 26th and 27th July, 2013. Students of Home Science covered Grammar topics in this activity.
6. A Poster Presentation Activity was held on 7th, 8th and 9th August, 2013. The topic was “An Introduction to Tenses”.
7. A Street Play Activity was held on 20th September, 2013. The topics were Water conservation, Female feticide, and Generation Gap.

Intercollegiate Poster Presentation Competition

English Language Association has organized an Intercollegiate Poster Presentation Competition on 21st January, 2013. The topics of the competition was “The Role of Media in Language Learning” and Short Story Writer that inspire you”.

Intercollegiate Photo Article Writing Competition

An Intercollegiate Photo Article Writing Competition” was conducted by the department. Winners of the Competition are as follows: 1st Prize: Ms.Avanti Chaphale (BS c I), Dharampeth M.P.Deo Memorial Science College, Nagpur. 2nd Prize: Ms.Christina .Rapheal (B.A. II) Kewalramani Kanya Mahavidyalaya. Nagpur).

Year 2013-14

Intercollegiate Poster Presentation Competition

English Language Association has organized an Intercollegiate Poster Competition on 21st January, 2014. The topics of the competition was “Indian Writing in English”.

Intercollegiate Photo Article Writing Competition



An Intercollegiate Photo Article Writing Competition was conducted by the department. Winners of the Competition: 1st Prize: Ms.Avanti Chaphale (BS c I), Dharampeth M.P.Deo Memorial Science College, Nagpur. 2nd Prize: Ms.Christina .Rapheal (B.A. II) Kewalramani Kanya Mahavidyalaya. Nagpur).

Year 2015-16

In –House Programmes

1. A Poster Presentation Competition was held on 25th July, 2015. The topic was an 'Introduction to Preposition'. The winner of the competition was Ms.Ashmika More and (1st prize) and Ms. Asmita Balinge(2nd Prize).
2. An innovative workshop on 'Convert Prose into Poetry' was conducted on 7th August 2015. The Prose which was selected for the activity was 'The House' from the syllabus.
3. One Week Workshop on 'Grammar Rules' was conducted for BS c HS c- I students on 29th August, 2015.
4. The month of September was declared as the 'Month of Debate' where the students opting Supplementary English debated on the probable topics of the essay writing.
5. A Self Government Activity was carried out on 25th September, 2015. Students of Home Science covered Grammar topics in this activity.
6. A 'Story Book Writing Activity' was carried out for the BS c- I students. The students were asked to prepare a story book on the basis of the chapter prescribed in the syllabus.
7. A workshop on "Listening Skills" was conducted on 3rd February, 2016 for the students of Home Science.
8. A Workshop on "SWOT ANALYSIS" was conducted on 9th April, 2016. Students prepared a project on "SWOT analysis of Characters" from the Prose of the syllabus.

Intercollegiate Poster Presentation Competition

English Language Association has organized an Intercollegiate Poster Competition on 21st January, 2014. The topic of the competition was "Movies Inspired by Books".

Intercollegiate Photo Article Writing Competition

An Intercollegiate "Photo Article Writing Competition" was conducted by the department.

Year 2016-17

1. Bridge Course in English was conducted from 11th to 16th July to help learners to understand Basic English Vocabulary and to familiarize learners with the basics of grammar.
2. A Self Government Activity was carried out on 26th and 27th July, 2017. Students of Home Science covered Grammar topics in this activity.
3. 'Poetry on Canvas' activity was conducted on 9th August, 2016. Students prepared posters on the poetry Ulysses and Ecology from the syllabus. They worked in team and the analysis of their personality skills were judged on different parameters of team work like team work, leadership, creativity, and confidence.
4. Round Table Discussion on Gandhi and Politics on 23rd August, 2016 for Supplementary English students.
5. Film Screening 'Partition of India' was screened on 11th July 2017.
6. Guest lecture on Time Management and Goal Setting by Mr.Shreesh Shukla, Founder, EssDee and Partner at Raj Scientifics on 19th September, 2017

33. Teaching methods adopted to improve student learning:

- ❖ Teaching syllabus topics through Multi-Media tools, like Power Point Presentations.



- ❖ Use of 'Edmodo' in Teaching –learning was used.
- ❖ Screening of Movies and Short Films through LCD Projector.
- ❖ Assignments are given to the students and Unit Tests are conducted as a part of their Internal Assessments.
- ❖ Use of CALL (Computer Aided Language Learning) for enrichment of basic grammar and vocabulary.
- ❖ Teachers are always available for one-to-one interaction for clearing their queries
- ❖ Innovative techniques of teaching learning like 'Poetry on Canvas', SWOT analysis of characters', 'Convert Prose into Poetry', 'Story Book Writing' etc were adopted to improve students' learning.
- ❖ Under Skill Development programmes Certificate course in Conversational Skills, and Self Government Activities to boost confidence and self confidence about language skills were conducted. Workshops on Grammar rules, Listening skills and SWOT analysis were carried out.
- ❖ Competitions like 'Photo Article Writing', Poster Presentation, PowerPoint Presentation' Skit Competition, Street Play, were organized.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Mrs. Shraddha Deshpande

- Faculty is the Teacher In –charge of Dharampeth M.P.Deo Memorial Science College, ROTARACT 2016-17.
- Faculty is the Convener of Value Addition Committee of the College which organized programmes such as Commemoration of National Events, Guest Lectures and Awareness programmes.
- Faculty of the department was a member of organizing committee of Inter Colligate Dr. Ashok Shekdar Memorial Debate Competition 2016-17.
- Faculty of the department was the Convener of Students' Council that organized Inter Colligate Event "Kala-Srujan" and Annual Cultural and Sports Event every year.
- Faculty was the Convener of Women Cell that carried out Guest lectures, competitions and rallies on topics of 'Gender Sensitization'.
- Faculty worked as Convener of Extra Curricular Committee and motivated students to participate in various Collegiate and Inter-Collegiate competitions.

35. SWOC analysis of the department and Future plans:

Strength:

- Highly Qualified teaching staff
- Excellent Result
- The department endeavors to be students centric through various activities organized from time to time.
- ICT enabled department
- Department library

Weakness:

- Poor student teacher ratio
- Exposure limited to first two semesters.
- No facility of teaching assistance

Challenges:

- Holding concentration of students in large classroom is a challenge.



- Reading habit in students is a challenge.

Opportunities:

- To establish language lab
- To start certificate courses
- To start interdisciplinary programmes with other departments such as Sanskrit

Future Plan:

- Strengthen Research Activity.
- Get more research project grants.
- To publish departmental magazine
- To organize more no. of soft skill development programme for students to improve their language skills & etiquettes.



Evaluative Report of the Department of Physics

1. Name of the department : Physics
2. Year of Establishment : 1968
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : UG (B.Sc.)
4. Names of Interdisciplinary courses and the departments/units involved : Nil
5. Annual/ semester/choice based credit system (programme wise) –

S.No.	Pattern	Year
1	Annual	2014-15 Last Batch
2	Semester	2013-14 Introduced

6. Participation of the department in the courses offered by other departments
 - B.Sc. (Home Science) offered by Home Science department
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil
9. Number of Teaching posts

	2012-2013		2013-2014		2014 -2015		2015-2016		2016-2017	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
Professor	--	--	--	--	--	--	--	--	--	--
Associate Professor/ Assistant Professor	07	05	08	06	09	06	09	03	09	03
Vacant	02		02		03		06		06	



10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last
Dr. Seema Ubale	M.Sc., Ph.D	Associate Professor	Solid State Physics, Digital Electronics	29 years	02 Registered
Dr. K.S.Moon	M.Sc., Ph.D	Associate Professor	Solid State Physics, Digital Electronics	14 years	--
Dr. P.W.Ambekar	M.Sc., Ph.D	Assistant Professor	Material Science	14 years	--
Dr. N. R. Lokhande	M.Sc., Ph.D	Associate Professor	Solid State Physics, Communication Electronics	*34years (2014)	--
Prof. P. R. Shende	M.Sc, M.Phil.	Associate Professor	Solid State Physics, Communication Electronics	*35 years (2015)	--
Prof.R..N Kakde	M.Sc. B.Ed.	Associate Professor	Solid State Physics, Communication Electronics	** 27 years (2014)	--

*Superannation **Expired in last 5 years

11. List of senior visiting faculty : Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty –

S.No.	Year	No. of temporary faculty	% of lectures delivered/practical classes handled
1	2012-13	02	L – 00 %, P-04 %
2	2013-14	01	L – 00 %, P –02 %
3	2014-15	02	L – 00 %, P- 04 %
4	2015-16	11	L – 60 %, P- 36 %
5	2016-17	11	L – 60 %, P- 36 %



13. Student -Teacher Ratio (programme wise) – 153: 01
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled-
Number of academic support staff (technical)
- sanctioned – 01(Assistant) + 04(Attendants)
- Number of academic support staff (technical)
- filled – 03 Attendants
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.-
Same as Question 10
16. Number of faculty with ongoing projects from : Nil
a) National
b) International funding agencies and grants received
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received –
1 Project completed - One funded by UGC (PWA), Rs. 1.25 Lakhs
2 Applied - Two proposals to UGC (KSM)
18. Research Centre /facility recognized by the University :- Nil
19. Publications:

Name	No. of papers in peer reviewed journals (national /international)	
	National	International
Dr. Seema Ubale	01	07
Dr. P.W.Ambekar	03	01

- a) Publication per faculty –
- Number of papers published in peer reviewed journals (national international)
❖ by faculty and students
 - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Scopus –
❖ 02 (SKU),02(PWA)

Monographs

Chapter in Books



Books Edited

Books with ISBN/ISSN numbers with details of publishers –

Name	Title	ISBN/ISSN numbers	Name of publisher
PRS	A text book of Physics	978-93-5149-296-2	Sheth Publications Nagpur.
SKU	Physics Gravitation, Astrophysics, Magnetism and Magneto statics for B.Sc. Sem II, Paper II	ISBN 978-81-89178-13-0	Central Techno Publications, Nagpur
KSM	Experiments in Physics, B.Sc-II, Sem-III	978-93-81432-75-4	Sai Jyoti Publication Nagpur
KSM	Experiments in Physics, B.Sc-II, Sem-IV	978-93-81432-73-0	Sai Jyoti Publication Nagpur

Citation Index : 27(PWA)+06(SKU)

SNIP : Nil

SJR : Nil

Impact factor : 1.9 (PWA)

h-index : 2(SKU), i10 index-1(PWA)

20. Areas of consultancy and income generated : Nil

21. Faculty as members in

- National committees
- International Committees
- Editorial Boards

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme : 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : Nil

23. Awards / Recognitions received by faculty and students –

- Rashtriya Gaurav Award to PRS in 2015
- Distinguished Researcher Award to SKU in 2015

24. List of eminent academicians and scientists / visitors to the department

- Dr. G.G.Sahastrabudhe, Professor, HOD Applied Physics, RCOE&M, Nagpur,
- Dr. K.G. Rewatkar, Associate Professor, Dr. Ambedkar College, Dikshabhum



- Dr. Ms. J.B. Randhawa, HOD Applied Physics, Govt. Engineering College, Amravati
- Dr. S.J. Dhobale, Associate Professor in Physics, PGTD, RTMNU, Nagpur
- Dr. M.Y. Apte, Ex-HOD Physics, SFS College, Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

b) International-

Department organized two University level workshops which were funded by the college. The details are as follows

S.No.	Name of the workshop	Date
1	Restructuring the syllabus of Applied Physics and Basic/Applied Computers of B.Sc. H.Sc. part I and II	9-10Aug2012
2	Vidarbha Universities Physics Teachers Association (VUPTA)organized Student's Seminar Competition	19-20 January 2013

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. III 2012-13	34	34	17	17	50%
B.Sc. III 2013-14	42	42	22	20	83%
B.Sc. III 2014-15	50	50	23	27	64%
B.Sc. III 2015-16	58	58	25	33	98%
B.Sc. III 2016-17	97	95	42	55	Appeared

*M = Male *F = Female

27. Diversity of Students for entire college

Year	% of students from the same state	% of students from other States	% of students from abroad
2012-13	99	01	Nil
2013-14	99	01	Nil
2014-15	99	01	Nil



2015-16	98	02	Nil
2016-17	98	02	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

- Shubhashis Chandra – NET(2009)
- Govind Lakhotiya – SET(2009), GATE
- Ms. Shweta Lokhande – SET (2016)

29. Student progression

Student progression	Against % enrolled
UG to PG	02 students every year
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	-- Nil
Entrepreneurship/Self-employment	2 to 3%



30. Details of Infrastructural facilities

a)	Library	:	Core library with around 400 books
b)	Internet facilities for Staff & Students	:	2 computers with internet facility
c)	Class rooms with ICT facility	:	Nil
d)	Laboratories	:	One laboratory with LCD

31. Number of students receiving financial assistance from college, university, government or other agencies – **For entire college**

S. No.	Year	No. Of admitted students	E.B.C.	P.T.C.	S.T.C.	GOI/Free ship
1	2012-13	594	10	--	01	254
2	2013-14	684	13	01	03	326
3	2014-15	739	02	01	02	382
4	2015-16	851	06	03	03	399
5	2016-17	899	09	03	02	289

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

S. No.	Session	Date	Name of faculty	Subject
1	2012-13	05/10/2012	Dr. G.G.Sahastrabudhe, Prof., HOD App. Physics, RCOE&M, Nagpur	The Physics of God particle: The Higgs Boson
2	2013-14	24/09/2013 13/01/2014	1 Dr. K.G. Rewatkar, Associate Professor, Dr. Ambedkar College, Dikshabhumi, Nagpur 2 Dr. Ms. J.B. Randhawa, HOD Applied Physics, Govt. Engineering College, Amravati	Basics of Nano Science and Nano Technology Basics of Impedance Analysis
3	2014-15	18/10/2014	1 Dr. S.J. Dhobale, Associate Professor in Physics, PGTD, RTMNU, Nagpur	Importance of LEDs in new generation lighting
4	2015-16	23/09/2015	Prof. P.R. Shende, Ex-HOD Physics, Dharampeth M.P. Deo Memorial Science College, Nagpur.	Basics of Quantum Physics
5	2016-17		Dr. M.Y. Apte, Ex-HOD Physics, SFS College, Nagpur	Gravitational Waves'

33. Teaching methods adopted to improve student learning

- Class room teaching
- Power point presentation



- Interactive method
 - Involving students with hands on training
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Participation in campus cleaning activity of college
 - Participation in social rallies.
 - Visits to various scientific institutions of repute are regularly organized as a part of extension activities
35. SWOC analysis of the department and Future plans

Strength

- Qualified, Competent and Experienced Staff.
- Committed non- teaching staff.
- Disciplined and hard working students.
- Safe and secured environment for co-education
- Democracy and transparency in functioning
- Parent-teacher interaction
- ICT facilities are available.
- Visit to scientific laboratories , institution.
- Departmental library.
- Remedial teaching is provided to slow learners
- Financial support to economically weaker students.

Weakness

- Average students seek admission in the subject.
- Employment opportunities are few due to very slow and little industrial growth in and around Nagpur region.
- Restrictions on new appointments of regular teachers.

Opportunity

- Employment potential in teaching, research, banking ,software anywhere in India
- Training and placement cell in college.
- Seminars, workshop, conferences, inter collegiate competition, science exhibition,



- Visit to Scientific laboratories

Challenges

- Declining interest of the students in basic science subject.
- Mushrooming of professional courses.

Future Plan

- Job oriented certificate course
- Collaboration with scientific institutions' and laboratories and industries



Evaluative Report of the Department of Chemistry

1. **Name of the department:** Chemistry
2. **Year of Establishment:** 1968
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** B.Sc.
4. **Names of Interdisciplinary courses and the departments/units involved: -**

At present there is no inter disciplinary course in the Department.

5. **Annual/ semester/choice based credit system (programme wise): Semester**

Class	Year				
	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
B.Sc.I	Annual	Semester	Semester	Semester	Semester
B.Sc.II	Annual	Annual	Semester	Semester	Semester
B.Sc.III	Annual	Annual	Annual	Semester	Semester

6. **Participation of the department in the courses offered by other departments:**
Physics and Microbiology

The students of the Chemistry need to study Physics, Mathematics, Botany, Zoology and Microbiology as a General Subject as per their choice. The faculty members of the Chemistry Department teach this course to the Chemistry.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:-**
8. **Details of courses/programmes discontinued (if any) with reasons: NA**
9. **Number of Teaching posts**

Post	Sanctioned					Filled					Vacant				
	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Assoo.						3	3	3	4	2					
Asstt. Prof	8	8	9	10	11	2	2	2	1	1	3	3	4	5	8

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. R.B. Lanjewar	M.Sc., Ph.D.	Associate Professor	Nuclear Chemistry	24	6
Dr.D.B.Jadhao	M.Sc., Ph.D.	Associate Professor	Organic Chemistry	14	-
Dr. Mrs. V.P. Meshram	M.Sc., Ph.D.	Associate Professor	Inorganic Chemistry	10	01

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty: 65%

Class	B.Sc. 1 st year	B.Sc. II nd year	B.Sc. III rd year	B.Sc. 1 st year
%	100%	73%	nil	100%

13. Student -Teacher Ratio (programme wise):

Course	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc.	60:1	73:1	81:1	88:1	162:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Laboratory Assistant: Sanctioned = , Filled up = 1

Laboratory Attendant: Sanctioned = 4, Filled up = 4

Storekeeper: Sanctioned =1, Filled up = 1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

For this please Refer Point no 10.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received.

One - National

MRP Sanctioned to **Dr Mrs V.P.Meshram (2011 – 2013)**

Sanctioned Rs. 85,000/- Received Rs. 79,500/-

Sr. No	Title	Funding Agency	Time Period	Grant (Rs)	
				Sanctioned	Received
1	Synthesis and Characterization of thermally stable polymers	UGC	2011-2013	85,000/-	79,500/-



	F. No. 47-1760/10/(WRO)				
--	-------------------------	--	--	--	--

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** UGC

18. **Research Centre /facility recognized by the University:** NIL

19. **Publications:**

* a) Publication per faculty

Sr. No.	Name of Teachers	No. of Papers		No. of Publication listed in International Database (Scope)	Citation Index	Impact factor	SNIP	SJR	h- index
		National	International						
1	Dr. Mrs. V.J. Aparajit		01						
2	Dr. Mrs. V.S.Katkar		01						
3	Dr. R.B. Lanjewar	9	19	28	86	Yes			6
4	Dr.D.B.Jadhao	06	05	11					
5	Dr. Mrs. V.P. Meshram	05	05	11	34	Yes			2

* Number of papers published in peer reviewed journals (national / international) by faculty and students: All above

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- Monographs Nil
- Chapter in Books Nil
- Books Edited Nil
- Books with ISBN/ISSN numbers with details of publishers:08

Dr. R.B.Lanjewar			
S. No.	Title with page nos.	Type of Book & Authorship	Publisher &ISSN/ISBN No.
1	Text Book of Chemistry B.Sc. Semester-II Paper-I and II With Practicals	Text Book	GC Publishers 978-93-82962-30-4
2	Organic Chemistry Semester-I Paper-II	Text Book	M/S Rajani Prakashan & Books Distributor
Dr.D.B.Jadhao			
3	Synthetic Nucleotides and Nucleotides	Reference Book	Dattsons 811-7192-078-4
Dr. V.P.Meshram			
4	B.Sc. Sem-IV Paper	Text Book of Chemistry	Himalaya Publishing House, ISBN 978-93-5202-424-7



5	B.Sc. Sem-IV Paper	Text Book of Chemistry	Central techno Publication ISBN 978-93-5202-424-7

- Citation Index
R.B.Lanjewar 86, h-index 3
V.P.Meshram: 34, h-index-2
- SNIP: Nil
- SJR: Nil
- Impact factor: Yes
- h-index : 3

○

Name of Journal	Impact factor
Journal of Planar Chromatography	0.668 (five year)
Journal of Chinese Advance Material Society, Taylor & Publication	0.87 doi .org
Research J. of Pharmaceutical Bio. And Chemical Sciences	0.36
Int. J. Research in Bio science and Agricultural Technology	0.36
International J. of Bionano. Frontier	0.23

20. Areas of consultancy and income generated : None

21.Faculty as members in

a)National committees b) International Committees c) Editorial Boards....

S. No.	Dr. R.B. Lanjewar, Details (Mention Year, value etc where relevant)
1	Member of Editorial Board in International Journal of Researchers in Biosciences, Agriculture and Technology,
2	Associate Editor of International Journal of Chemical and Physical Sciences
3	Editorial Member of Rasayan J. of Chemistry
4	Honorary Member of Referee board for Online International Interdisciplinary research Journal.

22.Student projects

- a) Percentage of students who have done in-house projects including inter departmental/ programme Environmental studies B. Sc . Part II (100%)



- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : Nil

23. Awards / Recognitions received by faculty and students:

Dr. R.B.Lanjewar

Best paper presentation at Kamla Nehru College, Nagpur.,

Chairman of the Board of Studies of Texile and Clothing in the Faculty of Home Science , R.T. M. Nagpur University, Nagpur

Vice President of Chemistry Teacher Association of RTM Nagpur University, Nagpur (2015-2017), Life Member of Indian Science Congress, Calcutta, Member of IANCAS, NUTA,

Dr. D.B.Jadhao: Nagpur (2015-2017)., Member of Association of Chemistry Teacher Association, Mumbai, Life Member of Indian Science Congress, Calcutta, Life Member of Bionanofrontier,

Dr. V.P.Meshram Member of Chemistry Teacher Association of RTM Nagpur University, Nagpur (2015-2017)., Member of Association of Chemistry Teacher Association, Mumbai, Life Member of Indian Science Congress, Calcutta, Certificate of Appreciation 18th Jan.2014 serve as the coordinator of ACT-Concept Test in Chemistry

24.List of eminent academicians and scientists / visitors to the department

2012-2013

- 1.Dr. Abhay Patwardhan, Scientist F, Atomic Mineral Division, Nagpur

2013-14

1. Dr. D.S.Ganguli, I.O.F.S (Rtd), Nagpur

2014-15

1. Dr. S.S. Umare, Department of Chemistry, V.N.I.T, Nagpur
2. Dr. Vijay Tangade, Department of Chemistry, R.T.M. Nagpur University, Nagpur

2015-16

1. Dr. N.K Tiwari, Former Scientist, ISRO, Bangalore, India
3. Dr.N.M. Karde, Department of Chemistry, R.T.M. Nagpur University, Nagpur
2. Dr. Hemant Jahagirdar, S.F.S. College, Nagpur
3. Dr. K.P. Kariya, VMV Arts, Commerce and Science College, Nagpur

2016-17

1. Dr. Anu Naik, Scientist, France

25.Seminars/ Conferences/Workshops organized & the source of funding

a) National b) International

1. NAAC Workshop funded by NAAC, Bangalore
2. INNOVATE “ Research Methodology”
3. One day Workshop on Restructuring of Chemistry Syllabus” on 11th Oct.



2015

International: Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. 2012		31	09	22	80.64
B.Sc. 2013		28	06	22	60.71
B.Sc. 2014		49	10	39	67.00
B.Sc. 2015		60	11	49	55.00
B.Sc. 2016		86	14	71	96.5
B.Sc. 2017		112	30	82	84.00

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc.	95	5	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Mr. Ajay Senegar Passed NPTEL Examination during 2016-17

29. Student progression

Student progression	Against % enrolled
UG to PG	22 -40 % (Last three years)
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA



Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	Some students have been selected
Entrepreneurship/Self-employment	5-6%

30. Details of Infrastructural facilities

a) **Library:** A departmental library with nearly 200 reference books.

College library has a rich collection of books and journals

b) **Internet facilities for Staff & Students:** Internet facilities for Staff & Students: It is available in the library and also in the department.

c) **Class rooms with ICT facility:** Three ICT enabled class for multimedia presentation

d) **Laboratories:** Chemistry Lab: Department has well equipped laboratory with ICT facility in it.

31. Number of students receiving financial assistance from college, university, government or other agencies: GOI, Social Welfare office

Sr. No	Year	Admitted Students	No. of student paid Tuition fee	EBC Student	PTC student	S.T.C. Student	GOI/ Free ship
1	2012-13	595	329	10	-	01	254
2	2013-14	684	341	13	01	03	326
3	2014-15	739	252	02	01	02	382
4	2015-16	851	440	06	03	03	399
5	2016-17	899	596	09	03	02	289

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Student seminar for B.Sc. Final year students are arranged every year on syllabus

**33. Teaching methods adopted to improve student learning**

- ICT Enabled Classrooms for better Teaching- Learning Extensive study material is prepared for helping the students to grasp the subject.
- Student counseling and remedial classes for slow learners.
- Class Tests for constant evaluation

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

As a part of the NSS activities the students and faculty actively participate in Blood Donation, Campus cleaning. Tree plantation,
All the Faculty member of Chemistry department mentored the student who selected in Avishkar Training programme 2017 organized by RTMNU Nagpur University, Nagpur in association with Dharampeth M. P. Deo Memorial Science college , Nagpur

35. SWOC analysis of the department and Future plans:

Strength – Well equipped UG Lab, only five qualified teachers and their devotion and innovation for the assigned course and secretarial help,

Safe and secure environment for girls' education

Weakness – Shortage of teachers, not proportionate to huge number of students and shortage of non-teaching staffs,

Average students seek admission.

Limited scope in curriculum design

Opportunity – To open allied UG courses and to provide better education.

Less employment and placement opportunities for the students from Basic Science



Evaluative Report of the Department of Mathematics

1. Name of the department : **Mathematics**
2. Year of Establishment : 1968
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : UG
4. Names of Interdisciplinary courses and the departments/units involved : N.A.
5. Annual/ semester/choice based credit system (programme wise):

	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc. I	Annual	Semester	Semester	Semester	Semester
B.Sc. II	Annual	Annual	Semester	Semester	Semester
B.Sc. III	Annual	Annual	Annual	Semester	Semester

6. Participation of the department in the courses offered by other departments : N.A.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: : N.A.
8. Details of courses/programmes discontinued (if any) with reasons : N.A.
9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	01
Assistant Professors	02	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. N.L. Khobragade	M.Sc., Ph.D.	Associate Professor	Boundry Value Problem	37 years	-
Dr. N. P. Gaikwad	M.Sc., M.Phil., Ph.D.	Assistant Professor	General Relativity and Comology	10 years	-

11. List of senior visiting faculty: N.A.
12. Percentage of lectures delivered and practical classes handled(programme wise) by



temporary faculty:

Session	Percentage of lectures delivered by temporary faculty
2012-13	NA
2013-14	NA
2014-15	NA
2015-16	NA
2016-17	24%

13. Student -Teacher Ratio (programme wise):

	2012-13	2013-14	2014-15	2015-16	2016-17
Student - Teacher Ratio	148:1	171:1	221:1	219:1	225:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of academic support staff (technical) N. A.
 Number of academic administrative staff 01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification
Dr. N.L. Khobragade	M.Sc., Ph.D.
Dr. N. P. Gaikwad	M.Sc., M.Phil., Ph.D.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Name of the Faculty	National/International	Ongoing/Submitted
Dr. N.L. Khobragade	National	01 (Submitted on 15/03/2014)

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Name of the Faculty	Funded by	Ongoing/Submitted	Grant Received
Dr. N.L. Khobragade	UGC	01 (Submitted on 15/03/2014)	Rs. 1,00,000/-

18. Research Centre /facility recognized by the University : N. A.

19. Publications:

- Publication per faculty: 03
- Number of papers published in peer reviewed journals (national /international) by faculty and students

Faculty	National	International	Total
Dr. N.P. Gaikwad	00	03	03



- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

Faculty	Number of publications listed in International Database
Dr. N. P. Gaikwad	Scopus - 01

- Monographs : - Nil
- Chapter in Books : - Nil
- Books Edited : - Nil

Books with ISBN/ISSN numbers with details of publishers:

Faculty	Session	Books	ISBN	Publisher
Dr. N. L. Khobragade	2013-14	B. Sc. Semester –I	978-93-5142-698-1	Himalaya Publications, Nagpur
		B. Sc. Semester –II	978-93-5142-253-2	Himalaya Publications, Nagpur
	2014-15	B. Sc. Semester –III	978-93-5142-825-1	Himalaya Publications, Nagpur
		B. Sc. Semester –IV	978-93-5202-397-4	Himalaya Publications, Nagpur
	2015-16	B. Sc. Semester –V	978-93-5202-778-1	Himalaya Publications, Nagpur
		B. Sc. Semester –VI	-	Himalaya Publications, Nagpur

Faculty	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. N. P. Gaikwad	09	Nil	Nil	2.31	01

20. Areas of consultancy and income generated : NA

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.... :

Dr. N. P. Gaikwad

- Life Member of “The Indian Science Congress Association”, Kolkata. Membership No. L12930.



- Life Member of Von Karman Society for Advanced Study & Research in Mathematical Sciences, Jalpaiguri (WB).
22. Student projects
- b) Percentage of students who have done in-house projects including inter departmental/programme
- 100% Students performed project at B.Sc.II under EVS.
- c) Percentage of students placed for projects in organizations outside : Nil
the institution i.e.in Research laboratories/Industry/ other agencies
23. Awards / Recognitions received by faculty and students:
- Dr. N. L. Khobragade, Associate Professor and Head, Department of Mathematics was felicitated by the Award of **“Best Teacher” by RTM Nagpur University, Nagpur.**
24. List of eminent academicians and scientists / visitors to the department:
- Dr. S. S. Charjan, K.Z.S. Science College, Kalmeshwar, Nagpur
 - Dr. A. Qureshi, Sindhu Mahavidyalay, Nagpur
 - Dr. P. R. Dhongle, Porwal College, Kamptee, Nagpur
 - Dr. V. V. Lapse, Principal, Science College, Paoni.
25. Seminars/ Conferences/Workshops organized & the source of funding a)National b) International : Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-13	57	57	24	33	80%
2013-14	56	56	29	27	71%
2014-15	67	67	30	37	90%
2015-16	70	70	34	36	87.5%
2016-17	101	101	44	57	Appeared

27. Diversity of Students

Year	%of students from the same state	%of students from other states	% of students from abroad
2012-13	97.57 %	2 .43%	Nil
2013-14	98.33%	1.67%	Nil



2014-15	95.84	4.16%	Nil
2015-16	98%	2%	Nil
2016-17	97.09%	2.91%	Nil

28. How many students have cleared national and state competitive examinations : N.A.
such as NET, SLET, GATE, Civil services, Defense services, etc.?:

29. Student progression

Student progression	Against % enrolled
UG to PG	5 % approx.
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus recruitment	-
Entrepreneurship/Self-employment	5%

30. Details of Infrastructural facilities

Particulars	Details
Library	Departmental Library available with approx. 100 books
Internet facilities for Staff & Students	Facilities Available for Staff
Class rooms with ICT facility	Smart Room
Laboratories	Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

➤ All backward class students are availing the benefits of GoI Scholarships and Freeships.

Session	Number of Students	Financial Assistance by
2015-16	01	R. T. M. Nagpur University, Nagpur



32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sr.No.	Date	Name of Guest/Speaker	Designation and Institute	Title
1.	06/09/2012	Prof. Vivek Wagh	Visiting Faculty, Mohata Science College, Nagpur	Recent Trends in Mathematics
2.	19/08/2016	Mr. Sanjay Yadav	-	Preparation for IIT-JAM
3.	23/08/2016	Dr. M. Y. Apte	Ex-Head, Department of Physics, SFS College, Nagpur	Gravitation Waves

33. Teaching methods adopted to improve student learning:

- Chalk and Talk Method
- Power Point Presentation

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Faculty	Participation in Institutional Social Responsibility (ISR) and Extension activities
Dr. N. P. Gaikwad	<ul style="list-style-type: none"> ➤ Working as a Programme Officer, National Service Scheme Unit of the college for the session 2012-13 and 2013-14. ➤ Appointed as a Area Co-coordinator of National Service Scheme Unit of R. T. M. Nagpur University, Nagpur for the session 2014-15 and 2016. ➤ Donated Blood in Blood Donation Camp organized by College every year.

35. SWOC analysis of the department and Future plans

SWOC Analysis:

Strength	Weakness	Opportunities	Challenges
<ul style="list-style-type: none"> ➤ Highly Qualified and Dedicated Staff ➤ Extensive Student-Teacher Interaction 	<ul style="list-style-type: none"> ➤ Industry views are yet to be introduced 	<ul style="list-style-type: none"> ➤ Scope to do Masters in Industrial Mathematics having high job opportunities. ➤ Good opportunities for higher 	<ul style="list-style-type: none"> ➤ Declining Students interest in the Subject



		<p>education in insurance, Banking and Financial Sector</p> <ul style="list-style-type: none"> ➤ Post Graduation in Mathematics opens up opportunities in teaching field ➤ Good jobs available in B.P.O., I.T. and Software sector 	
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Future plans:

- Improve upon the students results profile.
- Intensive Student-Teacher interaction.
- Publishing research papers in reputed journals.
- To obtain Minor Research Project for the Department.
- More participation of the Department in Extension activities.
- To arrange guest lectures of eminent Mathematicians for students.
- To enhance the Research activities of the Department.



Evaluative Report of the Department of Botany

1. Name of the department : Botany
2. Year of Establishment : 1970
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : UG: B. Sc.
4. Names of Interdisciplinary courses and the departments/units involved
 - Along with botany other subjects which are of interdisciplinary nature like chemistry, zoology, microbiology are involved at UG level.
 - Diploma in Mushroom cultivation (career oriented course)
5. Annual/ semester/choice based credit system (programme wise)

Class	Year				
	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc I	Annual	Semester	Semester	Semester	Semester
B.Sc II	Annual	Annual	Semester	Semester	Semester
B.Sc III	Annual	Annual	Annual	Semester	Semester

6. Participation of the department in the courses offered by other departments : Ecology and environment from the department is taught to F. y. B. Sc. Home Science.
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil
9. Number of Teaching posts:

Name of Post	2012-13		2013-14		2014-15		2015-16		2016-17	
	Sanct.	Filled	Sanct.	Filled	Sanct.	Filled	Sanct.	Filled	Sanct.	Filled
Professor	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Associate Professor	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Assistant Professor	03	01	03	01	04	01	04	01	04	01



10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. P. T. Humane	M. Sc., Ph.D., NET	Assistant Professor & Head	Angiosperm Taxonomy, Ethnobotany, Phytochemistry, Medicinal plants	13.5 years	Nil

11. List of senior visiting faculty : Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :

2012-13		2013-14		2014-15		2015-16		2016-17	
Lect	Pract	Lect	Pract	Lect	Pract	Lect	Pract	Lect	Pract
66%	60%	66%	71%	66%	64%	66%	75%	66%	77%

*Lect.= Lectures; Pract.= Practicals

13. Student -Teacher Ratio : Department of Botany (B. Sc.)
(programme wise)

2012-13	2013-14	2014-15	2015-16	2016-17
107:01	132:01	171:01	171:01	174:01

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Name of Post	2012-13		2013-14		2014-15		2015-16		2016-17	
	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Lab. Assistant	01	01	01	01	01	01	01	Nil	01	Nil
Lab. Attendant	02	01	02	01	03	01	03	02	03	02

15. Qualifications of teaching faculty with D.Sc. / D.Litt./ Ph.D./ M. Phil. / PG.
Refer Q.10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received



Name of faculty	2012-13	2013-14	2014-15	2015-16	2016-17
Dr. P. T. Humane	Nil	Nil	01	01	Submitted

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :

- Major Research Project entitled **“Study of the Phytoremediation Activity of Some Wild Plant species and the effects of phytoremediation on taxonomically important characteristics”**. Funded by from SERB, DST New Delhi, amount sanctioned was Rs. 6 lakh and received grant of Rs. 5.5 lakh.

18. Research Centre /facility recognized by the University : Nil

19. Publications:

a) Publication per faculty: Number of papers published in peer reviewed journals (national /international) by faculty and students

- Dr. P. T. Humane published two research papers in peer reviewed journals given as follows:
 - **“Ethnobotany and Preliminary Phytochemical Analysis of some wound healing plants of Bhandara district (M. S.)”** in Journal of Biological and Physical Sciences, Vol. No. I(IV), p.n. 215-16, Nov., 2012, ISSN No. 2219-636X.
 - **“Extending Habitat of an Exotic Aquatic Weed *Alternanthera philoxeroides* (Mart.) Griseb. in Maharashtra, India”** in International Journal of Researches in Biosciences, Agriculture and Technology, Special issue (6), October 2015, p.n. 117-119; ISSN 2347-517X.

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

• Monographs : Nil

• Chapter in Books : Nil

• Books Edited

Books with ISBN/ISSN numbers with details of publishers Two books were published by Dr. P. T. Humane,

- **“Angiosperm Taxonomy”** for undergraduate students (B. Sc. Semester-III, Paper-I), published by **G. C. Publishers**, Ganeshnagar, Nagpur; July, 2014; ISBN 978-93-82962-34-2
- **“BOTANY”**: Cell Biology, Plant Breeding and Evolution for undergraduate students (B. Sc. Semester-III, Paper-I), published by **Central Techno Publications**, New Ramdaspath, Nagpur; July, 2015; ISBN 978-81-89178-64-2

➤ Citation Index : Nil

➤ SNIP : Nil

➤ SJR : Nil

➤ Impact factor : Nil



- h-index : Nil
20. Areas of consultancy and income generated:
- Plant identification and authentication facility was provided to the researchers in the field of plant sciences and pharmacognosy. The facility was provided free of cost.
21. Faculty as members in
- a) National committees : Nil
- b) International Committees : Nil
- c) Editorial Boards.... : Nil
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme :
- The department is having only UG course, there is no as such provision of in-house projects in syllabi, but as per the norms of RTM Nagpur University, Nagpur, Environmental science is a compulsory subject for the student of B.Sc. Part-II. The in-house projects were given to each student on environmental science. This indicates 100% students involved in the in-house projects.
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NA
23. Awards / Recognitions received by faculty and students : Nil
24. List of eminent academicians and scientists / visitors to the department
- **Dr. Prashant Jakhi**, Institute of Science Nagpur;
 - **Dr. Vinod Dongre**, Sewadal Mahila Mahavidyalaya, Nagpur;
 - **Mr. Subhash Somkuvar**, Dr. Ambedkar College, Nagpur;
 - **Dr. Sandeep Hate**, Sindhu Mahavidyalaya, Nappur;
 - **Mrs. Maya Jadhav**, LAD College, Nagpur,
 - **Dr. Ashwat Fulzele**, M. M. College of Science, Nagpur
25. Seminars/ Conferences/Workshops organized & the source of funding
- a) National : Nil
- b) International : Nil
26. Student profile programme/course wise: B. Sc. Part- I (Botany)

Name of the	Applications		Enrolled	
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Course/programme (refer question no. 4)	received	Selected	*M	*F	Pass percentage
2012-13	77	77	26	51	41.00-72.83
2013-14	70	70	19	51	39.83-57.83
2014-15	76	76	19	57	39.85-72.00
2015-16	77	77	21	56	49.23-74.00
2016-17	79	79	15	64	47.54-72.92

27. Diversity of Students

Name of the Course	% of students from the same state	of students from other States	% of students from abroad
B. Sc. (Botany)	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as : Nil
NET, SLET, GATE, Civil services, Defense services, etc.?

29. Student progression

Student progression	Against % enrolled
UG to PG	25-30%
PG to M. Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed	Nil
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	Nil

30. Details of Infrastructural facilities

- a) Library : Yes
- separate departmental library with over 400 books, journals, e-books, floras, thesis, etc. In addition to the departmental library, the library for competitive examinations contains 600 over books is also there in the department.
- b) Internet facilities for Staff & Students : Yes
- c) Class rooms with ICT facility : No
- d) Laboratories : Well equipped laboratory with 30 seating capacity, well maintained museum and room for staff and classwork materials as well as storage.

31. Number of students receiving financial assistance from college, university, government or other agencies



Most of students of the department are availing the facility of GOI scholarship as well as freeship as per the rules and regulations of govt of India as well as govt of Maharashtra.

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts : Nil
33. Teaching methods adopted to improve student learning
 - Basics of the subject were taught to the students at entry level.
 - Special attention was given to slow learners.
 - Extra classes were engaged for the students
 - Remedial classes
 - Class test and unit test
 - Internal assignments on full course paper
 - Revision of the syllabus at the end of session with ICT
34. Participation in Institutional Social Responsibility (ISR) and Extension activities Most of the students of the department actively participates in almost all the activities organized by the institute.
35. SWOC analysis of the department and Future plans Strength:
 - Qualified and experienced teaching staff
 - Well maintained and rich herbarium with over 2000 plant specimens.
 - Separate departmental library with over 500 books.
 - Separate library for competitive examinations purchased under entry in services sanctioned by UGC.
 - Well equipped laboratory with ICT facility

Weaknesses:

- Faculty crunch
- Need of some advanced instruments / equipments

Opportunity:

- The students have job options available in BSI, department of forest and taxonomic research institutes.
- More avenues in the field of agricultural research and business.

Challenges:

- Find difficult to maintain the standard of the subject due to large number of CHBs.

Future planning:

- To start the career oriented course 'Diploma in mushroom cultivation' from the session 2017-18
- To apply and undertake the major research projects
- To publish the research papers



- To publish the colour atlas for angiosperm plants
- To publish a flora of Bhandara district (M.S.) India
- To develop laboratory for research and to receive recognition for the research from the affiliating university.



Evaluative Report of the Department of Zoology

1. Name of the department : Zoology
2. Year of Establishment : 1970
3. Names of Programmes/Courses offered (UG, PG, M.Phil. ,Ph.D., Integrated Masters; Integrated Ph.D.,etc.) : UG
4. Names of Interdisciplinary courses and the departments/units involved : Nil
5. Annual/semester/choice based credit system(programme wise) :-

Class	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc I	Annual	Semester	Semester	Semester	Semester
B.Sc II	Annual	Annual	Semester	Semester	Semester
B.Sc III	Annual	Annual	Annual	Semester	Semester

6. Participation of the department in the courses offered by other departments :
 - H.sc.Department B.Sc II having Zool.Subject teach by the Zoology staff.
7. Course s in collaboration with other universities, industries, foreign institutions, etc : Nil
8. Details of courses/programmes discontinued (if any)with reasons : Nil
9. Number of Teaching posts

		Sanctioned	Filled	Vacant
Professors		Nil	Nil	Nil
Associate Professor		-	01	Nil
Assistant Professor	2012-13	04	02	01
	2013-14	05	02	02
	2014-15	05	02	02
	2015-16	05	01	03
	2016-17	05	01	03



10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. Of Ph.D. Students Guided for the
Dr.M.J.Dhongade	M.Sc,M.Phil,PhD	Asso. Professor	Mammalian Reproductive Physiology	28	Nil
Dr.Mrs.K.M.Paturkar	M.Sc,Ph D	Asst. Professor	Mammalian Reproductive Physiology	11	Nil

11. List of senior visiting faculty : Nil

12. Percentage of lectures delivered and practical classes handled (programme wise)
By temporary faculty

S.No	Year	Total work load	Work load of permanent teacher	Work load of contributory teachers	% of Contributory teachers
1	2012-13	71	50	21	29.57%
2	2013-14	77	50	27	35.06%
3	2014-15	72	38	34	47.22%
4	2015-16	72	38	34	47.22%
5	2016-17	78	38	40	51.58%

13. Student-Teacher Ratio (programmewise)

	2012-13	2013-14	2014-15	2015-16	2016-17
Student - Teacher Ratio	165:2	195:2	198:2	234:2	241:2

14. Number of academic supports staff (technical) and administrative staff: sanctioned and filled

Name of Post	2012-13		2013-14		2014-15		2015-16		2016-17	
	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled



Lab. Assistant	01	00	01	00	01	00	01	00	01	00
Lab. Attendant	02	02	02	02	03	02	03	02	03	02

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

- Same as question no. 10

16. Number of faculty with ongoing projects from- : Nil
 a) National
 b) International funding agencies and grants received
 17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. And : Nil
 total grants received
 18. Research Centre/facility recognized by the University : Nil

1 Publications:

a) Publication per faculty:-

Sr.no.	Name of Teacher	National	International	Total
1.	Dr.M.J.Dhongade	02	-	02
2.	Dr.K.M.Paturkar	01	-	01

Number of papers published in peer reviewed journals (national/international) by faculty and students

Number of publications listed in International Database(For Eg: Web of Science, Scopus ,Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)	Nil
Monographs	Nil
Chapter in Books	Nil
Books Edited	Nil
Books with ISBN/ISSN numbers with details of publishers	Nil
Citation Index	Nil
SNIP	Nil
SJR	Nil
Impact factor	Nil
h-index	Nil

20. Areas of consultancy and income generated : Nil
 262



21. Faculty as members in : Nil
- National committees
 - International Committees
 - Editorial Boards

22. Student projects

- Percentage of students who have done in-house projects including interdepartmental/programme :-E.V.S. Projects (100%)
- Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies : Nil

23. Awards/Recognitions received by faculty and students : Nil

24. List of eminent academicians and scientists/visitors to the department: -

Sr. No.	Name of Resource Person	Session	Name of Institute
1	Dr. A. S. Mohite	2012-13	Head of the Department , Sewadal Mahila Mahavidyalaya, nagpur
2	Dr. S.C. Masram	2012-13	RTM Nagpur University Campus, Nagpur
3	Dr.DNV Suresh	2014-15	Dr. Ambedkar College, Nagpur
4	Mr. R. Kshirsagar	2014-15	MCVC department Dharampeth M. P.Deo Memorial Science College Nagpur
5	Dr. Rupali Deshpande	2015-16 2016-17	Expert in Bioinformatics

25. Seminars/Conferences/Workshops organized & the source of funding

- National : - Nil
- International :- Nil

26. Student profile programme / course wise

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			M	F	



2012-13	09	9	01	08	55.55
2013-14	29	29	03	26	93.10
2014-15	39	39	06	33	74.35
2015-16	46	46	05	41	93.47
2016-17	58	58	12	46	Appeared

27. Diversity of Students

Name of the Course	%of students from the same state	%of students from other States	%of students from abroad
2012-13	100%	0%	0%
2013-14	100%	0%	0%
2014-15	100%	0%	0%
2015-16	100%	0%	0%
2016-17	100%	0%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET GATE, Civil services, Defence services, etc. : Nil

29. Student progression:-

Student progression	Against % enrolled
UG to PG	20%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-



Employed	Shraddha Patankar –Vipro-2012-13
• Campus selection	
• Other than campus recruitment	Nil
Entrepreneurship/Self-employment	Nil

30. Details of Infrastructural facilities

- a) Library :- No. of books are : - 327-, donated books(91) specimens copies, research journals are available. Reading facility is available for students and staff members .Home issue provision is available.
- b) Internet facilities for Staff & Students : Yes
- c) Class rooms with ICT facility. :- Nil
- d) Laboratories :- Yes
- LCD, Research equipment, equipment related to syllabus, different charts, practical related literature, cards are available.

31. Number of students receiving financial assistance from college, university, Government or other agencies

Financial Assistants	Year	No. of students
GOI	2012-13	102
GOI	2013-14	104
GOI	2014-15	102
GOI	2015-16	104

32. Details on student enrichment programmes (speciallectures/workshops/ seminar) with external experts

Sr. No.	Name of Resource Person	Session	Name of Institute	Topic
1	Dr. A. S. Mohite	2012-13	Head of the Department , Sewadal Mahila Mahavidyalaya, nagpur	Protein Synthesis
2	Dr. S.C. Masram	2012-13	RTM Nagpur University Campus, Nagpur	Biodiversity in Butterflies
3	Dr.DNV Suresh	2014-15	Dr. Ambedkar College, Nagpur	Methods of DNA Extraction
4	Mr. R. kshirsagar	2014-15	MCVC department Dharampeth M.	Fabrication of



			P.Deo Memorial Science College Nagpur	Aquarium
5	Dr. Rupali Deshpande	2015-16 2016-17	Expert in Bioinformatics	Bioinformatics

33. Teaching methods adopted to improve student learning :

- Basics of the subject were taught to the students at entry level.
- Special attention was given to slow learners.
- Extra classes were engaged for the students
- Remedial classes
- Class test and unit test
- Internal assignments on full course paper
- Revision of the syllabus at the end of session with ICT

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:- Nil

35. SWOC analysis of the department and Future plans

Strength	Weakness	Opportunities	Challenges
<ul style="list-style-type: none"> ➤ Highly Qualified and Dedicated Staff ➤ Extensive Student- Teacher Interaction 	<ul style="list-style-type: none"> ➤ Industry views are yet to be introduced 	<ul style="list-style-type: none"> ➤ Post Graduation in Zoology opens up opportunities in teaching field ➤ Good jobs available in B.P.O. 	<ul style="list-style-type: none"> ➤ Declining Students interest in the Subject

Future Plan:-

- a) Improve upon the student result profile
- b) To organize guest lecturers of eminent academicians for students
- c) To start activity like Vermi-composting





Evaluative Report of the Department of Statistics

1. Name of the department : Statistics
2. Year of Establishment : 1978
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : UG (B.Sc.)
4. Names of Interdisciplinary courses and the departments/units involved : N.A.
5. Annual/ semester/choice based credit system (programme wise) : B.Sc.- Semester
6. Participation of the department in the courses offered by other departments : Nil
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued (if any) with reasons : N.A.
9. Number of Teaching posts:

		2012-13		2013-14		2014-15		2015-16		2016-17	
	Position	S	F	S	F	S	F	S	F	S	F
	Professor										
	Associate professor		2		2		2		2		1*
	Assistant Professor	2		3		3		3		3	

S= Sanctioned, F=Filled

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.Mrs. C.P.Cholkar	M.Phil, Ph.D.	Associate Professor & Head	Probability and Distributions	38	Nil
Dr.Mrs.	M.Phil, Ph.D.	Associate Professor	Biostatistics	36	one

11.	List of senior visiting faculty	:	Nil
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12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

2012-13	2013-14	2014-15	2015-16	2016-17
0%	33%	14%	14%	75%



13. Student -Teacher Ratio (programme wise):

2012-13	2013-14	2014-15	2015-16	2016-17
81:2	105:2	95:2	94:2	125:1

- *(the two permanent faculties have superannuated in June 2016 and September 2016)

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sanctioned: 01(Assistant), 01

(Attendant) Filled:01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Same as mentioned in point no.10

16. Number of faculty with ongoing projects from : Nil

a) National

b) International funding agencies and grants received

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

No. of Projects	Year	Funding Agency	Amount Sanctioned
01(AVN)	2010-12	UGC	Rs.85,000/-

18. Research Centre /facility recognized by the University : Nil

19. Publications:

* a) Publication per faculty

* Number of papers published in peer reviewed journals (national international) by faculty and students:

Faculty	National	International	Total
Dr.Mrs. C.P.Cholkar	01	02	03

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs : Nil

Chapter in Books : Nil

Books Edited

Books with ISBN/ISSN numbers with details of publishers : Nil

Citation Index

SNIP



SJR

Impact factor

h-index

20. Areas of consultancy and income generated : Nil
21. Faculty as members in
 - a) National committees : Nil
 - b) International Committees
 - c) Editorial Boards
22. Student projects
 - a) Percentage of students who have done in-house projects including inter departmental/programme : 100%
 - b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies : Nil
23. Awards / Recognitions received by faculty and students : Nil
24. List of eminent academicians and scientists / visitors to the department
 1. Mrs. Shalini Bhoyar, Deputy Director General, NSSO(FOD), Ministry of Statistics and Planning
 2. Dr. Shriram G. Jyotishi, Professor, Shri Ayurved Mahavidyalay, Hanuman Nagar, Nagpur
 3. Dr. M.N. Deshpande, Retired Director & professor of Statistics, Institute of Science, Nagpur
25. Seminars/ Conferences/Workshops organized & the source of funding
 - a) National : Nil
 - b) International : Nil



26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc.(2012-13)	14	14	3	11	50%
B.Sc.(2013-14)	16	16	6	10	50%
B.Sc.(2014-15)	18	18	7	11	27.77%
B.Sc.(2015-16)	21	21	10	11	90%
B.Sc.(2016-17)	25	25	9	16	Appeared

27. Diversity of Students

Name of the Course:B.Sc.	% of students from the same state	% of students from other States	% of students from abroad
2012-13	100%	Nil	Nil
2013-14	87.5%	12.5%	Nil
2014-15	90%	10%	Nil
2015-16	100%	Nil	Nil
2016-17	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc : Nil

29. Student progression

Student progression	Year	Against % enrolled
UG to PG	2012-13	43%
	2013-14	31%
	2014-15	22%
	2015-16	24%
PG to M.Phil.	2012-16	N. A.
PG to Ph.D.	2012-16	N. A.
Ph.D. to Post-Doctoral	2012-16	N. A.



Employed	
• Campus selection	Nil
• Other than campus recruitment	13
Entrepreneurship/Self-employment	01

30. Details of Infrastructural facilities

a) **Library:**

- Departmental library with 125 books and central library

b) **Internet facilities for Staff & Students:**

- Internet facility is available in the staff room as well as in the laboratory for the staff and students

c) **Class rooms with ICT facility:**

- 3 Smart rooms with ICT are available.

d) **Laboratories:**

- Spacious laboratory with computers, Internet and LCD Projector

31. Number of students receiving financial assistance from college, university, government or other agencies: For entire college

S.No.	Year	No. Of admitted students	E.B.C.	P.T.C.	S.T.C.	GOI/Free ship
1	2012-13	594	10	--	01	254
2	2013-14	684	13	01	03	326
3	2014-15	739	02	01	02	382
4	2015-16	851	06	03	03	399
5	2016-17	899	09	03	02	289

32. Details on student enrichment programmes (special lectures / workshops /



seminar) with external experts:

Sr. No.	Name of Guest/Speaker	Designation and Institute	Title	Date
1.	Mrs. Shalini Bhoyar	Deputy Director General, NSSO(FOD), Ministry of Statistics and Planning	Indian Statistical System	4/10/2012
2.	Dr. Shriramji G. Jyotishi	Professor, Shri Ayurved Mahavidyalay, Hanuman Nagar, Nagpur	Applications of Statistics in Medical Sciences	9/10/2013

33. Teaching methods adopted to improve student learning:

- Seminars by students,
- Use of PPT's prepared by the faculty,
- descriptive and objective class tests

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- About 20% students participate in ISR and Extension activities through NSS and NCC

35. SWOC analysis of the department and Future plans

Strength	Weakness
<ul style="list-style-type: none"> • Very enthusiastic and dedicated faculty • Department with alumni occupying • Distinguished positions, who are in touch with the college and guide the students about the areas in which statisticians are needed. 	<ul style="list-style-type: none"> • Both the faculties, who have worked in the department for more than 35 years have superannuated in 2016. Hence currently the department has five temporary faculty.
Opportunities	Challenges
<ul style="list-style-type: none"> • The current trend of students is to opt for Science stream rather than applied science streams i.e. Engineering. 	<ul style="list-style-type: none"> • To manage the department without permanent faculty.
<p>FUTURE PLANS :</p> <ul style="list-style-type: none"> • To Start certificate course in Statistics for students not opting for Statistics. 	



Evaluative Report of the Department of Electronics

1. Name of the department : Electronics
2. Year of Establishment : 1985
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : UG with Electronics as one of the subject
4. Names of Interdisciplinary courses and the departments/units involved : NIL
5. Annual/ semester/choice based credit system (programme wise) : UG : B.Sc.- Semester from 2013-14
6. Participation of the department in the courses offered by other departments

Course	Department
NIL	NIL

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL
8. Details of courses/programmes discontinued (if any) with reasons : NIL

9. Number of Teaching posts Sanctioned Filled Professors Associate Professors Asst. Professors.

Position	2012-13		2013-14		2014-15		2015-16		2016-17	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
Professor	-	-	-	-	-	-	-	-	-	-
Associate professor	-	-	-	-	-	-	-	-	-	-
Assistant Professor	3	3	3	3	3	3	3	2	3	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.), Name Qualification Designation Specialization No. of Years of Experience No. of Ph.D. Students guided for the last 4 years

Name of Faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. C. V. Dhuley	M.Sc., Ph.D	Associate Professor	Material Science	Retired on 30 th June 2015	Nil
Mrs. P. A. Likhite	M. Sc., M.Phil	Associate Professor	Material Science	Voluntary Retired on 30 th Nov. 2016	Nil
Mrs. V. V. Rangari	M.Sc., SET, (Submitted the Ph.D thesis)	Assistant Professor	Luminescence and Instrumentation	19 years	Nil

11. List of senior visiting faculty : NIL
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : UG: B.Sc.-Theory: 60% , Practical: 50% (C.H.B. faculty)

13. Student -Teacher Ratio (programme wise) :

UG	108:1
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14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sanctioned	Filled
02	02

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / : PG-SET-01
PG.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received.

National	International
NIL	NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

No. of Projects	Year	Funding Agency	Amount Sanctioned
01(Minor Research Project)	2010-12	UGC	Rs.1,72,000/-
01(Minor Research Project)	2011-13	UGC	Rs.1,92,000/-
01(Minor Research Project)	2011-13	UGC	Rs.1,75,000/-
Total			Rs.5,39,000/-

18. Research Centre /facility recognized by the University : NA



19. Publications:

Publication per faculty				
Number of papers published in peer reviewed journals (national/international) by faculty and students	Faculty	National	International	Total
	Dr. C. V. Dhuly	-	-	-
	Mrs. P. A. Likhite	-	-	-
	Mrs. V. V. Rangari	01	05	06
Number of publication listed in International Database (For eg. Web of Science, Scopes, Humanities International complete, Dare database- International Social sciences Directory, EBSCO host etc.		5 papers are listed in "Google Scholar"		
Monographs		Nil		
Chapter in Books		01		
Books Edited		Nil		
Books with ISBN/ISSN numbers with details of publishers		Nil		
Citation Index		10		
SNIP		Nil		
SJR		Nil		
h-Index		02		
Impact factor		1 to 1.8		

20. Areas of consultancy and income generated : NIL

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

National Committees	International Committees	Editorial Board
-	-	-

22. Student projects

- a) Percentage of students who have done in-house projects : NIL including inter departmental/programme
- b) Percentage of students placed for projects in organizations : NIL outside the institution i.e. in Research laboratories/Industry/



other agencies

23. Awards / Recognitions received by faculty and students:

1. Inter-Collegiate quiz competition was held at J. B. Science College, Wardha Team comprising of ChetanBhattad, Deepak Choudhary, and Vijay Soni stood 2nd amongst 19 team
2. Inter-Collegiate power point competition was held at Dr. AmbedkarCollge, Nagpur on 29th December 2012. Vijay Soni of B.Sc.I won the third position from amongst 30 participants.

24. List of eminent academicians and scientists / visitors to the department

Dr. MadhukarKorde	Retired Professor, Institute of Science,, Nagpur	Chief Guest lecture on “Future Prospectus in B.Sc. Electronics” in Inauguration of Electronics Association-2012- 13.
Dr. (Mrs.) T. Sengupta	Associate Scientist, MRSAC, Nagpur	Guest Lecture on “Remote sensing satellite Development in India and its Applications”
Dr. V. B. Hirulkar	Associate Professor, SFS college, Nagpur	Guest Lecture on “Advances in semiconductor Electronics” in Inauguration of Electronics Association-2013- 14.
Prof. Subhashish Chandra	Assistant Professor, Institute of Forensic Sciences, Nagpur	Guest lecture on “ Interesting and useful aspects of Electroniocs”

25. Seminars/ Conferences/Workshops organized & the source of funding

a) Nationalb) International

One day workshop for Electronics teachers of RTM, NU to crystallize and finalize the semester pattern syllabus of B. Sc. in subject Electronics of RTM, NU, Nagpur to be implemented from 2013-14	Fund given by college	28 th July 2012
Two day workshop for hands on training for Electronics Circuit Assembly was arranged for students	Self Funded	11 th and 12 th March 2015
Power point competition for electronics students	Self Funded	31 st March 2015



26. Student profile programme/course wise:

Name of the Course /Programme (refer question no. 4)	Application received	Selected	Enrolled		Pass percentage of B.Sc.Final Year
			Male	Female	
2012-13	56	53	39	14	53.8%
2013-14	48	45	35	10	100%
2014-15	50	48	36	12	64.7%
2015-16	55	48	37	11	83.3%
2016-17	60	45	32	13	Not Received

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2012-13	100%	00	00
2013-14	100%	00	00
2014-15	100%	00	00
2015-16	100%	00	00
2016-17	100%	00	00

28. How many students have cleared national and state competitive : 02
examinations: such as NET, SLET, GATE, Civil services, Defense services, etc.?:

29. Student progression

Student Progression	Years	Total Enrolled	Against % Enrolled
UG to PG	2012-13	13	23%
	2013-14	14	.07%
	2014-15	17	0.05%
	2015-16	18	0.05%
PG to M. Phil	2012-16	NA	-
PG to Ph.D	2012-16	NA	-
Ph.D to Post-Doctoral	2012-16	NA	-
Employment • Campus Selection • Other than campus selection	2012-16	62	25%
Entrepreneurship/ self employment	2012-16	Data not received	—



30. Details of Infrastructural facilities

a) Library	Department have departmental library with adequate number of Reference Books and Text Books
b) Internet facilities for Staff & Students	Yes
c) Class rooms with ICT	Yes
d) Laboratories	Electronics Laboratory is well equipped with basic instruments

31. Number of students receiving financial assistance from college, : 318 (2012-2016) university, government or other agencies

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Sr.No.	Name of Guest/Speaker	Designation and Institute	Title	Date
1.	Dr. Madhukar Korde	Retired Professor, Institute of Science,, Nagpur	Chief Guest lecture on “Future Prospectus in B.Sc. Electronics” in Inauguration of Electronics Association-2012- 13.	10 th Dec. 2012
2.	Dr. (Mrs.) T. Sengupta	Associate Scientist, MRSAC, Nagpur	Guest Lecture on “Remote sensing satellite Development in India and its Applications”	15 th January 2013
3.	Dr. V. B. Hirulkar	Associate Professor, SFS college, Nagpur	Guest Lecture on “Advances in semiconductor Electronics” in Inauguration of Electronics Association-2013- 14.	29 th September 2013
4.	Prof. Subhashish Chandra	Assistant Professor, Institute of Forensic Sciences, Nagpur	Guest lecture on “Interesting and useful aspects of Electronics”	26 th March 2015

33. Teaching methods adopted to improve student learning:

1. Seminars and Guest Lectures
2. Hands on training
3. Power point presentation
4. Use of Moodle Class room
5. Use of simulation



34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Being a Member of NSS unit of the college , actively conducts various social activities.

35. SWOC analysis of the department and Future plans:

Strength	Weakness
<ul style="list-style-type: none"> • Competent and well qualified staff. • Good results as compared to other colleges. • Availability of Research facilities. 	<ul style="list-style-type: none"> • Insufficient teaching staff. • Input of low caliber students
Opportunities	Challenges
<ul style="list-style-type: none"> • Most UG students can do PG in Electronics. • Students can appear for Competitive examination. • Employment in Electronics & research Industries. 	<ul style="list-style-type: none"> • Less scope to Electronics Science since B.E. in Electronics are more preferred. • Less job opportunities in pure Electronics.
<p style="text-align: center;">FUTURE PLANS :</p> <p>To enhance students exposure to the development in the field of Electronic</p> <ul style="list-style-type: none"> • Plan to organize skill oriented workshops, so that students can get hands on training. • To Start certificate course on skill oriented topics & add-on courses. • To start interdisciplinary research work . • To reuse the discarded smart mobile phone as a server to store the Electronics subject related information for the electronics students 	



Evaluative Report of the Department of Microbiology

1. Name of the department : Department of Microbiology
2. Year of Establishment : 1986
3. Names of Programmes / Courses offered : UG :- B.Sc in Microbiology
(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
4. Names of Interdisciplinary courses and the departments/units involved :
 - Department of Botany, Zoology & Chemistry are associated with Microbiology Department since 1986 at B.Sc. Level.
 - The Department is also associated with faculty of Home Science to teach Public Health & Epidemiology at B.Sc. Level since 1992.

5. Annual/ semester/choice based credit system (programme wise)

Class	Year				
	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc I	Annual	Semester	Semester	Semester	Semester
B.Sc II	Annual	Annual	Semester	Semester	Semester
B.Sc III	Annual	Annual	Annual	Semester	Semester

6. Participation of the department in the courses offered by other departments :
 - Dr. Mrs. A. S. Kulkarni :-Coordinator of UGC sponsored career oriented certificate and diploma courses in Bio-informatics.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:- : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil

9. Number of Teaching posts

No. of Teaching Post	Sanctioned					Filled				
	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17
Associate professor	-	-	-	-	-	3	3	2	2	2
Assistant professor	04	04	04	04	04	-	-	-	-	-

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)



Name	Qualification	Designation	Specialization	No. of Years of experience	No of PhD Students guided in last 4 years
Dr. Mrs. A. S. Kulkarni	M.Sc., Ph.D.	Head & Associate Professor	Microbiology	30 years	Nil (Ongoing 03)
Dr. Mrs. V. R. Katoke	M.Sc., Ph.D.	Associate Professor	Microbiology	years	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :-

Class	FY B.Sc.	SY B.Sc.	TY B.Sc.	TY B.Sc. H.Sc
%	17%	25%	96%	100%

13. Student -Teacher Ratio (programme wise) B.Sc I,II,III Year

No of students	No of teachers	Ratio
181	02	90:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Sanctioned	Filled
Academic support staff (technical)	02	02
Administrative staff	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. : Refer Question No. 10
16. Number of faculty with ongoing projects from : Nil
- a) National
- b) International funding agencies and grants received



17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Dr. Mrs. A. S. Kulkarni

Sr. No.	Title	Funding Agency	Time Period	Grant	
				Sanctioned	Received
1	Isolation & Characterization Of Novel Bactericin Against Multidrug Resistant Pathogens File no :-47-2123/WRO.	UGC	2012-14	Rs. 175000/-	Rs. 170000/-

18. Research Centre /facility recognized by the University : Nil

19. Publications:

a) No of papers published in peer reviewed journals (National/International)

1. Publications: Dr. Mrs. A. S. Kulkarni

Academic Session 2012-2013

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Monitoring of Antimicrobial Effect of GC-MS Standardized Melaleuca alternifolia Oil (Tea Tree Oil) On Multidrug Resistant Uropathogens. (DOI > 10.9790/3008-0220614)	IOSR Journal of Pharmacy & Biological Sciences (IOSRJPBS) Vol 2, Issue 2 July – August 2012), PP 06-14	ISSN : 2278-3008	Peer reviewed Impact Factor :- (3.83) Citation Index 01
3	Survey and analysis of physicochemical parameters, heavy metals and microbial indicators to investigate pollution status of well waters of Surendra nagar area of Nagpur.	Bionano Frontier Vol 2, pp. 35-37	ISSN 0974-0678	Peer reviewed 0.2334
4	In vitro assessment of antibacterial efficacy and photochemical screening of some plant extracts of family Rutaceae.	Bionano Frontier Vol 2, pp. 131-133	ISSN 0974-0678	Peer reviewed 0.2334
5	Studies on Characterization of Nosocomial <i>E. Coli</i> Isolates on the basis of Plasmid Profiling and Resistogram	Journal of Biological and Physical Sciences, Vol. 1, pp. 53-56	ISSN 2319 – 636 X,	Peer reviewed
6	Elucidation of Secondary metabolites from thyme oil and comparing its antimicrobial potential with conventional	Journal of Life Sciences and Technologies Vol. I March 2013 Page 29-	ISSN 2301-3672 Doi: 10.12	Peer reviewed



	antibiotic against uropathogens.	32	720/ Jolst 1.1.21-32	
7	In Vitro Assessment of Antibacterial Efficacy and Phytochemical Screening of Some plant extracts of four species of citrus of family Rutaceae. Page no. 159-67	J. Microbial World Vol. 14 No – 2, 2012	ISSN 0972 1487	Peer reviewed
8	Studies on characterization of Nosocomial <i>E.coli</i> isolates on the basis of Plasmis profiling and Resistogram	J. of Biological and Physical Sciences Vol 1 PP 53-56	ISSN 2319-636X	Peer reviewed

- ❖ Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.): Monographs

Chapter in Books: Articles /Chapters Published in Books

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	A Pedagogy of social responsibility An overview, (An – Article) Page no. (61-63)	Quality Assurance in Higher Education : Issues and Concerns	ISBN. 978-93-80287-80-5	Yes
2	Research Methodology in Science An overview (A Chapter) Page Nos. 16-29	Research Methodology	ISBN. 978-81-922229-2-9	Yes

Books Edited (2012-13) as Editor

Sr. No.	Title with page Nos.	Type of Book and Authorship	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Quality Assurance in Higher Education : Issues and Concerns.	Editor of A book on NAAC workshop proceedings.	ISBN. 978-93-80287-80-5	Yes

Academic Session 2013-14

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Antibiotic vulnerability response of Avian Pathogenic <i>E.coli</i> Serotypes from small and large Poultry farms of Nagpur	The Indian J. of Field Veterinarians April-June 2013/Vol. 8(4) 26-28;	ISSN 0973-3175	Peer reviewed Citation Index 01



2	Comperative phytochemical Analysis and Resilience Pattern Exhibited by thyme and tea tree oil against selected Poultry isolates, PP 113-117	IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS), Vol 4 ,Issue 4(Jul-Aug,2013)	e-ISSN:2319-2380, p-ISSN:2319-2372	Peer reviewed Impact Factor 3.26
3	GC-MS, FT- IR and NMR Spectroscopy Analysis for Metabolome Profiling of Thyme Oil Page No. 945-949	Asian J Research of Che. 6(10), October, 2013	ISSN 0974-4169	Peer reviewed Citation index:-01
4	Tea Tree Oil Induced ultramicroscopic Changes in Escherchia Coli Serotype 01 Page No. 25-31	Asiatic Journal of Biotechnology Resource Jan 2014, Vol. 4, Issue 3	ISSN 2249-2399	Peer reviewed
5	Systematic Characterization of metabolomes of Thymus Vulgaris and Augmenting its antimicrobial potential against APEC, a common poultry pathogen Page No. 54-58	Asiatic Journal of Biotechnology Resource Jan-2014, Vol. 4, Issue 3	ISSN 2249-2399	Peer reviewed
6	Phytochemical Screening and Bactericidal effect of some plants oils of family Apiaceae, Lamiaceae and Myrtaceae against APEC, a Microbe of Zoonotic Importance	International J. of Researches in Biosciences ,Agricultures and Technologies. May 2014, Issue 2, Vol II	ISSN 2347-517 X	Peer reviewed COSMOS impact factor 5.060

(Academic Session 2014-15)

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Phytochemical prospection of fennel oil using GC-MS, FT –IR and NMR Spectroscopy	Proceeding of UGC Sponsored National Conference on Recent Development in Material Science and Technology (RDMST – 2014)	978-81-9264-87-3-6	Peer reviewed
2	Comparative Bacterial Efficiency of Some Plant Essential Oils against Uropathogenic MDR E.Coli	International Journal of Researches in Bioscience, Agriculture & Technology December 2014	ISSN No. 2347-517X	Peer reviewed COSMOS Impact factor:-5.06
3	Isolation of Keratinophilic Fungi from Unexplored Area of Madhya Pradesh	International Journal of Research in Bioscience, Agriculture & Technology December 2014	ISSN No. 2347-517 X	Peer reviewed

(Academic Session 2016-17)

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
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1	Isolation, Histopathological Investigation and AntibioGram Study of E.Coli Serogroups in Broilers Vol.6 Page No. 1-4	Sanshodhan National level Peer Reviewed Annual Research Journal	ISSN No. 2249-8567	Peer reviewed
2	Potential Impact of QAC's on antibiotic resistant hospital acquired pathogens. Vol.6 Page No. 11-13	Sanshodhan National level Peer Reviewed Annual Research Journal	ISSN No. 2249-8567	Peer reviewed

❖ **Citation Indices Since 2012 = 24,**

❖ **h- index = 2,**

❖ **i10-index 1**

(Academic Session 2012-14)

Dr. Mrs. V. R. Katoke:

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Transformation of flavonoid naringin by <i>Aspergillus niger</i> ITCC4515 using laboratory fermenter (Model L- 1523 Swizerland) V. R. Katoke & G. B. Shinde	J. of Biological & Physical Sciences ISSN No. 2319- 636x, 3-5 Nov. 2012, Special Issue, Pg. No. 48-52	ISSN No. 2319-636x	Peer reviewed
2	Biotransformation of Flavomnoid Naringin, Optimisation of various Fermentation Parameters V. R. Katoke & G. B. Shinde	International Journal of Researches in Biosciences, Agriculture & Technology ISSN No. (On-line) 2347.417x, 20 th Dec. 2014, 569-578	ISSN No. (On-line) 2347.417x	Peer reviewed

Chapter in Books: Articles /Chapters Published in Books

Sr. No.	Title with page Nos.	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
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1	The Quality Enhancement of Education Through Learning of Inner Sciences.	Quality Assurance in Higher Education : Issues and Concerns	ISBN. 978-93-80287-80-5	Peer reviewed
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20. Areas of consultancy and income generated : Applied Microbiology Rs. 26,600/-

21. Faculty as members in Dr. Mrs. A.S. Kulkarni

a) National committees

- Life member of **AMI**: Association of Microbiologist of India
- Life member of Microbiologist society of India

b) International Committees :-

- Life Member and Executive Council Member of GBF: Global Biotech Forum Nagpur India

c) Editorial Board :

- Member of ISSN indexed Peer Reviewed National Journal Sanshodhan released by C. P & Berar College, Nagpur-

Dr. Mrs. V.J.Katoke

a) National committees

- Life member of IWSA: Indian women scientist association

b) International Committees :-

- Life Member of GBF: Global Biotech Forum Nagpur India

22. Student projects-

- ❖ 100% students participate in assignments on the subjects in the form of projects submitted towards internal assessment as a part of their course work at all levels at the UG programme in the course.

23. Awards / Recognitions received by faculty and students :- Dr. Mrs. A. S. Kulkarni:
(2012-13)

Received best poster presentation award in International Conference organized by IInd World Congress for Man & Nature 2012 November 03,04,05, 2012 on Global Change Impact on Biodiversity, Culture & Technology in association with Sevadal Mahila Mahavidyalaya, Nagpur.



Received IIIrd prize for poster presentation in the UGC Sponsored National Conference on Pharmacogenomics: Revolutionizing Personalized Medicine organized by Nabira Mahavidyalaya, Katol 21&22 September, 2012.

Nominated as president of RTM Nagpur University Microbiology Teachers Association.

Appointed as subject expert for the selection of PGT in Biology at Jawahar Navoday Vidyalaya Samiti under HRD Ministry Regional Office Pune. On 18th June 2012.

(2013-14)

Recognition :

- Received first prize for poster presentation at UGC Sponsored National Seminar on “Biodiversity Conservation a Global Need” organized by J. M. Patel Arts, Commerce and Science College, Bhandara.

24. List of eminent academicians and scientists / visitors to the department (Academic Session 2012-13)

Dr. C. D. Mayee, former Vice – Chancellor of Parbhani University and Ex-Director of CICR.

Dr. Anjali Deshpande, All India Sales Manager, Himedia Laboratories, Mumbai.

(Academic Session 2013-14)

Dr. Sharad Nimbalkar VC(Ex) Punjabrao Krishi Vidyapeeth, Akola

Dr. Reeta Isarani, Sr. Scientist CSIR, AGMARK Laboratory, Nagpur.

Dr. K. Roychoudhuri, Chairman BOS, RTM Nagpur University, Nagpur.

Dr. M. L. Jisnani, HOD Sindhu Mahavidyalaya, Nagpur.

Mrs. Pratibha Puranik, Electrical Engineer & Spiritual Counselor from Pune.

(Academic Session 2014-15)

Dr. Arti Saoji, Ex- Director, Institute of Science, Nagpur.

Dr. Moghe, HOD, Deptt. of Biotechnology Kamla Nehru Mahavidyalaya, Nagpur.

Prof. Gulhane, Deptt. of Zoology, Institute of Science, Nagpur.

Prof. Maheshawari HOD, Biotechnology North Maharashtra University, Jalgaon.

(Academic Session 2015-16)

Dr. Atul Kulkarni, Sr. Scientist, Rutgers Research Institute, New Jersey, USA.

Dr. A. M. Deshmukh, Ex-Head Dept. of Microbiology, Dr. B. R. Ambedkar Marathwada University, Aurangabad.



Dr. Manoj Bhandarkar, Deputy Director, Central Forensic Research Laboratory, Nagpur.

Dr. Krishna Veni Aiyangar, HOD Dept. of Biotechnology, LAD College, Nagpur.

Dr. Alka Chaturvedi, Head PGTD Department of Botany RTM Nagpur University, Nagpur.

Dr. V. Y. Deoghare, Asst. Director, Regional Biofertilizer Centre, Nagpur.

(Academic Session 2016-17)

Dr. Swati Peshwe, Associate Professor, Institute of Science, Nagpur.

Dr. Archana Moon, Associate Professor PGTD of Biochemistry, RTM Nagpur University, Nagpur.

Dr. Vijay Charde, HOD Microbiology, Taywade College, Koradi.

Dr. Surekha Kalkar, Ex-JD, Amravati Division & Head Department of Botany, Institute of Science, Nagpur.

Dr. Santosh Kasbekar, Head Department of Microbiology, Sindhu Mahavidyalaya, Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding National & International:

Academic Session 2012-13 :

National Workshop

Dr. Mrs. A. S. Kulkarni

Organizing secretary of NAAC Sponsored National Workshop on **“An insight into new strategies and policies of NAAC into higher education”**. (October 12-13, 2012). Funding agency NAAC Bangalore amount, received RS. 75000/-

(2013-14) :

University Level Workshop Convener of Workshop

Orientation Workshop for college teachers on Semester Pattern syllabus discussion for (B.Sc. Part – I) Under curriculum design and development 9th Sept. 2013

(2014-15) :

International Conference

Co-organizing Secretary.

Third Global Sustainable Biotech Congress 2014. Organized by North Maharashtra University Jalgaon in Collaboration with Global Biotech Forum, Nagpur & CETYS University, Mexico.

**Convener of National Workshop**

Seven Days National Interdisciplinary Workshop On “**Innovate 2015 Emerging Trends in Research Methodology**” Sponsored by Indian Science Congress, Nagpur Chapter & Global Biotech Forum(GBF) Nagpur, India. from 20th April to 27th April, 2015

Funding agency GBF Rs.10,000/-

Amount generated through registrations of participants . Rs. 2,90,000/-

26. Student profile programme/course wise:

Name of the Course/programme UG Courses	Academic year	Applications received	Selected	Enrolled		Pass percentage
				M	F	
TY B.Sc.	2012-13	15	15	1	14	50%
TY B.Sc.	2013-14	33	33	3	30	60.60%
TY B.Sc.	2014-15	35	35	3	33	65%
TY B.Sc.	2015-16	41	41	3	38	97.65%
TY B.Sc.	2016-17	48	48	12	36	Appeared

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
FY to TY B.Sc.	98 %	02%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : Nil

- But one of our students Mr. Ajay Singh Sengar Cleared NPTEL Exam conducted by IIT Madras Twice.

29. Student progression

Student progression	Against % enrolled
UG to PG	20-30%
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA



Employed	
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	0.1% --
Entrepreneurship/Self-employment	4-5%

30. Details of Infrastructural facilities

a) Library : Yes

- The Department has well maintained Library which houses 130 Books which include text books, reference books & Journal in addition to college central library.

b) Internet facilities for Staff & Students : Yes

c) Class rooms with ICT facility : Yes

d) Laboratories : Yes

- The department has well equipped laboratory with ICT facility in it.

31. Number of students receiving financial assistance from college, university, Government or other agencies

Academic Session 2012-13										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	26 GOI	6 GOI	3 GOI	01 GOI	01GOI	--	--	--	5 EBC	42
2 nd Year	23 GOI	9 GOI	3 GOI	02 GOI	-	-	-	-	1 EBC	38
3 rd Year	4 GOI	2 GOI	--	--	--	--	--	--	-	06
Total	53 GOI	17 GOI	6 GOI	03 GOI	01 GOI	--	-	-	6 EBC	86

Academic Session 2013-14										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	15 GOI	8 GOI	1GOI	1 GOI	-	1 SBC	-	-	1 EBC	27
2 nd Year	23 GOI	8 GOI	3GOI	2 GOI	-	-	-	-	-	36
3 rd Year	10 GOI	3 GOI	-	-	-	-	-	-	-	13
Total	48 GOI	19 GOI	4 GOI	3GOI	-	1 SBC	-	-	1 EBC	76



Academic Session 2014-15										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	20 GOI	6 GOI	-	1 GOI	-	1 SBC	-	-	-	28
2 nd Year	14 GOI	6 GOI	1 GOI	-	-	1 SBC	-	-	-	22
3 rd Year	7 GOI	6 GOI	1GOI	-	-	-	-	-	-	14
Total	41 GOI	18 GOI	2 GOI	1 GOI	-	2 SBC	-	-	-	64

Academic Session 2015-16										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	19 GOI	9 GOI	-	1 GOI	-	1 GOI	1 STC	1 PTC	-	32
2 nd Year	19 GOI	5 GOI	-	1 GOI	-	1GOI	-	-	-	26
3 rd Year	12 GOI	6 GOI	4 GOI	-	-	-	-	-	-	22
Total	50 GOI	20 GOI	4 GOI	2 GOI	-	2 SBC	1 STC	1 PTC	-	80

Academic Session 2016-17										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	33 GOI	14 GOI	1 GOI	5 GOI	1 GOI	3 GOI	-	-	-	14
2 nd Year	28 GOI	12 GOI	1 GOI	1 GOI	-	1GOI	-	-	-	20
3 rd Year	31 GOI	4 GOI	1 GOI	2GOI	-	1 GOI	-	-	-	21
Total	92 GOI	30 GOI	3 GOI	8 GOI	1 GOI	5 SBC	-	-	-	55

32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts .

The details of students enrichment programmes organized by the department are as follows:-

(Academic Session 2012-13)

Sr. No.	Activity	Date	Topic	Guest Speaker	Name of Institute
1	Guest Lecture	29 th Aug. 2012	Opportunity in the Field of Management for Microbiology Students	Dr. Anjali Deshpande, Alumnus of Dept.	All India Sales Manager, Himedia Laboratories, Mumbai
2	Installation of	13 th	Nuances of	Dr. C. D. Mayee	Former Vice –



	"Microcosm" & Guest lecture	Sep. 2012	Biosciences		Chancellor of Parbhani University And Ex-Director of CICR, Nagpur.
3	Visit to Research Organization	26 th Sep. 2012	Visit to NEERI		
4	Power Point Presentation Competition	15 th Dec. 2012		Mrs. Kiran Patil	Department of Microbiology, LAD College, Nagpur
5	Quiz Competition was organized by Department of Microbiology, Dharampeth M. P. Deo Memorial Science College, Nagpur				
6	Intercollegiate Scientific Rangoli Competition was organized by Department of Microbiology, Dharampeth M. P. Deo Memorial Science College, Nagpur	17 th Dec. 2012	Competition based on Biological Science	Mrs. Seema Nimbarte & Mr. Mrs. Reena Shah	Department of Microbiology, Sevadal Mahila Mahavidyalaya, and Department of Zoology, Mohta Science College, Nagpur
7	Hands on training was imparted under the Industry – Institute Interaction. The Workshop was organized in collaboration with Himedia, Mumbai	21 st Jan. 2013	Techniques in Molecular Biology		

(Academic Session 2013-14)

Sr. No.	Activity	Date	Guest Speaker	Name of Institute
1	Installation of Students association "Microvision" and Guest Lecture on food Safety	3 rd Sept. 2013	Dr. Reeta Isarani	Sr. Scientist CSIR, AGMARK Laboratory, Nagpur
2	Visit to City T.B. Hospital, Nagpur	27 th Sept. 2013		
3	A Guest lecture on the topic Role of Spiritual values in students life	19 th Oct. 2013	Mrs. Pratibha Puranik	Electrical Engineer, Pune
4	In house power point presentation competition	30 th Dec. 2013		

(Academic Session 2014-15)

Sr. No.	Activity	Date	Guest Speaker	Name of Institute
1	Installation of students association "	22 nd Sept.	Dr. Aarti Saoji	Ex-Director, Institute of



	jarasims” & Guest lecture on Global Warming	2014		Science, Nagpur
2	Workshop for B.Sc. Students on Career After Graduation	10 th Nov. 2014		Clinovision (Clinical Research Company, Nagpur Branch.
3	Visit to Indira Gandhi Rugnalaya, Nagpur	18 th Nov. 2014		
4	Intercollegiate PPT Presentation Competition	23 rd Dec. 2014	Dr. Moghe & Prof. Gulhane	Kamla Nehru Mahavidyalaya & Institute of Science, Nagpur
5	Visit to Hedgewar Blood Bank, Nagpur	30 th Dec. 2014		
6	Organized Screening test for Bank Entrance Exam.	14 th Jan. 2015	Mr. Rahul Vaidya	
7	Visit to Science Exhibition jointly organized by Indian Science Congress & Raman Science Centre, Nagpur	22 nd Feb. 2015		

(Academic Session 2015-16)

Sr. No.	Activity	Date	Guest Speaker	Name of Institute
1	Guest Lecture	16 th July 2015	Dr. Atul Kulkarni, Alumnus of Dept.	Rutgers Research Institute New Jersey, USA
2	Guest Lecture	19 th August 2015	Dr. A . M. Deshmukh	Head Dept. of Microbiology Marathwada University, Aurangabad
3	Installation of Students Association & Guest Lecture	12 th September 2015	Dr. Manoj Bhandarkar	Deputy Director, Central Forensic Research Laboratory, Nagpur.
4	Intercollegiate Scientific Rangoli Competition	26 th September 2015	Dr. Krishana Veni Aiyangar & Dr. Seema Ubale	LAD College, Nagpur
5	Regional Level Workshop On Biofertilizer Production Terchnology	31 st March 2016	Dr. Mrs. Alka Chaturvedi	Deptt. of Head PGTD Department of Botany RTM Nagpur University Campus, Nagpur

(Academic Session 2016-17)

Sr. No.	Name of the Activity	Date	Guest Speaker	Name of Institute
1	“Bridge Course for B.Sc. Part – I”	16/06/2017 (For Two weeks)		
2	➤ Guest Lecture ➤ Topic: Cancer : Cross	30/08/2016	Dr. Archana Moon	Associate Professor PGTD of Biochemistry, RTM



	talk tissues and Cells. ➤ Installation of Students Association "Microvian-2016"			Nagpur University Nagpur
3	Poster Presentation Competition	14/09/2016	Dr. Vijay Charde	Taywade College, Koradi
4	Intercollegiate Scientific Rangoli Competition	26/09/2016	Dr. Surekha Kalkar & Dr. Santosh Kasbekar	Ex J. D. Amravati Division & Head, Dept. of Botany, Institute of Science, Nagpur & Head, Dept. of Microbiology, Sindhu Mahavidyalaya, Nagpur
5	Guest Lecture ➤ Topic: Monoclonal Antibodies and its Applications.	18/2/2017	Dr. Swati Peshwe	Associate Professor, Institute of Science, Aurangabad
6	Power Point Presentation Competition in House.	23/02/2017		
7	Visit to Waghville Adventure Trip on dated 24-12-2017			
8	Visit to Waste Water Treatment Plant Situated at Ambazari Ordinance Factory, Ambazari Road, Nagpur- 2/03/2017			
9	Interactive session on Career options in Microbiology by Dr. Anirban Pal Manager R & D "PRARAS" Bio-science Pvt. Ltd., Bangalore on dated 06/03/2017.			

Under skill Development Program workshop on "Enhancement Of Computer Skills" was jointly organized by Dept of Microbiology and Computer Science from 8th to 12th August 2016 for Microbiology students.

Interdepartmental Activity, Under Skill Development one week Training Program was organized jointly by Department of Computer Science and Department of Microbiology for students of Microbiology from 22 August to 27 August 2016.

33. Teaching methods adopted to improve student learning Chalk and Talk Method.

Use of Charts, Diagrams & OHP.

Power Point Presentations.

Animations.

Question Answer method.

Group Discussion.

Home Assignments.



Personal Interaction with Students.

Discussion of Question Papers in the class.

Organizing Guest Lecture on Variety of Topics.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Dr. Mrs. A. S. Kulkarni

President of RTM Nagpur University, Microbiology Teachers Association (2013-16).

Appointed as subject expert for Career Advancement Scheme (CAS) Placement Committee at various colleges.

Appointed as Judge on number of occasions.

Convener of Various College Committees.

Member of Board of Studies from (2010-15)

Member of University Examination Committee 32(5)

Member of LEC

Radio Talk and Guest Lectures at Workshop and colleges.

Member of college core committee constituted for RTMNU Avishakar Training Programme for mentoring shortlisted students in Microbiology and Biotechnology.

Dr. Mrs. V. R. Katoke

Convener of Various College Committees.

Member of Board of Studies in faculty of Home – Science from (2010-15).

Member of Vidyan Bharti and Participate in various activity conducted by Vidyan Bharti.

Member of Organizing Committee “Nari Chetana Women Empowerment”.

Delivered Guest Lecture on Bhartiya Shikshan Rupresha organized by Bhartiya Shikshan Mandal.

Delivered Guest Lecture on Bhartiya Jivan Paddhatiche Vaidyanic Addhar organized by Vidyan Bharti Jan. 2017.

35. SWOC analysis of the department and Future plans

Strength:

Experienced and dedicated staff



Work as cohesive team.

The dept. endeavors to be students centric through various activities organized from time to time.

Provide consultancy to research students.

Co-operative Non-teaching staff.

Faculty involved in university committees.

MOU with Rajiv Gandhi Bio-technology Centre RTM Nagpur University, Nagpur.

Weakness:

Paucity of space.

Inadequate budgetary provision.

More no. of CHB teachers.

Students from vernacular media of instruction have problems comprehending the subject details.

Challenges:

Faculty shortage to explain the subject to students from vernacular medium in different languages.

Coping with the old & new system of curriculum simultaneously.

Sustaining quality to involve staff & students in research work overcoming limiting factors of time & space.

To conduct research in available resource in the college.



Opportunities.

Department encourage the teachers in carrying out interdisciplinary research work.

Strengthen consultancy.

Future Plan:

Strengthen Research Activity.

Get more research project grants.

To organize more no. of soft skill development programme for students to improve their language skills & etiquettes.



Evaluative Report of Department of Computer Science

1. Name of the department : Computer Science
2. Year of Establishment : Sept 2001
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : **UG:** - B.Sc in Computer Science(from 2001)
4. Names of Interdisciplinary courses and the departments/units involved : Department of Physics, Electronics, Statistics are associated with Computer Science department from 2012-13 onwards for B.Sc.
5. Annual/semester/choicebasedcreditsystem(programmewise)

Class	Year				
	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc I	Annual	Semester	Semester	Semester	Semester
B.Sc II	Annual	Annual	Semester	Semester	Semester
B.Sc III	Annual	Annual	Annual	Semester	Semester

6. Participationofthedeptmentinthecoursesofferedbyotherdepartments : **Nil**
7. Coursesincollaborationwithotheruniversities,industries,foreigninstitutions, etc.:- : **Nil**
8. Detailsofcourses/programmes discontinued(ifany)withreasons : **Nil**
9. Numberof teachingposts

	Sanctioned					Filled				
	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17
Asst.Professors	04					01				



10.

Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Speciali Zation	No. of Years of experience	No of students registered for PhD from last 4 Years
MrsSnehal A. Narale	M.Sc, M.Phil,P.hd (persuing)	Asst Prof.	Computer Science	13	Nil
MrsRuma R. Kapre	MCA	Lecture	Computer Application	03 in other institute + 05	Nil
MrsKalyaniMoroney	MCA,M.Phil	Lecture	Computer Application	10 in other institute +01	Nil
MrBhushanWanjari	MCA	Lecture	Computer Application	02 in other institute +01	Nil
MrsAshiwiniPande	MCA	Lecture	Computer Application	02	Nil
MrsManjiri Dixit	M.Sc	Lecture	Computer Science	01	Nil
Mr Pratik Darbhe	MCA	Lecture	Computer Application	01	Nil
MrsSheetalGhate	MCA	Lecture	Computer Application	02	Nil
MsShraddhaDanao	M.Sc	Lecture	Computer Science	01	Nil

11. List of senior visiting faculty : Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :-

Year	B.Sc I	B.Sc II	B.Sc III
2012-13 to 2016-17	NA	NA	NA

13. Student-Teacher Ratio (programme wise) B.Sc I, II, III Year

No of students	No of teachers	Ratio
190	04	4:190

14. Number of academic support staff (technical) and administrative staff sanctioned and filled

	Sanctioned	Filled
Academic support staff (technical)	01	01
Administrative staff	Nil	Nil

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG. : Same as Question 10.

16. Number of faculty with ongoing projects from a) National b) International funding : Nil



agencies and grants received

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received : Nil

18. Research Centre/facility recognized by the University : Nil

19. Publications:

a) No of papers published in peer reviewed journals (National/International)

Mrs Snehal A. Narale

Sr. No.	Title	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Fault tolerance techniques and its accomplishment in cloud computing environment : a study	International Journal IJCA 0975-8887 April 2016		Impact Factor:- 3.12
2	Employment security techniques in the current world of CC environment	IJCSMC April 2015	ISSN NO 2320-008X, volume 4, issue 4.	Impact Factor:- 6.017
3	Employing cloud computing architecture for enhancement of higher education	National Symposia 2014	ISSN No: 2250-0596	Peer Reviewed
4	Cloud based teaching and learning environment for smart education	Scientific Journal ICAET with ISBN no – 978-84869-30-4) January 2015	ISSN 2321-8169	Impact Factor:- 5.098
5	Discovering the scope of mobile agent technology in CC environment- A study	International Journal IJCSCE volume 1, issue 1. April 2015	ISSN No :- 2277-9477	Peer Reviewed
6	Enhancement of reliability attribute for robust cloud environment: a study.	IOSR journal volume 4 e- (DOI- 10.9790) April 2016	ISSN: 2278-0661 and PISSN 2278-8727	Impact Factor:- 3.12
7	Cloud Computing techniques helps to meet QoS: A study	JIACEN volume ,issue 12 , DOI No: 3451 2016.	ISSN-NO 2320-2063, IRAJ	Peer Reviewed
8	Fault tolerance architecture facilitation improve reliability in cc architecture	RTBACC 2017	ISSN No: 2229-3515	Peer Reviewed
9	CSIR sponsored National conference of biomedical instrumentation related computerized HW organized by electronics department at kamala Nehru college.	-	-	-

Mrs Ruma R. Kapre

Sr. No.	Title	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
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1	Authentication Techniques Help To Improve Security In The Era Of Network System: A Study	IOSR journal of computer engineering (IOSR-JCE) volume 7 , PP 01-06	e-ISSN: 2278-0661 and p-ISSN 2278-8727	3.12
2	Accomplishment of Security Techniques in Network System: a study	IJEEBS, Vol 3, issue 2 (march-april 2016), PP, 54-58	ISSN ONLINE 2349-6967	Peer Reviewed
3	CSIR sponsored National conference of biomedical instrumentation related computerized HW organized by electronics department at kamala Nehru college.	-	-	-

Mrs Kalyani M. Moroney

Sr. No.	Title	Journal	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
3	CSIR sponsored National conference of biomedical instrumentation related computerized HW organized by electronics department at kamala Nehru college.	-	-	-



20. Areas of consultancy and income generated : **Nil**
21. Faculty as members in **Nil**
- a) National committees
- b) International Committees
- c) Editorial Boards
22. Student projects
- d) Percentage of students who have done in-house projects including interdepartmental/programme
- Every year more than 90% students have done their projects as per their syllabus. They used visual basic as a front end and oracle as a back end.
 - 100% students participate in assignments on the subjects in the form of projects submitted towards internal assessment on a part of their course work at all levels at the UG programme in the course.
- e) Percentage of students who have done in-house projects including interdepartmental/programme : **Nil**
23. Awards/Recognitions received by faculty and students **Nil**
24. List of eminent academicians and scientists/visitors to the department

Company Name	Name of Resource Person	Name of Resource Person (Alumni)
Take it ideas training and placement pvt. ltd	Mr Pratap Shulka	
X-celler IT pvt. Ltd.	Mr Prashant Rakhunde	
OCE	Mr Anil Tatode	
Beacon IT Strategies	Mr Ganesh Tanksale	
Dizvizedustation	Mr Abhishek Aacharya	
GADGET the Career Tool		Mr Rahul Vaidya
RTMNU, Nagpur	Mrs Shweta Barahate	
GR Solution	Mr Gautam Sontakke	
NSDC (National Skill Development Co-operation)	Mr Ketan Kapale	
Bizruntime IT		Mr Sachin Karale
Bizruntime IT		Mr Zuber Sheikh
ITM (Institute of management and Research)	Mr Nitin Goje (Coordinator)	
Money bee ,Director		Ms. Shivani Dani
Persistent IT	Mr Prasad Shembekar	
Persistent IT	Mr Abhijit Thakre	



25. Seminars/Conferences/Workshops organized & the source of funding

a) National: - Nil

b) International: - Nil

26. Student profile programme/coursewise: B.Sc. III (Computer Science)

Year	Application Received	Selected	Enrolled		Passing Percentage	
			M	F		
2012-13	34	33	12	22	69.69	
2013-14	28	28	16	12	64.28	
2014-15	38	38	16	22	47.36	
2015-16	37	37	17	20	54.05	83.78
2016-17	20	20	06	14	65	-

27. Diversity of Students: B.Sc I

Year	% of students from the same state	% of students from other states	% of students from abroad
2012-13	97.57 %	2.43%	Nil
2013-14	98.33%	1.67%	Nil
2014-15	95.84	4.16%	Nil
2015-16	100%	Nil	Nil
2016-17	97.09%	2.91%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc : Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	25 to 35 % give first preference to PG
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Campus selection	Nil
Other than campus recruitment	Nil
Entrepreneurship/Self-employment	02%

30. Details of Infrastructural facilities

Library	Yes
Internet facilities for Staff & Students	Yes
Class rooms with ICT facility	Yes
Laboratories	Yes

31.

Number of students receiving financial assistance from college, university, Government or other



agencies

Academic Session 2012-13										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	03	-	-	-	01	-	-	-	-	04
2 nd Year	01	01	-	-	01	-	-	-	-	03
3 rd Year	02	-	-	-	-	-	-	-	-	02
Total	06	01	-	-	02	-	-	-	-	09

Academic Session 2013-14										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	19	05	-	-	01	-	-	-	-	25
2 nd Year	19	04	-	-	-	01	-	-	-	24
3 rd Year	06	-	-	-	-	-	-	-	-	06
Total	44	09	-	-	01	01	-	-	-	55

Academic Session 2014-15										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	04	02	03	-	01	-	-	-	-	10
2 nd Year	17	03	-	-	03	01	-	-	-	24
3 rd Year	11	02	-	-	01	-	-	-	-	14
Total	32	07	03	-	05	01	-	-	-	48

Academic Session 2015-16										
Class/ Category	OBC	SC	ST	NT	VJ/NT	SBC	STC	PTC	Open	Total
1 st Year	23	-	02	-	01	02	-	-	-	28
2 nd Year	03	02	02	-	-	-	-	-	-	07
3 rd Year	08	03	-	-	-	01	-	-	-	12
Total	34	05	04	-	01	03	-	-	-	47



32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts.

2012-13

Sr. No.	Activity	Date	Topic	Resource Person	Company
1.	Workshop	11 th January 2013	“Introduction to Java”	MrPratapShulka	Take it ideas training and placement pvt. Ltd

2013-14

Sr. No.	Activity	Date	Topic	Resource Person	Company
1.	PPT Competition	6 th September 2013	Topics from syllabus	Faculty of Department Mrs S. A. Narale	
2.	workshop	25 th , 26 th October 2013	Employability & Campus Boosting	MrPratapShulka	Take it ideas training and placement Pvt. Ltd.
3.	Aptitude Test	14 th august 2013	Fundamentals of computers and Object Oriented Programming concept	Faculties of department	

2014-15

Sr. No.	Activity	Date	Topic	Resource Person	Company
1.	Group Discussion	29 th September 2014	Current trends in field of Technology	Faculty of Department Mrs S. A. Narale	
2.	Seminar	05 th October 2014	Utilization of ICT tools	Faculty of dept Mrs R. R. Kapre	
3.	workshop	13 th February 2015	Career Oriented courses in Computer Science	MrKetanKapale	National Skill Development Co-operation
4.	Seminar	7 th March 2015	Future prospectus in S/W and H/W computing	Faculty of Department Mrs S. A. Narale	

**2015-16**

Sr. No.	Activity	Date	Topic	Resource Person	Company
1.	Seminar	8 th august 2015	Various topics from syllabus	Faculty of Department Mrs S. A. Narale and MrsRumaKapre	
2.	Workshop	13 th August 2015	Introduction of Hardware and Software installation	Faculty of Department Mrs S. A. Narale	
3.	Aptitude Test	19 th September 2015	BHAVISHYA JYOTI SCHOLARSHIP		NIIT,Nagpur
4.	Workshop	23 th September 2015	Training and Career opportunities in the field of computer science	MrGautamSontakke	GR Solutions,Nagpur
5.	Seminar	19 th October 2015	Career opportunities	Mr Rahul Vaidya (Alumni)	GADGET the Career Tool
6.	Chart Presentation	15 th October 2015	Topics related to C language	Faculty of Department MrsRumaKapre	
7.	Poster Presentation Competition	20 th October 2015	Topics related to syllabus	Faculty of Department Mrs S. A. Narale	
8.	Skill Development Program	22 nd February 2016	Skill Development in developing software	Faculty of Department Mrs S. A. Narale	
9.	Essay Writing Competition	03 rd March 2016	Procedural Language Vs Object Oriented Language	Faculty of Department MrsRumaKapre	
10.	Power Point Presentation	30 th and 31 st March 2016	Related to Syllabus	Faculty of Department Mrs S. A. Narale	
11.	Debate Competition	4 th April 2016	Andriod application is a boon	Faculty of Department MrsRumaKapre	
12.	Seminar	4 th April 2016	World of technology	Faculty of Department MrsManjiri Dixit	
13.	Workshop	5 th April 2016	How to write Scientific articles and research paper	Faculty of Department Mrs S. A. Narale	

**2016-17**

Sr. No.	Activity	Date	Topic	Resource Person	Company
1.	Seminar	28 th July 2016	How to make PPT Presentation	Faculty of Department Mrs S. A. Narale	
2.	Skill Development Program(Workshop)	8 th Aug to 12 th Aug 2016	Enhancement Of Learning Skill through ICT tools	Faculties of Department	
3.	Seminar	10 th august 2016	Animation and Video Editing”by	MrAbhishekAachrya	Dizvizedustation
4.	Chart Making and Presentation	20 th August 2016	Software Language Fonders	Faculty of Department MrsRumaKapre	
5.	Skill Development Program(Training Program)	22 nd Aug to 27 th Aug 2016	Enhancement of Computer Skill	Faculties of Department	
6.	Workshop	9 th and 10 th September 2016	Computer Networking and Security	Faculty of Department Mrs S. A. Narale	
7.	Power Point Presentation Competition	13 th September 2016	Application of data Base Management Syatem	Faculty of Department MrsRumaKapre	
8.	Inter-Colligate PPT Competition	28 th September 2016	Zoonotic Diseases	Faculties of Department	
9.	Workshop	18 th October 2016	OS Installation	Faculty of Department MrsKalyaniMoroney and MrBhushanWanjari	
10.	Workshop in X-celler Company	1 st and 2 nd February 2017	PHP Module,Java Script	MrPrashantRakhunde	X-celler Company
11.	Guest Lecture	1 st March 2017	Choose Right Career after Graduation	Mr Ganesh Tanksale	Beacon IT Strategies
12.	Guest Lecture	3 rd March 2017	Robotics	Mr Anil Tatode	OCE
13.	In-House Activity	3 rd March 2017	Error Debugging	Faculty of Department MrsRumaKapre	
14.	Seminar given by students	09 th March 2017	Topics related to syllabus	Faculty of Department	



				Mrs S. A. Narale	
15.	Seminar	16 th March 2017	Basic concepts in Java	Faculty of Department Mrs Kalyani M. Moroney	
16.	Workshop	18 th March 2017	Project Development Using Oracle as Front End And Visual Basic As Backend	Faculty of Department Mrs S. A. Narale	

33. Teaching methods adopted to improve student learning

- ❖ Teaching using Power Point Presentation.
- ❖ Various presentation, seminars and demonstrations using LCD Projector.
- ❖ Various concepts are explained with the help of diagrammatic representation.
- ❖ Assignments are given to the students and Unit Tests are conducted as a part of their Internal Assessments.
- ❖ Third year students develop their projects using Visual Basic as a front end and Oracle/MS-access as backend.
- ❖ Teachers are always available for one-to-one interaction for clearing their queries
- ❖ We provide Internet access to the students.
- ❖ We conduct technical and aptitude test based on fundamental of the various topics from the syllabus.
- ❖ Students prepared their presentations emphasis
- ❖ We give emphasis to the preparation of PPT by students to improve their presentation and communication skills.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- ❖ Faculty of the department participated in various committee constituted by the college
- ❖ Faculty of the department were member of organizing committee of RTMNU Avishakar Training Programme.
- ❖ Faculty of the department were member of organizing committee of Inter Colligate Dr. Ashok Shekdar Memorial Debate Competition



- ❖ Faculty of the department participated in Inter Colligate Event “Kala-Srujan”.

35. SWOC analysis of the department and future plans

Strength:

- ❖ Qualified teaching staff
- ❖ Students give preference to opt for computer science
- ❖ The department endeavors to be students centric through various activities organized from time to time.
- ❖ Co-operative Non-teaching staff.
- ❖ Projects:
 - Huge number of students allied to various College activities.

Weakness:

- ❖ Paucity of space.
- ❖ No PG program.
- ❖ Required more approved staff
- ❖ Students from language media of instruction have problems comprehending the subject details.
- ❖ To understand /get more opportunities in the field of IT need to organize some sort of organizational visit. The organizational visits help the students to get an experience to diverse industrial activities over different parts of India.

**Challenges:**

- ❖ More students less no of computers
- ❖ To conduct research in available resource in the college.
- ❖ Amplifying the number of pass out students by incorporating plans such as
 - Increasing the number of class test to be taken,
 - Periodically conducting Parent Teacher Meeting independently for the department.
 - One to one communication with the students to solve their emotional and personal problem.
- ❖ Making the provision of virtual classroom to the students.

Opportunities.

- ❖ Job opportunities are more in IT field for students
- ❖ Applied subject
- ❖ Enhancement of graduate programs.

Future Plan of the department:

- ❖ To organize more no. of soft skill development programme for students to improve their language skills & etiquettes.
- ❖ To introduce some short term certified courses which will help the students to meet the requirements as per the demand of industry.
- ❖ Provision of Separate departmental library for students and staff.
- ❖ Planning to have more numbers of projects for third year students.
- ❖ Planning to have local and outstation industrial visits and study tours for all students which expose the students to the real world and provide an opportunity of on-site study.
- ❖ progressing the infrastructure of the departmental lab.
- ❖ Conducting alumni meet.

- ❖ Incorporating the use of electronic media and information and communication technologies (ICT) in education (E-learning) such as:



- Multimedia learning
 - Technology-enhanced learning (TEL)
 - Internet-based training (IBT)
 - Online education.
- ❖ To arrange industrial visits.



Faculty of Home Science Evaluative Reports of the Departments



1. **Name of the department**-Department of Food Science and Nutrition
2. **Year of Establishment** - 1978
3. **Names of Programmes/Courses offered** (UG,PG,M.Phil.,Ph.D.,Integrated Masters; Integrated Ph.D., etc.) - UG- B.Sc in Home Science
4. **Names of Interdisciplinary courses and the departments/units involved:** All the core subjects of Home Science are interdisciplinary. Department of Physics, Chemistry, Botany, Zoology and Microbiology are associated with faculty of Home Science at BSc level since 1978.

5. **Annual/semester/choicebasedcreditsystem(programmewise):**

Year					
Class	2012-13	2013-14	2014-15	2015-16	2016-17
BSc. HSc. I	Annual	Annual	Annual	Annual	Semester
BSc. HSc. II	Annual	Annual	Annual	Annual	Annual
BSc. HSc. III	Annual	Annual	Annual	Annual	Annual

6. Participation of the department in the courses offered by other departments: Nil
7. **Courses in collaboration with other universities ,industries, foreign:** institutions, etc.-NIL
8. **Detailsofcourses/programmes discontinued(ifany)withreasons:** Nil
9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	-	-
AssociateProfessors	-	-
Asst.Professors	01	Vacant

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil.etc.,)**

Name	Qualification	Designation	Specialization	No.ofYears of Experience	No.ofPh.D. Students guidedforthe last4years



11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise)
By temporary faculty: 100%

13. Student-Teacher Ratio (programme wise): BSc. HSc.I, II, III Session 2016-17- 96:3

14 Number of academic support staff (technical) and administrative staff ;
sanctioned and filled: 01 administrative staff for home science faculty.

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG – PG

Name of CHB	Qualification	Session
1.Dr.Mrs.Shweta Kholkute	P.hD.M.Sc.P.G.D.N.D.	From 2012 to 2017
2. Mrs Nivedita Badage	MSc.	From 2015 to 2017
3. Mrs Pradnya Bagalkote	MSc. MBA	From 2013- 2014 to 2016-17

16. Number of faculty with ongoing projects from a)National b) International funding agencies and grants received: NIL.

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR etc. and total grants received : Nil

18. Research Centre / facility recognized by the University : Nil

19. Publications:

* a) Publication per faculty

Dr.Mrs.Shweta Kholkute National and International(2012-2017)

Sr No	Academic Session	Conferences and Workshops
1	2012-2013	Comparitive study on High consumption of Non-vegetarian foods with metabolic syndrome



		in CHINA
2	2016-2017	Soilless organic farming at IWSA and Shivaji Science College

Number of papers published in peer reviewed journals national/international by faculty and students

By Dr.Shweta Kholkute

One -China (2012-2013)

One- Nagpur (2016-2017)

Mrs. Pradnya Bagalkote
From 2013-2014

Sr No	Academic Session	Workshop / Conferences
1	2013-14	National annual conference of diabetic educator
2	2015-16	National conference of Nutrition Society of India
3	2016-17	Internal Quality Assurance Cell - NAAC Sponsored One Day National seminar on "SIGNIFICANCE OF TEACHING, LEARNING and EVALUATION IN AN INTERDISCIPLINARY SCENARIO" at Rajkumar Kewalramani Kanya Mahavidyalaya

* **Number of papers published in peer reviewed journals(national/international) by faculty and students : One**

* Number of publications listed in International Database (ForEg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

* Monographs : Nil

* **Chapter in Books - Mrs Pradnya Bagalkote**
Academic Session 2013-14



Sr. No.	Title with page Nos.	Type of Book and Authorship	ISSN / ISBN No.	Whether peer reviewed impact Factor, if any
1	Sarva aajaranche mul aahar Page No – 43	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
3	Hyper Tension – 1 Page No – 105	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
4	Hyper Tension – 2 Page No – 111	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
5	Hyper Tension and Diet Page No – 114	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
6	Diet in Diabetes Page No -133	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
7	Diet in Thyroid Page No – 127	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
8	Kidney Attack Page No – 168	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
9	Kidney Care Page No – 172	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yes
10	Prevention of Osteoporosis Page No – 223	Tumhich Vha Tumche Doctor	978-81-7498-185-1	Yesr
11	Article on Diet in pregnancy	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT Dt 20.9.2013		
12	Article - Impact of Diet on Personality Development	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT		
13	Article – Anemia	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT		
14	Article – Osteoporosis	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT		
15	Article – Think Globally Eat Locally	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT		
16	Article – Changing Lifestyle	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT		
17	Article – Heart Disease	Leading Daily Marathi Newspaper of Nagpur TARUN BHARAT		
18	Article – Diet in Summer	Monthly Newspaper FALSHRUTI, Nagpur		

* Books Edited : Dr.Shweta Kholkute
Awarded at Natinal Level By Dr. T.G.Pande
One Book – SAANG NAA AAI !

(beneficial of food and nutrition degree course at University level)



- * Books with ISBN/ ISSN numbers with details of publishers : yes.

Saang Naa AAI – Book By –Dr.Shweta Kholkute.

ISBN NO. - 978-93-83164-10-3

Nutrition news articles in different newspapers by Dr.Shweta Kholkute –Tarun Bharat ,Lokmat,The Hitavada,The Times of India, Indian Express (2012-2017)

- * Citation Index :

- * SNIP : Nil

- * Impact factor : Yes.Many Pregnant and Lactating Mothers ,School going Children and Degree level Students are benefited by reading this Nutrition Information Book enlightening on the Scientific data and facts of Life.

- * h-index : nil

20. Areas of consultancy and income generated:

By Dr.Shweta Kholkute- Nutritional Lifestyle Counselling was done at Sarada Nutritional Centre ,for Diseased Patients ,ICCU Patients from CHD ,Diabetes Mellitus Patients.(2012-2017)

Diet Consultation was given to 30 Physical Education Department Sports Students at Home Science Faculty Department By Dr.Shweta Kholkute (2016-2017)

1. Department of Nutrition is doing Diet Counselling for Athletic Students along with BMI calculation.
2. Diet counseling services provided in different hospitals in Nagpur City.
3. School Awareness Programme taken in different schools in Nagpur city to develop a Healthy Nutrition Habits among children.

21. Faculty as a member of National Committee

Dr.Shweta Kholkute –Life member of National and International National Committee –

INDIAN DIETETIC ASSOCIATION ,IDA

NUTRITION SOCIETY OF INDIA

THE HOME SCIENCE ASSOCIATION OF INDIA

INDIAN SOCIETY OF PARENTERAL AND ENTERAL NUTRITION ,ISPEN.

DIABETIC ASSOCIATION OF INDIA ,DAI

INDIAN WOMENS SCIENTISTS ASSOCIATION,IWSA



INTERNATIONAL COMMITTEE
BY DR.SHWETA KHOLKUTE

INTERNATIONAL COLLEGE OF NUTRITION,ICN

Mrs. Pradnya Bagalkote

- a) National committees
 - 1. Nutrition Society of India.
 - 2. Indian dietetic association.
 - 3. National Diabetes Educators Association
- b) International Committees :NIL
- c) Editorial Boards: NIL

National committees

- 1. Nutrition Society of India.
 - 2. Indian dietetic association.
 - 3. National Diabetes Educators Association
-
- b) International Committees :NIL
 - c) Editorial Boards: NIL
22. Student projects: 100% Students participate in assignments on the subjects in the form of projects submitted towards internal assessment as a part of their course work at all levels at the UG programme in the course.
- a) Percentage of students who have done in-house projects including interdepartmental/programme- 100%

Academic Session – 2013-14

- 1. Hands on Training Program me (Kitchen Training) for all students of Home Science has been organized in 2013-14.
- 2. International Breast feeding Week Celebrated (1-7 August)
- 3. National Nutrition week Celebrated (1-7 Sept.)
- 4. World Food Day Celebrated – 17 October

Academic Session – 2014-15

- 1. Food for fusion “-A unique recipe competition has been orgnised with Indian Women Scientist Association in 2014-15
- 2. In collaboration with Nutrition Society of India Skit n Recipe Competition has been arranged in 2014-15
- 3. International Breast feeding Week Celebrated (1-7 August)



4. National Nutrition week Celebrated (1-7 Sept.)
5. World Food Day Celebrated - 17 October

Academic Session - 2015-16

1. Geriatric Nutrition Awareness Programme- Delivered Powerpoint Presentation & Lecture along with food display at Polaris Public School's(Nagpur) Grand Parents Day Celebration accompanied with Bsc Final year students (2015-16)
2. International Breast feeding Week Celebrated (1-7 August)
3. National Nutrition week Celebrated (1-7 Sept.)
4. World Food Day Celebrated - 17 October

Academic Session - 2016-17

1. Making of Food Calendars, Nutrition Quiz n Poster Making Competition in 2016-17
2. Nutrition and Breast Feeding Week is celebrated in the Department every year.
3. Poster Making Competition 2016-17 is organized on the World Food Day, as a part of yearly celebration.
4. Educational Tour in Ashwini Kidney Dialysis Centr, NAGPUR. And Vasudhara Dairy (Amul Factory)
- a. Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies.
1. All B.sc. final year students participated in one day State Level Diabetes Modem at Akola, by arranging Food Exhibition and displaying Diabetic pyramid model from 2013-14 to 2016-17 (organised in association with Indian Medical Association.)
2. All B.Sc. Final Year Students has done industrial training in WAGHMARE FOOD PRODUCTS an ISO-HACCP CERTIFIED Company in 2016-17
23. Awards/Recognitions received by faculty and students:

FACULTY

1. Received an Appreciation award as a Consulting Dietitian in 2014 by Laxmidevi Bajaj Trust.
2. Received award for scoring Highest marks in MBA (HEALTH CARE AND HR) for the consecutive 3rd and 4th semester in 2014.
3. Received an Appreciation award in the session 2016-17 by VIGYAN BHARATI.
4. Received an Appreciation award as a Faculty in the session 2016-17 by Indian Women Scientist Association.
5. Faculty- Dr.Shweta Kholkute -Recognition received
6. As A Senior Consultant at Herballife international nutrition international



pvt.india ltd. At National Level.

- 1 Razia Ali a student of B.Sc. final year 2015-16 received an award in National Conference in essay writing competition organized by Nutrition Society of India.
- 2 Anushree Oke and Meera Shah 2013-14 BSc Final Year students received highest scoring awards in nutrition (Diet Therapy) under RTMNU.

24. List of eminent academicians and scientists/visitors to the department:

- 1 Dr. DEEPA KOTWAL.- HOD Of NUTRITION Depart in LAD COLLEGE Nagpur
- 2 Dr. A N RADHA -Ex Principle of Diploma in Dietetics SMT Ratnadevi Purohit college ,Nagpur.
- 3 Dr. PRATIMA SHASHTRI- ExHOD of Food Tech Dept of LIT College Nagpur

4Dr. Tatwawadi & Dr. Deo, President & Secretary from women's wing of organization of Vigyan Bharti visited the department.

5 Dr. Suri from Engineering College Ramtek visited home science with the purpose of getting infrastructural details and equipment's of department.

25. Seminars/Conferences/Workshops organized & the source of funding a)

National- IN a organizing committee of 2nd National Conference Of Diabetes

Educators held in Nagpur city in 2014.

b) International Nil

26. Student profile programme/coursewise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012 -13	07	07			100%
2013-14	08	08			80%
2014-15	14	14			100%
2015-16	17	17			100%

*M=Male *F=Female

27. Diversity of Students



Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
FY to TYBSc.HSc.	100%	Nil	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : 01

29. Student progression

Student progression	Against % enrolled
UG to PG	Nearing to 50%
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed	
- Campus selection	0.1%
- Other than campus recruitment	Nil
Entrepreneurship / Self-employment	3 to 4%

Last three consecutive years students are getting admission to other universities like SNDT university mumbai and Sant Gadge Baba University Amravati

30. Detail of Infrastructural facilities a)

Library: Yes. The department has library

which includes reference Books-25

, Textbooks, NET SET preparation books -

5 in addition to college central library.

b) Internet facilities for Staff & Students: For Staff-yes

c) Class rooms with ICT facility: LCD in one classroom.

d) Laboratories: Department is well



equipped to carry out the practicals in

foods n nutrition.

31. Number of students receiving financial assistance from college, university, Government or other agencies

Year	Scholarship	Freeship
2012-13	07	02
2013-14	17	05
2014-15	28	04
2015-16	32	-

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts

Sr. No.	Activity	Date	Topic	Resource Person
1	Breast feeding week	5 Aug 2013	Breast feeding (International year of child & women health)	Dr. Deepa Kotwal
2	Nutrition week	7 Aug 2014	Balance diet	Dr. Radha
3	Social attitude from Snehanchal	13 Sep 2014	Working of Snehanchal rehabilitation center and its objectives	Mr. Milind Badge
4	IWSA	18 Oct 2015	Making of healthy snacks	Dr. Pratima Shastri
5	Guest lecture	5 Jan 2017	Acne problems and skin care of adolescents	Dr. Singh
6	Guest lecture	2 Feb 2017	Entrepreneurship in home science	Dr. Rahul Jawade

33. Teaching methods adopted to improve students learning-

- Use of ICT
- Slide shows
- Power Point presentations



34. Participation in Institutional Social Responsibility(ISR)and Extension activities-

1. Community Education Programme on Health and Nutrition has been organized by Home Science DEpartment near by area of college.
2. Every year our students participated in Nutrition Society of Indias National Conferences held in Nagpur city.

35. SWOC analysis of the department and Future plans.

1 Strengths-

- Nutrition Department is having fully equipped lab.
- Every year department is celebrating National Nutrition Week and International Breast Feeding Week.
- Yearly celebration of World Food Day.
- Department has started 1st Industrial Training Programme for Final year students in Nagpur city.
- Department is organizing Industrial n Educational tours outside n within the city.
- Use of ICT in teaching practices.
- Was proud participant of inaugural ceremony of Digital Universities via video conference by Ex HRD Minister Mrs Smriti Irani in 2016-17.
- Indian Women Scientists Association recognized our efforts of Organising WORLD FOOD DAY acitivity for consecutive three years by awarding Best Activity Award to the team of HOME SCIENCE DEPARTMENT 2016-17.
- Home Science Department Alumni formed in 2016-17.

2.Weakness-

Insufficient funds .

Absence of Permanat Faculty .

3. Oppourtunites-

- Diet Counselling center for all students - special emphasis on Sports Nutrition.
- Food patents for certain food products.
- Wish to train Aanganwadi and Balwadi workers in Nutrition to build a strong Primary Health Care system .
- Research projects in Nutrition.
- Implementation of Kitchen Garden Concept in college premises

Challenges-

- Its difficult to cope up with students those who are coming from low socio economic background.
- Difficult to teach students in multiple languages.

Future Plans-



1. To start Post Graduation (M.Sc.) IN FOOD PROCESSING .
2. Would like to start Post Graduation M.Sc in Nutrition and Dietetics.
3. To train students in Health Care and food industry as a Nutritionist , Dietitians and Food Technologist respectively.
4. Would like to start a Diploma course in Hospital Assistant n Dietetics.



1. Name of the department - **Department of Human Development**
2. Year of Establishment - **1978**
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.) - UG
4. Names of Interdisciplinary courses and the departments/units involved: All the core subjects of Home Science are interdisciplinary. Department of Physics, Chemistry, Botany, Zoology and Microbiology are associated with faculty of Home Science at BSc level since 1978.

5. Annual/semester/choice based credits system (programme wise):

Year					
Class	2012-13	2013-14	2014-15	2015-16	2016-17
BSc. HSc. I	Annual	Annual	Annual	Annual	Semester I & II
BSc. HSc. II	Annual	Annual	Annual	Annual	Annual
BSc. HSc. III	Annual	Annual	Annual	Annual	Annual

6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other universities, industries, foreign: Nil institutions, etc.
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching posts

	Sanctioned	Filled
Professors		
Associate Professors		01
Asst. Professors	01	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years



Mrs. Manju Deshpande	MSc.M. Phil	Associate Proffessor	Human development	30 Years	
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11. List of senior visiting faculty: Nil
12. Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty: 06 per week
13. Student-Teacher Ratio (programmewise): 46:1 , 25:1+1, 21:1 (total - 96:2)
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: 01 technical staff for home science faculty.
15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG - same as question 10
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil
18. Research Centre / facility recognized by the University: Nil
19. Publications:
 - * a) Publication per faculty
 - * Number of papers published in peer reviewed journals (national / international) by faculty and students
 - * Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)
 - * Monographs
 - * Chapter in Books
 - * Books Edited
 - * Books with ISBN / ISSN numbers with details of publishers
 - * Citation Index
 - * SNIP



- * SJR
 - * Impactfactor
 - * h-index
20. Areasofconsultancyandincomegenerated: Nil
21. Facultyasmembersin
National Committee
- a) Nationalcommitteesb)InternationalCommitteesc)Editorial
Boards...
- :
- Life
Member of
HSAI-
Home
Science
Association
Of India
22. students project
- a) Percentage of students who have done in-house projects
including interdepartmental/programme : Student projects: 100%
Students participate in assignments on the subjects in the form of EVS
projects submitted towards internal assessment as a part of their course
work at all levels at the UG programme in the course.
- b) Percentageofstudentsplacedforprojectsinorganizations
outsidetheinstitutioni.e.inResearchlaboratories/Industry/
otheragencies :NIL
23. Awards/Recognitionsreceivedbyfacultyandstudents: NIL
24. Listofeminentacademiciansandscientists/visitors tothe
department:
- Dr. DeepaKotwal , coordinator Home sc. Dr. Nanda Rathi,
Chairman, Board of studies, Human development,Dr.
MadhuriNaseri, ex-Dean , H.Sc Faculty visited the department.
 - Dr. Tatwawadi& Dr. Deo, President & Secretary from women's
wing of organization of VigyanBharti visited the department.
 - Dr. Suri from Engineering College Ramtek visited home science
with the purpose of getting infrastructural details and



equipment's of department.

25. Seminars/Conferences/Workshops organized & the source of funding a)

National

b) International Nil

26. Student profile programme/coursewise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012 -13	07	07	Girls students seek admission to home science faculty		100%
2013-14	08	08			80%
2014-15	14	14			100%
2015-16	17	17			100%
2016-17	48	46			Yet to be declared

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
FY to TY BSc.HSc.	100%	Nil	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : 01 passed NET Examination

29. Student progression

Student progression	Against % enrolled
UG to PG	Nearing to 20%
PG to M.Phil.	Nil
PG to Ph.D.	Nil



Ph.D.toPost-Doctoral	Nil
Employed -Campusselection -Other than campus recruitment	01 Student
Entrepreneurship/Self-employment	2 to 3 %

- **Last Three Consecutive Years Students Are Getting Admission To Other Universities Like SNTD University, Mumbai and SGBAU University, Amravati**

30. Detailsof Infrastructuralfacilities a)

Library: Yes. The department has library

which includes reference Books,

Textbooks, NET SET preparation books in

addition to college central library.

b) InternetfacilitiesforStaff&Students: For Staff

c) Class rooms with ICT facility:

LCD in one classroom.

d) Laboratories: Nil

31. Numberofstudentsreceivingfinancialassistancefromcollege,university,
Governmentorotheragencies

Year	Scholarship	Freeship
2012-13	07	02
2013-14	17	05
2014-15	28	04
2015-16	32	-

32. Detailsonstudentenrichmentprogrammes(speciallectures/workshops/
Seminar)withexternalexperts

Sr. No.	Activity	Date	Topic	Resource Person
1	NSI	5 Aug	Celebrate International	Dr.



		2013	Year of Mother & Child	Deepa Kotwal
2	IWSA celebrates Food day	18 Oct 2015	Making of healthy snacks without fuel	Dr. Pratima Shastri
3	Guest lecture	5 Jan 2017	Acne problems and skin care of adolescents	Dr. Singh
4	Guest lecture	2 Feb 2017	Entrepreneurship in home science	Dr. Rahul Jawade

33. Teaching methods adopted to improve student learning
- Traditional method of teaching is emphasized
 - Objectives of the topic taught are made clear beforehand.
 - Interactive Question and answer sessions
 - Study material / References given and via preparation of workbooks and assignments
 - Workshops taken in the practical classes.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities : NIL
35. SWOC analysis of the department and Future plans

STRENGTHS	WEAKNESS	OPPORTUNITIES	CHALLENGES
<ul style="list-style-type: none"> • Qualified faculty 	<ul style="list-style-type: none"> • Research Activities 	<ul style="list-style-type: none"> • As the change in syllabus is implemented, opportunities for maximizing vocational potential is achieved. 	<ul style="list-style-type: none"> • Student - Teacher Ratio is not proportionate
<ul style="list-style-type: none"> • Best Teaching/ Learning practices 		<ul style="list-style-type: none"> • Students progression from UG to PG 	<ul style="list-style-type: none"> • Class heterogeneity
<ul style="list-style-type: none"> • Consistently good results 			
<ul style="list-style-type: none"> • Holistic Development of the students via opportunities 			



Evaluative Report of the Department

1. Name of the department-Department of Textiles and Clothing
2. Year of Establishment - 1978
3. Names of Programmes/Courses offered(UG,PG,M.Phil.,Ph.D.,Integrated Masters;IntegratedPh.D.,etc.)- UG- BSc in Home Science
4. Names of Interdisciplinary courses and the departments/units involved: All the core subjects of Home Science are interdisciplinary. Department of Physics, Chemistry, Botany, Zoology and Microbiology are associated with faculty of Home Science at BSc level since 1978.

5. Annual/semester/choice based credit system(programmewise):

Year					
Class	2012-13	2013-14	2014-15	2015-16	2016-17
BSc. HSc. I	Annual	Annual	Annual	Annual	Semester
BSc. HSc. II	Annual	Annual	Annual	Annual	Annual
BSc. HSc. III	Annual	Annual	Annual	Annual	Annual

6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other universities,industries,foreign institutions, etc. Nil
8. Details of courses/ programmes discontinued(ifany)with reasons: Nil
9. Number of Teaching posts

	Sanctioned	Filled
Professors		
AssociateProfessors		01
Asst.Professors	01	

10. Faculty profilewith name,qualification,designation,specialization,(D.Sc./D.Litt./Ph.D./M.Phil.etc.,)



Name	Qualification	Designation	Specialization	No.ofYears of Experience	No.ofPh.D. Students guidedforthe last4years
Ranjana Kulat	MSc.	Associate Proffessor	Textiles & Clothing	30 Years	Nil

11. List of senior visiting faculty: Nil
12. Percentage of lectures deliveredand practical classes handled(programmewise)
By temporary faculty: Nil
13. Student-TeacherRatio(programmewise): BSc. HSc.I, II, III Session 2016-17- 96:1.
14. Number of academic support staff(technical)and administrative staff;sanctioned and filled: 01 administrative staff for home science faculty.
15. Qualifications of teaching facultywithDSc/D.Litt/Ph.D/MPhil/PG –
Same as question 10
16. Number of faculty with ongoing projects froma)Nationalb)International funding agencies and grants received: Nil
17. Departmentalprojectsfundedby DST-FIST; UGC, DBT, ICSSR,etc.andtotal grantsreceived: Nil
18. ResearchCentre/facilityrecognizedbytheUniversity: Nil
19. Publications:
 - * a) Publication per faculty

Mrs.Ranjana Kulat

Article On Ayurvastra : A Dress Code For Healthy Living Was Published In Journal Of Biological And Physical Sciences Volume No III(IV),ISSN No: 2319-636X

- * Numberofpaperspublishedinpeerreviewedjournals(national/international)byfacultyandstudents: 01 by faculty
- * NumberofpublicationslistedinInternationalDatabase(For Eg:WebofScience,Scopus,HumanitiesInternationalComplete, DareDatabase- InternationalSocialSciencesDirectory,EBSCOhost,etc.)



- * Monographs
- * Chapter in Books
- * Books Edited
 - * Books with ISBN/ISSN numbers with details of publishers
 - * Citation Index
 - * SNIP
 - * SJR
 - * Impact factor
 - * h-index

20. Areas of consultancy and income generated: Nil

21. Faculty as members in
National Committee

Mrs. Ranjana Kulat

- a) National committees
Life Member of All India
Home Science Association

b) International Committees c) Editorial
Boards....

22. Student projects: 100% Students participate in assignments on the subjects in the form of EVS projects submitted towards internal assessment as a part of their course work at all levels at the UG programme in the course.

a) Percentage of students who have done in-house projects including interdepartmental/programme – Organised one day workshop for all students in collaboration with USHA SEWING MACHINE.

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies

23. Awards/Recognitions received by faculty and students: Best reader award in the session 2016-17 by faculty.

24. List of eminent academicians and scientists/visitors to the department:



- Dr. Madhuri Nasery Dean Of Home Science Faculty (Textile)
- Dr. Harsha Jhariya Convener Of Task Force Committee
- Dr. Varsha Mankar Textile Subject Expert.
- Dr. Hema Padole Textile Subject Expert
- Dr. Suri From Engineering College Ramtek Visited Home Science With The Purpose Of Getting Infrastructural Details And Equipment's Of Department.

25. Seminars/Conferences/Workshops organized & the source of funding a)

National

b) International Nil

26. Student profile programme/coursewise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012 -13	07	07		F	100%
2013-14	08	08		F	80%
2014-15	14	14		F	100%
2015-16	17	17		F	100%

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
FY to TYBSc.HSc.	100%	Nil	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : Nil

29. Student progression

Student progression	Against % enrolled
---------------------	--------------------



UGtoPG	Nearing to 20% last five yr
PGtoM.Phil.	Nil
PGtoPh.D.	Nil
Ph.D.toPost-Doctoral	Nil
Employed -Campusselection -Other than campus recruitment	0.1 %
Entrepreneurship/Self-employment	3-4%

30. Detailsof Infrastructuralfacilities a)

Library: Yes. The department has library

which includes reference Books- 10 ,

Textbooks, NET SET preparation books 05

in addition to college central library.

b) Internet facilities for Staff & Students: Yes

c) Class rooms with ICT facility:

LCD in one classroom.

d) Laboratories:

department is well equipped to

carry out textile practicals.

31. Numberofstudentsreceivingfinancialassistancefromcollege,university,
Governmentorotheragencies

Year	Scholarship	Freeship
2012-13	07	02
2013-14	17	05
2014-15	28	04
2015-16	32	-

32. Detailsonstudentenrichmentprogrammes(speciallectures/workshops/
Seminar)withexternalexperts



Sr. No.	Activity	Date	Topic	Resource Person
1.	Guest lecture	2 Feb 2017	Entrepreneurship in home science	Dr. Rahul Jawade

33. Teaching methods adopted to improve student learning:

- Chalk board method
- Demonstration and PowerPoint presentation
- Use of charts and diagrams
- Group discussions and question- answers methods
- Seminars and home assignments
- Special coaching to weaker students
- Organise visits to the actual site for better understanding of the subject.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Guest Lecture was organized on working of Snehanchal Rehabilitation center and its objectives by Mr. Milind Badge on 13 sept. 2014
- Under skill development programme Garment stitching workshop was organized for the girl students of Jupiter High School, Khamala, Nagpur on 13 February 2017.
- One day workshop organized under the Cell of Prevention of Sexual Harrassment in college premises on 27 feb 2017

35. SWOC analysis of the department and Future plans.

Strengths-

- Consistently excellent academic performance with merit students.
- Healthy and cooperative Environment in the department.
- Recognised faculty member in RTMNU.
- Department is financially supporting to the needy students.
- We motivate students for Entrepreneurship.
- Home Science Alumni has been formed in the session 2016-17

Weakness

- Need more infrastructural facilities in laboratory.
- Insufficient budgetary provision.
- Need specialised hands.

Oppoutunites

- Department encourages the teachers in carrying out projects.
- Certificate courses in Fashion Designing and Textile Printing.

**Challenges.**

- To conduct workshops and projects in available resources.
- Coping with the new and traditional system of curriculum simultaneously.
- Shortage of faculty to explain the subject to the students in different languages.

Future Plans.

- To organize more number of workshops for students benefits.
- To Strengthen research activity.
- It is the need of the time to develop the laboratories with advanced equipments.
- To develop a Industrial Training Programme for students in Garment and Fashion Industry.
- To develop a programme in Textile Printing .



1. Name of the department :- **Department of Resource Management**
2. Year of Establishment :-**1978**
3. Names of Programmes/ Courses offered(UG,PG,M.Phil.,Ph.D.,Integrated Masters;IntegratedPh.D.,etc.) :-
UG:-B.Sc in Home Science
4. Names of Interdisciplinary courses and the departments/ units involved:-

Units of Interior Decoration(Since 1978) & Vastu Shastra(Since 2010) are included in course of Resource Management Department.

5. Annual/semester/choice based credit system(programmewise)

Class	Year				
	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc I	Annual	Annual	Annual	Semester	Semester
B.Sc II	Annual	Annual	Annual	Annual	Annual
B.Sc III	Annual	Annual	Annual	Annual	Annual

6. Participation of the department in the courses offered by other departments:-**Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.:-
Nil
8. Details of courses/ programmes discontinued(if any) with reasons: - **Nil**
9. Number of Teaching posts

No. of Teaching Post	Sanctioned					Filled					
	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17	
Associate professor	2	2	2	2	2	2	1	1	1	1	-
Assistant professor	-	-	-	-	-	-	-	-	-	-	-

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of experience	No of PhD Students guided in last 4 years
Mrs. K. S. Patankar	M.Sc., M. Phil.	Associate Professor	FRM	28 years	Nil

11. List of senior visiting faculty: - **Nil**



12. Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty (Since 25th January 2017):-

Allotment of number of classes for lectures/practicals : 7 and delivered lectures/practicals : 7 per week.

Class	FY B.Sc.	SY B.Sc.	TY B.Sc.
%	86%	14%	-

13. Student-Teacher Ratio (programmewise)

B.Sc I, II, III Year

No of students	No of teachers	Ratio
96	1	96:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Sanctioned	Filled
Academic support staff (technical)	01	01

15. Qualification of teaching faculty with D.Sc/D.Litt/Ph.D/MPhil/PG.
Refer Point No. 10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**

17. Departmental projects funded by DST-FIST/UGC, DBT, ICSSR, etc. and total grants received -- **Nil**

18. Research Centre/facility recognized by the University - **Nil**

19. Publications:

a) No of papers published in peer reviewed journals (National/International)

❖ Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) - **Nil**

Monographs

❖ Chapter in Books: Articles / Chapters Published in Books - **Nil**

❖ **Books Edited** - **Nil**

20. Areas of consultancy and income generated: - **Nil**

21. Faculty as members in
Mrs. K.S. Patankar



a) National committees

- Life member of **HSAI**: Life member of Home Science of India.
- Life member of **IWSA**: Life member of Indian Women Scientist Association.
- Life member of **MVP**: Life member of Marathi Vidnyan Parishad.
- Life member of **NGC**: Life member of Nagpur Garden Club, Nagpur.
- Life member of **YMN**: Life member of Yogabhyasi Mandal, Nagpur.
- Life member of **VMSI**: Life member of Vishwashanti Multipurpose Society of India.

b) International Committees :- **Nil**c) Editorial Board : **Nil**22. Student projects - **Nil**23. Awards/Recognitions received by faculty and students :- **Nil**24. List of eminent academicians and scientists/visitors to the department
(Academic Session 2016-17)

- ❖ Rahul Jwade, Director ATR Enterprises, GMIPL, Red-Integrate Innovations Pvt. Ltd., Nagpur.

25. Seminars/Conferences/Workshops organized & the source of funding

National & International:

(Academic Session 2016-17)

- ◆ Workshop on Rangoli by Alumni.

Source of Funding - Alumni

26. Student profile programme/coursewise:

Name of the Course/programme UG Courses	Academic year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
TY B.Sc.	2012-13	07	07	-	07	100%
TY B.Sc.	2013-14	08	08	-	08	100%
TY B.Sc.	2014-15	14	14	-	14	100%



TY B.Sc.	2015-16	17	17	-	17	100%
TY B.Sc.	2016-17	48	46	-	46	Appeared

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
FY to TY B.Sc.	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? - 1

29. Student progression

Student progression	Against % enrolled
UG to PG	20%
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed - Campus selection - Other than campus recruitment	Nil --
Entrepreneurship/Self-employment	2-3%

30. Details of Infrastructural facilities

a) Library :- **Yes**, The Department has well maintained Library which houses 35 Books which include text books, reference books & Journal in addition to college central library.

b) Internet facilities for Staff & Students :- **Yes**



c) Class rooms with ICT facility :- **Yes**

d) Laboratories :- **1**, The department has well equipped laboratory with ICT facility in it.

31. Number of students receiving financial assistance from college, university, Government or other agencies

Year	Scholarship	Percentage%
12-13	07	52
13-14	17	05
14-15	28	04
15-16	32	---

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts.

The details of student enrichment programmes organized by the department are as follows:-

(Academic Session 2016-17)

Sr. No.	Name of the Activity	Date	Guest Speaker	Name of Institute
1	“Significance of Management in Today’s Scenario”	29/12/2017	Mr. Rahul Jawade	Director ATR, GMIPL, Red-Integrate Innovations Pvt. Ltd., Nagpur.

33. Teaching methods adopted to improve student learning

- Chalk and Board Method.
- Class test
- Use of Charts, Diagrams.
- Power Point Presentations.
- Home Assignments.
- Personal Interaction with Students.
- Discussion of Question Papers in the class.
- Input of Guest Lecture on Variety of Topics.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Mrs. K. S. Patankar & Students

- ◆ **Under ISR – Event Madhumeha-MODEM(Akola) :** Regular participation of our students annually for the period 2012 – 2016-17. Particularly for this year 2016-17, in the month of August 2016, 34 students participated in the event. Programme is designed to help diabetic persons by creating mass



**awareness about diabetes amongst those who need it.
Our students have organised Diet-Exhibition in this annual event.**

35. SWOC analysis of the department and future plans

Strength:

- Experienced and dedicated staff
- Well understanding & cooperative work-team.
- Totally student-focused approach
- Co-operative Non-teaching staff.
- Faculty was involved in university committees.
- Laboratory.
- Library.
- LCD facility

Opportunities.

- Self Employment.
- Interior Decoration.
- Management Sector

Weakness:

- Immediate need of permanent lecturer for the Department.
- Last three strengths need to be revamped.
- Shortfall in number of classrooms.
- There should not be budgetary crunch.
- Students from Hindi, Marathi, media of instruction have problems in comprehending the subject details. There is need to provide sufficient inputs in the form of the subject notes, etc. in their language of their convenience.

Challenges:

- Managing with the old & new system of curriculum simultaneously.
- Create a good human being & citizen of future India.
- To develop students for competitive examinations.

Future Plan:

- To attract more number of students towards faculty of Home Science.
- To make students more Cyber-friendly.
- Increase local & Global awareness further.
- Inculcate a value & aspiration for higher as well as scientific education.
- Special efforts to remove generation gap in order to develop a sensible human being.



1. Name of the department- **Department of Extension Education**
2. Year of Establishment - 1978
3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)- UG- BSc in Home Science
4. Names of Interdisciplinary courses and the departments/units involved: All the core subjects of Home Science are interdisciplinary. Department of Physics, Chemistry, Botany, Zoology and Microbiology are associated with faculty of Home Science at BSc level since 1978.
5. Annual/semester/choice based credits system (programme wise):

Year					
Class	2012-13	2013-14	2014-15	2015-16	2016-17
BSc. HSc. I	Annual	Annual	Annual	Annual	Semester
BSc. HSc. II	Annual	Annual	Annual	Annual	Annual
BSc. HSc. III	Annual	Annual	Annual	Annual	Annual

6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	01	Vacant

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.) NIL

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
------	---------------	-------------	----------------	----------------------------	---



11. List of senior visiting faculty: Nil
12. Percentage of lectures delivered and practical classes handled (programmewise)
By temporary faculty:

Session	2016-17	2016-17	2016-17
Class	FY BSc. HSc.	SY BSc. HSc.	TY BSc. HSc.
Percentage	70%	90%	90%

13. Student-Teacher Ratio (programmewise): BSc. HSc. I, II, III Session 2016-17- 96:3.
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: 01 administrative staff for home science faculty.
15. Qualification of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG - (CHB)

Name of CHB	Qualification	Session	FY BSc. HSc.	SY BSc. HSc.	TY BSc. HSc.
		2012-13	-	-	-
1. Tahseen Choudhary	MSc. NET	2013-14	-	-	-
		2014-15	-	-	-
2. Dr. Manda Walokar	MSc., B Ed, PhD.	2015-16	-	Tahseen Choudhary	Dr. Manda Walokar
3. Dr. Sushama Bahekar	MSc. PhD.	2016-17	Tahseen Choudhary	Dr. Sushama Bahekar	Dr. Manda Walokar

16. Number of faculty with ongoing projects from
a) National
b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total



grantsreceived: Nil

18. ResearchCentre/facilityrecognizedbytheUniversity: Nil

19. Publications:

* a) Publicationperfaculty

* Number of papers published in peer reviewed journals (national / International) by faculty and students:

Dr. Manda Walokar.

1. Nutrition status of women in India ISBN:97881-924616-7-0
DEPARTMENT OF HOME SCIENCE, MAHILAMAHAVIDLAYALA,
NANDANWAN, NAGPUR
2. Proceedings of UGC sponsored national conference on Nutritional Status of women in India belongings to 15-45 years of lower socio-economic status.
TOPIC-KISHORI SHAKTI YOGNA -An Evaluation in Nagpur city, page[34]
3. National conferences on recent trends in life sciences , material sciences and home science -4th October 2015.NCERT 2015 by faculty Dr. MandaWalokar.

Dr. Sushama Bahekar

1. Apurva Publication (International Journal) June-2014, ISSN No. 2348-2702, Knowledge and utilization pattern of family planning Method.
2. Apurva Publication (International Journal) Sep-2014, ISSN No.2348-2702, and evaluating the constraints of male child labour.
3. Home science international research June 2014, ISSN No. 2278-9308, Role performance of extension worker regarding watershed development programme.
4. Home science international research Sept. 2014(**peer Reviewed**), ISSN No. 2278-9308 Livelihood analysis for economic securing rural women.
5. Apurva Publication (International Journal) Dec-2014, ISSN No.2348-2702, Efficiency of sunflower and biophysical factor,by faculty Dr. SushamaBahekar.

* Number of publications listed in International Database (For Eg: Web ofScience,Scopus,HumanitiesInternationalComplete,Dare Database-InternationalSocialSciences Directory,EBSCOhost,etc.) **NIL**

* Monographs

* ChapterinBooks

* BooksEdited

* BookswithISBN/ISSNnumberswithdetailsofpublishers

* CitationIndex

* SNIP



- * SJR
- * Impact factor
- * h-index

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards....

22. Students projects

- a) Percentage of students who have done in-house projects including interdepartmental/programme

100% Students participate in assignments on the subjects in the form of projects submitted towards internal assessment as a part of their course work at all levels at the UG programme in the course.

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies

23. Awards/ Recognitions received by faculty and students: University 2nd topper award in MSc. Extension Education received by faculty Dr. Sushama Bahekar.

24. List of eminent academicians and scientists/ visitors to the department: Dr. Tatwawadi & Dr. Deo, President & Secretary from women's wing of organization of Vigyan Bharti visited the department.

Dr. Suri from Engineering College Ramtek visited home science with the purpose of getting infrastructural details and equipment's of department.

25. Seminars/ Conferences/ Workshops organized & the source of funding a)

National

b) International:

- A Demonstration cum Workshop was done by BSc. II year students on "Best out of West for Rural Women's." in 2016-17.



26. Student profile programme/coursewise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012 -13	07	07	Girls students seek admission to home science faculty		100%
2013-14	08	08			80%
2014-15	14	14			100%
2015-16	17	17			100%

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
FY to TYBSc.HSc.	100%	Nil	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?: Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	Nearing to 20%
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed -Campus selection -Other than campus recruitment	0.01



Entrepreneurship/Self-employment	5%
----------------------------------	----

30. Details of Infrastructural facilities a)

Library:

- Yes.

The department has library which includes reference Books, Textbooks, NET SET preparation books in addition to college central library.

b) Internet facilities for Staff & Students: For Staff

c) Class rooms with ICT facility:

LCD in one classroom.

d) Laboratories: Nil

31. Number of students receiving financial assistance from college, university, Government or other agencies

Year	Scholarship	Freeship
2012-13	07	02
2013-14	17	05
2014-15	28	04
2015-16	32	-

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts : NIL

33. Teaching methods adopted to improve student learning

- Use of smart room for teaching.
- Teaching learning via group discussions.
- Demonstrations
- Visit to related centers
- Organization of workshops .



34. Participation in Institutional Social Responsibility(ISR) and Extension activities

- Extension activities were conducted during the session 2016-17.
- presentation of concept Ideal village
- Visit to Anganwadi center- to know the working pattern of anganwadi final year students visited anganwadi center and also suggested some measures to improve working pattern of anganwadi through which more people get benefited.
- Power point presentation- students of final year prepared PPTs on various topics under the subject community development management and different projects run by the government students were prepared the slides and presented.

35. SWOC analysis of the department andFutureplans

Strength

- Qualified faculty
- Best Teaching/ Learning practices
- Consistently good results
- Holistic Development of the students via opportunities

WEAKNESS:

- Research activities

OPPORTUNITY:

- Students are well trained with the different skills needed to grab any challenges in their future.

CHALLENGES:

- To encourage the students to enroll themselves into the college to pursue the education.
- It is a great challenge for the faculty to increase no of admission in home science faculty.
- We have to motivate the students to seek admission in home science which will be beneficial for their carrier.

FUTURE PLANS:

- The education is provided with the perspective of getting better employment in their future.
- They should be productive for the benefit of the society
- The education which we have provided will help in the development of country through the medium of my student.
- Help in spreading educational campaign for moral development in society.
- To know the actual condition of villages, village survey will be conducted by the student individually.





Evaluative Report of the Physical Education Department

1. Name of the department : Physical Education
2. Year of Establishment : 1968
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : UG
4. Names of Interdisciplinary courses and the departments/units involved : N.A.
5. Annual/ semester/choice based credit system (programme wise):

	2012-13	2013-14	2014-15	2015-16	2016-17
B.Sc. I	Annual	Semester	Semester	Semester	Semester
B.Sc. II	Annual	Annual	Semester	Semester	Semester
B.Sc. III	Annual	Annual	Annual	Semester	Semester
B.Sc.I (H.Sc.)	Annual	Annual	Annual	Annual	Semester
B.Sc.II (H.Sc.)	Annual	Annual	Annual	Annual	Annual
B.Sc.III(H.Sc)	Annual	Annual	Annual	Annual	Annual

6. Participation of the department in the courses offered by other departments : N.A.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: : N.A.
8. Details of courses/programmes discontinued (if any) with reasons : N.A.
9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Assistant Professors	01	00



10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Rahul D. Kalode	M.A. B.Ed, M.P.Ed., NET 2013	Adhoc	Physical Education	05	-

11. List of senior visiting faculty : N.A.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Session	Percentage of lectures delivered by temporary faculty
2012-13	100%
2013-14	100%
2014-15	100%
2015-16	100%
2016-17	100%

13. Student -Teacher Ratio (programme wise):

	2012-13	2013-14	2014-15	2015-16	2016-17
Student -Teacher Ratio	591:1	685:1	743:1	851:1	887:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of academic support staff (technical)	01
Number of academic administrative staff	N.A.

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name	Qualification
Rahul D. Kalode	M.A. B.Ed, M.P.Ed., NET 2013



16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : N.A.
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : N.A.
18. Research Centre /facility recognized by the University : N.A.
19. Publications:
- Publication per faculty
 - Number of papers published in peer reviewed journals (national /international) by faculty and students

Faculty	National	International	Total
Rahul D.Kalode	03	02	05

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : N.A.

Monographs	: Nil
Chapter in Books	: Nil
Books Edited	: Nil
Books with ISBN/ISSN numbers with details of publishers	: Nil
Citation Index	: Nil
SNIP	: Nil
SJR	: Nil
Impact factor	5.38
h-index	: Nil

20. Areas of consultancy and income generated : NA
21. Faculty as members in : Nil
- a) National committees
 - b) International Committees
 - c) Editorial Boards



22. Student projects : Nil

- a. Percentage of students who have done in-house projects including inter departmental/programme
- b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:

23. Awards / Recognitions received by faculty and students:

- Ku.Avanti S. Chaphale(B.Sc.II H.Sc.) awarded as a Best Female Athlete of RTMNU in the year 2013-14 in Inter-collegiate Athletics Competition.
- Mr. Rajesh Govindraj (B.Sc.I) awarded as a Best Male Athlete of RTMNU in the year 2014-15 in Inter-collegiate Athletics Competition.

24. List of eminent academicians and scientists / visitors to the department: Nil

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National b) International : Nil

26. Student profile programme /course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-13	591	591	242	349	100%
2013-14	688	688	265	423	100%
2014-15	738	738	246	492	100%
2015-16	761	761	295	466	100%
2016-17	887	887	304	583	Appeared



27. Diversity of Students

Year	%of students from the same state	%of students from other states	% of students from abroad
2012-13	97.57 %	2.43%	Nil
2013-14	98.33%	1.67%	Nil
2014-15	95.84	4.16%	Nil
2015-16	98%	2%	Nil
2016-17	97.09%	2.91%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?: N.A.

29. Student progression

Student progression	Against % enrolled
UG to PG	5 % approx.
PG to M.Phil	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	-
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities

Particulars	Details
Library	Departmental Library
Internet facilities for Staff & Students	Facilities Available for Staff
Class rooms with ICT facility	Smart Room
Laboratories	N. A.

31. Number of students receiving financial assistance from college, university, government or other agencies:

- **All backward class students are availing the benefits of GoI Scholarships and Freeships.**



Session	Number of Students	Financial Assistance by
2015-16	01	R. T. M. Nagpur University, Nagpur

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : Nil

33. Teaching methods adopted to improve student learning:

- Demonstration method
- Play way method
- Discussion Method
- Whole part whole method
- Easiest to Difficult method
- Power Point Presentation

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Faculty	Participation in Institutional Social Responsibility (ISR) and Extension activities
Rahul D.Kalode	<ul style="list-style-type: none"> ➤ Doing a Official Duty in District ,State , National and Inter-collegiate competition every year ➤ Donated Blood in Blood Donation Camp organized by College every year.



35. SWOC analysis of the department and Future plans

SWOC Analysis:

Strength	Weakness	Opportunities	Challenges
<ul style="list-style-type: none"> ➤ Highly Qualified and Dedicated Staff ➤ Extensive Student-Teacher Interaction 	<ul style="list-style-type: none"> ➤ Not giving the big scope in India 	<ul style="list-style-type: none"> ➤ Scope to do Masters in Physical Education having high job opportunities. ➤ Good opportunities for higher education in Spots Quota in Banking, Police sector, Companies, and Financial Sector, ➤ Post Graduation in Physical Education opens up opportunities in teaching field 	<ul style="list-style-type: none"> ➤ Declining Students interest in the Subject

Future plans:

- Improve the performance of the students in the competition.
- Intensive Student-Teacher interaction.
- Publishing research papers in reputed journals.
- To obtain Minor Research Project for the Department.
- More participation of the Department in Extension activities.
- To arrange guest lecturers of eminent Physical Education for students.
- To enhance the Research activities of the Department.
- To conduct National Seminar
- To conduct clinic and Workshop for the players and Physical Education Teacher.
- To organized tournament.



- Improvement in infrastructure facilities for outdoor and indoor games.
- Presently we have a Mini Gym but we are planning for a Standard Gym
- All round development of the students physical, mental & social.
- To produce players of State ,National & International repute
- To promote Games & Sports in the region.
- To develop physical and mental fitness of the students.
- To create health awareness among the society in general and students of the college in particular.



Post-Accreditation Initiatives

The esteemed peer team revealed to us our strengths, weakness, and opportunity areas. The analysis gave us a chance to begin with fresh fervor and enthusiasm.

Very early after the accreditation process the institution conducted a NAAC sponsored national workshop titled, 'An Insight into New Strategies and New Policies of NAAC in Higher Education'

Our next step was to organize 'curriculum design and development' workshops in collaboration with Board of Studies R.T.M. Nagpur University, Nagpur. This was followed by another seven days interdisciplinary 'Research Methodology Workshop' on the theme 'Emerging Trends in Research Methodology'. This was co-sponsored by Indian Science Congress and Global Biotech Forum.

To facilitate the teaching-learning process we added two full-fledged state-of-the-art conference halls cum smart rooms in our institution. We have successfully organized online training sessions in these facilities.

We have also made an attempt to increase the actual classroom teaching time of students and managed to spare more time for other academic as well as student mentoring activities of the faculty members.

In order to nurture critical thinking skills, creativity and scientific temper of the students we conducted several projects. 'Scientific Rangoli'; 'Painting a Poem of Choice'; Instruments fabrication are some of the special projects to mention.

We hosted 'Kutuhel' a very unique exhibition organized by Vidnyan Bharti in which the standard brands like LG displayed how home appliances such as AC, TV, Washing Machine and Refrigerator. Number of school children visited this exhibition. One of the main attractions in this exhibition was the Zoology museum, and projects made by the Home-Science and Vocational Department Projects of the institution.

We increased our collaborations with media, industry and NGOs such as Rotary. We organized a special programme with Maharashtra Times on Career Counseling where sessions were conducted by Wing Commander Sameer Gangakhedkar on Army, Navy and Air force as Career options for women. To complement this initiative we opened the NDA Coaching Academy jointly with Krida Bharti under the Vijay Path project. We invited some of the very gallant military officers such as Major General Deo for guidance and counseling of the aspirants.

On the NGO, industry and corporate front we initiated a Rotract Club on our campus. With the assistance of Persistent, a renowned IT firm, we initiated special project of enhancing computer literacy among school children of Nagar Parishad schools through the Rotract Club members of the college.

We have taken special efforts to conduct gender sensitization programmes and constituted an Anti-Sexual Harassment Cell to provide safe campus experience to our students.

On the sports side our tie-up for Taekwondo training programme proved to be a very constructive initiative as one of the girl students won silver medal at the University level competition.

One of the prominent initiatives of our institution during the present cycle is the massive contribution by the maintenance department of the institution. The maintenance department takes care of several maintenance issues and also offers services to the other institution run by our parent institution Dharampeth Education Society. The self-less service of the faculty and staff culminated in building up APJ Abdul Kalam Hall, one of the finest facilities available for students and staff on campus. The department also conducted energy consumption audit and assisted on implementing several energy saving and environmental measures.

During the present cycle we made sincere efforts to internalize some of our best practices and added a few new ones in our repertoire.

With strong support from the management and thorough co-operation from all the stakeholders we hope to continue our committed march towards excellence in every respect.

Principal



Recommendation received and compliance fulfilled

The recommendations received from NAAC peer team during Re-accreditation of our college held during from 6th to 8th February 2012

Sr.no	Recommendations by NAAC peer team	Compliance fulfilled
1.	The college may plan to offer new courses in emerging areas.	The institution made sincere efforts to consolidate on the COC on the emerging area of Bio-informatics and also has made efforts to widen the range of courses offered at our campus. The institution made efforts to start PG courses in Chemistry, Physics, Mathematics and A Five years Integrated Course in Electronics
2.	Introduction of self-finance need based UGC programs diploma and Addon courses.	The institution started a new COC in Mushroom Cultivation funded by UGC
3.	College may take efforts to replace the contract teachers with regular teachers.	The institution has made sincere efforts to change this position however because of the frequent changes in the roster rules and policy of the government regarding recruitment of faculty and staff the institution is massively short of fulltime regular employees.
4.	IQAC may be systemized and strengthened.	IQAC is strengthened with infrastructure and financial support.
5.	Lecture method of teaching may be supported by ICT.	ICT infrastructure has been considerably improved.
6.	Practical and skill component need strengthening.	Practical and skill component is strengthened and is well supported by the present Curriculum, Design and Assessment pattern of the R T M Nagpur University, Nagpur
7.	Better internet facility should be provided.	Internet facilities are considerably improved. Presently the examination system supports online delivery system of question papers by the RTM Nagpur University ³⁶²



		Nagpur
8.	Language lab may be established for effective communication skills of students.	Steps are initiated in this direction and the institution will soon be in a position to set up a small lab with assistance of the computers provided by the esteemed IT firm Persistent.
9.	The Library should be enriched in terms of text books, reference books and journals.	Library has made MOUs for Inter Library Loan facilities with some of the esteemed libraries available locally. Besides this, the institution has made attempts to enrich the facilities by way of tie-ups with British Counsel Library and American Counsel Library (under Dosti Project)
10.	Non teaching staff be encouraged to participate in training and development programmes	Attention has been given to the training and development of the non-teaching staff faculty members. Some workshops for improving computer skills. ID card making etc were arranged.
11.	Strategies resource generation need to be planned.	The institution focused on generating resources through tie-ups with NGOs, COCs, training programmes, welfare schemes, optimal utilization the infrastructure by way taking competitive examinations on campus.



Dharampeth Education Society's
**DHARAMPETH M. P. DEO MEMORIAL
SCIENCE COLLEGE**
Near Ambazari Lake, North Ambazari Road, Nagpur 440 033 (M.S.)
Contact : +91 712 2241372 / 2241490 Fax: +91 712 2241125
www.dharampethscience.com

DR. AKHILESH V. PESHWE
M.A., M.Ed (USA), U.E., Ph.D.
PRINCIPAL

Contact : +91 94223 13334
Email : principal_dsc@rediffmail.com

Ref. No. : DSC/SR/JR/.....

Date : 30/03/2017

Declaration by the Head of the Institution

I certify that the data included in the self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the Peer team visit

Place :- Nagpur
Date :- 30/3/2017

Dr.A.V.Peshwe
Principal

**Dharampeth M.P. Deo Memorial
Science College, Nagpur.**







Dharampeth Education Society's

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DR. AKHILESH V. PESHWE
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PRINCIPAL

Contact : +91 94223 13334
Email : principal_dsc@rediffmail.com

Ref. No. : DSC/SR/JR/.....

Date : 30/3/2017

CERTIFICATE OF COMPLIANCE

This is to certify that Dharampeth M.P.Deo Memorial Science College, Ambazari, Nagpur fulfills all norms

- 1 Stipulated by affiliating University and/or
- 2 Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc] and
- 3 The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation/recognition is conditional then a detailed enclosure with regard to compliance of conditions by the Institution will be sent.

It is noted that NAAC's accreditation if granted shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

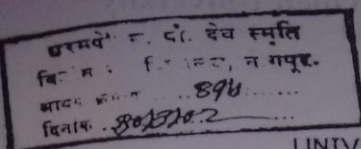
Date :- 30/3/2017

Place :- Nagpur



Dr.A.V.Peshwe
Principal
Principal

**Dharampeth M.P. Deo Memorial
Science College, Nagpur.**



UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-110 002.

F.8-163/2000 (CPP-I)

22nd March 2002

The Director,
Board of College & University Development,
Nagpur University,
Nagpur (M.S.).

Sub:- List of Colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956.-
Inclusion of New Colleges.

Sir,

I am directed to refer to the letter No. DSC/SU/788/2001-02 dated 29-08-2001 received from Dharampeth M.P. Deo Memorial Science College, Nagpur on the subject cited above and to say that the name of the following College has been included in the above list under Non-Government Colleges teaching upto Bachelor's Degree.

Name of the College	Year of Establishment	Remarks
Dharampeth M.P. Deo Memorial Science College, Nagpur-440 010 (M.S.). Dr. A.G. Moharil	1968	The College is eligible to receive Central assistance in terms of the Rules framed under Section 12-B of the U.G.C Act, 1956.

The Indemnity Bond and other documents in respect of the above College have been accepted by the Commission.

Yours faithfully,

(D.D. Mehta)
Under Secretary

Copy to:-

1. The Principal, Dharampeth M.P. Deo Memorial Science College, Nagpur-440 010 (M.S.).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhavan, T-14 Section, New Delhi-110 001.
3. The Joint Secretary, UGC, Western Regional Office, Ganeshkhind, Poona University Campus, Pune-411 007 (Maharashtra).
4. The Joint Secretary, CPP-I, UGC, New Delhi.
5. Section Officer, FD-III Section, UGC, New Delhi.
6. All Sections, UGC, New Delhi.
7. D.T.P. Cell, UGC, New Delhi.
8. Guard file.

(Mrs. Shashi Munjal)
Section Officer

सहा. कुलसचिव (म.वि.)

म.वि. न.प. विद्यापीठ नागपूर



NAGPUR UNIVERSITY

No. R/99/CS/BCUD/
Date 25th October, 1999.

To

*The Principal
Dharampeth M.P. Deo Memorial Science College,
Nagpur.*

Reference :- Your Application for Permanent Affiliation

With reference to above, this is to inform you that your application for Permanent Affiliation has been processed as per the provisions of Section 88 of the Maharashtra Universities Act, 1994 and Direction No.3., 1997 issued by the Hon'ble Vice-Chancellor. A committee constituted by the Board of College & University Development has scrutinised the infrastructural facilities, academic, administrative and financial standards of your college. The report of the Committee was considered and approved by the Board of College & University Development in its meeting held on 11th August, 1999 and thereafter by the Academic Council in its meeting held on 28th September 1999. Accordingly, your college have been accorded Permanent Affiliation only in the Faculties and subjects given below :

Sl. No. Faculty

1. Faculty of Science
 (For B.Sc. Classes)

Faculty of Home-Science.
(For B.Sc. Classes)

Course/Subjects

Compulsory English,
Compulsory Second Language,
Marathi/Hindi/Sanskrit/
Supplementary English, Physics,
Chemistry, Zoology, Biology,
Mathematics, Statistics, Electronics,
Microbiology.

Compulsory English, Physics,
Chemistry, Human Development,
Household Biology, Textile &
Clothing, Food & Nutrition, Home-
Science Extension, Family Resource
Management, Applied Psychology,
Biochemistry.

S.S. Dara

(S.S. Dara)

Registrar,
Nagpur University, Nagpur.



राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ

महाविद्यालय व विद्यापीठ विकास मंडळ

राष्ट्रसंत
तुकडोजी महाराज
नागपूर विद्यापीठ

सोबत जोडलेले प्राचार्य, Dharampeth M.P. Deo Memorial Science College, Near Ambazari Lake, North Ambazari Road, Nagpur या महाविद्यालयाचे दिनांक ३०/०३/२०१७ रोजीचे प्राप्त पत्रात नॅक करिता प्रमाणपत्र आवश्यक असल्यामूळे विद्यापीठाचे संलग्निकरण अभ्यासक्रम सुरू असलेले पत्र मागीतले आहे.

सदर महाविद्यालयात खालील नमूद केल्याप्रमाणे अभ्यासक्रमाला कायम संलग्निकरण मान्यता आहे.

Sr. No.	Courses/Subject	Duration of the course	Affiliation (Permanent/ Temporary / Continuation Affi.)	Validity period
1	Faculty of Science (For B.Sc. Classes) Compulsory English, Compulsory Second Language, Marathi/Hindi/Sanskrit/Supplementary English, Physics, Chemistry, Zoology, Biology, Mathematics, Statistics, Electronics, Microbiology.	3 Year	Permanent	Permanent
2	Faculty of Home Science: (For B.Sc. Classes) Compulsory English, Physics, Chemistry, Human Development, Household Biology, Textile & Clothing, Food & Nutrition, Home-Science Extension, Family Resource Management, Applied Psychology, Biochemistry.	3 Year	Permanent	Permanent

Baw 343
31/3/2017

वरिलप्रमाणे पुढील कार्यवाही घेण्याकरिता नस्ती उपकुलसचिव (म.वि.वि) ला पाठविण्यात येत आहे.

अधिक्षक (म.वि.वि)

सहायककुलसचिव (म.वि.वि)

उपकुलसचिव (म.वि.वि)

Diswami
31/03/2017



संज्ञान पर समीक्षा-नविस २००१, विसय ८/ (१०/०१)/नवि-२, दिनांक १२/०१/२००१

अन्वये सन २००१-२००२ वा शैक्षणिक वर्षासुन नवीन विषय

सुन कार्यालय जाताने पं.दु.री दिलेला महाविद्यालयांनी वायी.

प्रमाण - अ

अ.क्र.	महाविद्यालयचे नाव	विद्यार्थ्यांक या वर्षी	पं.दु.री दिलेले विषय
१.	२.	३.	४.
१.	टी. डब्ल्यू. पस. बाल व शैक्षणिक महाविद्यालय, सनवटी रोड, नागपूर.	एम. ए. भाग-१	१) पारंगी कलमय २) इंग्रजी कलमय ३) हिंदी कलमय
२.	डी. एम. के. उमाते कला व शै. संस्थानकट मंडळी, शालिग्राम महाविद्यालय, नागपूर.	एम. ए. भाग-१	१) समानता २) इतिहास ३) अर्थशास्त्र ४) राज्यशास्त्र
३.	फौज गेजुपट संस्कृतगुट ऑफ डेव्हलपमेंट कलंडर, नागपूर.	बी. कॉम. भाग-१ बी. कॉम. भाग-१	१) कॉम्युनर ऑरिएंटेशन हिंदी माध्यम
४.	डी. एम. ए. बालाजी संस्कृतगुट ऑफ डेव्हलपमेंट, डेव्हलपमेंट, नागपूर.	सामान्य	एम. एम. सी. जयशंकरबाईजी
५.	ए.ए.ए.ए.एम. वी. देव प्रचारिका संस्थान, नागपूर	बी. एस्सी. भाग-१	१) कॉम्युनर सामान्य २) इन्टीरमेशन टेक्नीकीजी
६.	एम. एस. एस. कॉलेज, सवित्री किल, नागपूर	एम. एससी भाग-१	१) सामान्य
७.	कमल वंदन महाविद्यालय, नागपूर	एम. एससी भाग-१	कॉम्युनर
८.	जय महाविद्यालय, सनवटी, नागपूर	बी. एस्सी. भाग-१ बी. ए. भाग-१ बी. कॉम. भाग-१	१) पारंगी व तंत्रज्ञान २) कॉम्युनर सामान्य १) पारंगी व तंत्रज्ञान १) पारंगी व तंत्रज्ञान
९.	सती अटुल पदला मंडला बाल महाविद्यालय, सनवटी, नागपूर.	बी. ए. भाग-१	१) इंग्रजी कलमय २) पारंगी कलमय ३) गुण अर्थशास्त्र
१०.	कला, शैक्षणिक महाविद्यालय, फौज. रा. मंडी, जि. नागपूर.	बी. कॉम. भाग-१	कॉम्युनर सामान्य
११.	के. ए. बी. प्रसिद्ध (के. शंठ एल) विज्ञान महाविद्यालय, ब्रह्मदे, ना. कलमेरकर, जि. नागपूर.	बी. एस्सी. भाग-१	१) सामान्य २) पारंगी कलमय
१२.	बी. शंकराज बालाजी महाविद्यालय, मोठ्या, रा. कलमेरकर, जि. नागपूर	एम. ए. भाग-१	पारंगी
१३.	जयशंकर विज्ञान महाविद्यालय, सनवटी, नागपूर	बी. एस्सी.	१) कॉम्युनर सामान्य २) जयशंकरबाईजी

(Signature)
Principal
Dharampeth M.P. Deo Memorial
Science College, Nagpur.



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed*

Peer Team is pleased to declare the

Dharampeth Education Society's

Dharampeth M. P. Deo Memorial Science College

Nagpur, affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Maharashtra as

Accredited

with CGPA of 2.83 on four point scale

at B grade

valid up to March 09, 2017

Date : March 10, 2012



H. K. Kulkarni
Director



EC/58/RAR/077



Peer Team Report
on
Institutional Accreditation
of

**DHARAMPETH M. P. DEO MEMORIAL
SCIENCE COLLEGE
NAGPUR-440033 (MAHARASHTRA)**

(Date of Visit : February 6–8, 2012)



**National Assessment and Accreditation Council
Bangalore – 560072**

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PEER TEAM REPORT ON
Institutional Re-Accreditation of
Dharampeth M.P. Deo Memorial Science College

Place : Nagpur State: Maharashtra

Section 1: GENERAL	Information
1.1. Name & Address of the Institution:	Dharampeth M.P. Deo Memorial Science College Nagpur - 440033, Maharashtra.
1.2 Year of Establishment:	1968
1.3 Current Academic Activities at the Institution (Numbers):	
• Faculties/Schools:	Science : 01, Home Science : 01 Total - 02
• Departments/Centres:	16
• Programmes/Courses offered:	U.G: 01, Diploma - 01, Certificate - 01
• Permanent Faculty Members:	30 (13 Males, 17 Females)
• Temporary Teachers:	17 (5 Males, 12 Females)
• Permanent Support Staff:	53
• Students:	537
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	<ul style="list-style-type: none"> • An affiliated, grant-in-aid college located in the heart of Nagpur city. • One of the oldest colleges in Nagpur run by Dharampeth Education Society. • The College offers science education to urban under privileged students.
1.5 Dates of visit of the Peer Team	February 6-8, 2012
1.6 Composition of the Peer Team which undertook the on-site visit:	
Chairperson	Prof. P.S. Zacharias Former Vice-Chancellor, Goa University 207, Kapila Tower 1, National Games Housing Complex Koramangala, Bangalore-560047.
Member Co-ordinator	Prof. Arun K. Pandey Department of Botany, University of Delhi Delhi - 110007.
Member	Prof. R.L. Mathur Principal, LM College of Science & Technology Jodhpur-342003.
NAAC Officer:	Dr. Sujata P. Shanbhag Assistant Adviser, NAAC, Bangalore - 560072.

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Section II: CRITERION WISE ANALYSES	Observations (Strengths and/or weaknesses in the Aspects) (Please limit to three major ones for each and use telegraphic language. It is not necessary to indicate all the three bullets each time; write only the relevant ones)
2.1 Curricular Aspects:	
2.1.1 Curricular Design & Development:	<ul style="list-style-type: none"> Being an affiliated college, it follows the syllabi prescribed by the affiliating RTM Nagpur University. Eight teachers of the college in various BOS to a limited extent contribute to curriculum development. Academic programmes are in tune with college's goals and objectives. The College has introduced one self-financing course and designed one add-on course.
2.1.2 Academic Flexibility:	<ul style="list-style-type: none"> Flexibility in courses is limited. Range of programmes is reasonably wide.
2.1.3 Feedback on Curriculum	<ul style="list-style-type: none"> Formal feedback is collected from the students and informally from other stakeholders. Peer review is taken, but industry views are yet to be introduced.
2.1.4 Curriculum Update	<ul style="list-style-type: none"> Curriculum is periodically revised by the affiliating University. National educational objectives are reflected in the programmes offered. Being an affiliated college, the faculty has limited role in curriculum update.
2.1.5 Best Practices in Curricular Aspects (If any):	<ul style="list-style-type: none"> Introduction of self-financed, need-based UG programme, diploma and add-on courses.
2.2 Teaching-Learning & Evaluation:	
2.2.1 Admission Process and Student Profile	<ul style="list-style-type: none"> Admission procedure and its details are given in the prospectus, and displayed on the College website. Admission process is transparent and based on merit. Reservation policy of the State Government is followed.
2.2.2 Catering to the Diverse Needs:	<ul style="list-style-type: none"> College has formulated well-defined strategy to support slow learners and educationally backward groups. Institution is sympathetic to poor and disadvantaged students and provide freeship and financial support. Remedial and bridge courses are conducted by the College.

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Teaching-Learning Process:	<ul style="list-style-type: none"> Teachers follow traditional method of teaching with the support of audio-visual tools. Academic calendar and teaching plan by every teacher are in place. Committed faculty giving personal attention to students.
2.2.4 Teacher Quality	<ul style="list-style-type: none"> Out of 30 permanent teachers, 19 teachers possess Ph.D. degree, and 06 are M.Phil. degree holders. Faculty members are appointed following the norms of the State Govt. and the University. About thirty percent teachers are temporary/on contract basis.
2.2.5 Evaluation Process and Reforms:	<ul style="list-style-type: none"> Evaluation is done by the affiliating University. The College follows innovative evaluation method for internal assessment.
2.2.6 Best Practices in Teaching-Learning and Evaluation (If any):	<ul style="list-style-type: none"> Regular monitoring of students by faculty members. Exchange of faculty in few departments.
2.3. Research, Consultancy & Extension:	
2.3.1 Promotion of Research:	<ul style="list-style-type: none"> About eight teachers are engaged in research. Faculty members have attended 33 conferences and presented 8 research papers. Organised well attended 5 seminars during the last 5 years.
2.3.2 Research and Publications Output:	<ul style="list-style-type: none"> There are seven ongoing minor research projects funded by the UGC. Five projects have been completed. Faculty have published ten papers in international journals, twenty in national journals, nineteen conference papers and three books.
2.3.3 Consultancy:	<ul style="list-style-type: none"> Few teachers provide consultancy.
2.3.4 Extension Activities:	<ul style="list-style-type: none"> One unit of NSS exists. Two NCC cadets participated in RD parade this year. NSS and NCC units jointly conducted programmes like blood donation camps, health awareness programmes in nearby rural areas. Two villages have been adopted under extension programmes.
2.3.5 Collaborations:	<ul style="list-style-type: none"> Go-Vidya Arasandhan Kendra for verbal computing and statistical analysis. LB Shastri College, Satara for study of flora and fauna of Kas Plateau.

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NAAC for Quality and Excellence in Higher Education

2.3.6 Best Practices in research, Consultancy & Extension (If any):	<ul style="list-style-type: none"> Establishment of research room to promote research activities. Developing various microbial cultures and selling them to other institutions for teaching/research purpose.
2.4 Infrastructure and Learning Resources:	
2.4.1 Physical Facilities for Learning:	<ul style="list-style-type: none"> College is spread over 5 acres of land, and has separate building blocks for academic and administrative work. Physical facilities are adequate for the current programmes. Existing infrastructural facilities are optimally shared by the college and sister institutions located on the campus.
2.4.2 Maintenance of Infrastructure:	<ul style="list-style-type: none"> College has a budget provision for the maintenance. Infrastructural facilities are augmented from time to time.
2.4.3 Library as a Learning Resource:	<ul style="list-style-type: none"> College library is spacious (area : 275 sq.mt.) having separate reading room for students and teachers. The partially computerized library has 17,154 volumes and subscribes to 18 journals and 16 magazines. Book bank, internet, INFLIBNET and reprographic facilities are available.
2.4.4 ICT as Learning Resources:	<ul style="list-style-type: none"> College has 58 computers, and 06 printers. Three LCD projectors and some OHPs are available. College website is user friendly.
2.4.5 Other Facilities:	<ul style="list-style-type: none"> Gymnasium, Canteen, Girl's common room, Health unit, Zoological Museum and Botanical Garden.
2.4.6 Best Practices in the development of Infrastructure and Learning Resources (If any):	<ul style="list-style-type: none"> Well maintained and eco-friendly campus paying special attention to sparrows.
2.5 Student Support and Progression:	
2.5.1 Student Progression:	<ul style="list-style-type: none"> Over 80% of the students proceeds for higher education and dropout rate is about 8%. The pass percentage for UG programmes is about 50% and above the University pass percentage of about 45%. Functional Alumni association.

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2.5.2 Student Support:	<ul style="list-style-type: none"> Over 150 students receive dist. Scholarships under SC/ST and OBC categories and 40 students receive freships. Placement Cell, Grievance Redressal Cell and Women Study Cell are functional. Remedial classes are organized for students.
2.5.3 Student Activities:	<ul style="list-style-type: none"> Students participate in co-curricular and extra-curricular activities. Students have won 3 gold medals and 5 silver medals at the University level in swimming, archery, discus throw, shot put, javelin throw etc. The College publishes magazine "Aarita" and Department of Chemistry publishes "Pearl" magazine annually.
2.5.4 Best Practices in Student Support and Progression (if any):	<ul style="list-style-type: none"> Students are covered under insurance scheme for rupees one lakh on payment of Rs. 70 annually. Students of Home Science department developed a game plan connecting dietary requirements and major health problems on the pattern of snake and ladder game.
2.6 Governance and Leadership:	
2.6.1 Institutional Vision and Leadership:	<ul style="list-style-type: none"> The 'Vision and Mission' of the institution are in tune with the objective of higher education policies of the nation. Principal provides effective leadership. College has 'Master Plan' for its future development. Active involvement of management is visible.
2.6.2 Organizational Arrangements:	<ul style="list-style-type: none"> Administration is decentralized through a number of committees. Internal mechanism exists for redressing complaints of staff. College needs to augment its resources to offer quality education.
2.6.3 Strategy Development and Deployment:	<ul style="list-style-type: none"> Educational management strategies are well-developed and systematically implemented. Participative approach visible in departmental functions. Students and staff actively participate in developmental programmes of the College.
2.6.4 Human Resource Management	<ul style="list-style-type: none"> Self-appraisal mechanism of teachers is practiced.
2.6.5 Financial Management and Resource Mobilization:	<ul style="list-style-type: none"> College mobilizes funds through self financed courses. State Government and UGC also provide some funds to the College.

Dharampeth M.P. Deo Memorial College, Nagpur, M.S.

[Signature]

5



Practices in Governance and Leadership (If any):	<ul style="list-style-type: none"> Functional Credit Co-operative Society for the benefit of its employees.
Innovative Practices:	
Internal Quality Assurance System:	<ul style="list-style-type: none"> College has an IQAC which monitors quality sustenance and enhancement measures. Institutionalized initiatives are taken for internal best practices and innovations.
1 Inclusive Practices:	<ul style="list-style-type: none"> Most of the students belong to disadvantaged sections of the rural community. Remedial teaching and financial support are provided to the needy students.
3 Stakeholder Relationships:	<ul style="list-style-type: none"> College maintains cordial relations with the alumni, parents and the society. The stakeholders' perception of the College is good. Involvement of stakeholders in organization of socially useful programmes for neighbourhood.
Section III: OVERALL ANALYSIS	
Observations (Please limit to five major ones for each and use telegraphic language)	
Institutional Strengths:	<ul style="list-style-type: none"> Qualified and dedicated teaching staff. Wide stakeholder's support and commitment of the management. Disciplined and peaceful academic atmosphere.
2 Institutional Weaknesses:	<ul style="list-style-type: none"> Predominantly conventional teaching learning process. Research and consultancy activities need strengthening. Computerization of administrative system only partial.
3 Institutional Opportunities:	<ul style="list-style-type: none"> Scope for introducing professional and PG courses. Establishing academic linkages and collaborations at University and national level. Introducing need-based vocational courses. Organising staff development programmes, conferences and seminars.
4 Institutional Challenges:	<ul style="list-style-type: none"> Improving institutional competency in ICT to compete in the global market. Initiatives for the automation of administration and up gradation of laboratories. Introducing inter-disciplinary and multi-disciplinary courses.


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Section IV: Recommendations for Quality Enhancement of the Institution
 (Please limit to ten major ones and use telegraphic language)
 (It is not necessary to indicate all the ten bullets)

- College may plan to offer new courses in emerging areas.
- College may make efforts to replace the temporary/contract teachers with regular teachers.
- IQAC may be systematized and strengthened.
- Lecture method of teaching may be supported with wider use of ICT.
- Practical and skill component need strengthening.
- Better internet facility be provided.
- Language lab may be established for improving effective communication skills of the students.
- The library be further enriched in terms of text books, reference books and journals.
- Non-teaching staff be encouraged to participate in training and development programmes.
- Strategies of resource generation need to be planned.

I agree with the observations of the Peer Team as mentioned in this report.



Signature of the Head of Institution
 Seal of Institution
PRINCIPAL
 Dharampeth M.P. Deo Memorial
 Science College, Nagpur.

Signature of the Peer Team Members:

Name	Designation	Signature with date
Prof. P.S. Zacharias	Chairperson	<i>P.S. Zacharias</i> 8.2.12
Prof. Anus K. Pandey	Member Co-ordinator	<i>Anus K. Pandey</i> 8.2.12

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UNIVERSITY GRANTS COMMISSION
CAREER ORIENTED PROGRAMME
35 FIROZSHAH ROAD
NEW DELHI-110 001

F. No.4-271 /2008(COP)

March, 2008

The Under Secretary (FD-III)
University Grants Commission
New Delhi-110002

27 MAR 2008

Subject Release of Grants-in-aid to Dharampeth M.P.Deo Memorial Science College Nagpur, Dist.Nagpur, Maharashtra for Career Oriented Programme 2008-09 under Plan.

Sir,

With reference to the proposal submitted by Dharampeth M.P.Deo Memorial Science College, Nagpur, Dist.Nagpur, Maharashtra under the UGC scheme of Career Oriented Programme, I am directed to convey the approval of the University Grants Commission for starting the following Career Oriented Courses in the above mentioned College from the academic year 2008-09.

Courses Approved		Seed Money (Rs. in lakh)
<u>Arts/Social Science</u>		
1	--	--
<u>Science</u>		
1	Bioinformatics (Science Faculty)	7,00,000/-
<u>Commerce</u>		
1	--	--
Total		7,00,000/-

25/3/08

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**Annexure: 3.1.5b****LIST OF MAJOR & MINOR RESEARCH PROJECTS**

Name of PI	Title of the Research Project	Name of funding agency	Grants	
			Sanctioned	Received
MAJOR RESEARCH PROJECTS				
Dr. P. T. Humane HOD, Dept. of Botany	<i>Study of the Phytoremediation Activity of Some Wild Plant species and the effects of phytoremediation on taxonomically important characteristics</i>	SERB, DST	6,00,000/-	5,50,000/-
MINOR RESEARCH PROJECTS				
Dr. N. L. Khobragade HOD, Dept of Mathematics	<i>Extension of some aspects of thermoplastic problems of Physics & Engineering</i>	UGC	75,000/-	75,000/-
Dr. C. V. Dhule HOD, Dept. of Electronics (Retd. On June, 2015)	<i>Growth and Characterization of ferroelectric thin films for solar cell application</i>	UGC	1,92,000/-	1,92,000/-
Dr. A. S. Kulkarnni HOD, Dept. of Microbiology	<i>Isolation and characterization of Novel bacteriocins against multi drug resistant pathogen</i>	UGC	1,75,000/-	1,75,000/-
Dr. Mrs. A. V. Nasery Dept. of Statistics (Retd. On June, 2016)	<i>The study of the stochastics patterns in the cause wise death claims, reserves in life insurance.</i>	UGC	85,000/-	85,000/-
Mrs. P. A. Likhite HOD, Electronics (VRS on Nov., 2016)	<i>Growth, Characterization and device application of rare earth doped errolectric lead</i>	UGC	1,75,000/-	1,75,000/-



	<i>germinate (Pb5Ge3011)</i>			
Dr. P. W. Ambekar Dept. of Physics	<i>Surface electronics as on important parameter, governing the performance of electrochemical gas sensor</i>	UGC	1,45,000/-	1,45,000/-
Dr. Mrs. V. P. Meshram Dept. of Chemistry	<i>Synthesis and characterization of Thermally stable Polymers</i>	UGC	85,000/-	79,500/-
Mrs. S. A. Deshpande	<i>"Recent Trends in developing communicative competence through e- learning"</i>	UGC	70,000/-	70,000/-

**Annexure: 3.4.3a****LIST OF RESEARCH PAPERS****➤ 2012-13**

- ❖ “PL and ML characterization of $\text{Sr}_3\text{Eu}_x\text{Al}_{10-x}\text{SiO}_{20}$ Phosphor” Recent Research in Science and Technology 4 (8) Peer reviewed Journal
- ❖ “Beware Ye Human Being ! Go Green” (110-116) published in proceeding of NAAC sponsored workshop on “An insight into new strategies and Policies of NAAC in higher education” , organized by Dharampeth M. P. Deo Memorial Science College, Nagpur on 12-13 oct.2012 (ISBN No.978-93-80287-80-5
- ❖ Paper published in Conference Souvenir with ISBN- 978-93-5097-174-1 entitled Multimedia Learning: An e-learning platform for English Language Acquisition in a National Conference Alekh-2013 On E- Business, E – education, E-learning organized by KDK College of Engineering, Nagpur on 16th Feb, 2013.
- ❖ Paper published in a Book “Quality Assurance in Higher Education: Issues and Concerns” with ISBN 978-93-80287-80-5. The title of the paper is “ Introducing E-learning Course for English Language Acquisition”.
- ❖ “Ethnobotany and Preliminary Phytochemical Analysis of some wound healing plants of Bhandara district (M. S.)” in Journal of Biological and Physical Sciences, Vol. No. I(IV), p.n. 215-16, Nov., 2012, ISSN No. 2219-636X.
- ❖ Gender diversity in Physics in India: Interventions so far and remedies for the future’, American Institute of Physics, conference proceedings (2013) March. ISSN/ ISBN No1517.
- ❖ Synthesis of Nanosized Ferrite From the Thermolysis of Diphenylamine substituted Pentacyanoferrate Complex, R.B.Lanjewar and M.R.Lanjewar, International Journal of Knowledge Engineering, International Journal of Knowledge Engineering, 3(1) (2012) 61-63; 0976-5816, E-ISSN 0976-5824 (e); 7.04 ICV Index Corpenicus value
- ❖ Characterization of Ambient Air Dust Particulates from a Cement Factory and Thermal Power Plant by NAA and Mössbauer Spectroscopy”, R.B. Lanjewar and M.R. Lanjewar, Bionanofrontier, Vol. 5(2-III) 2012 pp 84, ISSN No. 0974-0678. 0974-0678. 4.8
- ❖ A VALIDATED HPTLC METHOD FOR DETERMINATION OF NEBIVOLAL FROM TABLET” By S. S. Kulkarni, K.V. Chithalkar, Prafullachandra Tekade and R.B.Lanjewar, International Journal of Pharmaceutical and Chemical Sciences, Volume 2, Issue 1, January-March. 2013 pp 254-258, ISSN: 2277-5005.
- ❖ Development and validation of a simple HPTL method for Estimation of Mycophenolate Mofetil in Bulk Drugs and in Tablet Dosage Form” S S Kulkarni, K.V.Chithalkar, Prafullachandra Tekade and R.B.Lanjewar, International Journal of Pharmaceutical and Chemical Sciences, Volume 2, Issue 1, January-March. 2013 pp 350-354. ISSN: 2277-5005
- ❖ Development and Validation of Simple HPTLC method for Estimation of Mycophenolate Mofetil in Bulk Drug and in Tablet Dosage Form, Kailas Chithalkar, Shardul Kulkarni, P. Tekale, Ratnakar Lanjewar and R. K. Bawja; International



Journal of Pharmaceutical and Chemical Sciences Vol. 2(1) Jan. Mar. 2013; 2277-5005.

- ❖ Transformation of flavonoid naringin by *Aspergillus niger* ITCC4515 using laboratory fermenter (model L-1523 Switzerland); J.of Biological & Physical Sciences ISSN No.2319-636x, 3-5 Nov. 2012, Special Issue ,pg.no.48-52. ISSN No.2319-636x.
- ❖ The Quality Enhancement of Education Through Learning of Inner Science; Quality Assurance in Higher Education: Issues & Concerns ISBN978-93-80287-80-5,2013, Ch. 33, pg. no.129-133. ISBN978-93-80287-80-5,2013.
- ❖ Monitoring of antimicrobial effect of GC-MS standardized *melaleuca alternifolia* oil on multidrug resistant uropathogens, Archana Kulkarni, Nasreen Jan and Seema Nimbarte*: IOSR Journal of Pharmacy and Biological Sciences (IOSRJPBS) ISSN : 2278-3008 Volume 2, Issue 2 (July-August 2012), PP 06-14 (DOI>10.9790/3008-0220614) Citation Index 01 (IMPACT FACTOR 3.83).
- ❖ Survey and analysis of physicochemical paramaters, heavy metals metals and microbial indicates to investigate pollution status of well waters of surendranagar area of Nagpur, Bionano Frontier ISSN 0974-0678, UGC Sponsored International Conference on Global Change : Impact on Biodiversity, Culture and Technology, organized by II World Congress for Man and Nature, and International Society For Science and Technology, in collaboration with Sevadal Mahila Mahavidhyalaya Nagpur. on 3-5 Nov. 2012, Special Issue katkar V.S. and kulkarni A.S. Vol. 2, pp.35-37. (Impact factor 0.2334).
- ❖ In vitro assessment of antibacterial efficacy and photochemical screening of some plant extracts of family rutaceae, Bionano Frontier ISSN 0974-0678, UGC Sponsored International Conference on Global Change: Impact on Biodiversity, Culture and Technology, organized by II World Congress for Man and Nature, and International Society For Science and Technology, in collaboration with Sevadal Mahila Mahavidhyalaya Nagpur. on 3-5 Nov. 2012, Special Issue Patil S.P., Kalkar S.A.*, kulkarni A.S. **, Vol. 2, pp.131-133. (Impact factor 0.2334).
- ❖ Studies on Characterization of Nosocomial *E.coli* Isolates on the basis of Plasmid Profiling and Resistogram, Journal of Biological and Physical Sciences: ISSN 2319-636X, UGC Sponsored International Conference on Global Change: Impact on Biodiversity, Culture and Technology, organized by II World Congress for Man and Nature, and International Society For Science and Technology, in collaboration with Sevadal Mahila Mahavidhyalaya on 3-5 Nov. 2012, Special Issue A.A.Deo, A.S.Kulkarni, Vol. 1, pp.53-56.



➤ 2013-14

- ❖ Research Paper entitled “String Fluid Bulk Viscous Magnetized Cosmological Model in Bimetric Theory of Gravitation” published for published in International Journal of Applied Mathematics 14(2), 1406 (2014) ISSN: 2051-5995 (*Impact Factor: 2.31*).



- ❖ “Synthesis and photoluminescence properties of $\text{BaGdB}_9\text{O}_{16}:\text{Dy}^{3+}$ phosphor materials for white light applications” published in proceeding of National Conference on Novel Synthesis of Advanced Materials organized by Dhote Bandhu Science College, Gondia, on 20th Dec. 2014 (ISBN No.978-93-82962-51-9)
- ❖ “Development of Electroluminescence cell using $\text{YAl}_3(\text{BO}_3)_4:\text{Tb}^{3+}, \text{Ce}^{3+}$ inorganic luminescent material for displays” published in proceeding of National Conference on Novel Synthesis of Advanced Materials organized by Dhote Bandhu Science College, Gondia, on 20th Dec. 2014 (ISBN no. 978-93-82962-51-9).
- ❖ ‘TRANSPORT PROPERTIES OF GLASSES FROM BIOMASS ASH’, International Journal of Basic and Applied Research, ISSN(Print)2249-3352, ISSN(Online), 2278-0505, Jan 2014.
- ❖ ‘RECYCLING OF WASTE PRODUCTS: A GREEN INITIATIVE’, International Journal of Researches in Biosciences, Agriculture & Technology, ISSN No.Online ,2347-517X, Jan 2014.
- ❖ ‘PREPERATION OF GLASS FROM BIOMASS ASH AND STUDY OF ITS PROPERTIES’, International Journal of Researches in Biosciences, Agriculture & Technology, ISSN No. Online ,2347-517X, Jan 2014.
- ❖ SYNTHESIS AND CHARACTERIZATION OF HETEROCYCLIC SUBSTITUTED PENTACYANOFERRATE (II) COMPLEXES: UV-VISIBLE, INFRARED, MÖSSBAUER, TGA-DTG AND XRD”, Ratnakar B. Lanjewar and Mamata R. Lanjewar, *International Journal of Engineering Invention*, - Volume 2, Issue 12 (August 2013).pp 33-36; ISSN: 2278-7461, p-ISSN: 2319-6491; 3.152
- ❖ Quantification of Allethrin using HPTLC from *Annona Squamosa* (Custard Apple), Shardul Kulkarni^{1*}, Prafulla Chandra Tekale, Ratnakar Lanjewar, Swati Joshi, Kailas Chitalkar, Santosh Pathare and Rajale SN,); *Journal of Chromatography Separation Techniques*, Vol.3 (2013). 2157-7064; 1.5
- ❖ HPTLC Method Development and Validation of Indapamide in Bulk Drugs and Formulation Form, Ratnakar Balkrishna Lanjewar*, Shardul Sudhakar Kulkarni , Kailas Vasant Chitalkar, Amit Janak Joshi, *Int. J. Pharm. Sci. Rev. Res.*, 21(2), Jul – Aug 2013; n° 52, 293-296; ISSN 0976 – 044X.; 2.191
- ❖ Mössbauer and Thermal Studies of sodium ferrite synthesized from sodium / potassium hexakis (trimethylacetato) ferrate(III) complexes, Ratnakar B. Lanjewar and Mamata R.Lanjewar, *International Journal of Chemical and Physical Sciences*, Vol.1 (2013) ISSN 2319-6602. ISSN 2319-6602. 1.815
- ❖ Comparative Studies of Synthesis of Nanosized Ferrite from the Thermolysis of di- and tri-phenylamine Substituted Pentacyanoferrate complexes, Ratnakar B. Lanjewar and Mamata R. Lanjewar, www.pelagiaresearchlibrary.com Pelagia Research Library online journal, *Der Chemica Sinica*, 2013, 4(5):17-20, 0976-8505
- ❖ ^{119}Sn MÖSSBAUER SPECTROSCOPIC STUDIES OF TRIMETHYL TIN SUBSTITUTED IRON COMPOUND, R.B.Lanjewar and M.R. Lanjewar,



- International Journal of Researches in Biosciences, Agriculture & Technology September 2013 Issue-1, Volume-1, 140-147, ISSN No. (Online): 2347-517X.
- ❖ Synthesis and Characterization of Magnetite -polyaniline Nanocomposite, A.K.Barve, S.M.Gadegone, M. R. Lanjewar and R.B.Lanjewar, J. of Science Information 9(2014) 51, ISSN : 2229-5836,
 - ❖ Synthesis and Characterization of CdO Nanomaterial and their Photocatalytic Activity, A.K.Barve, S.M.Gadegone, M.R. Lanjewar and R.B.Lanjewar, International Journal on Recent and Innovation Trends in Computing and Communication Volume: 2 Issue: 9 (2014) 2806 – 2810.ISSN: 2321-8169; 5.837.
 - ❖ Ultrasonic Studies of Intermolecular Interactions of Dextrose and Fructose in Alcoholic Medium at Three Different Temperatures, S.A.Shah, R.B.Lanjewar, Sunita M. Gadegone, International Journal of Science and Research (IJSR) (2013):pp282-285, www.ijsr.net, ISSN (Online): 2319-7064, 4.438
 - ❖ Study of Acoustical and Thermodynamic Properties of Aqueous Solution of NaI at Different Temperatures Vandana A. Giratkar , R.B.Lanjewar, International Journal of Science and Research (IJSR) (2013):pp350-352, www.ijsr.net ISSN (Online): 2319-7064, 4.438.
 - ❖ Thermodynamic parameters and ultrasonic studies of intermolecular interactions in some carbohydrates (Dextrose, Fructose and Inositol) at 298.15K . S. A. Shah, R. B. Lanjewar, Sunita M. Gadegone, Scholar Research Library, Der Pharmacia Letters, 2014, 6(3) pp236-241; 0975-5071.
 - ❖ SYNTHESIS AND CHARACTERIZATION OF MAGNETITE-POLYANILINE USING CHEMICAL PRECIPITATION METHOD; A.K.Barve, S.M.Gadegone, M.R.Lanjewar and R.B. Lanjewar, International Journal of Research in Biosciences, Agriculture and Technology Vol. 1. Issue 1 (2014) p. 58-65; 2347-517X.
 - ❖ QUALITY ASSESMENT OF WATER: A CASE STUDY OF TUMSAR AREA IN BHANDARA DISRICT; A. R. Bhusaria, M. R. Lanjewarb and R. B. Lanjewar, International Journal of Research in Biosciences, Agriculture and Technology Vol. 1. Issue 1 (2014) p. 118-125;2347-517X.
 - ❖ ULTRASONIC STUDIES OF INTERMOLECULAR INTERACTIONS IN SOME CARBOHYDRATES; (DEXTROSE, FRUCTOSE AND INOSITOL) AT 398.15 K. S. A. Shah, S. M. Gadegone and R. B. Lanjewar, International Journal of Research in Biosciences, Agriculture and Technology Vol. 1. Issue 1 (2014) p. 965-973; 2347-517X.
 - ❖ DEGRADATION OF AZO DYE CONGO RED USING $\text{Ni}_{0.6}\text{Co}_{0.4}\text{Fe}_2\text{O}_4$ AS PHOTOCATALYST; S. Narde, S. Gadegone M. R. Lanjewar and R. B. Lanjewar, International Journal of Research in Biosciences, Agriculture and Technology Vol. 1. Issue 1 (2014) p. 795-804; 2347-517X
 - ❖ Education & Skill Development in women Teacher; ICWEG 2014, ISBN 978-81-922229-3-6, 17-18th Jan. 2014, 291-296; ISBN 978-81-922229-3-6.
 - ❖ Published a paper entitled GC- MS, FT-IR and NMR Spectroscopy Analysis for Metabolome Profiling of Thyme Oil in *Asian J. Research Chem.* 6 (10): October 2013. ISSN 0974-4169 Citation Index 01.



- ❖ Published a paper entitled, “Antibiotic vulnerability Response of Avian Pathogenic *E.coli* Serotypes from small and large Poultry farms of Nagpur”, in *The Indian J. of Field Veterinarians*. April-June 2013/ Vol. 8 (4); 26-28; ISSN 0973-3175 Citation Index 01.
- ❖ Published a paper entitled “Comparative phytochemical Analysis and Resilience Pattern Exhibited by thyme and tea tree oil against Selected Poultry Isolates” in *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)*, Volume 4, Issue 4 (Jul. - Aug. 2013), PP 113-117. e-ISSN: 2319-2380, p-ISSN: 2319-2372 (IMPACT FACTOR 3.26).
- ❖ Published a paper entitled “Systematic characterization of metabolomes of *Thymus vulgaris* and augmenting its antimicrobial potential against APEC, a common poultry pathogen”, in *Asiatic Journal of Biotechnology Resources MDIMCE* - Volume 4; Issue 3, Jan-2014. ISSN 2249-2399.
- ❖ Published a paper entitled “Tea Tree oil induced ultramicroscopic changes in *Escherichia coli* Serotype O1” in *Asiatic Journal of Biotechnology Resources MDIMCE* - Volume 4; Issue 3, Jan-2014. ISSN 2249-2399.

➤ 2014-15

- ❖ Research paper entitled, “String Fluid Cosmological Model with Magnetic Field in Bimetric Theory of Gravitation” published in *AAM – An International Journal* 9(1), 246 (2014). (ISSN: 1932-9466, Impact Factor: 0.5).
- ❖ Design and development of Intelligent driver for the electroluminescence device” Vol. 44(2), June 2014, 113 published in *Journal of the instrument society of India*. Peer reviewed Journal (ISSN No. 0970-9983)
- ❖ “Low Cost Microcontroller Based Decay Measurement System for Display Phosphors” 2014, Vol. 2, No. 6, 180-184 published in *American Journal of Electrical and Electronic Engineering*. Peer reviewed Journal (Impact factor – 1.8)
- ❖ “Synthesis and photoluminescence studies of $\text{Ba}(\text{Gd,Ln})\text{B}_9\text{O}_{16}:\text{Eu}_{3+}$ (Ln=La,Y) phosphors for n-UV LED lighting and display devices” Vol. 33, No. 2, Feb. 2015, P. 140 published in *JOURNAL OF RARE EARTHS*. Peer reviewed Journal (Impact factor – 1.26)
- ❖ “Photoluminescence properties of $\text{YAl}_3(\text{BO}_3)_4:\text{RE}^{3+}$ (RE=Ce/Dy/Tb) phosphors. 361 (2015) 195-213 published in *Defect and Diffusion, Forum Trans Tech Publications*, Switzerland. Peer reviewed Journal (ISSN No.13:978-3-03835)
- ❖ Synthesis and photoluminescence characteristics of (Y, Gd) $\text{BO}_3:\text{RE}(\text{RE}=\text{Eu}^{3+}, \text{Ce}^{3+}, \text{Dy}^{3+}\text{ and } \text{Tb}^{3+})$ phosphors for blue chip and near-UV white LEDs.(2016) *Journal of Biological and chemical luminescence*. 31 (2), 600608. Peer reviewed Journal (Impact factor – 1.51)
- ❖ “Wireless GPRS based patient monitoring system with logging on data base server” published in CSIR sponsored National Conference on “ Biomedical instrumentation related computerized hardware and soft ware organized by Kamla Nehru Mahavidyalaya, Nagpur on 4th February 2017.(ISBN No.978-93-81432-56-3)



- ❖ ‘Electromagnetic radiation assessment of Dharampeth M.P.Deo Memorial Science College Nagpur : A Report’, RTM Nagpur University Science Journal Vol. – XIII 2015.
- ❖ Heavy Metals Contamination of Ground Water in and Around Gadchandur Area in Chandrapur District, Maharashtra, RAJU PIDURKAR, M. R. LANJEWAR AND R B LANJEWAR , International Journal of Chemical and Physical Sciences, IJCPS Vol. 4 p 424-431, Special Issue – NCSC Jan-2015 www.ijcps.org; ISSN: 2319-6602; 1.815.
- ❖ Quality assessment of borewell water: A case study of Gadchandur area in Chandrapur district Pidurkar RS*, Lanjewar MR and Lanjewar R.B., Int. J. of Life Sciences, 2014, Special Issue A2 p. 178-181, | October 2014; ISSN: 2320-7817 | eISSN: 2320-964X.
- ❖ Effect of Anionic Size (Cl⁻ and I⁻) on Ultrasonic Studies of Aqueous Solutions of NaCl and NaI at Different Temperatures, Vandana A. Giratkar, R. B. Lanjewar and S. A. Shah, Journal of Pure Applied and Industrial Physics, 2014, Vol.4(3): Pg.127-132. I0976-5727 (Print) 2319-8133 (Online); 2.07.
- ❖ A Validated High-Performance Thin-Layer Chromatographic Method for the Determination of Azathioprine from Pharmaceutical Formulation, Shardul Kulkarni*, Kailas Chitalkar, Neha Shinde, Prafullachandra Tekale, and Ratnakar Lanjewar, Journal of Planar Chromatography 27 (2014) 2, 120–123, ISSN No. 0933-4173. ISSN No. 0933-4173. 0.955.
- ❖ Synthesis and Characterization of Nickel Oxide based Nanocomposite Material, A.K.Barve, S.M.Gadegone, M.R. Lanjewar and R.B. Lanjewar, International Journal of Engineering Research and Applications (IJERA) Vol.1 (2014) p 06-08; ISSN 2248-9622; 1.69.
- ❖ Thermogravimetric and Optical Studies of ZnO-PANI Nanocomposite material, A.K.Barve, S.M.Gadegone, M.R. Lanjewar and R.B.Lanjewar, Kamla Nehru Journal of Science and Technology, Vol.1,2015, pp. 14-17; ISBN 978-93- 81432-97-6
- ❖ Enzyme activities and Microbial Dynamics during the rapid composting of Municipal solid waste Page no. 366- 371; International Journal of Research in Biosciences, Agriculture & Technology; ISSN No. Online 2347-517X; Feb 2015 special issue – 1; 0.36.
- ❖ Impact of Textile industry effluents on surface water quality page no. 193-198; International Journal of Research in Biosciences, Agriculture & Technology; ISSN No. Online 2347-517X; Feb 2015 special issue – 1; 0.36.
- ❖ Assessment of Physico-chemical parameters of well water; Page no. 84-89; International Journal of Research in Biosciences, Agriculture & Technology; ISSN No. Online 2347-517X; Feb 2015 special issue – 1; 0.36
- ❖ Analysis of Ground water of Hinganghat region using physicochemical parameter; International Journal of Research in Biosciences, Agriculture & Technology; ISSN No. Online 2347-517X; Feb 2015 special issue – 1.
- ❖ “Biotransformation of Flavonoid Naringin, Optimisation of various Fermentation Parameters; International Journal of Researches in Biosciences, Agriculture &



Technology ISSN No (online) 2347.417X, 20th Dec2014, 569-578; ISSN No (online) 2347.417X.

- ❖ Archana Kulkarni, Seema Nimbarte, Published a paper entitled “Phytochemical Screening and Bactericidal Effect of Some Plant Oils of Family Apiaceae, Lamiaceae and Myrtaceae, against APEC, a Microbe of Zoonotic Importance” in *International Journal of Researches in Biosciences Agriculture and Technology*. May 2014, Issue 2, Vol. II, ISSN (online) 2347-517X (COSMOS impact factor 5.060).
- ❖ Archana Kulkarni, Seema Nimbarte, Vijay Charde, Published a paper entitled “Phytochemical prospection of fennel oil using GC- MS, FT-IR and NMR spectroscopy” in the Proceeding of UGC Sponsored National Conference On RECENT DEVELOPMENT IN MATERIAL SCIENCE AND TECHNOLOGY, held on 11th October 2014. ISBN 978-81-926487-3-6, Pp 70 -75.
- ❖ Archana Kulkarni, Seema Nimbarte, Nasreen Jan, Published a paper entitled Comparative “Bactericidal Efficacy of Some Plant Essential Oils against Uropathogenic MDR *E.coli* in *International Journal of Researches in Biosciences Agriculture and Technology*. December 2014, Special Issue, ISSN (online) 2347-517X (COSMOS impact factor 5.060)

➤ 2015-16

- ❖ Paper published in Research Journal of English Language and Literature (RJELAL) International Journal Vol.4.Issue 2.2016 (Apr-Jun). A Peer Reviewed (Refereed) Impact Factor -4.26 ISSN Number 2395-2636(Print):2312-3108(Online). The title of paper is A Psychoanalytical Construal of Samuel Beckett’s Dramatic Creations: A Review.
- ❖ Paper published in Peer reviewed National Level Journal ‘Sanshodhan’ ISSN . 2249-8567. The title of paper was ‘Arousal and learning of language through ‘Edmodo’.
- ❖ “Extending Habitat of an Exotic Aquatic Weed *Alternanthera philoxeroides* (Mart.) Griseb. in Maharashtra, India” in *International Journal of Researches in Biosciences, Agriculture and Technology*, Special issue (6), October 2015, p.n. 117-119; ISSN 2347-517X.
- ❖ Towards Gender Equity in Physics in India: Initiatives, Investigations and Questions, P. Shastri, A. Kurup, L.Resmi, R. Ramaswamy, S. Ubale, S. Bagchi, S. Rao, S. Narsinhan, AIP Conf. Proc.1697, 060022-1-0600022-3;doi:10.1063/1.4937669.
- ❖ A Study of Status Of Women in Physics in Nagpur, Sridevi Darisi, Seema Ubale, AIP Conf. Proc.1697, 120005-1-12000-3;doi:10.1063/1.4937710.

➤ 2016-17

- ❖ Research paper entitled , “Non-Inflationary Bianchi Type VI₀ Model in Rosen’s Bimetric Gravity”, *Int. J. AAM*, Vol. 11(2), 815 (2016), Texas, USA. (ISSN: 1932-9466, Impact Factor: 0.5)



- ❖ Published a paper in National Level Peer Reviewed Journal “Sanshodhan” ISSN Number -2249-8567. The topic of the paper is “Samuel Beckett’s drama “Krapp’s Last Tape”: A Jungian Interpretation”.
- ❖ Published a paper in National Conference Souvenir on “Significance of Teaching Learning and Evaluation in an Interdisciplinary Scenario” on 7th January 2017 organised by Rajkumar Kewalramani Kanya Mahavidyalaya, Nagpur. The topic of the paper is “Integrating Graham Walla’s Theory of Creativity in Teaching English Language: An Inventive approach.
- ❖ To prepare Silica Soda Borate Glass from Biomass Ash and study its Optical Properties , Shraddha Bansod, Seema Ubale, International Journal of Engineering Research and Technology(IJERT) ISSN:2278-0181, vol 6, 3 March-2017.
- ❖ Ultrasonic investigation of molecular interaction of L-Valine in mixed aqueous systems at different temperatures, V.A. Giratkar, R.B. Lanjewar and S. M. Gadegone; *Int. J. Chem. Pharm. Sci.*, 2016, 4(9): 498-501.
- ❖ Thermodynamic Study of Glycine Molecule in aqueous solution of NaI using Ultrasonic Technique, V.A. Giratkar, R.B. Lanjewar and S. M. Gadegone, International Journal of Applied Biology and Pharmaceutical Technology, Vol.7(3), 2016, 169-172,.ISSN: 0976-4550.
- ❖ Isolation, Histopathological Investigation and Antibioqram Study of E.Coli Serogroups in Broilers Vol.6 Page No. 1-4 Sanshodhan National level Peer Reviewed Annual Research Journal ISSN No 2249-8567.
- ❖ Potential Impact of QAC’s on antibiotic resistant hospital acquired pathogens.; Vol.6 Page No. 11-13 Sanshodhan National level Peer Reviewed Annual Research Journal ISSN No. 2249-8567

**Annexure: 3.4.3b****LIST OF BOOKS PUBLISHED**

- Dr. A. V. Peshwe published a text book: Step Up III Foundation Course in Published by Cambridge University Press; ISBN 978-93-82993-31-5
- Dr. Mrs. Kulkarni published a book, Quality Assurance in Higher Education: Issues and Concerns. Editor of A book on NAAC workshop proceedings ISBN. 978-93-80287-80-5.
- Dr. Mrs. Kulkarni published a book, Research Methodology in Science: An overview,(Page Nos.16-29) a chapter published in a book titled Research Methodology. ISBN.978-81-922229-2-9.
- Dr. Mrs. Kulkarni published a book, A Pedagogy of social responsibility: An overview, an article published in a book titled Quality Assurance in Higher Education: Issues and Concerns. ISBN.978-93-80287-80-5. (Page no.s 61-63).
- Dr. P. T. Humane published a book, “Angiosperm Taxonomy” for undergraduate students (B. Sc. Semester-III, Paper-I), published by *G. C. Publishers*, Ganeshnagar, Nagpur; July, 2014; ISBN 978-93-82962-34-2.
- Dr. P. T. Humane published a book, “**BOTANY**”: Cell Biology, Plant Breeding and Evolution for undergraduate students (B. Sc. Semester-III, Paper-I), published by **Central Techno Publications**, New Ramdaspath, Nagpur; July, 2015; ISBN 978-81-89178-64-2.
- Dr. L. Khobragade published a Text book of Mathematics for B. Sc. Semester –I, Himalaya Publications, Nagpur, ISBN: 978-93-5142-698-1
- Dr. L. Khobragade published a Text book of Mathematics for B. Sc. Semester –II, Himalaya Publications, Nagpur, ISBN: 978-93-5142-253-2
- Dr. L. Khobragade published a Text book of Mathematics for B. Sc. Semester –III, Himalaya Publications, Nagpur, ISBN: 978-93-5142-825-1
- Dr. L. Khobragade published a Text book of Mathematics for B. Sc. Semester –IV, Himalaya Publications, Nagpur, ISBN: 978-93-5202-397-4
- Dr. L. Khobragade published a Text book of Mathematics for B. Sc. Semester –V, Himalaya Publications, Nagpur, ISBN: 978-93-5202-778-1
- Dr. L. Khobragade published a Text book of Mathematics for B. Sc. Semester –VI, Himalaya Publications, Nagpur, ISBN:
- Dr. R. B. Lanjewar published a text book of Chemistry: Semester-II, GC Publishers, Nagpur, ISBN: 978-93-82962-30-4
- Dr. R. B. Lanjewar published a text book of Chemistry: Semester-I, Rajni Prakashan & Book Distributors, Nagpur, ISBN: 978-93-83619-53-5
- Dr. V. P. Meshram published a text book of Chemistry: Semester-IV, Himalaya Publication House, ISBN: 987-93-5202-424-7
- Dr. V. P. Meshram published a text book of Chemistry: Semester-III, Central Techno Publications, ISBN: 818-91-7866-0
- Dr. Mrs. S. K. Ubale published a book on Physics Gravitation, Astrophysics, Magnetism and Magneto Statistic for B. Sc. Semester-II, Central Techno Publication, ISBN: 978-93-81432-75-4
- Dr. P. R. Shende published a text book of Physics, Seth Publications, Nagpur, ISBN: 978-93-5149-296-2



- Dr. K. S. Moon published a book Experiments in Physics, Sai Jyoti Publication, Nagpur, ISBN: 978-93-81432-75-4
- Dr. K. S. Moon published a book Experiments in Physics, Sai Jyoti Publication, Nagpur, ISBN: 978-93-81432-73-0
- Dr. D. B. Jadhav published a book Synthetic Neucleotides, Dattsons Publications, ISBN: 811-7192-078-4

**Annexure: 3.7.4****GUEST LECTURES ORGANIZED BY THE DEPARTMENTS**

YEAR	DATE	DEPARTMEN T	NAME OF SPEAKER	TOPIC OF LECTURE
2012-2013	14 September 2012	CHEMISTRY	Dr. Abhay Patwardhan, Scientist Fat Atomic Mineral Division, Nagpur	'Life of Dr. Homi J. Bhabha and Indian Atomic energy programme'
2012-2013	04 September 2012	ZOOLOGY	Dr. A.S. Mohite, HOD, Dept. of Zoology	'Protein Synthesis'
2012-2013	13 September 2012	MICROBIOLO GY	Dr.C.D.Mayee, former Vice- Chancellor of Parbhanith University and Ex-Director of CICR, Nagpur	"Nuances Of Biosciences"
2012-2013	15 January 2013	ELECTRONIC S	Mrs. Sengupta, Associate Scientist, Maharashtra Remote Sensing Satellite application Centre	"Remote Sensing Satellite Development in India & its applications".
2012-2013	5 October 2012by	PHYSICS	Dr. G. G. Sahasrabuddhe, Prof. Department of Applied Physics, Ramdeobaba Kamla Nehru College of Engineering	'The Physics of the GOD Particle: The Higgs Boson'.
YEAR	DATE	DEPARTMEN T	NAME OF SPEAKER	TOPIC OF LECTURE
2012-2013	4 October, 2012	STATISTICS	Mrs. Shalini Bhoyar, Deputy Director General, NSSO (FOD), Ministry of Statistics & Planning,	'Indian Statistical System'



			Nagpur	
2012-2013	6th September 2013	MATHEMATICS	Prof. Vivek Wagh	Recent Trends in Mathematics
2012-2013	29 September 2012	COMPUTER SCIENCE	Prof. Nitin Goje, Asst Prof. & Academic Co-ordinator at M.C.A. Dept, ITM. Institute of Management & Research, Kamptee.	
2012 - 2013	16 January, 2013	ENGLISH	Dr. Mrs. Manjushree Sardeshpande, Assistant Professor, Department of English, R.S.Mundle Dharampeth Arts and Commerce College, Nagpur	“Transformative Grammar”
2013-14	3 rd September 2013	MICROBIOLOGY	Dr.Reeta Isarani Sr, Scientist CSIR, AGMARK	Food Safety
YEAR	DATE	DEPARTMENT	NAME OF SPEAKER	TOPIC OF LECTURE
2013-14	19 th October, 2013	MICROBIOLOGY	Mrs. Pratibha Puranik Electrical Engineer, Pune	Role of ‘Spiritual values in students life’



2013-14	25 th September 2013	CHEMISTRY	Dr. D. S. S. Ganguly, I. O. F. S. (RTD)	Domestic waste treatment and Management which was followed by interactive session with the students.
	1 st October 2013		Mr. D. D. Sarkar, Chemical Eng., C. E. T. P.	
	4 th January 2014		Prof. Dilip Yardi, (Rtd) Env. Science Deptt from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	‘Wild Life and Protection Act’
2013-14	24 September 2013	PHYSICS	Dr. K.G. Rewatkar, Associate Professor, Dr. Ambedkar College, Nagpur	“Basics of Nano Science and Nano Technology.”



YEAR	DATE	DEPARTMENT	NAME OF SPEAKER	TOPIC OF LECTURE
	13 January 2014		Dr Ms J B Randhawa, Head, Department of Applied Physics, Government Engineering College, Amaravati	‘Basics of Impedance Analysis’
	27 September, 2013	ELCELECTRONICS	Prof. Dr. V.B. Hirulkar	“Advances in semiconductor Electronics”
2013-14		STATISTICS	Dr. Shriram Jyotishi, Associate Professor, Shri Ayurved College, and Nagpur	‘Applications of Statistics in Medical Sciences’
2014-15	5 th Oct. 2014	CHEMISTRY	Dr. S. S. Umare	“Chemistry for Mankind”.
	27 th March 2015		Dr. Vijay Tangde	‘ Hadronic chemistry and its application’
2014-15	20th September 2014	PHYSICS	Shri E.Z.Khobragade , Ex.IAS Officer Govt.of India	“ Career Opportunities in State/Civil Services for Science Graduates " .



YEAR	DATE	DEPARTMENT	NAME OF SPEAKER	TOPIC OF LECTURE
18 th October 2014			Dr. S.J. Dhoble Associate Professor, PGTD, Nagpur	"Importance of LED's in New Generation Lighting "
2014-15	13 th September 2014	HOMESCIENCE	social workers from 'Snehanchal'	
2014-15	22 nd September 15	MICROBIOLOGY	Dr.Aarti Saoji on Ex-Director Institute of Science, Nagpur	'Global Warming'
2015-16	22 nd September 2015	CHEMISTRY	Dr .N.K.Tiwari, former Scientist ISRO Bangalore.	
	12 th April 2016	CHEMISTRY	Dr. Hemant Jahagirdar	Structure and Bonding in (NPCl ₂) ₃ and (NPCl ₂) ₄
			Dr. K.P.Kariya	Selection Rule and Hole formalism
			Dr. N.M.Karde	NMR Spectroscopy
	23 rd September 2015.	The "SCIENCE FORUM "2015-16", a joint venture	Prof. P. R. Shende	Basics of Quantum Physics.

YEAR	DATE	DEPARTMENT	NAME OF SPEAKER	TOPIC OF LECTURE
2015-16	16 th July 2015	Microbiology	Dr. Atul Kulkarni, Rutgers Research Institute New Jersy, USA	
015-16	19 th August 2015	Microbiology	Dr. A . M. Deshmukh Head Dept. of Microbiology Marathwada University, Aurangabad	
015-16	12 th Sept.	Microbiology	Dr. Manoj Bhandarkar	



	2015		Deputy Director, Central Forensic Research Laboratory, Nagpur.	
	8 th October 2015	ZOOLOGY	Prof. Rajendra Kshirsagar (MCVC Dept. of fishery Dharampeth m. P. Deo Memorial Science College, Nagpur	Fabrication and setting up of aquarium”
YEAR	DATE	DEPARTMENT	NAME OF SPEAKER	TOPIC OF LECTURE
2015-16	4 th March and 5 th March	Zoology	Dr. Rupali Deshpande	Bioinformatics and Biostatistics
2016-17	30 th August 2016	Microbiology	Dr. Archana Moon	Cancer : Cross talk tissues and Cells.
	18 th February 2017		Dr. Swati Peshwe Associate Professor, Institute of Science, Aurangabad	Monoclonal Antibodies and its Applications.
	23 rd August 2016	Science Forum	Dr. M.Y. Apte, Ex-HOD Physics, SFS College, Nagpur	‘Gravitational Waves’
	12 th September 2016	Chemistry	Dr. Anu Naik	Opportunity of Research in Germany and Beyond
	3 rd March 2017	Zoology	Dr.Mrs. Vaishali Deshpande	Bioinformatics
	3 rd March 2017	Computer Science	Mr Anil Tatode	Robotics
	1 st March 2017		Mr. Ganesh Tanksale	Choose Right Career after Graduation
	19 th September, 2017.	English	Mr.Shreesh Shukla, Founder, EssDee and Partner at Raj Scientific	Time Management and Goal Setting

