

GOVT. NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE

College with Potential For Excellence



An Autonomous College Affiliated To
Pt. Ravishankar Shukla University
Raipur (Chhattisgarh)

REACCREDITATION - CYCLE II
(RAR)



SELF STUDY REPORT

Submitted To
National Assessment and Accreditation Council
Bengaluru (Karnataka) 560072

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BY
GOVT. NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE
RAIPUR (CHHATTISGARH)

INDEX

S.NO.	TOPICS	PAGE NUMBER
A.	PREFACE	4-5
B.	EXECUTIVE SUMMARY – WITH SWOC ANALYSIS	6-13
C.	POST ACCREDITATION INITIATIVES	14-15
D.	PROFILE OF THE COLLEGE	16-24
E.	CRITERIA WISE ANALYTICAL REPORT	
	CRITERION – I CURRICULAR ASPECTS	
	1.1 Curriculum Design and Development	25-28
	1.2 Academic Flexibility	28-32
	1.3 Curriculum Enrichment	32-34
	1.4 Feedback System	34-35
	CRITERION – II TEACHING – LEARNING AND EVALUATION	
	2.1 Student Enrolment and profile	35-43
	2.2 Catering to Student Diversity	43-46
	2.3 Teaching Learning Process	46-52
	2.4 Teacher Quality	52-57
	2.5 Evaluation Process and Reform	57-61
	2.6 Student Performance and Learning Outcome	61-68
	CRITERION - III RESEARCH CONSULTANCY AND EXTENSION	
	3.1 Promotion of Research	68-79
	3.2 Resource Mobilization for Research	79-82
	3.3 Research Facilities	83
	3.4 Research Publications and Awards	84-90
	3.5 Consultancy	90
	3.6 Extension activities and institutional social responsibility (ISR)	90-95
	3.7 Collaboration	96-97
	CRITERION - IV INFRASTRUCTURE AND LEARNING RESOURCES	
	4.1 Physical Facilities	97-100
	4.2 Library as a Learning Resource	100-109
	4.3 IT Infrastructure	109-111
	4.4 Maintenance of Campus Facilities	111-113

	CRITERION - V STUDENT SUPPORT AND PROGRESSION	
	5.1 Student Mentoring and Support	113-126
	5.2 Student Progression	127-132
	5.3 Student Participation and Activities	132-144
	CRITERION - VI GOVERNANCE, LEADERSHIP AND MANAGEMENT	
	6.1 Institutional Vision and Leadership	144-152
	6.2 Strategy Development and Deployment	153-157
	6.3 Faculty Empowerment Strategies	157-159
	6.4 Financial Management and Resource Mobilization	159-161
	6.5 Internal Quality Assurance System	161-162
	CRITERION - VII INNOVATION AND BEST PRACTICES	
	7.1 Environment Consciousness	162-164
	7.2 Innovations	165-166
	7.3 Best Practices	166-173
F.	EVALUATIVE REPORT OF THE DEPARTMENTS	174-272
G.	STEERING COMMITTEE	273
H.	DECLARATION BY THE HEAD OF THE INSTITUTION	274
I.	ANNEXURES	275-296
	<ul style="list-style-type: none"> i) Certificate of 2(f) and 12 (B) ii) College with Potential for Excellence iii) Autonomy Extension (2007 and 2013) iv) Peer Team Report v) NAAC Certificate vi) Change in the Name of College vii) University Affiliation 	

**GOVERNMENT NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE,
RAIPUR (CHHATTISGARH)**

AN AUTONOMOUS COLLEGE AFFILIATED TO

Pt. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (CHHATTISGARH)

SELF STUDY REPORT

PREFACE

The Government College of Science, Raipur, was renamed Government Nagarjuna Post Graduate College of Science in 2005-06. It is a prestigious institution of Science. It was established in 1948, a time when the nation was gripped with nationalistic fervour and idealistic zeal. The College was set up in Raipur so that the untapped resources of this virgin land could be explored and add to the physical and intellectual well-being of the region, and by extension to that of the nation and the world. The motto of the College is “*Yogaha Karmasu Kaushalam*”, lines uttered by Lord Krishna to Arjuna in the *Gita*. *Karma*, or action in the right direction, in a proper skillful manner, is yoga.

The College was formally inaugurated by honourable Pt. Ravishankar Shukla on 2nd August, 1948. Initially the College was opened with only 07 subjects, in the Government Multipurpose Higher Secondary School, Chhotapara, with its office in the building, near the museum. The present College building was inaugurated by Pt. Ravishankar Shukla, the first Chief Minister of Madhya Pradesh on 18th July, 1954. The College was affiliated to Dr. Hari Singh Gaur University, Sagar from 1951 to 1963. Since 1964 it is affiliated to the Pt. Ravishankar Shukla University, Raipur. The UGC accorded it recognition under section 2 (f) and 12 (B) in 1964. The six Post Graduate programmes those started in 1956 were in Physics, Chemistry, Mathematics, Botany, Zoology and Geology. The Post Graduate programmes in English, Hindi, Economics and History, started in 1961, were discontinued in 1975. At present the College is an exclusively single faculty Science College. It attained the status of Model College in 1984, Autonomous status in 1987, and the status of college with Potential for Excellence, was conferred by UGC in 2010. It has been designated as a Lead College of the Raipur District.

The College is an academic, research oriented centre of excellence in the sciences, with a glorious past, a dynamic present and a brilliant future. It is situated in academic ambience, next to the University. It is the most sought after College for the study of Science. At present the College has 14 departments and 07 Research Centres. The College has 02 programmes at the UG level, B.Sc. and BCA. It offers 15 subject combinations at the UG level, PG in 08 subjects, and 03 vocational courses. The student strength is 1747 at UG level and 298 at PG level, and 87 in Vocational courses. At present there are 59 regular faculty members (18 Promoted Professors, 41 Assistant Professors), 13 Guest Faculty, 07 teachers from Janbhagidari Samiti, against the sanctioned posts of 82. Out of the total faculty members, 48 are Ph.D's. There are 04 gazetted non teaching staff which include Registrar, Librarian, two

Sports Officers and one Physician. It has 97 non teaching staff, of which 32 are technical and 65 non technical against a total of 137 sanctioned posts.

The College has a green sprawling campus of 83.25 acres, a grand main building, many play grounds, hostels and residences. Few area of campus is handed over to Sports department. It has 38 classrooms, 14 departments, 30 laboratories, a Central Instrumentation Laboratory, Museums in Geology, Zoology, Botany, Defence Studies, Botanical Garden and a workshop. It also has 03 boys' hostels and 02 girls' hostels, a dispensary, a Principal's bungalow and residences for Faculty and support staff.

The College which is a premier institution of the state of Chhattisgarh strives to provide a balanced holistic education to students. It has set a benchmark by providing education of very high academic standard. It has produced distinguished alumni who have carved niches for themselves in not only the region, but also the nation. The College adheres to its expansive vision and blending it with the ever changing contemporary world scenario, it remoulds itself to cater to the needs of the students in this modern era.

The College is moving towards Reaccreditation by NAAC. This Self Study Report is in the structure designed by NAAC, and comprises A) Preface B) Executive Summary-The SWOC Analysis C) Profile of the Institution and D)Criterion Wise Analytical report E) Evaluative Report of the Departments

NAAC has set high standards, and it is a motivating and propelling force for Colleges. It inspires insight, introspection and innovation for scaling great heights in the field of higher education in this highly mobile challenging competitive global scenario.

The College awaits a quick response and is preparing itself for the Peer Team visit.

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SELF STUDY REPORT

EXECUTIVE SUMMARY

CRITERION - I: CURRICULAR ASPECTS

The College is a Government College, and functions under the Higher Education Department, and is affiliated to the Pt. Ravishankar Shukla University, Raipur. It is a single faculty College offering a wide range of Science subjects at both UG and PG level.

The College offers 15 subject combinations at UG level, 08 PG courses, 03 Vocational courses, and 01 add-on course. The self financed courses are in Microbiology, Biotechnology, Biochemistry, Information Technology and Computer Science. The Board of Studies and Academic Council approve and finalise the syllabus. The College follows a system of annual review of its curriculum, where it has 10 % freedom in designing the syllabus at PG level, and adopts the UG syllabus of the University entirely. The College caters to the need of the students and includes courses that raise employability. It offers computer based Vocational courses, which are self financed. Inter disciplinary research areas are explored in different subjects. A Central Instrumentation Laboratory and a well equipped automated Library facilitate study and research.

The College follows an Annual system of evaluation at UG level, and Semester system at PG level, where there is 20% internal assessment in the form of assignments/ seminars. Symposia, workshops and seminars are organized regularly for the upgradation of both faculty members and students.

Holistic education is the need of the hour. The College has active units of NCC/ NSS/ Youth Red Cross/ Red Ribbon and various subject societies. Environment Science is a compulsory subject at the UG level.

The College collects feedback from students from time to time and tries to look into the major issues. The suggestions of members from alumni, industry, and university are gathered at the Board of Studies and Academic Council meetings

CRITERION - II: TEACHING- LEARNING AND EVALUATION

The College follows a very transparent student enrolment process. All the important informations related to admission are in the Prospectus, on the website, on the notice boards,

and in the local newspapers. The admission is done entirely on the basis of merit at UG level, and central counseling at the PG level. The reservation policy of the government for SC/ ST/ OBC/ Physically Challenged/Women/ Achievers in Sports and Extracurricular activities, is followed strictly.

The College offers a well organized system for the all round development of students coming from diverse fields. Induction programmes at the beginning of each session help students to learn about the infrastructural facilities, the objectives, and the traditions of the College. The College has a set up to cater to the diversity of students. Remedial Classes are conducted in the period before the commencement of classes every day to assist students from SC/ ST/ OBC/ slow learners. The College offers an Add-on course on Environment Impact Assessment. The Autonomous Cell maintains a complete record of academic progress of students. The needs of the differently abled are fulfilled with compassion. Advanced learners are motivated and inspired to achieve higher goals and shoulder important responsibilities in student activities.

The College has a meticulously planned system so that the teaching learning process moves on oiled wheels. The College follows an academic calendar which has the examination schedule, vacations/ semester breaks, dates of important curricular and extracurricular activities of the College. Teaching plans, syllabus and evaluation process are explained to the students by the faculty members. Faculty members maintain a daily diary, and use the traditional lecture, and talk & chalk method in most subjects. LCD, OHP, e-classroom, English Language Lab, well equipped science laboratories, and field trips further enhance the teaching learning process. The library, computers, internet facility and interactive classrooms emphasize a student centric system. A holistic education is imparted as students get valuable exposure to a number of extracurricular activities and sports.

The College is rich in human resources in the form of highly qualified, devoted teachers. It has a total number of 59 permanent faculty members and 18 Guest faculty. Out of 59 faculty members, 01 is a D.Litt., 45 are Ph.D.'s and 03 are M.Phils. 22 faculty members are registered Research Guides. 95% of faculty have completed Refresher/ Orientation programmes. 30 % of the faculty are regularly invited as resource persons for different academic meets and programmes, faculty members regularly attend and present papers in Conferences.

The College has an Autonomous Examination Cell which organizes the evaluation process through a system of efficient and meticulous planning, maintaining strict confidentiality. The College follows the Annual system at UG level and the Semester System, with 20% Internal Assessment (Seminars/ Assignments) at PG level. The Quarterly/ Half Yearly Examinations help to monitor the performance of students at UG level. The UG results are declared in one and a half months and the PG semester results in three to four weeks. All the results are reviewed before declaration, and analysed in depth to evaluate the performance of students. At the PhD level, University rules are followed for evaluation.

CRITERION – III: RESEARCH, CONSULTANCY AND EXTENSION

The College has set a benchmark in the field of research in Science as it has 07 Research Centres, and 22 Faculty members as Research Guides. Faculty members of English and Hindi are also actively involved in research. Interdisciplinary research has received critical acclaim.

The College has organized 16 Seminars, Workshops, Conference and Symposium which were graced by eminent scientists of national and international fame. Extension Lectures are organized regularly under the CPE scheme. The proceedings of workshops/ seminars are published and sent to the UGC.

Faculty members avail Study Leave to complete their projects. Duty Leave and TA/ DA are given to faculty to motivate research activities.

Funding agencies for research seminars are UGC, Chhattisgarh Council of Science and Technology, and Janbhagidari Samiti.

The College has 02 ICSSR Post Doctoral Research Fellowships and one ongoing research project. The college has completed 08 UGC projects in the past five years.

The College is the only one in the state to be given the honour of organizing the XIth Chhattisgarh Young Scientists' Congress in 2013. The Congress was inaugurated by Honourable Governor of Chhattisgarh, Shri Shekhar Dutt. 80 research papers had been received and 72 were presented in 15 disciplines. The best paper presenter in each discipline received a Cash award of Rs 11,000, a certificate and three months TA/DA to work in any research centre of national repute.

The College has a Network Resource Centre, Internet facilities for faculty and students, an e-classroom, a Central Instrumentation Laboratory, well equipped Science Laboratories, Tissue Culture Laboratory (under construction) and a well stocked automated Library to inspire and facilitate research. Hostel facilities are provided to scholars.

Many Faculty members of the College are regularly published in peer reviewed journals, and are actively involved in organizing seminars/ workshops. In the last five years 310 research papers were published. A number of Faculty members have books to their credit, and are editors on advisory editorial boards of research journals. *Botanical Essays*, a compilation of articles is published by the Department of Botany.

The extension activities of the College are monitored by the enthusiastic participation of students and faculty coordinators in NCC (Infantry/ Air Wing / Signal), NSS, Youth Red Cross, Red Ribbon Club, Science Club, Language Societies and Career guidance and Placement Cell. NSS Cadets have represented the state at New Delhi and participated in Republic Day Celebrations in 2012. NCC cadets are regularly selected for state youth programmes. AIDS Awareness, Pulse Polio, Blood Donation Camps, Tree Plantation Drives, Traffic Management, Village Visits, Health awareness lectures are a part of the NSS and YRC cadets. Interaction with neighbourhood schools and visits to rural areas builds a sense of commitment to the community and sensitizes the students.

Industrialists are members of Board of Studies and Academic Council and render suggestions for the betterment of students. Agriculture University and Medical College are institutions involved with the College in matters of research and development.

CRITERION - IV INFRASTRUCTURE AND LEARNING RESOURCES

The College has a green expansive campus of 83.25 acres. It is situated on the Great Eastern Road (National Highway 06), in the academic heart of the city. At present there are 38 classrooms, out of which 03 classrooms can accommodate 150 students. There are 32 laboratories. Plant Tissue Culture laboratory is under construction.

The front wing has the well furnished Principal's chamber, and an automated Office, Autonomous Examination Cell and the Library. The well automated Library has a seating capacity of 65, (central Library and all departmental Libraries) facilities of OPAC/ INFLIBNET/ Reprography and many other facilities. There are 14 Departments with Departmental Staff Rooms, Departmental Libraries, and separate areas marked out for the departmental offices. The e-classroom is connected to IIT, Kanpur, and is also used for Seminars. The College Auditorium has a seating capacity of 400. There are 02 Common rooms for girls. The Geology, Zoology, Botany, and Defence Departments have museums. The Botany Department maintains a Botanical Garden. The College has a Reading Room which are spaces for quiet contemplative study. There are gardens within the precincts of the main building and they add to the beauty and ambience. There is a Muktakash Manch for organizing cultural events and the Annual Day programme. The College has proper washrooms and facility for providing clean filtered drinking water.

The sprawling campus has a Principal's Bungalow, many Professor's residences and quarters for support staff. There are three Boys Hostels with a total capacity of 160. There are two Girls Hostels providing accommodation to 30 students. The on campus facility also includes a Canteen, a Dispensary, Bank (SBI) with ATM facility and a Post Office.

Sports are a very important component in any educational programme as it adds to the overall personality and character development of students. The College has courts for many games.

The enhancement of IT facilities has seen a quantum leap in the past four years in the form of establishing two separate departments: i) Information Technology and ii) Computer Science, and beginning new courses. Other IT facilities include an e-classroom and a Network Resource Centre. Complete automation of the office, departmental offices and the Library has facilitated smooth functioning. Departmental internet access to faculty and students helps in research activities. There are 143 computers in the College.

The maintenance of the infrastructure is done through the Public Works Department, facilitated by a committee. Each Department maintains their specific areas and laboratories through departmental funds. The College has its own workshop with smithies and carpenters who work round the year. The College has the requisite number of sub staff for maintaining the campus.

CRITERION - V: STUDENT SUPPORT AND PROGRESSION

The College is well endowed in providing the best of infrastructural and academic facilities to all its students. The College examination results, high demand ratio and well placed alumni are proof of the student support system. The website and College Prospectus provide all necessary important informations. The Government reservation policies are followed to provide support to the underprivileged.

The College has an English Language Laboratory which helps to increase the fluency in English. Students of the College have cleared NET/ SLET/ PSC/ SSC examinations. The College also has a Career Guidance and Placement Cell which has helped to place students in WIPRO, IBM, Vedanta, ICICI and media houses.

Sport is a forte of the College, and a number of students have won accolades at state and national levels. Cultural events are a part of the varied activities that students are involved in and they are able to perform well. The NCC, NSS, Youth Red Cross, Red Ribbon, and other societies are very active and under their banners, students have been able to carve niches for themselves at national levels. One girl NSS cadet was awarded by the Honourable President of India, and she has been nominated for International Youth Exchange Programme.

CRITERION - VI: GOVERNANCE AND LEADERSHIP

The vision of the College is to give a holistic education and prepare citizens who are committed to the nation, sensitive to the needs of the suffering humanity, and have moral uprightness and strength. Students should be equipped to face the global changes brought in by technology, and have a deep desire to excel. A sensitive awareness of local, national and global needs is a dire need today, and its onus lies on education.

This vision is pursued by the administrative set up of the College, and efficient governance through inspired leadership. The Principal, Head of Departments, the Controller , Autonomous Examination Cell, QAC and IQAC, and the Registrar work together with all the faculty members and support staff to ensure the smooth running of the College. The Governing Body, the Janbhagidari Samiti, Board of Studies, Academic Council, Staff Council and various committees function in unison. Representation from university, industry, alumni, parents, eminent citizens and senior staff members in different bodies ensures interaction with all the stakeholders.

The Registrar looks after the financial matters and general administration of the College

CRITERION - VII: INNOVATION AND BEST PRACTICES

The College is committed to the core values pursued by UGC- NAAC to enhance education and prepare students to face the challenges of the fast changing world. A sincere effort has been made by the College to follow and implement these core values: i) Contributing to national development, ii) Fostering global competencies among students, iii) Inculcating a value system among students, iv) Promoting the use of technology, and v) Quest for Excellence. The College is committed to Environment consciousness and this is reflected in

the compulsory paper on Environmental Studies. Reaching out to humanity is attained through the active NCC, NSS, YRC, Red Ribbon Society and other societies. Many innovative methods of teaching and evaluation have been incorporated into the system in the past four years: the increased use of technology and the internet; introduction of semester system; social activities; environmental consciousness; and others given in the detailed section.

The best practices of the College are Publication of Botanical Essays, Promotion of Scientific temper in rural and tribal areas and General Knowledge Club.

SWOC ANALYSIS

STRENGTHS-

- Faculty-The College is rich in permanent faculty with 75% members as Ph.D.'s, with average 25 years of teaching experience, research acumen, and absolute devotion to the profession.
- High Student Strength and a very low dropout rate
- Research activities of a high standard, in emerging, interdisciplinary areas of study are carried out in the College.
- Leading Science Institution of the region which has 12 science departments and research centre for 07 subjects.
- Well equipped, spacious, ventilated laboratories with a huge capacity
- College with Potential for Excellence status given by UGC in 2010.
- Infrastructure-The College has a sprawling green campus with well constructed buildings, residential facilities, sports grounds, Post Office and Dispensary. Residential facilities include a Principal Bungalow, Faculty residences, sub-staff quarters, and Hostels for Girls and boys.
- Library-The College has a well equipped rich automated library, with inter library loan facility/ INFLIBNET/Reprography/OPAC.
- Sports facilities – indoor and outdoor games; permanent Sports Officers.
- Defence Studies-The College has the only Defence Studies Department in Chhattisgarh.
- Support staff-a large number of dedicated class III and IV employees who work in harmony
- Location of the College – on the Great Eastern Road Kolkata- Mumbai National Highway Number 6, next to the university, centrally located.
- Academic Museums in Geology, Zoology, Botany, Defence Studies
- Botanical garden maintained by the Botany Department

WEAKNESSES

- Limited freedom in framing the curriculum
- Students come from remote tribal and rural areas
- Lack of classrooms with ICT facility
- Need of Seminar Halls
- In some departments, sanctioned posts are lying vacant
- No PG Courses and Research Centre in English / Hindi/ IT/ Microbiology/Biochemistry/ Computer Science/Computer Application

OPPORTUNITIES

- Research opportunities
- Opportunity to have lectures from eminent Professors
- Quality support from university
- Well connected by Rail/air ways to all educational/industrial cities

CHALLENGES

- To teach students from tribal/ rural areas
- Involvement of teachers as research guides in English and Hindi though there is no research centre in the College
- Maximum faculty members should be research guide
- To increase number of job oriented courses
- To attract MNCs/ Corporate Sectors for placement of students
- Maximum number of PG students should qualify NET/SET examination
- Try for more number of major/minor research projects

POST ACCREDITATION INITIATIVES

Action taken in keeping with the recommendations and suggestions of the peer team which visited the College in February 2004

Academics

- Semester system was implemented in 2006 at the PG level for continuous evaluation
- Internal assessment of 20% at PG level through seminars/ assignments
- Introduction of a system of unit/ quarterly/ half yearly examinations at the UG level
- Introduction of more subject combinations.
- New courses started: BCA, DCA, and PGDCA.
- Biochemistry at under graduate level.
- Remedial classes have been started at zero hour.
- New departments set up: Computer Science, Information Technology, Biotechnology, Biochemistry, Microbiology
- Recruitment of new faculty members in Biochemistry, Microbiology and Biotechnology
- Increase in student strength.
- IQAC was formed on 16.12.2008

Infrastructural Developments

- e-classroom connected with IIT, Kanpur has been set up
- Central Instrumentation Laboratory facilitates research
- English Language Laboratory to enhance English skills
- Network Resource Centre to help in access to web
- New laboratories : 08
- New classrooms :23
- Reading Room with a seating capacity of 65
- New Girls Hostel with a capacity of 30 students
- Sports facilities: new courts- basket ball and volley ball.
- Indoor Games room with TT/ Carrom / Chess and others
- College Canteen
- One new Girls' Common Room
- New gardens developed

Use of Technology

- Complete automation of office and departmental offices
- Automation of library
- Internet Access increased
- Network Resource Centre

- Computer facilities with LAN/wi-fi
- Increase in number of LCD/ Multimedia Kits/ Photocopier

Research Facilities and activities

- Number of research guides has increased.
- Increase in number of PhDs awarded and registered.
- Organization of XIth Chhattisgarh Young Scientists Congress
- An increase in number of seminars/ workshops organized in the College
- Publication of research papers/ articles/ books
- Renovation of Laboratories
- New Laboratories constructed

Other initiatives

- Setting up of a Career Guidance and Placement Cell
- Alumni Association with annual meetings and programmes
- Feedback System has been started
- Interlibrary Loan facility
- Youth Red Cross/ Red Ribbon Society have been set up
- Equal Opportunity Cell
- Baudhik Vikas Samitti
- Grievance Redressal cell
- Women Harassment Cell

Future Plans

- Examination reforms
- Introduce semester system at UG level
- Change Question Paper pattern at UG and PG levels
- At PG level, one semester Objective/ one online paper
- Adopt Grading system

SELF-STUDY REPORT
GOVERNMENT NAGARJUNA POST GRADUATE
COLLEGE OF SCIENCE, RAIPUR (CHHATTISGARH)

Profile of
Government Nagarjuna Postgraduate College of Science,
Raipur (Chhattisgarh)

1. Name and address of the College:

Name	Government Nagarjuna Postgraduate College of Science, Raipur (Chhattisgarh)		
Address	Opposite NIT, GE Road Raipur (Chhattisgarh)		
City:	Raipur	Pin: 492010	State: Chhattisgarh
Website:	www.gcsrcg.org		

2. For communication

Designation	Name	Telephone number with STD code	Mobile	Fax	Email
Principal	Dr. K.N. Bapat	O: 0771-2263131	09425207117	0771-2262838	Knbapat.1952@gmail.com principal.npgcsr@gmail.com
		R:			
Steering Committee Co-ordinator	Dr. Shipra Verma	O: 0771-2263131	9826674810		SHIPRAKASH25@gmail.com
		R:			

3. Status of the Autonomous College by management.

- i. Government
- ii. Private
- iii. Constituent College of the University

√

4. Name of the University to which the College is Affiliated:

Pt. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR, CHHATTISGARH

5. a. Date of establishment, prior to the grant of 'Autonomy'

02	08	1948
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b. Date of grant of 'Autonomy' to the College by UGC:

01	07	1987
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6. Type of institution :

a. By Gender

- i. For Men
- ii. For Women
- iii. Co-education

✓

b. By shift

- i. Regular
- ii. Day
- iii. Evening

✓

c. Source of funding

- i. Government
- ii. Grant-in-aid
- iii. Self-financing
- iv. Any other (please specify)

✓
UGC
✓
Janbha gidari samiti

7. Is it a recognized minority institution?

Yes		No	✓
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8. a. Details of UGC recognition:

Under Section	Date, Month and Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	01.07.1964	
ii. 12 (B)	01.07.1964	

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

Enclosed (Annexure – I)

9. Has the College been recognized

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

Yes	✓	No	
10	03	2010	

If yes, date of recognition:

Enclosed (Annexure II)

b. For its contribution/performance by any other governmental agency?

Yes		No	✓
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10. Location of the campus and area:

Location	Urban Area
Campus area in sq. mts or acres	83.25 Acres including sports complex
Built up area in sq. mts.	14756 sq. meters

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

11. Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement

• **Auditorium/seminar complex**

√

• **Sports facilities**

- i- Play ground
- ii- Swimming pool
- iii- Gymnasium

√

• **Hostel**

- i. Boys' Hostels
- ii. Girls' Hotels

√
√

• **Residential facilities**

- i. For teaching staff
- ii. For non-teaching staff

√
√

• **Cafeteria**

√

• **Health Centre**

- First aid facility
- Inpatient facility
- Outpatient facility
- Ambulance facility
- Emergency care facility

√
√
√

Health Centre Staff

Qualified doctor	√	Full Time	√	Part Time	
Qualified Nurse		Full Time		Part Time	

- **Other facilities**

- Bank
- ATM
- Post Office
- Book Shops

√
√
√

- **Transport facilities**

- For students
- For Staff

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- **Power House**

--

- **Waste management facility**

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12. Details of programmes offered by the institution: (Give data for current academic year 2013-14)

Sl. No.	Programme level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved student intake	No. of students admitted
1	UG	B.Sc.	3years	10+2	Hindi/ English	2472	1747
		BCA	3 years	10+2		90	40
2	PG	M.Sc.	2 years	B.Sc.	English	350	298
3	Ph.D.	Ph.D.	4+1 years	M.Sc.	English		15
4	Certificate	Environment Impact Assessment	1 year	Any UG/ PG	Hindi/ English	30	-
5	Diploma	DCA	1 year	10+2	Hindi/ English	30	17
6	PG Diploma	PGDCA	1 year	Graduate in any discipline	Hindi/ English	30	30

13. Does the institution offer self-financed programmes?

Yes	√	No	
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If yes, how many

09

14. Whether new programmes have been introduced during the last five years?

Yes	√	No	
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If yes, how many

06

15. List the Departments(do not list facilities like library, Physical education as departments unless these are teaching departments and offer programmes to students)

Particulars		Numbers	Subject	Number of Students
Science	Under Graduate	02	B.Sc.	1747
			BCA	40
	Post Graduate	08	Mathematics	60
			Physics	38
			Chemistry	34
			Botany	48
			Zoology	43
			Geology	21
			Defence studies	24
Biotechnology	30			
	Research Centre		Mathematics	01
			Physics	04
			Chemistry	06
			Botany	22
			Zoology	04
			Geology	03
			Defence studies	03
Any other(Please specify)				
Diploma		Diploma In Computer Application	17	
Post Graduate		Post Graduate Diploma In Computer Application	30	
Certificate course		Environment Impact Assessment	-	

16. Are there any UG and/or PG programmes offered by the College which are not covered under Autonomous status of UGC? Give Details.

NO

17. Number of Programmes offered under (Programme means a degree course like BA, MA, B.Sc.,M.Sc., B.Com, etc.)

Annual system	B.Sc. BCA
Semester system	M.Sc. DCA PGDCA
Trimester system	

18. Unit Cost of Education

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

(a) Including the salary component

Rs. 56,757

(b) Excluding the salary component

Rs. 7,301

19. Does the College have a department of teacher education offering NCTE recognized degree programmes in Education?

Yes		No	√
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20. Does the College have a teaching department of Physical education Offering NCTE

Yes		No	√
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21. Whether the College is offering Professional Programme

Yes		No	√
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22. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon

Autonomy extension in 2007 and 2013 Enclosed (Annexure – III)

Yes	√	No	
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23. Number of teaching and non-teaching positions in the College

Category	Filled	Sanctioned
Teaching staff	59 Gazetted	82
Non teaching staff	04 Gazetted	04
Class –III	32	36
Class –IV	65	101

24. Position of Teaching and non teaching staff

Positions	Teaching faculty						Non-teaching staff		Technical staff		Non technical staff	
									III		IV	
	Profess or		Promoted Professor		Assistant Professor							
	* M	* F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanction by the State Government-	82						04		36		101	
Recruited			06	12	28	13	04		28	04	51	14
Yet to recruit	23								04		36	

*M- Male *F-Female

25. Qualification of the Teaching Staff

Highest qualification	Professor		Promoted Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	female	
Permanent teachers (59)							
D.Sc./D.Litt.					01		01
Ph.D.			06	12	19	08	45
M.Phil.						03	03
PG					08	02	10
Guest teachers (13)							
Ph.D.						02	02
M.Phil.					02	04	06
PG					04	01	05
Janbhagidari teachers (07)							
Ph.D.						01	01
M.Phil.					-	-	
PG					01	05	06

26. Number of Visiting Faculty/Guest Faculty engaged by the College.

13

27. Students enrolled in the College during the current academic year, with the following details: 2013-14

Student	UG B.Sc.& BCA		PG		Integ rated Mast ers		M. Phil		Ph.D.		Integ rated Ph.D.		D.Litt ./ D.Sc.		Certi ficate		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the state where the College is located	1023	764	123	175					04	11							16	01	12	18
From other state of India																				
NRI students																				
Foreign student																				
Total																				

(* M-Male *F- Female)

28. Dropout rate in UG and PG (average for the last two batches)

UG

05%

PG

01%

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

252

30. Number of teaching days during the last academic year.

194

31. Is the College registered as a study centre for offering distance education programmes for any University?

Yes

No

√

32. Provide Teacher-student ratio for each of the programme/course offered.

UG

1:23

PG

1:04

33. Is the College applying for?

Accreditation:

cycle 1

☐

cycle 2

☒

cycle 3

☐

cycle

☐

Re- Assessment:

☐

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

Cycle 1: **03.05.2004** Accreditation outcome/results – **B⁺⁺**

Cycle 2: (dd/mm/yyyy) Accreditation outcome/results

Cycle 3: (dd/mm/yyyy) Accreditation outcome/results

***Kindly enclose copy of accreditation certificate(s) and peer team report(s)**

Enclosed (Annexure – IV & V)

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

35. a. Date of establishment of Internal Quality Assurance Cell (IQAC) **16.12.2008.**

b. Dates of submission of Annual quality Assurance Reports (AQARs). **November 2013**

1. AQAR for year 2012-13 on 25-11-2013 (dd/mm/yyyy)

2. AQAR for year on.....(dd/mm/yyyy)

3. AQAR for year on.....(dd/mm/yyyy)

4. AQAR for year on.....(dd/mm/yyyy)

CRITERIA-WISE ANALYTICAL REPORT

CRITERION I- CURRICULAR ASPECTS

1.1 CURRICULUM DESIGN AND DEVELOPMENT

1.1.1 How are the vision/ mission plans reflected in the academic programmes of the College?

The vision of the College is to set a benchmark in the field of the study of science in higher education. Quality teaching of the basic sciences, research and development in established and emerging areas, and offering holistic education to students constitutes the vision of the College. The College is a lead college of the region and aspires to raise the level of academics, provide employment, inspire self employment and groom students to face the world with confidence.

The distinctive academic programmes aiming to achieve the vision/ mission are

- A wide spectrum of 15 subject combinations at UG level that makes the academic programme well diversified enhancing employability.
- The syllabus at both the UG and PG level is ideal, relevant, feasible, and has a practical approach to the needs at both the national and regional levels.
- Lecture series are organized by all the departments where students avail the benefit of interacting with eminent scientists and personalities of different fields.
- Students derive the benefit of lectures by stalwarts from IIT Kanpur through e-classes. It is non functioning at present due to some technicalities.
- Short term training programs in the form of projects, workshops, study tours, field visits and seminars give students a lot of exposure and empower them.
- Unit tests, quarterly and half yearly examinations, apart from the semester/ annual examinations help to evaluate and assess the academic progress of the students.
- Special attention is given to quick employment oriented courses like Information Technology, Bachelor of Computer Application, and Diploma in Computer Application, PGDCA, Microbiology, Biotechnology, and Biochemistry.
- Need based add on course is run by the College. However, students did not turn up for this course since last two year.
- The College has an English Language Lab to help students improve and enhance their communication skills.
- Mock Test, Quiz Competitions, Debates and various other activities are organized regularly throughout the year to equip students with knowledge and confidence.
- The Career guidance and Placement Cell guides students in selecting fields of higher education and facilitate job opportunities.
- PG students are guided to make presentations through Power Point and other devices.

1.1.2 Describe the mechanism used in the design and development of the curriculum. Give details on the process.

The College follows a multi step process in finalizing the syllabus. Teachers of a department are called for syllabus meetings by the Head of the department where the relevance of the components of the syllabus, its ability to procure jobs, and its importance in opening up areas of research and development are discussed. The feedback of faculty, industrialists and students are studied and reviewed, and the syllabus is finally framed in the Board of Studies meeting. Valuable suggestions and inputs by subject experts are incorporated into the syllabus. Feedback and suggestions are also taken from industrialists and experts from different fields. The syllabus is next put up before the Academic Council for discussion and final approval.

The College follows the UGC syllabus as prescribed by the Pandit Ravishankar Shukla University, Raipur Chhattisgarh, to which the College is affiliated. The College avails the benefit of 10% freedom in designing the syllabus at the PG level. 20% marks are assigned for internal assessment.

The College also follows the University syllabus for self financing vocational courses.

1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit from the involvement of the stakeholders?

The College has experts from diverse fields, in the different bodies like Academic Council and Board of studies of different subjects.

The involvement of the stakeholders has highlighted and emphasized the quality of Human Resource required for industries, Government departments, and the corporate sector. For quality enhancement the PG students of most departments are given exposure to different Labs and industries.

Active and renowned research scientists in all fields are invited from time to time who ignite the research spark among the students through their lectures.

Members in the Board of Studies who represent civil society highlight the need of educated youth in the plans and programmes of the state.

1.1.4 How are the following aspects ensured through curriculum design and development?

- Employability
- Innovation
- Research

Employability - The College has a curriculum that caters to the need of the students by opening up the job market for them. The College is a pure science College and in

this age of science and technology it prepares students to find a place for themselves in the burgeoning growth in the field of science. Basic sciences are the root of all industries like coal and mines, energy, chemicals, cement, power, and many others need students to work at different levels. Chhattisgarh is a state rich in minerals and natural resources. It is a young state and there is lot of growth and development taking place in all sectors. Looking for green pastures, investors are ready to set up their industry in the state. Employment opportunities within the state are on the rise, and the need of the hour is an in depth knowledge of the basic sciences.

The College offers subjects like Information Technology, Bachelor of Computer Application, Biochemistry, Microbiology, Biotechnology, Diploma in Computer Application and Post Graduate Diploma in Computer Application.

The courses on offer assure employability as they cater to the need of the state and the nation in-

- a) fields which need knowledge of basic science,
- b) Specialized knowledge in the Mathematics group
- c) Specialized knowledge in the Biology group
- d) Vocational subject groups in both the basic fields
- e) Information Technology sector
- f) Education sector

Innovation- The diverse subject combinations offered to the students spells innovation. The syllabus of the subjects incorporates new areas of study at both UG and PG levels.

Research – The curriculum which offers many diverse subjects assures that there is a thirst for knowledge and future research. The components of the syllabus, conveyed through quality teaching by dedicated faculty, not only enhances the knowledge of the students but also inspires original thought. Deeper searches, blending different streams of thoughts and exploring emerging regions of research are ensured by the curriculum. The excellent laboratory facilities, museums, the Network Resource Centre, and the well equipped library inspire and facilitate research.

1.1.5 How does the College ensure that the curriculum developed addresses the needs of the society and have relevance to the regional / national development needs?

The need of the country is development and growth in all fields, so that the evils of unemployment, poverty and corruption can be fought. Health, sanitation, environment pollution, basic infrastructure, and organization in all sectors are other urgent needs of the society.

- All the courses aim at the overall development of the students.
- The PG course content of all subjects enable students to take UGC, NET, SET examinations.

- A Language Lab has been set up to improve the communicative English skills of the students to meet the national and international demands.
- The curriculum of many subjects like Defence Studies, Botany, Biotechnology and Geology incorporates field excursions, trips and project works to create awareness amongst the students.
- The Environmental Studies create awareness about burning issues like sustainable development, global warming, pollution and conservation of natural resources among the student community.

All the subjects incorporated in the syllabus definitely address the needs of the society and are relevant to the regional and national development needs.

1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?

The regulatory bodies are UGC, Chhattisgarh State of Higher Education Department, and Pandit Ravishankar Shukla University. The College adheres to the system and guidelines offered by the above in framing and restructuring the curricula. The Academic council and Board of Studies of different subjects review syllabus under UGC guidelines as per the needs of the region offering holistic education to youth thus creating a national impact.

1.2 ACADEMIC FLEXIBILITY

1.2.1 Give details on the following provisions with reference to academic flexibility

- a) Core/ elective options
- b) Enrichment courses
- c) Courses offered in modular form
- d) Lateral and vertical mobility within and across programmes and courses

- a) Core / elective options** - At the **UG level**, the College offers 15 subject combinations in B.Sc. which display immense academic flexibility. The combinations are

Mathematics, Physics, Chemistry
 Mathematics, Physics, Geology
 Mathematics, Physics, Defence Studies
 Mathematics, Physics, Information technology
 Mathematics, Physics, computer science
 Chemistry, Botany, Geology
 Chemistry, Botany, Zoology

Chemistry, Botany, Defence Studies
Chemistry, Botany, Microbiology
Chemistry, Botany, Biochemistry
Chemistry, Botany, Biotechnology
Chemistry, Zoology, Biotechnology
Chemistry, Zoology, Biochemistry
Chemistry, Zoology, Geology
Chemistry, Zoology, Defence Studies

BCA- A three years Degree course in Computer Application.

PG Courses - At the PG Level Elective options between papers as per UGC curriculum.

There are 08 PG courses in the College, these are :-

- Mathematics
- Physics
- Chemistry
- Botany
- Zoology
- Geology
- Defence studies
- Biotechnology

One PG Diploma course in Computer Application (PGDCA)

One Diploma course in Computer Application (DCA)

Add-on-course – Environmental Impact Assessment

More over foundation courses viz. English and Hindi are offered for all branches of UG courses with Environmental Science as a compulsory paper.

b) Enrichment courses- The College offers a number of enrichment courses in the form of Vocational self financial courses. The Courses are

Bachelor of Computer Application,
Diploma in Computer Application, and
PG Diploma in Computer Application.

At the UG level, Biotechnology, Microbiology, Biochemistry and Information Technology are offered as one of the three science subjects, which are enriching additions to the curricula. The College offers a Masters in Science in Biotechnology.

c) **Courses offered in modular form-** The College offers a Certificate Course in **Environment Impact Assessment**. A PG Certificate Course in **Remote Sensing and GIS** is in the pipeline.

d) **Lateral and vertical mobility within and across programmes and courses-** The College is a single faculty College devoted to science, and therefore there are limited options for lateral and vertical mobility. Yet the College tries to give the benefit of an add on course to the students.

Lateral and vertical mobility is offered in the add on course on Environment Impact Assessment. Any student of the College at both UG and PG level can opt for this course along with their regular course. At the first level, in one year, it is a Certificate Course; on passing in this course, in the second year the student gets a Diploma; at the third stage the student gets an Advanced Diploma.

1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If “no”, explain the impediments.

Though the College has the required infrastructure and faculty to run such course, it has to be facilitated only by the State Government.

1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.

The College does not offer any dual degrees or twinning programmes.

1.2.4 Does the College offer self financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

The College offers self financing programmes under the following sections:

At the UG level, the self financing subject combinations offer Information Technology, Computer Science, Biochemistry, Microbiology and Biotechnology.

In the field of Computer Application, the College offers a Bachelor in Computer Application, a Diploma in Computer Application and a Post Graduate Diploma in Computer Application.

A self financed PG Course in Biotechnology is offered by the College.

One Add on Course offered in the College is: **Environmental Impact Assessment** run by **Geology Department**.

LIST OF SELF FINANCING PROGRAMMES

Self Financing Programmes	Permanent/Temporary faculty	Teacher Qualification	Fee Structure	Salary
Computer Science	Temporary Faculty (02)	MCA	5000.00	20,800.00
Information Technology	Temporary Faculty (02)	M.Sc. IT	5000.00	20,800.00
BCA	Temporary Faculty (01)	MCA	10,000.00	20,800.00
DCA	Temporary Faculty (01)	MCA	5000.00	20,800.00
PGDCA	Temporary Faculty	MCA	6000.00	20,800.00
Microbiology	Permanent Faculty (02)	Ph.D.	3000.00	15,600-39100
Biotechnology	Permanent Faculty (01)	M.Phil.	20,000.00	15,600-39100
	Temporary Faculty (02)	M.Sc.		20,800.00
Biochemistry	Permanent Faculty(01)	Ph.D.	5000.00	15,600-39100
	Temporary Faculty (01)	M.Sc.		20,800.00

1.2.5 Has the College adopted the choice based Credit system (CBCS)? If yes, how many programmes are covered under the system?

The College has not adopted the Choice Based Credit System.

1.2.6 What percentage of programmes offered by the College follows:

- a) Annual System
- b) Semester System
- c) Trimester System

The College follows the Annual system in UG Level (B.Sc. and BCA) and in Certificate Course.

The Semester System is followed in PG Level (M.Sc. in all subjects and PGDCA).

College follows semester system in Diploma in Computer Application. In this way the College follows 50% annual system and 50% semester system.

There is no trimester system.

1.2.7 What is the policy of the College to promote inter- disciplinary programmes? Name the programmes and what is the outcome?

As an internal policy, the member of IQAC, the QAC, and the Head of the Institution encourage interdisciplinary study for the benefit of the students by including a few units of interdisciplinary nature in the syllabus at the PG level. The College has 7 Research Centres where interdisciplinary research is in progress. Research in traditional and emerging areas of study, encompassing diverse fields is encouraged. Exchange of knowledge and expertise is a regular feature of our academic programmes.

Interdisciplinary Research –

1. Botany and Chemistry
2. Botany and Zoology
3. Botany, Agriculture and Life Sciences
4. Zoology and Life Sciences

1.3 CURRICULUM ENRICHMENT**1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and /or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?**

The curriculum of the College is reviewed once a year. The College makes a deep study of the feedback, suggestions and recommendations given by the QAC, IQAC, Board of Studies, Students, parents, industrialists and identifies the areas of study that need modernization and enhancement so that they can become socially relevant. Employment and placement are key concerns of the College and the curriculum is updated and made student centric by changing and including a few units of the syllabus, acting within the limited freedom given by the UGC.

1.3.2 How many new programmes have been introduced at the UG and PG level during the last four years? Mention details.

- * Interdisciplinary
- * Programmes in emerging areas

The College has introduced Biochemistry, Bachelor of Computer Application, Diploma in Computer Application, Post Graduate Diploma in Computer Application, Add on Courses in Environment Impact Assessment and Data Care Management.

A proposed future plan is to start a PG Diploma in Remote Sensing and GIS by the Geology Department.

1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

The syllabus of existing programmes are revised keeping in focus the need of the student in the present age, specifically in the field of knowledge enhancement and job procurement. Based on discussions among the faculty, the head of the institution, subject experts, and employers from different fields, the College reviews and revises the existing programmes for the betterment of the students. The revision has to confine itself to only 10 % change.

An important revision in the academic- evaluative set up which has been incorporated in the syllabus has been to keep 20 marks for Internal Assessment and Seminars in

alternate semesters at the PG level. Internal assessment forces the student to study and perform well in the tests that are conducted. Preparing a paper for presentation in a Seminar helps develop research and presentation skills. Seminars help students to use power point presentations and use the modern technology to make their presentation impressive. It raises their confidence level, improves communication skills and teaches them to defend their thesis or argument.

1.3.4 What are the value added courses offered by the College and how does the College ensure that all students have access to them?

The College has a compulsory course on Environmental Science which raises awareness among the students about the environmental crisis of this era. The students develop a sense of values through this course. They are taught to care for and nurture nature, and inspired to fight pollution, and save water, power and other depleting resources of the world.

The College has NCC in all the three wings- Air Wing, Infantry and Signal. Girls and boys of the College join the NCC in the first year. They learn and grow under the discipline and programmes of the NCC. Values of patriotism, national unity, sacrifice, cultural diversity, and protection of the value system of the country are taught to them. They go for camps and offer services in different fields.

The NSS (National Service Scheme) unit of the College is a very active body. Various talks and seminars are organized by the NSS. The NSS also organises Blood Donation camps, AIDS Awareness camps; Village Camps, Women Empowerment camps, Tree Plantation, Health, Hygiene, Sanitation and many others.

1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

The Chhattisgarh State Government has given the responsibility of the Mukhya Mantri Kaushal Vikas Yojana to the College.

Chhattisgarh State Skill development cell has been established in this institution. The nodal department of this mission is Technical education, man power planning. Government of Chhattisgarh under the skill development initiative of the Government. Our institution is planning to get registered as vocational training provider (VTP). Our institution has enough infrastructures to provide vocational training to the students of the college as well as the people of the society in the following sectors-

- Chemical
- Electrical
- Information and Communication Technology
- Plastic Processing

- Refrigeration and Air conditioning
- Soft skills
- Sericulture etc.

1.4 FEEDBACK SYSTEM

1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

The College obtains feedback from the students regarding the performance of teachers and curriculum in proforma based on NAAC accreditation structured. The feedback thus obtained is analysed by the Principal and Head of Departments and the positive suggestions are duly implemented. Informal feed back through discussion is also taken from the students from time to time regarding curriculum, teaching and other co-curricular activities by the Principal and faculty members. Parents feedback is also taken during parents teacher meeting their suggestions are also met with great sincerity. Grievance/ suggestion box is provided by the College to gather and address the various problems of the students.

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods of Departments adopted to do the same – (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.

The College has a well defined mechanism to interact with the faculty of diverse fields of national level at various times as they are nominated members of Academic Council, IQAC and Board of Studies of Different subjects experts are invited in extension lectures, Guest lecture series and national seminars in all subjects from time to time and their suggestions regarding curricula and research programmes are taken. The hands on learning techniques demonstrated through the experts are duly adopted and incorporated in practical syllabii in many subjects.

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum. Enrichment and the extent to which it is made use of.

Besides students and experts from diverse fields feedback on curricula and other activities are taken from different bodies like Academic Council, Board of Studies, IQAC and QAC cell have experts in various fields like alumni, employers, industrialists, lawyers, management experts and University representatives. They give their valuable suggestions and guidelines for changing and modernizing the curriculum.

- 1- **Alumni-** Alumni meet is organized at least once a year which provides a platform to its old students to participate in college activities and give suggestions to the College authorities in various matters.
- 2- **Industries** – The students of vocational courses often visit certain industries, labs and department of repute and interact with the experts. Interaction with industry experts by inviting them for delivering expert talks and industrial visits organized for the students provide an opportunity to interact with the industrial sector.
- 3- Cultural programs, camps organized by NCC/NSS and other social activities provide an opportunity to interact with the community and introduce need based programmes.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?

The College is trying its level best in ensuring effective curriculum design and development. The existing courses are restructured and updated to meet the emerging national and global trends from time to time. New interactive techniques are used to increase the interest of students for subjects and to provide good and easy method for learning. From time to time national/international seminars, conferences and workshops are organized by different departments to enhance the quality of students and teachers.

CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 STUDENT ENROLMENT PROFILE

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

The College has a very transparent admission system. It is a Government College and is guided by the rules and regulations of the State Government. It is affiliated to the Pandit Ravishankar Shukla University, Raipur.

Transparency and publicity are maintained through

- Prospectus
- Website
- Notice Boards
- Newspapers.

The dates of admission for various course are displayed on the notice board and is also notified through the newspapers. Students purchase prospectus during admission process.

- **College Prospectus-** The college prospectus containing the campus profile, rules & regulations regarding admission & examination & details of all the academic programmes, facilities, scholarships etc. are printed so that the students & their parents get acquainted with the institution.
- **Website of College** – Complete details of the college are placed on the website to facilitate access to the information about the college.
- **Notification in Newspapers** – College ensures publicity by notifying the admission dates & other details of the college through the major newspapers of the state.
- **Display on Notice Boards** – the details of entire admission process is displayed on the notice boards during admission period.

Total **Transparency** is maintained as the list is displayed on the Notice Board, and the date within which admission has to be taken by depositing the fees is declared.

2.1.2 Explain in detail the process of admission put in place for UG, PG, and Ph.D. Programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common test conducted by state agencies and national agencies (v) others followed by the College?

The criteria for admission is **Merit**. The College Prospectus has all the details about the Admission process: Subject combinations, eligibility criteria, available number of seats, reservation policies and freeships, a detailed fee structure, important dates, the admission form and a list of important documents to be submitted with the form. All the important information is also put up on the College website. The admission process is carried out by strictly adhering to the State Government and University norms.

The Principal under his patronage constitutes admission committees for admission at UG & PG level. The committees scrutinize the applications for admission with respect to fulfillment of the eligibility criteria prescribed for admission by Pt. Ravishankar Shukla University.

UG level-The admission is done entirely on the basis of **merit**. The admission committee scrutinizes the forms and prepares the list of selected candidates, adhering strictly to the Government rules.

PG Level: The key criterion for PG admission is the percentage of marks in the relevant subject at the qualifying degree examination. University has fixed a minimum percentage of marks for PG programme with relaxation for reserved categories. The selection process is through central counseling system.

Ph.D. level: The College follows the University and UGC guidelines for admission at this level. The eligibility is as per **University Ph.D. Entrance Examination**, and the process includes the DRC, Course Work, pre RDC, RDC and final registration.

2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

The college has a mechanism to review its admission process and student profiles annually. The admission committee makes an analytical study about their marks and economic status. Review of the admission process & student profiles helps in providing equal representation from all sections of the society. Student performance record in academic, extracurricular, NCC/NSS, Sports etc. is duly maintained. The students are rewarded through gold medals and merit certificates etc.

2.1.4 What are the strategies adopted to increase/improve access to students belonging to the following categories

- SC/ST
- OBC
- Women
- Different categories of persons with disabilities
- Economically weaker sections
- Outstanding achievers in sports and extracurricular activities

The College has many special encouragement schemes for increasing access to students from special groups. The College follows the State government rules in this regard.

- **SC/ ST –**
 - i. **Reservation of seats:** 12% and 32% seats for SC/ST respectively are reserved during admission.
 - ii. **Relaxation in fees:** the SC/ ST candidates are exempted from paying the Tuition Fees. They get a relaxation of 10% in the Janbhagidari Fees.
 - iii. **The College Book Bank:** The College Book Bank issues the textbooks to the students for the session, till the completion of the examinations.
 - iv. **Remedial classes.**
- **OBC –**
 - (i) **Reservation of seats:** 14% seats are reserved, excluding candidates of OBC (creamy layer)
 - (ii) **Remedial classes**
- **Women –**
 - (i) **Reservation of seats:** 30% seats are reserved for girls in all categories

- (ii) Daughters of CG Government employees are exempted from paying Tuition Fees and Science Fees.

• **Different categories of students with disabilities –**

- (i) **Reservation of seats:** 03% seats are reserved jointly for physically challenged candidates and those who are children of freedom fighters.
- (ii) **Weightage in merit list:** The differently abled candidates are given an extra 10 % weightage on the marks they have procured in the prior examinations when the merit list is made.

• **Economically weaker sections of society –**

- (i) **Relaxation in Fees:** Exemption of 1/3 of Tuition Fees to children of poor farmers.

• **Outstanding achievers in sports and extracurricular activities-**

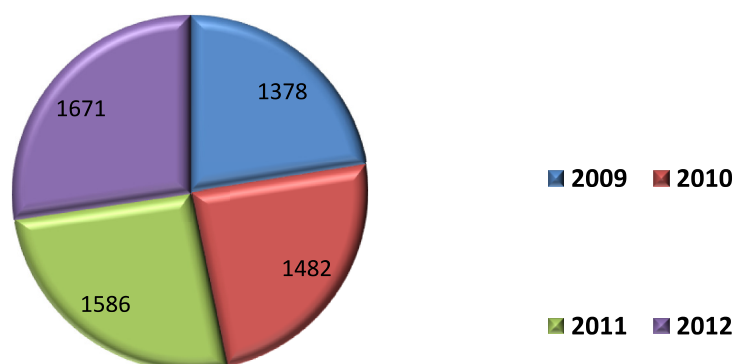
- (i) Weightage during the preparation of the Merit list is given to students who have excelled in the above fields, according to the following list as per State government norms, adhering rigourously to the clauses enumerated by the CG Government-
- (ii) **NCC/ NSS cadets- Extra weightage is given-** 02% for A certificate / 03% for B Certificate/ 04% for C Certificate/ 04% for State level group representation/ 05 % for participation in the New Delhi Republic Day parade/ 05% for Governor's Scouts/ 10 % for President's Scouts/ 10 % for Best Cadet of CG/ 15 % for Duke of Edinburgh Award/ 15 % for students of NCC/ NSS selected for exchange programmes and for international Jamburees.

2.1.5 Furnish the number of students admitted in the College in the last four academic years.

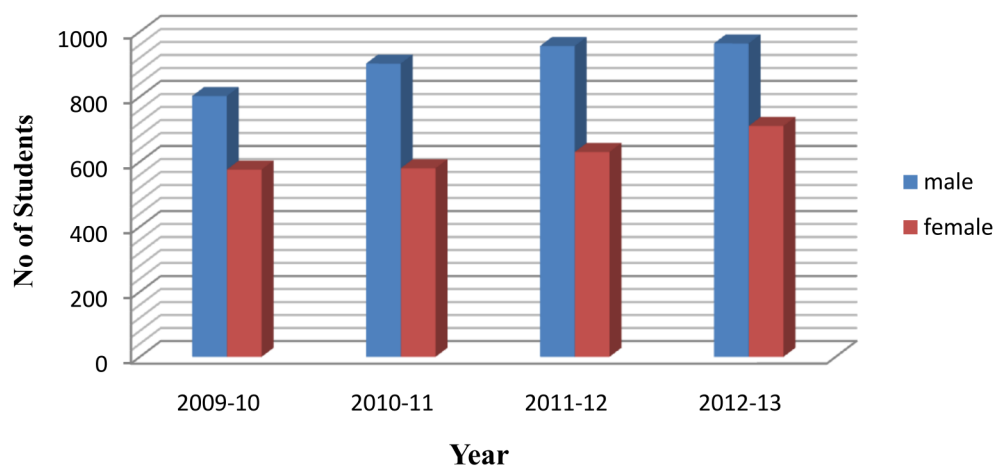
Number of students admitted in UG Level in last four academic years. (2009-2012)

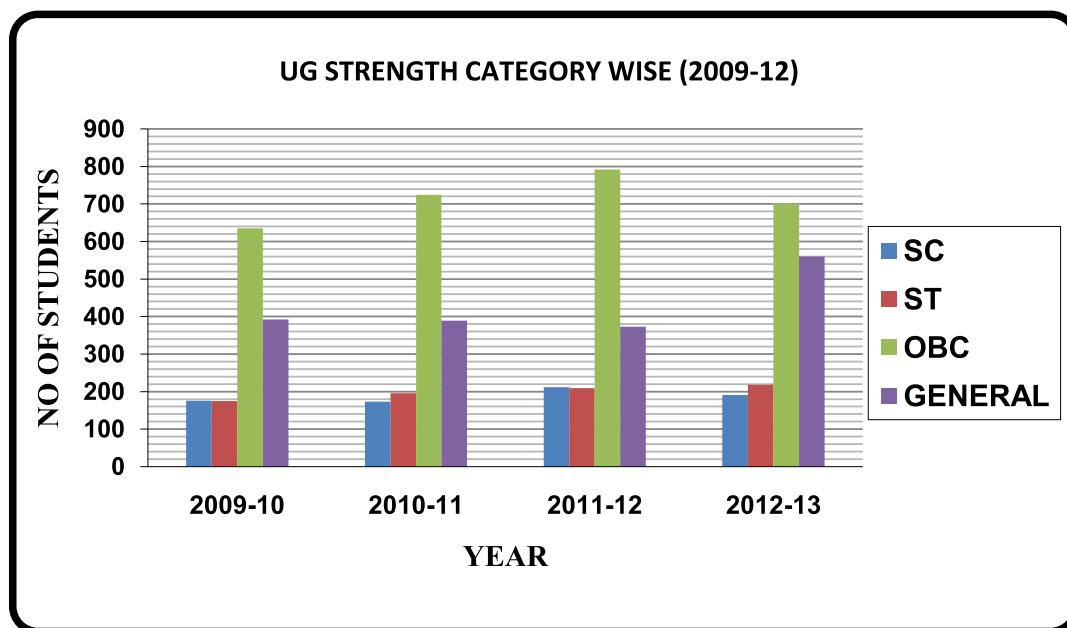
Categories	Year 1		Year 2		Year 3		Year 4	
	2009-10		2010-11		2011-12		2012-13	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	122	54	109	64	135	77	138	53
ST	116	59	126	70	132	77	132	86
OBC	408	227	503	221	520	272	451	251
General	156	236	164	225	169	204	240	320
Total	802	576	902	580	956	630	961	710
G. Total	1378		1482		1586		1671	

Total strength of UG Students(2009-12)



Total Strength of Male /Female in UG (2009-12)



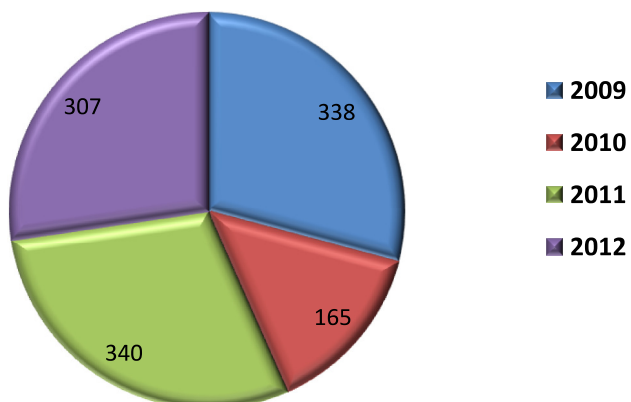


Number of students admitted in PG Level in last four academic years.

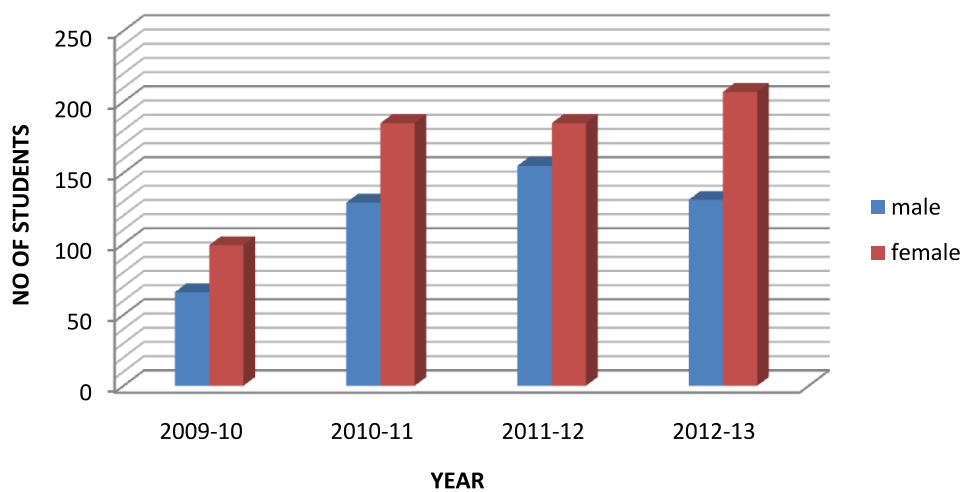
(2009-2012)

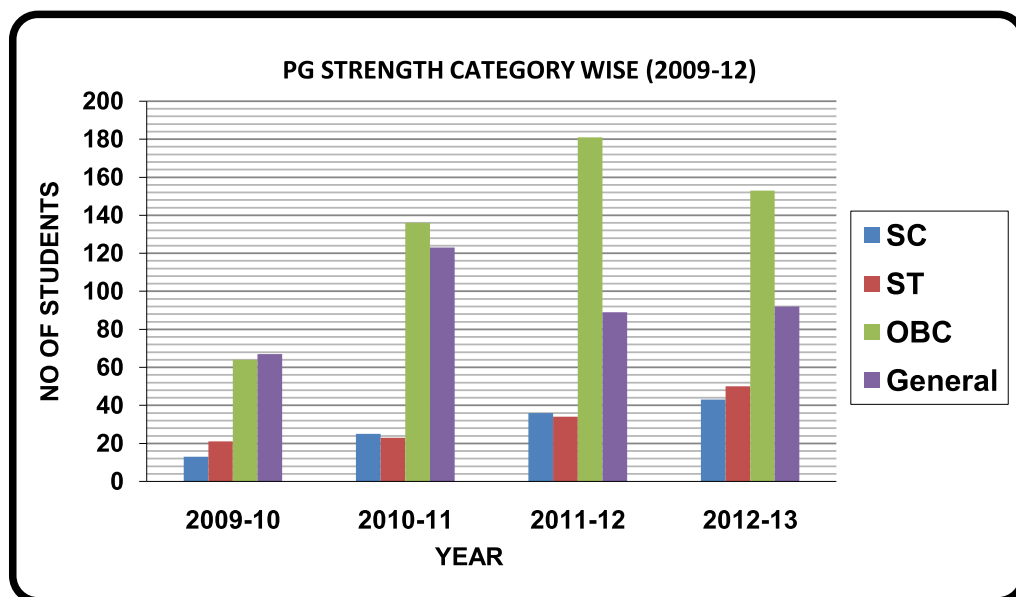
Categories	Year 1		Year 2		Year 3		Year 4	
	2009-10		2010-11		2011-12		2012-13	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	05	08	13	12	21	15	24	19
ST	04	17	11	12	14	20	17	33
OBC	33	31	64	72	80	101	62	91
General	24	43	41	82	40	49	28	64
Total	66	99	129	178	155	185	131	207
G. Total	165		307		340		338	

Total Strength of PG Students(2009-12)



Total strength of Male /Female P.G. Level (2009-12)





2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase/decrease.

Programmes	Classes	Number of application	Number of students admitted	Demand Ratio
UG				
1. B.Sc.	Part I	2410	900	2.7:1
	Part II	518	466	1.1:1
	Part III	381	380	1:1
2. BCA	Part I	114	20	6:1
PG				
1. M.Sc. (I semester)		917	167	
		Central counseling		
Ph.D.			15	
Certificate				
1.				
Diploma				
1. DCA		49	17	3:1
PG Diploma				
1. PGDCA		157	30	5:1

The table shows that professional courses related with computer application are in high demand ratio.

2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reason.

Data Care Management, an add-on course, run by the Physics department was discontinued and new vocational courses BCA, DCA, PGDCA were started. The components of the syllabus in both the courses are almost similar and the students were interested in getting admission in the new vocational courses, so the Data Care Management programme was discontinued.

2.2 CATERING TO STUDENT DIVERSITY

2.2.1 Does the College organize orientation/induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes, the College conducts induction programmes for freshers, section wise. The Head of the institution, Faculty and coordinators of various extracurricular activities and other committees are present.

The chief issues that are covered are

- Academics, attendance, examinations
- Discipline, ragging, Grievance Cell
- College infrastructure- Class rooms and laboratories, Boys and Girls Hostels, Girls and Boys Common Rooms, Library, Reading Room, Canteen, Bank, Post Office, Hospital,
- Extracurricular activities- NCC/ NSS/ Red Cross Society/Red Ribbon Society/Language Societies/ Cultural festivals/competitions/ Science Club/ Departmental Societies, Career guidance and Placement Cell/ GK Club
- Sports facilities- indoor and outdoor

2.2.2 Does the College have a mechanism through which the “differential requirements of student population” are analysed after admission and before the commencement of classes? If so, how are the key issue identified and addressed?

Yes, the College has various committees that work towards studying and solving issues related to the requirements of students.

The key issues are student strength, sections, time table, classrooms and others. The College has various committees which coordinate and ensure the smooth functioning of the college when the session begins and classes commence.

- Time Table Committee fulfils the key requirement and assures smooth functioning.

- Infrastructural requirements are fulfilled so that the classrooms, laboratories, and rest rooms are in order.
- Office-receipts, identity cards.
- Library- library cards.

2.2.3 Does the College provide bridge/Remedial/add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

The college provides Remedial Classes and add-on courses.

- **Remedial classes-** The zero hour in the general college time table is kept for remedial classes. A special time table for these classes is prepared by each department so that each subject gets a time slot in it and all faculty members take remedial classes. Such classes are taken before the commencement of regular classes.
- **Add-on courses** –The College offers an Add-on course in “Environment Impact Assessment” which is run by the Department of Geology. Another add-on course which is in the pipeline is in PG Diploma in remote sensing and GIS which is to be run by the Department of Geology.

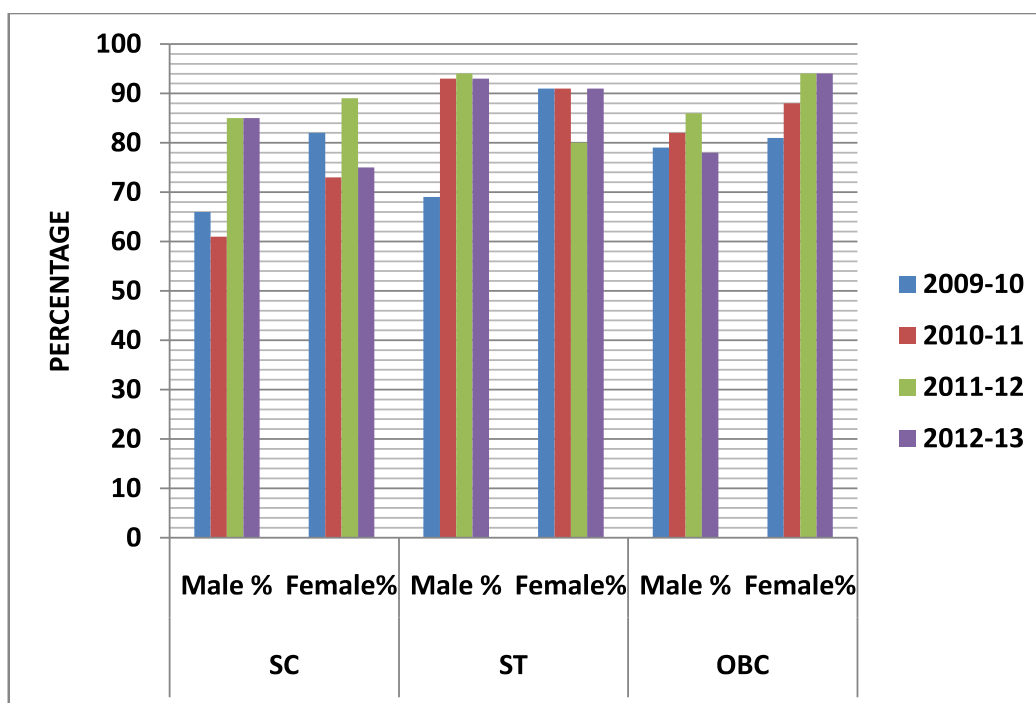
2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; -student from disadvantaged sections of society, economically disadvantaged, physically handicapped and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

INCREMENTAL ACADEMIC GROWTH OF STUDENTS OF SC/ST/OBC YEAR WISE (2009-12)

YEAR	SC				ST				OBC			
	Male		Female		Male		Female		Male		Female	
	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass	Appeared	Pass
2009-10	15	10	11	09	19	13	11	10	99	78	41	33
2010-11	18	11	11	08	13	12	11	10	96	79	57	50
2011-12	20	17	09	08	16	15	10	08	84	72	49	46
2012-13	20	17	12	09	14	13	21	19	95	74	42	35

**PERCENTAGE OF INCREMENTAL ACADEMIC GROWTH OF STUDENTS OF
SC/ST/OBC YEAR WISE (2009-12)**

YEAR	SC		ST		OBC	
	Male %	Female%	Male %	Female%	Male %	Female%
2009-10	66	82	69	91	79	81
2010-11	61	73	93	91	82	88
2011-12	85	89	94	80	86	94
2012-13	85	75	93	91	78	94



Pass percentage of students belongs to ST/SC/OBC gradually in increasing order from year 2009-10 to 2012-13. It shows that students from disadvantage section are doing well continuously. Analysis of performance of boys and girls shows that girl candidates are doing better than boys and overall result shows ST students are best of all.

The numbers of physically handicapped students enrolled are very less. Examination cell has no official record of slow learners but each department identifies and records this type of students and take their extra classes in zero period as remedial classes.

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

The advanced learners are identified during the interaction in the class activity, in the laboratories, performance in the unit tests, quarterly/half yearly exam and the annual/semester examinations.

Advanced learners are motivated to participate in all academic, cocurricular and extracurricular activities of the college. They are asked to conduct academic programmes, make presentations, contribute to the college magazine and departmental wall magazines. They are motivated and guided to prepare for challenging fields in higher education, competitive examinations, research in new and upcoming areas, and for placements in top notch companies and industries.

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

The differently abled students are given kind compassionate attention in the college. Adhering to the CG Government norms, they get benefit in

- 3% Reservation of seats along with freedom fighter during admission
- 10% Extra weightage in marks during preparation of merit list for admission
- There is a provision to provide extra time for blind students during examinations.
- Slopes in the main corridors, first row seating and others
- Motivation to participate in extracurricular activities and others.
- They are allotted class rooms of the ground floor during classes & examinations.

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 and evaluation blue print etc.)

The teaching, learning and evaluation schedule is design well in advance before the commencement of the academic session every year. Besides the University academic calendar, college prepare its own academic schedule for different activities. The Principal calls staff council meeting mandatory for all faculty members in which there is thorough discussion about academic calendar, teaching plan and examination schedule. The academic calendar outlines the quarterly/half yearly/ annual/semester examination, time table schedule & schedule for other activities.

A lay out of time schedule is prepared by a time table committee. A departmental time table is prepared by each department is accordance of UGC guidelines.

The evaluation system is fixed in advance & communicated to the students at the beginning of the session. Internal assessment through seminars & unit tests has been introduced for the students of PG level.

The college administration is very much concerned about the attendance; a minimum of 75 % all is required in each course.

2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

At the commencement of the session, the faculty provides course outlines and course schedules, class wise so that they can understand their subject properly. The faculty discusses the syllabus and relevant books and other study material with their students. Teacher also discuss about pattern of question asked, mode of evaluation in both theory and practical, unit test, class test, term exam is explained to the students, highlighting the importance of each section.

The monthly course schedule is prepared by each faculty member and it is mentioned in their daily dairy. The effectiveness of the above process is strictly monitored by the Head of the institution.

2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

The theoretical aspects of all the subjects follow the basic conventional methods of lecture (talk and chalk). The practical aspects are covered in the respective laboratories. Apart from this other interactive teaching methods are also used which consist of LCD projector, OHP, computer, internet, e-classes and others. Each department have all these facilities. Students of PG level also use above techniques for their project work and seminar presentation. College has e-class room facility. Student of UG/PG can interact with faculty of IIT Kanpur.

The students are exposed to other learning experiences like field visits, industry visits, educational tours and visits to other renowned institutions.

2.3.4 How 'learning' is made more student-centric? Give a list of participatory learning activities adopted by the faculty the contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

The learning is made student-centric by the use of two languages while teaching, both Hindi and English, as the students are predominantly from Hindi medium schools. This method is useful while explaining difficult concepts and technical aspects.

The course is again made student-centric by teaching students according to the evaluation format so that they score well in the examinations.

To make the learning experience more student –centric the College provides students with an e-classroom facility, where the students interact directly with the faculty of IIT, Kanpur.

The College has an English Language Lab, which helps to build and enhance the communication skills of students in English, which is the international language of science and commerce today.

The college has a rich, well equipped, automated library with Net facility which facilitates learning.

The participatory learning activities which contribute to the holistic development of students are

- Departmental Societies-All the PG departments of the college have a separate society, involving the students and teachers. The societies organize various functions like lectures; subject based competitions; honoring retired faculty, alumni, and achievers;
- Language Societies – The Departments of English and Hindi have their societies which organize debates, elocution and poetry recitation competitions; seminars on vocabulary building, GD/ PI techniques and personality development and essay, poetry and short story writing competitions.
- National Service Scheme
- National Cadet Core
- Sports
- Seminars, workshops and conferences
- Red Cross Society
- Red Ribbon Society
- Cultural Society

All the above activities in which students take an active part enable students to acquire life skills such as thinking of society and giving back to society, learning and knowledge management skills, and ethical and emotional values.

2.3.5 What is the College policy on inviting experts/people of eminence to provide lectures/seminars for students?

It is a regular practice of the college to invite subject experts, and eminent speakers from diverse fields to give lectures to the students. Extension lectures are organized by each department under CPE scheme. Different subject societies organize lectures by inviting eminent persons.

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

The faculty tries to use latest technology for effective teaching like the use of computers, e-classroom, internet, LCD and OHP, Power Point Presentations and others.

2.3.7 Is there a provision for the services of counselors/mentors/advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

The College has a **Career Guidance and Placement Cell**, which helps students to identify their field of interest for their careers, and higher education. Seminars and Lectures are conducted regularly to help students identify job opportunities and become aware of the competitive examinations for entrance into any field. The format, frequency and eligibility criteria of such examinations are explained to the students. Personal guidance on Group Discussions and Personal Interview is given to the students. Some companies come to the College for placements. Different activity have been done by the cell are

- Under state skill development mission, students of M.Sc. participated in investors meet.
- Under the career guidance cell the Triumphant institute of management education Pvt. Ltd. Provided training programmes for B.Sc. final students on MBA courses, Banking services and state provincial services.
- Conducted awareness programme for M.Sc. students about NET(JRF) examinations.

2.3.8 Are there any innovative teaching approaches/methods/practices adopted /put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

New innovative techniques are used to increase the interest of students in different subjects. They are the use of computers, e-classroom, internet facility, LCD, PowerPoint Presentations and others. The students are given exposure when they are taken on excursions, visits to laboratories and nurseries, field trips and industrial visits. Students are also taken to the Ayurvedic College, Medical College and Agriculture University. The students learn a lot as this exposure to use modern computer based means of teaching, and visits to different institutes, adds to a wider practical experience, breaking the monotony of text books and classrooms. It enhances and adds a depth to learning. The impact of these methods can be seen in the quality of the presentations made during seminars, in the assignments for internal assessment, in the articles written for Botanical Essays, and also in the examination results. The Faculty members' efforts are appreciated by the College.

2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

Creativity- The College organizes various extracurricular activities that promote creativity. Various competitions on cultural activities like dance, music and theatre, flower and salad decoration, mehndi and rangoli, literary activities, and many others.

Scientific temper- The College promotes and initiates scientific thought by organizing Science Day, invited lectures, seminars, science exhibitions, many others.

The college has research centers and research laboratories in 7 departments, where research work on diverse emerging areas are being carried out.

2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

- Number of projects executed within the College
- Names of external institutions associated with the College for student project work
- Role of the faculty in facilitating such projects

Yes, the College considers student projects a mandatory part of the learning programme.

- In departments of Biotechnology, Defence Studies and Geology projects are mandatory.
 - Environmental Science is a compulsory paper, at UG level, which has a project work as a necessary component.
 - The fourth semester of Biotechnology students at the PG level is a Project Work. The PG students carry out their projects in different laboratories within and outside the state for a stipulated time.
- The Projects in Biotechnology have been carried out in
 - Rani Durgawati Vishwavidyalaya, Jabalpur (MP)
 - Research lab of Hyderabad
 - NEERI Nagpur
 - Agriculture University, Raipur
 - Medical College, Raipur
 - Aditya plant tissue culture lab, Raipur
 - Devleela Biotech lab, Raipur

- The Projects in Geology have been carried out in
 - Bailadila – Limestone
 - Malajkhand Copper Mines
 - Korba Coal Mines
 - Mosabani (Jharkhand)
 - Dallirajhara
 - Chincholi (Maharashtra)
- The Projects in Defence Studies have been carried out in
 - Military establishment (Laddakh)
 - Navy base, Visakhapatnam, Kochi
 - Air base, Hyderabad, Gwalior
 - Army centre, Pachmari

The faculty initiates the area of the project work, the procedure and methodology and the final format of the presentation.

2.3.11 What efforts are made to facilitate the faculty in learning/handling computer-aided teaching/learning materials? What are the facilities available in the College for such efforts?

Each department has computers and the faculty uses them for enhancing the teaching-learning process.

2.3.12 Does the College have a mechanism for evaluation of teachers by the students/alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

Yes, the College has a mechanism to evaluate teachers through collecting feedback from the students. The filled feedback forms are analysed by the Head of the institution and the suggestions given by the students are implemented. Informal feedback about the teachers is taken randomly by the Principal from the students during the college hours.

2.3.13 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.

The College has a precise academic calendar to ensure the completion of the curriculum and it manages to complete the syllabus on time.

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

The library caters to the needs of teachers and faculty by providing access to book and journals. The college has a main library and departmental library. The UG students get their books issued from the main Library whereas PG students refer & get issued

their books of choice from respective departmental library. There is a Book bank facility to cater exclusively to the needs of under privileged students. For the preparation of competitive exams several Books & magazines are subscribed by the college. It provides Net & Xerox facilities to the students. The librarian helps the departments to purchase the latest edition of the books as per the requirement of the teachers & students.

2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.

A systematic mechanism has been established to ensure, enhance and continuously monitor the quality of teaching- learning and classroom environment

- Feedback relating to the curriculum and teachers is taken from the students to assure quality in teaching and learning.
- The Principal assesses the quality of teaching and class room environment through a vigilant checking of class during class time. At times the Principal sits among the students and observes the teaching. He also evaluates the teaching by checking the monthly daily diary report of the teachers and comments and gives valuable advice for the improvement of teaching.
- Results of the evaluative process through different examinations like class test, unit test, quarterly /half yearly/annual/semester examinations are also measures to observe and evaluate the teacher's performance.
- The academic audit committee monitors and evaluates teaching learning.

2.4 TEACHER QUALITY

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

The sanctioned faculty strength of the college is 82. The numbers of filled posts are 59. 10 are from outside the state.

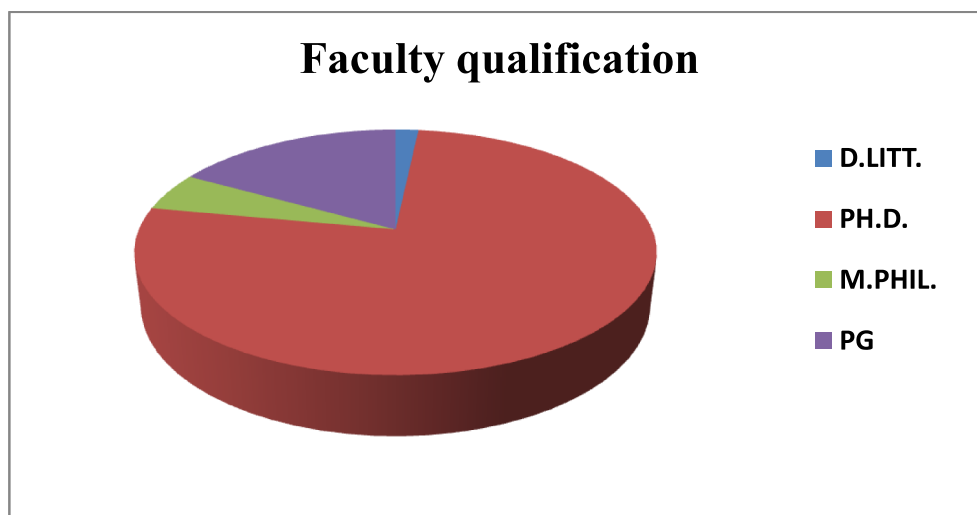
2.4.2 How are the members of the faculty selected?

Members of the faculty are selected by the CG Higher Education Department's rules and UGC norms and guidelines. Permanent faculty are selected through the Public Service Commission (Written and Interview) Examination.

Guest faculty (purely temporary) are selected as per state government rules and UGC norms, strictly on the basis of merit. They are appointed by the college after getting the guideline from state Higher Education department.

2.4.3 Furnish details of the faculty

Highest qualification	Professor		Promoted professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teacher- (59)							
D.Sc./D.Litt.	-				01		01
Ph.D.			06	12	19	08	45
M. Phil.						03	03
PG					08	02	10
Guest teacher (13)							
Ph.D.						02	02
M. Phil.					02	04	06
PG					04	01	05
Janbhagidari teacher (07)							
Ph.D.						01	01
M. Phil.							
PG					01	05	06



2.4.4 What percentages of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

Recently appointed three faculty members out of five through PSC are NET qualified about 10 faculty members are with PG as highest qualification.

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

The power of recruiting faculty rests entirely with the state government. The Government has all right to transfer from one Government College to another.

However, the present position of regular faculties are shown in the table-

Department	% of faculty who are product of the same college	% of faculty from other College within the State	% of faculty from other State	% of faculty from abroad
Maths	14		86	
Physics	14	72	14	
Chemistry	10	90		
Botany	43	43	14	
Zoology	30	56	14	
Geology	80	20		
Defence Studies	50	50		
Biotechnology		100		
Microbiology		100		
Biochemistry			100	
Hindi		100		
English		75	25	

2.4.6 Does the College have the required qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?

The college has the requisite number of qualified and competent teachers to handle all the courses in most departments.

If the need arises, the college has a provision to appoint temporary faculty to assist in the teaching process, as per UGC and state government norms.

Five new faculty members, selected by the PSC have joined the college in 2012.

2.4.7 How many visiting Professors are on the rolls of the College?

There are no visiting professors on the rolls of the college.

2.4.8 What policies/system are in place to recharge teachers? (eg: providing research grants, study leave, nomination to nation/international conferences/Seminars, in-service training, organizing national/international conferences etc.)

The college has a number of ways in which it motivates teachers to recharge themselves so that they are better equipped to teach students.

- The faculty are encouraged to attend study programmes like Orientation Course, Refresher Course, Summer/Winter Schools

- The college encourages faculty to attend and present papers in national and international conferences so that they get benefit from the exposure and can further enrich the students.
- The college motivates faculty to organize conferences/seminars/workshops/ in-house training. The faculty and students get a lot of varied enriching experiences in the process: planning, strategising, delegating, check-listing, organizing the event successfully, post-event tasks, and winding up.
- The college grants special casual leave to faculty for attending academic programmes as per UGC norms.
- The Govt. grants Study leave for the pursuit of PhD.
- The college provides funds for attending international seminars when required.
- The college encourages teachers to apply for research grants

2.4.9 Give the number of faculty who received awards/recognitions for excellence in teaching at the state, national and international level during the last four years.

The faculty who have received special awards and recognition:

Name	Department	Award/recognition
Professor K.N. Bapat	Principal	Shikshak Samman (1993) Lion's Club, Rotary Club and Maharashtra Mandal honoured
Professor Renu Saxena	Hindi	Director, Institute Of Educational Management, New Delhi
Professor G.S. Saluja	Maths	Nominated for best research Paper Narsingh Rao Award J. of Indian Mathematical Society
Dr. Sunita Patra	Botany	Fellow of Botanical Society (FBS) from Indian Botanical Society.

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last years. (Add any other programme if necessary)

Academic Staff Development Programmes	Number of faculty
Refresher courses	04

HRD programmes	
Academic Staff Development Programmes	Number of faculty
Orientation programmes	03
Staff training conducted by the college	-
Staff training conducted by University/other Colleges	01
Summer/winter schools, workshops, etc.	12
Any other(please Specify)/ Seminar/ conference	All faculty members

2.4.11 What percentage of the faculty have

- Been invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies
- Participated in external Workshops/Seminars/Conferences recognized by national/international professional bodies
- Presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies
- Teaching experience in other universities/national institutions and others
- Industrial engagement
- International experience in teaching

The college is rich in human resources in the form of qualified, experienced and competent faculty. The number of faculty who have been invited as:

Faculty enhancement programme	Percentage
Been invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies	25%
Participated in external Workshops/Seminars/Conferences recognized by national/international professional bodies	40%
Presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies	40%
Teaching experience in other universities/national institutions and others	5%
Industrial engagement	5%
International experience in teaching	5%

2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

- Curricular Development

- Teaching-learning methods
- Examination reforms
- Content/knowledge management
- Any other (please specify)

The college organizes various faculty development programmes every year. There are 14 departments in the college, and regular seminars and meetings are planned and conducted, leading to an upgradation of the faculty. The curriculum, teaching methods, emerging areas of research, and examinations are important points of discourse. The college has adopted the semester system, with internal assessment/seminars.

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

In this fast paced world, institutions have to move with the times. Many innovations in teaching have come with the IT revolution. The use of OHP, LCD projectors, audio visual aids, internet and other devices have become a practice. The faculty and students make Power Point Presentations. E-class room facility facilitates teaching from learned IIT experts of Kanpur provides an extra edge to teaching learning process.

The use of internet and computers helps students to access, and process data and information, and make well documented and formatted presentations. Through online access the latest information available globally are gathered.

2.4.14 Does the College have a mechanism to encourage

- Mobility of faculty between institutions for teaching?
- Faculty exchange programmes with national and international bodies?

If yes, how have these schemes helped in enriching quality of the faculty?

The college has a mechanism to encourage faculty mobility. Faculty go to deliver lectures at other institutions, and are enriched in the process as they get a different exposure.

There is no provision for faculty exchange programmes.

2.5 EVALUATION PROCESS AND REFORMS

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

The evaluation methods are informed to the students well in advance. The entire evaluation process and reforms to be made are published in the college Prospectus as

well as displayed on the website and display boards. At the beginning of the academic year, the Principal and the faculty organize an Induction programme in which the entire process is explained to the students.

The college has a very transparent method of evaluation. It has an internal mechanism to monitor the performance of students. They are:

- College conducts unit/ quarterly/ half yearly/annual/ semester examinations to evaluate students.
- Marks distribution and evaluation method are explained clearly by the teachers to the students.
- The college is very strict about attendance.
- Parent – Teacher meetings are conducted to inform parents about the conduct and progress of their wards.

2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively imp-acted the evaluation management system?

The College has to follow the rules and regulations of the Chhattisgarh Higher Education Department and the Pt Ravishankar Shukla University in its evaluation pattern.

UG level- The College has annual examinations at the UG level. The college conducts unit/ quarterly / half yearly examinations to assess the progress of the students.

PG level – The College follows the semester system at the PG level. There is a provision for internal assessment (20%) through seminars/ tests.

2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

Continuous evaluation through preparation of notes, class and unit tests, quarterly and half yearly examinations has helped the students tremendously to perform better in their examinations. At the PG level continuous evaluation is done through semester system.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicated the mechanisms strategized to ensure rigour of the internal assessment process?

PG level- 20% marks are allocated for internal assessment.

The process is rigorous as students have to work diligently at their seminar papers and projects which initiate research and learning strategies. They learn to access, process,

and format information. Students improve presentation skills as they make Power Point Presentations.

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

The college always adheres to the declared examination schedule.

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode/media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

The average time taken by the college to declare results at UG level is 01 to 1.5 months. At the PG level the results are declared within 03 to 04 weeks. The examination results are declared on the notice board, newspaper and website.

2.5.7 Does the college have an integrated examination platform for the following processes?

- Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- Examination process – Examination material management, logistics.
- Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.

➤ **Pre-examination processes -**

- Academic calendar as per University
- Time Table Generation for both UG annual examination and PG semester examination.
- Queries/objections are invited regarding the time table from the students
- Student lists for both theory and practical examinations are generated.
- Examination committee is formed fifteen days before the commencement of examination. The structure of the committee depends on the number of students appearing for the examination. There is one superintendent and 2/3 assistant superintendents.
- List of invigilators is sent to each department/faculty.
- A flying squad comprising a convener and two members is formed
- A manual attendance sheet is circulated
- Invigilators are paid remuneration immediately.

➤ **Examination process – Material Management**

- Printing of answer books/and other forms
- Printing of question papers

- Maintenance of extreme confidentiality
- Stationary/packing material

➤ **Post examination process -**

- Dispatch of answer books
- Collection of evaluation sheets/answer books
- Entry of marks /collation
- Preparation of results
- Result committee meeting
- Declaration of results on college website/notice board/news paper

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

The Ph.D. evaluation has undergone a change as per UGC guidelines. The process and evaluation now has an Entrance Test, DRC, Course Work, Pre RDC, RDC, and final Registration. Six monthly progress reports are submitted to the university. There is a pre- submission presentation and internal viva voce before the research committee, at the research centre. After submission, the thesis is sent to two external examiners, and on receiving positive reports, the Viva Voce examination with an external examination is conducted.

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

The autonomous examination cell had started in a very small room. Streamlining it and modernizing it was a dream like project. The strenuous labour and the vision of senior professors, who worked with minimum facilities has helped transform it into what it is today. The professors toiled through days and night, doing each work manually: preparing question papers, printing question paper, tabulation work, collation, and preparing the final result.

At present the autonomous cell has a safe and secure room with ICT facilities. A Senior Permanent faculty member is assigned the task of the Controller, Autonomous Examination Cell. The college has made the atmosphere conducive for the functioning of the examination cell. The structure of examination cell is one controller, one deputy controller, two assistant controllers with two supporting staff. The controller supervises and coordinates the activities of the cell and acts in accordance with the rules and regulations related to examination. The motto of this division is to work towards conducting a fair and proper assessment of students through a fool proof, meticulous system. The cell gets question papers for the under graduate and post graduate examination, maintaining top secrecy. The process of annual examination of under graduates and the semester pattern for post graduates run simultaneously. The cell ensures that the declaration of results is on time.

The strength of the students is increasing every year. New Subject combinations have been introduced as per the demand of the present times. The college has decided to shift the present examination cell to a more spacious, secure room, equipped with ICT facility. Thus the journey which had begun in a small room, with hardly any space for five members, has ended in a fully furnished room, where the committee can function smoothly. This is a result of the foresight of the college, which has equipped the cell for the challenges of the future.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

The college ensures complete transparency in declaration of examination results. The mechanisms for redressal of grievances with reference to examinations include

- Retotalling of answer books
- Revaluation of answer books
- Xerox copies of answer books are provided on demand
- Duplicate mark sheets

2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES

2.6.1 Does the College have clearly stated learning outcomes for its programmes? If yes, details on how the students and staff are made aware of these?

The College motto, “Yogaha karmasu kaushalam” states the final outcome of the learning process. It aims to empower students and place them to ultimately perform their duties honestly to themselves, to the country and to the world.

Good academic education is the chief learning outcome that the college targets. The UG and PG syllabus clearly state the learning objective of each specific programme. The Examination Results reflect the final learning outcome.

The Faculty has a Staff Council Meeting at the beginning of the session, where an analysis of the result is made. The pass/ failure percentage, merit and distinctions/ course-subject- wise results/ performance in theory and practical examinations are discussed.

The students are made aware of the results and their performance in different subjects.

2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?

The final objective of the learning process is to impart holistic quality education and ensure placements for the students.

Academic performance is monitored through a rigorous system of evaluation by unit tests/ quarterly/half yearly/ annual/ semester examinations and seminars/ projects at the PG level.

Examination Results are analysed to monitor the learning outcome.

Regular classes and an adherence to schedules ensure proper learning.

The College faculty is committed to monitor and ensure that the objectives are achieved. It is a single faculty college. **Science subjects** are offered to students in diverse combinations and the curriculum is designed to procure jobs and open up new fields of research. **IT and Computer applications** are a regular component of the syllabus so students can keep pace with the world. **English** and **Hindi** are compulsory subjects so that along with respect and knowledge of the national language, students can be prepared in the international language, which is also the language of science and technology. **Environmental Science**, a very important area of study today is a compulsory subject.

To make education holistic, the college has provision for a number of **extracurricular activities**: Cultural, Literary, NCC, NSS, Sports and others.)

2.6.3 How does the institution collect and analyses data on student learning outcomes and use it for overcoming barriers of learning?

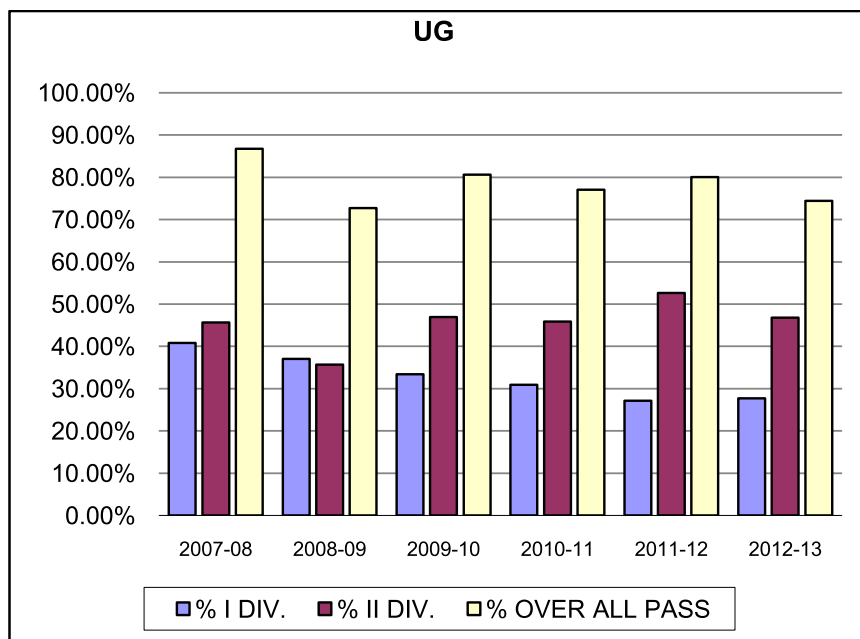
Examination results are the ultimate measure of student learning outcome. Feedback is obtained from faculty, students and parents. Open discussions are held in a number of meetings and means are found to overcome the barriers that are identified.

2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

Pass percentage of students in UG Level year wise (2008-13)

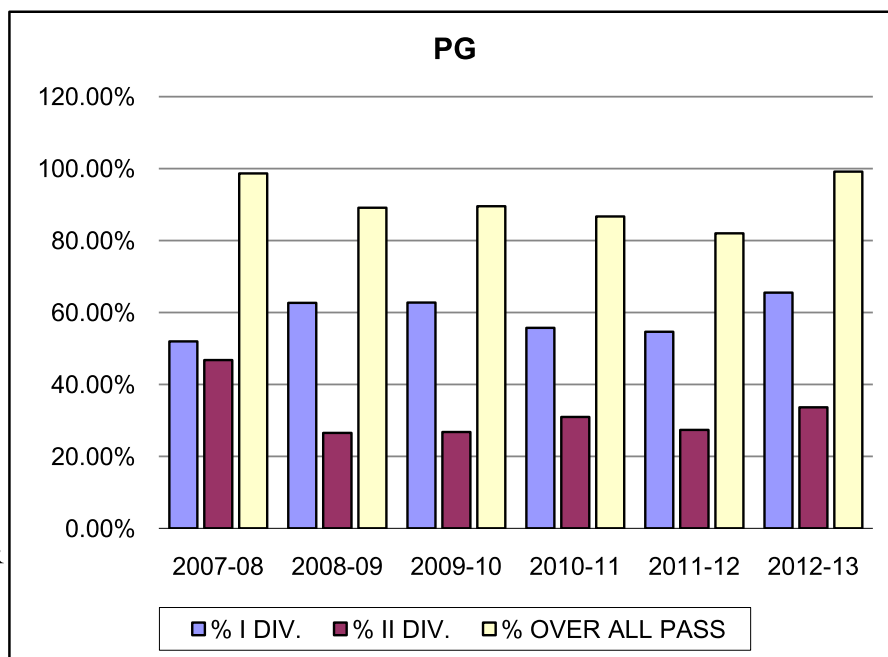
YEAR	% I DIV.	% II DIV.	% OVER ALL PASS
2007-08	40.80%	45.68%	86.78%
2008-09	37.07%	35.67%	72.75%
2009-10	33.43%	46.92%	80.64%
2010-11	30.89%	45.84%	77.07%
2011-12	27.16%	52.60%	80.05%

2012-13	27.69%	46.76%	74.46%
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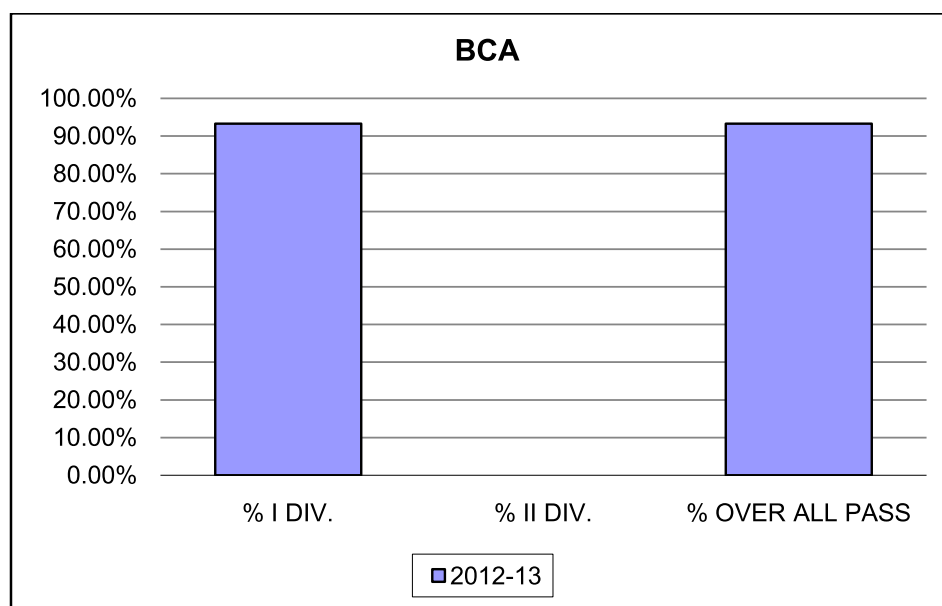
Pass percentage of students in PG Level year wise (2008-13)

YEAR	% I DIV.	% II DIV.	% OVER ALL PASS
2007-08	51.94%	46.75%	98.70%
2008-09	62.65%	26.50%	89.15%
2009-10	62.79%	26.74%	89.53%
2010-11	55.75%	30.97%	86.72%
2011-12	54.67%	27.33%	82.01%
2012-13	65.54%	33.61%	99.15%



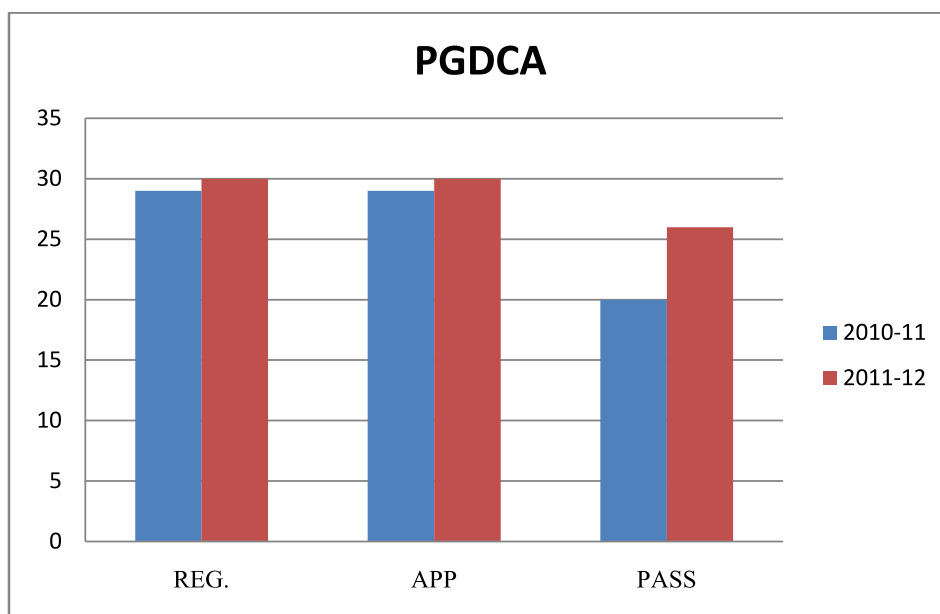
Pass percentage of students in BCA

YEAR	% I DIV.	% II DIV.	% OVER ALL PASS
2012-13	93.33%	0.00%	93.33%



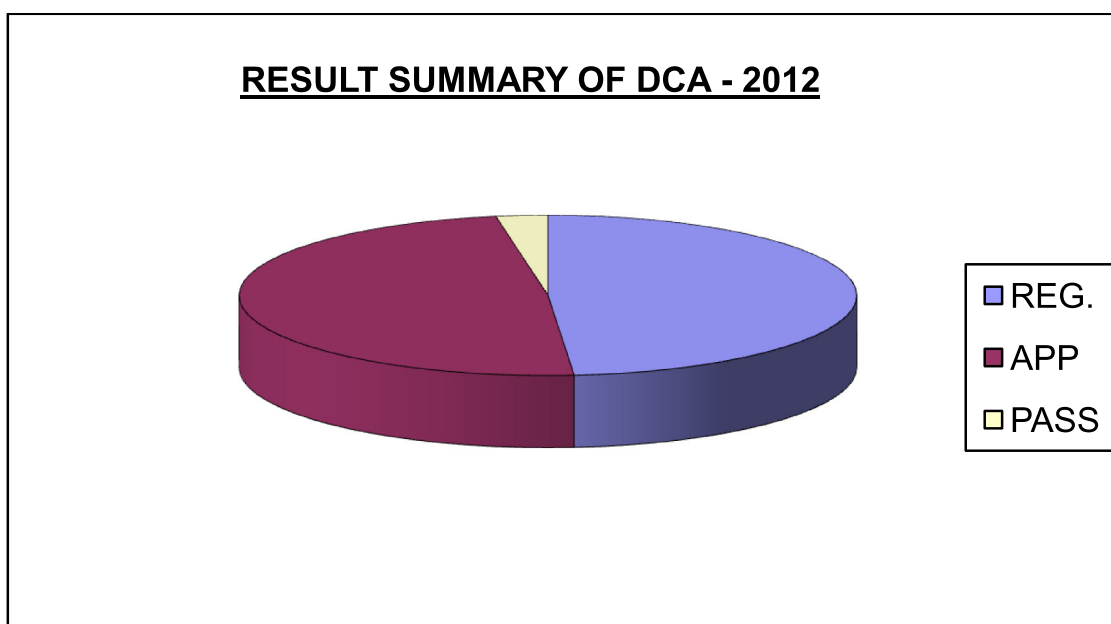
Pass percentage of students in PGDCA (2010-2012)

YEAR	REG.	APP	PASS
2010-11	29	29	20
2011-12	30	30	26



Pass percentage of students in DCA- 2012

REG.	APP	PASS
18	18	1



RESULT SUMMARY FOR THE SESSION – 2012-13

CLASS	GROUP	REGISTERED	APPEARED	PASS	PERCENTAGE	DIVISION		
						I	II	III
B.Sc. PART I	MATHS.	437	426	197	46.4	-	-	-
	BIO.	443	427	138	32.32	-	-	-
B.Sc. PART II	MATHS.	255	254	105	41.33	-	-	-
	BIO.	255	253	105	41.33	-	-	-
B.Sc. PART III	MATHS.	108	108	80	74.00			
	BIO.	238	238	192	80.67	95	176	1
M.Sc.								
Biotechnology		13	13	12	92.30			
Botany		21	21	16	76.00			
Chemistry		21	21	16	76.00			
Defence Studies		12	12	12	100			
Geology		13	13	13	100			
Maths		20	20	12	60.00			
Physics		17	17	16	94.00			
Zoology		22	22	17	77.00			



English Language Lab



Botany Museum



Zoology Museum



Zoology Museum

Future plan for Examination Reforms

- The College has sent a proposal for introducing semester system at the under graduate level which is at present under the consideration of the Government and the University.
- As a healthy practice each department is planning to prepare CD's of lectures by the faculty members which will be beneficial for the students of the college as well as non collegiate students. The lectures will be on display in the reading room. The lectures will also be made available on the college website.
- The College is trying to bring in changes in the question paper patterns and faculty members are working on preparing models of Question papers in keeping with the UPSC/ NET/ SLET patterns, including sections on Objective questions
- Under the examination reforms, online examination system will be introduced for the Post Graduate level students for internal assessment. This examination reforms has been suggested and approved by the Governing Body.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

The College has been playing a proactive role for promoting research culture. The faculty members of almost all the department are actively engaged in research work. They are encouraged to pursue research and take research projects. The College is a research centre for 07 subjects and 22 faculty members are research guides and co guides. During the last 05 years, 09 research projects have been completed in the various subjects in the College. There is one ongoing minor research project and two Post Doctoral Fellowships, and three proposals have been sent for approval. Several National Seminars, symposia conferences & workshops have been organized during last 05 years by the different departments of the College. The proceedings of the National seminars/ conferences have been published with their own ISBN numbers.

3.1 PROMOTION OF RESEARCH

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes, there is an effective research committee to monitor and address the issues of research. It is a 05 member committee under the patronage of Principal in which one senior faculty member works as a coordinator and others are members. The committee recommends the guide lines laid down by the University for Ph.D. programme. It is very vigilant and ensures that all the rules and regulations laid down by UGC and University are strictly followed. Approximately 30% of the faculty is engaged in guiding Doctoral Degrees.

Recommendations of the research committee –

- Publication of Proceedings of XIth Young Scientists' Congress – the research committee recommended the publication of proceeding of XIth Young Scientists' Congress which was organized by our College on 28.02.2013 - 01.03.2013. The committee is in the process of getting an ISBN number for publication of the proceedings. Chhattisgarh Council of Science and Technology has provided financial assistance for its publication.
- The Research committee is planning to publish a Research Journal from the College.
- Setting up of research centres for all subjects
- To improve and strengthen research culture
- To motivate faculty for major and minor research projects

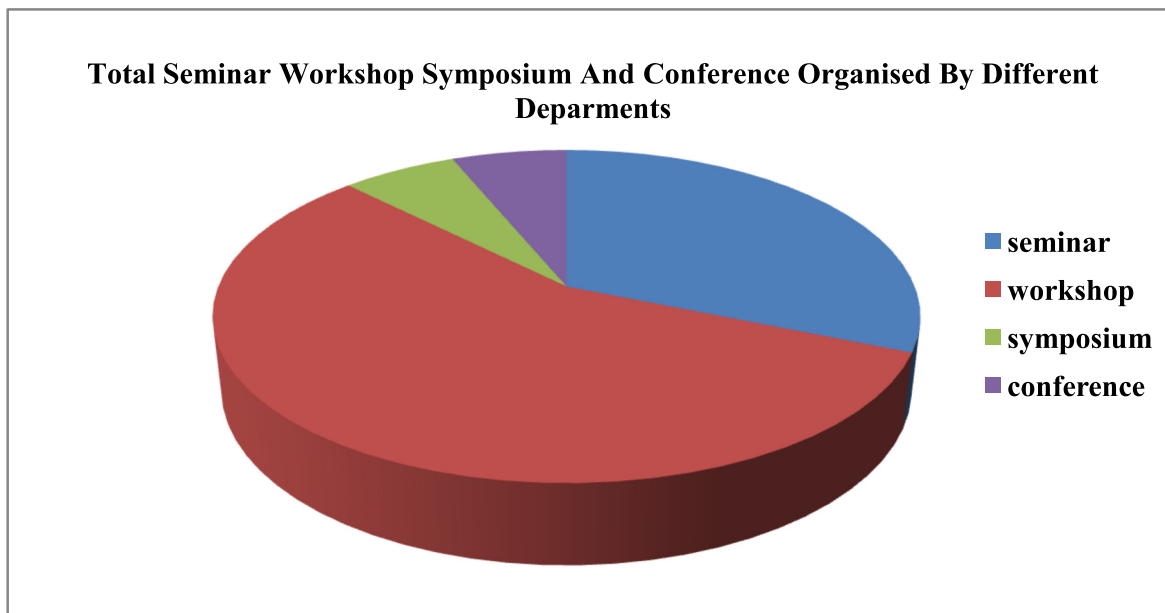
3.1.2 What is the policy of the College to promote research culture in the College?

There is a clear cut transparent policy of the College to promote research. All the faculty members are encouraged and motivated to carry out various research activities. Journals, magazines and books of national and international reputation are available in the College library for the use of researchers and students. There is a Central Instrumentation Laboratory in the College to promote interactive interdisciplinary research. The College provides a conducive environment to carry out research work and organize different research activities like workshops, symposia, seminars and conferences at regional, state and national level.

The College hosted the XIth Young Scientists' Congress. It was a rare honour as it was for the first time that any College of the state was given this opportunity. The XIth Young Scientists Congress- 2013 was organized on 28th February and 1st March 2013 in association with Chhattisgarh Council of Science and Technology. It is a very prestigious state level event to promote young talents in 15 diverse fields of research.

During the last 5 years different departments organized research conferences/seminars/workshops/symposium

Departments	Seminar	Workshop	Symposium	Conference
Physics		-	-	01
Chemistry	01	-	01	
Maths	-	02	-	
Botany	01	02	-	
Zoology	-	01	-	
Defence studies	-	03	-	
Library	01	01	-	
Sports	01	-	-	
English	01	-	-	



The continuous and constant encouragement by the College has yielded the following result

- One faculty member has been awarded D.Litt.
- 08 Faculty members and 02 sports officers have been awarded Ph.D. during the last 5 years.
- 65 Faculty member and research scholar have been registered for Ph.D. during the last 5 years.
- 66 Research scholars have been awarded Ph.D. during last 5 years.
- 22 faculty members are enrolled as supervisors for the guidance of Doctoral thesis.

3.1.3 List details of prioritized research areas and the areas of expertise available with the College.

Our College is a research centre for 07 subjects, viz. Botany, Chemistry, Zoology, Physics, Mathematics, Defence Studies and Geology. Each subject has its own specific prioritized area. The department of Defence Studies is carrying out the researches primarily based on the threats of Naxalism. Departments of Botany and Zoology are concerned with biodiversity, conservation and protection of flora and fauna from diseases. Similarly other departments are dealing with specific areas of research with definite scientific, social, academic and economic impact.

Department	Prioritized Research Areas
Chemistry	Synthesis & Kinetic study of hydroxamic acid, spectrophotometric study of common ions in pesticides, drugs

Physics	Non linear dynamics, econophysics, condensed matter Physics
Mathematics	Fix point theory, simulation, mathematical modeling
Botany	Environmental science, Aerobiology, Mycology, Seed pathology
Zoology	Fish Biology
Defence Studies	Maoist insurgency
Geology	Sedimentology
Hindi	Hindi Literature
English	Contemporary literature, Indian writing in English, American literature

3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?

- Advancing funds for sanctioned projects
- Providing seed money
- Autonomy to the Principal investigator/coordinator for utilizing overhead charges
- Timely release of grants
- Timely auditing
- Submission of utilization certificate to the funding authorities

The Head of the Institution encourages the faculty members to pursue research. To facilitate smooth progress in research-

- Faculty members attend seminars and workshops related to research
- Faculty members who have registered for Ph.D. are given conducive atmosphere and support to carry out their research.
- By providing adequate infrastructure.
- Well equipped laboratory facility.
- Faculty members can avail the facility of well enriched library
- The Principal always supports the faculty members who have major or minor research projects by ensuring timely release of resources and by facilitating timely auditing and submission of utilization certificate to the funding authorities.
- Study leave is sanctioned if needed

3.1.5 How is interdisciplinary research promoted?

- Between/among different departments of the College and
- Collaboration with nation/international institutes/industries.

The College has both traditional and modern science streams, with well equipped research facilities in each department as well as a Central

Instrumentation Laboratory, hence the ambience provided gives a conducive atmosphere to interact and blend with other disciplines. As areas of research are widening, the scope of interaction among subjects is increasing. Interactive researches between Botany and Chemistry, Chemistry and Physics have resulted in Ph.D. degrees. Similarly, interactive researches among different departments, for example, Botany and Physics, Zoology and Defence Studies have resulted in research paper publications and poster presentations in national seminars and symposia. One student of the College has received the best paper presentation award in the State Young Scientists' Congress.

A few departments of the Pt. Ravishankar Shukla University, Indira Gandhi Krishi Vishwa Vidyalaya, Raipur, Medical College, Ayurvedic College, certain industries near Raipur, RDVV, Jabalpur (M.P.) cooperate with the College by providing research facilities whenever needed. Faculty members who are actively engaged in research are involved in creating a healthy culture of sharing innovative ideas so that interdisciplinary research is promoted which is beneficial for the students and society. The Central Instrumentation Laboratory equipped with updated hi tech equipment and state of the art applications to promote interactive and interdisciplinary research.

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

The Scientists and researchers of eminence are regularly invited by organizing guest lecture series where they directly interact with the faculty and students. They share their knowledge and help in creating a suitable climate for learning.

The XIth Young Scientists' Congress was organized by the College with the collaboration of Chhattisgarh Council of Science and Technology on 28th February - 1st March 2013 under the chief patronage of honorable minister of Higher Education, Shri Ramvihar Netam and Joint Patronage of Professor M.M. Hambarde, Director General, Chhattisgarh Council of Science and Technology and Professor K.N. Bapat, the Principal. The Congress, in which many eminent scientists were present, was inaugurated by honorable Governor of the state Shri Shekhar Dutt. The Key Note Address was given by Dr. T.G.K. Murthy, fellow Indian Academy of Sciences, Scientific adviser (ARCI) DST Govt. of India, and former Director (ISRO). The Invited lecture was given by Dr. C.V. Chelpathy Rao from NEERI, Nagpur. Dr Bal, Vice Chancellor of Vivekanad Technical University, Raipur and Dr Patil, Vice Chancellor of Indira Gandhi Krishi Vishwavidyalaya graced the occasion by their presence. Dr. V.P. Saxena, ex- Vice Chancellor, Jiwaji University, Gwalior, and Dr. Kamal Singh Ex-Vice Chancellor of SGB Amravati University, Amravati also attended the Congress.

Eminent personalities from different fields are also invited from time to time in the Seminars, Symposia, Conferences and workshops to share their views in their specific research areas.

3.1.7 What percentages of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

About 5% of the faculty has utilized leave for research activity. Leave with pay is granted for the stipulated period to complete research work for Doctoral degree as per the Government rules and regulations. The faculty members engaged in active research take leave to visit different institutes and Research Labs for quality research.

3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events.

We have conducted following National Seminars/Symposia/Workshop/Conferences during the last 05 years

Name of Department	Workshop / seminar	Date	Title	Funding agencies	Outstanding speakers
Botany	National Seminar	29 and 30 th January 2008	Botanical researches present scenario and future prospects	1. UGC 2. Chhattisgarh council of science and technology 3. College Janbhagidari	1. Dr. B.D. Singh (BHU Varanasi, U.P.) 2. Dr. S.P. Bajpai (Dr Hari Singh Gour University, Sagar, M.P.)
Botany	National Workshop	8-11 th January 2013	Hands on DNA Technology	1. UGC 2. Janbhagidari Samiti	1. Dr. T. Shrinivasu, Nagpur University 2. Dr. Dandapat Utkal University, Bhubneshwar Odisha
Botany	State Level Workshop	4th-7 th August 2011	Hands on workshop on DNA technology	1. College Janbhagidari Samiti	1. Dr. Vipul Talukdar Department of Biochemistry Pt. JN Medical College Raipur, C.G.

Chemistry	National Seminar	17 th – 18 th October 2008	National seminar on medicinal value of Drugs extracted from plants of Chhattisgarh forest	1. CGCOST 2. UGC 3. Higher Education Department	1. Prof. Tarshankar Paul, IIT Kharagpur, W.B. 2. Prof. Kajasomshekhar Rao Nagarjuna University (A.P.)
	National Symposium	24 th - 25 th April 2012	Non polluting energy sources	1. CGCOST 2. Janbhagidari samiti	1.Prof. Kishor Arora, Ditiya (M.P.) 2.Dr. K.K. Ghosh SOS in Chemistry RSU Raipur
Defence Studies	National Workshop	10 and 11 th September 2008	Application of Remote Sensing Technique in the Regional Strategic Planning and Management	1. UGC 2. CGCOST	1. Dr. Sanjay Kumar, Professor, Meerut College, Meerut, UP 2. Dr. Krishna Nand Shukla, Professor, Pt Jawaharlal Nehru College, Maharajganj, UP, 3. Dr. Surendra Kumar Mishra, Government College, Hissar, Haryana
	National workshop	3-4 th February 2012	Naxal Challenges	1. UGC 2. Janbhagidari Samiti	1. Professor Girish Sharma, OSD, Higher Education, Gwalior, MP 2. Dr. Vishnu Kant Sharma, Government MLB College, Gwalior, MP, 3. Dr. Ashok Sharma, professor, Government MLB College, Bhopal,
	National Workshop	11 th - 12 th September 2013	Maoist Insurgency and State's Response"	1. UGC 2. CPE	1. Dr. Kailash Tyagi, Prof., Government MLB College, Bhopal, MP, 2. Dr Samir Bhargava, Prof., MMS College, Gwalior, MP, 3. Dr Alok Tripathi, Prof. , JainMahavidyalaya, Bhind
English	National seminar cum	01 and 02 February	Quality enhancement in Higher	1. Govt. Higher Education	1. Dr. Mungekar 2. Dr. Uday Jain Former Vice- Chancellor Viram

	workshop	2008	Education and NAAC assessment		University 3. Dr. P.K. Choudhary Howrah(WB)
Library	National Workshop	11-12 th September 2013	Automation of Library	1. UGC - CPE	1. Dr. Salini Nihitkar HOD Library and information Science(Nagpur) 2. Dr. R. K. Mishra HOD Library and information Science(Allahabad 3. Dr. Bhasker Mukherjee Central University Bilaspur
	National Seminar	26-27 th October 2013	Library initiatives in Digital ERA	1. UGC - CPE	1. Dr. Bulu Maharana Sambalpur University 2. Dr. Brijesh Tiwari Central University Bilaspur 3. Dr. Raj Kishor Nagpur
Mathematics	National Workshop	12-14 October 2012	Application of Mathematics in different fields of Science	1. UGC CRO Office Bhopal(M.P.) 2. Chhattisgarh council of science and technology 3. College Janbhagidari Samiti	1. Dr. V. P. Saxena 2. Dr. Aparajita Ojha (Director IIITDM Jabalpur) 3. Dr. S. Nanda (IIT Kharagpur)
	National Workshop	6-7 September 2013	Mathematical Modelling For Stochastic And Fuzzy Systems	1. UGC (Under CPE Scheme) 2. College Janbhagidari Samiti	1. Dr. V. P. Saxena (Ex V.C. Jiwaji University MP) 2. Dr. Sandeep Tiwari (Vikram University Ujjain) 3. Dr. M. K. Tripathi (NIT Raipur)
Physics	National conference	15 th – 16 th march 2011	National conference on advances in Physics	1. CGCOST and UGC	1. Prof. B.P. Chandra 2. Prof. R.C. Agrawal
Sports	National seminar	21 st -22 nd January 2011	Challenges of Physical education & sports	1. UGC 2. organized by department of physical education	1. Major General Former Vice Chancellor, LNUPE, Gwalior (MP) 2. Shibnath

				& sports, Government Nagarjuna PG College of Science, Raipur(CG)	Mukherjee Former Vice Chancellor, LNUPE, Gwalior (M.P.) 3. Dr.J.S. Naruka Professor, LNUPE, Gwalior (M.P.)
Zoology	National Workshop	April 2010	Workshop on Molecular Biology	1. UGC 2. CPE 3. College Janbhagidari Samiti.	Padmashri Dr. A. T. Dabke (Vice Chancellor Ayush Vishwavidyalaya, Raipur Dr. A. K. Pati (Pt. RSU, Raipur) Dr. A. K. Gupta (Pt. RSU, Raipur
	National Workshop	19-21 March 2012	National Workshop on Basic Immunologica l techniques	1. UGC 2. CPE 3. College Janbhagidari Samiti	Dr. Sahu (MATS Univ.) Dr. S. K. Pandey (Vice Chancellor, Pt. Ravishankar University, Raipur)

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land)

Botany- The researches going on in Botany are focused on Plant Biodiversity, their ethno botanical and medical significance, listing of threatened species and the various measures to protect and conserve the plants creating social awareness among the students and researchers. Researches on protection of plants from different microbial diseases enhance the crop production. Cultivation of edible mushrooms is an important research area connecting researchers with farmers and other communities.

English- The researches going on in English are focused on raising awareness of Literature as a medium to analyze gender issues, women empowerment, eco criticism, psychoanalysis, Culture, and several social issues. Research on Contemporary Literature and English Language Teaching are important upcoming areas that reach out to the world.

Defence Studies – The department carries out researches on Maoist insurgency, the burning issue of Chhattisgarh. Military psychology, Naxal weapons and mine ambush are a challenge for both the State and Central Government. The department is trying to find solutions for these problems.

Geology – The Department is mainly working on the aspects of sedimentology (incorporating underground rocks, stones, crystals and gems); Research project on identification and diagnostic properties of cement grade limestone has been beneficial for mineral and other resources of Chhattisgarh which has positive impact on socio-economic development. Studies on Hydrogeology have emphasized the availability and quality of ground water, and the uses of the water. Another important project has been on the use of abandoned quarries which can be used as recharge pits and enhance the water table level of surrounding areas.

Zoology – The research areas are Animal Diversity, and Fish Biology. The work is beneficial to fish farmers and helps trace out causes of fish decline. The identification and protection of threatened animal species is another area where research in Zoology makes valuable contribution.

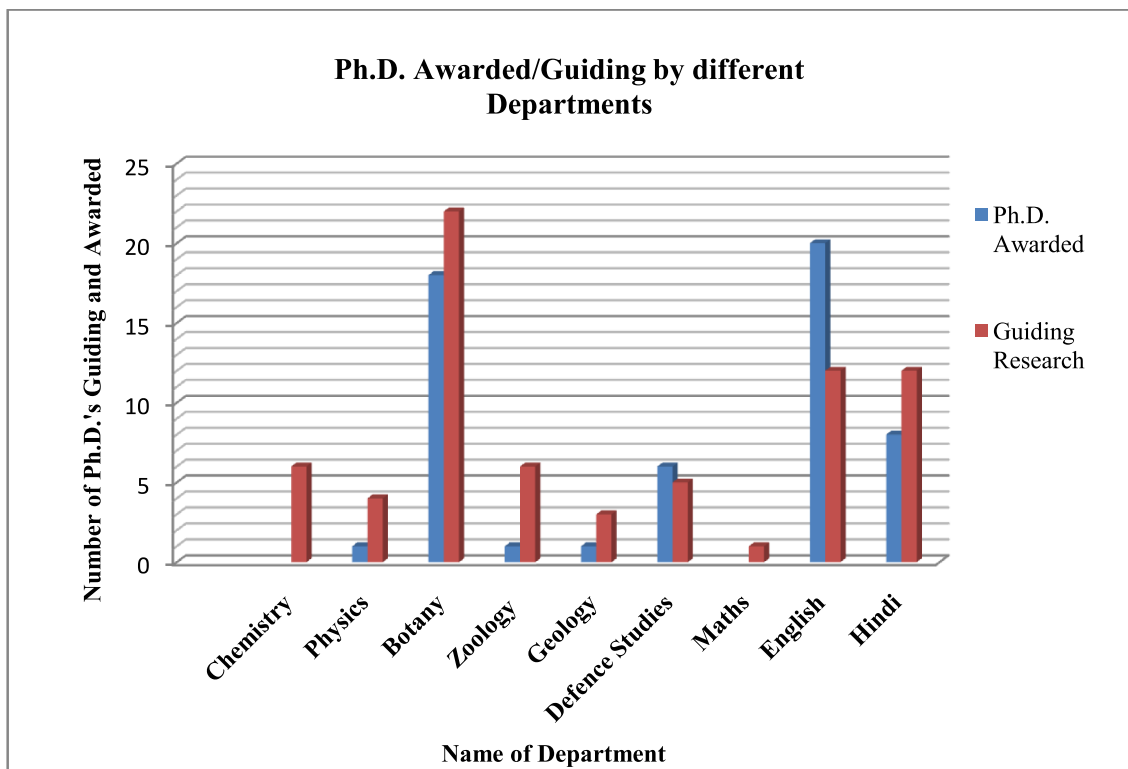
Chemistry – Researchers are working on the impact and hazards of pollution, and harmful effects of common ions on pesticides and drugs.

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

The faculty is actively involved in research and guiding for Doctoral degree

Faculty	Department	Ph.D. Awarded	Guiding Research	Thesis submitted
Dr. K.N. Bapat	Chemistry	-	02	
Dr. K.K. Tiwari	Chemistry	-	04	
Dr. A.K. Jaiswal	Physics	01	03	
Dr. B.G. Sharma	Physics	-	01	
Dr. Rekha Pimpalgaonkar	Botany	01	02	01
Dr. R. Diwan	Botany	07	03	
Dr. V.K. Kanungo	Botany	10	08	03
Dr. N.B. Singh	Botany	-	01	
Dr. Sunita Patra	Botany	-	06	
Dr. Seema Gupta	Zoology	01	02	
Dr. Renu Maheshwari	Zoology	-	04	
Dr. Rajiv Guhe	Geology	01	03	
Dr. G.K. Pandey	Defence Studies	06	02 Post Doctoral Fellow, 03 for Ph.D.	

Dr. M.S. Gupta	Maths	-	01	
Dr.(Mrs.) Shukla Bannerji	English	12	06	
Dr.(Mrs.) Savita Singh	English	08	06	
Dr.(Mrs.) Renu Saxena	Hindi	06	06	
Dr.(Mrs.) Vandana Kumar	Hindi	02	06	



3.2 RESOURCE MOBILIZATION FOR RESEARCH

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

As such there is no separate budget for research activity. However our College has been recognized as a college with Potential for Excellence. CPE grant is released from time to time and it is utilized to generate resources to develop modern hi-tech laboratories, organize invited lectures, workshops, and extension activities in the form of visits to villages.

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

Students are always promoted to carry out research projects. In some of the subjects like Biotechnology, Defence Studies and Geology for the entire IVth semester, students visit different research laboratories or industries to complete their research project. The research findings are compiled in the form of a dissertation.

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

Nil

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

The faculty is aware of patents and efforts are being made in this direction.

3.2.5 Provide the following details of ongoing research projects:

Ongoing research projects

	Year wise	Number	Name of the project	Name of the funding agency/ industry	Total grant received
A. Other agencies- national and international (specify)					
Post Doctoral Research Fellowship	2013	02	1. Hkkjr&ckjXykn"s"klaca/k&pqukSfr;kj,oa lek/kku 2. Mental Condition of Security forces in Naxal conflict zone of C.G.	Indian Council of Social Science & Research	3,56,000 3,56,000
Minor project	2013	01	1. Application of lie detectors during the interrogation of insurgents	Chhattisgarh Council of Science and Technology	5,00,000

Proposals Submitted

Department of Biochemistry has submitted 02 research projects for acceptance

- Major research project entitled “The analysis of cause of declining population of endangered tribal species of Chhattisgarh with respect to MTHFR 677C>T Polymorphism” of 23 lakhs to DBT.
- Minor research has been submitted to Chhattisgarh council of science and technology entitled “Interrelationship between elevated Homocysteine concentration life style and socioeconomic factors with Mental retardation in mothers and children of Chhattisgarh region” of 05 lakhs.

Department of Chemistry has submitted 01 research project for acceptance

- Major research project entitled “Development of a method for a fast and simple detection of oxytocin concentration in milk via complex formation” of Rs 14, 87, 800/-

3.2.6 How many departments of the College have been recognized for their research activities by national/international agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of

assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

- Altogether 07 departments of the College get financial assistance from UGC-SAP. CPE grant is also released from time to time by which the laboratories get established and equipped for post graduate students and research scholars.
- Department of Defence Studies have been recognized by ICSSR for granting post Doctoral fellowship worth Rs. 3,56,000 each to 02 post Doctoral fellows
- Central Instrumentation Laboratory has been built up and furnished with modern, hi-tech instruments with the help of a grant released by UGC.
- Department of Botany has developed its own well equipped research laboratory by getting the financial assistance from UGC.

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/International agencies.)

Name of the Investigator	Department	Title of the Project	Duration	Funding agency	Amount sanctioned
Dr. N.B. Singh	Botany	Studies on Aerosol and Airborne Allergens in relation to meteorological factors Meteorological factor	2008-09	CG COST	370000
Dr. N.B. Singh	Botany	Development & standardization of micropropagation protocol for banana & sugarcane	2008-09	CG COST	370000
Dr. Sunita Patra	Botany	Circadian profile of nitrate reductase enzyme in <i>Jatropha curcas</i>	2008-10	CG COST	164000
Dr. Rajiv Guhe	Geology	Proterozoic columnar stromatolites from Jagdalpur formation, Indravati group, Chhattisgarh, India	2008-09	UGC MRP	85000

Dr. Rajiv Guhe	Geology	Stromatolites from rehatikhol formation, singhora group, Chhattisgarh supergroup, their Implication on Palaeoenvironmental condition	2010-11	UGC MRP	82000
Dr. Seema Gupta	Zoology	Effect of medicinal herbs Cynodon dactylon and Achyranthus aspara on haematological immunological, histological and biochemical properties of Indian walking cat fish Clarias batrachus	2011-13	UGC	127500
Dr. Preeti Mishra	Zoology	Effect of Eclaphya alba on haematological aspects of Indian walking cat fish – Clarias batrachus and Clarias gariepinus	2009-11	UGC	85000
Shri Ashok Pandey	Zoology	Study of the impact of Bioweapons and designing strategic control measures during Bioterrorism threats.	2009-11	UGC	55000
Shri Ashok Pandey	Zoology	Study of plant Tinospora cordifolia extract on growth haematological and histological aspects of Indian walking cat fish Clarias batrachus	2010-12	CG COST	95000

3.3 RESEARCH FACILITIES

3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

The College has a positive attitude to keep pace with the infrastructure requirements to facilitate research. Research labs with proper infrastructure are developed in all the departments to facilitate research. New research lab have been constructed in Botany and a Plant Tissue Culture Laboratory is being developed.

3.3.2 Does the College have an information resource center to cater to the needs of researchers? If yes, provide details on the facility?

The College does not have an information resource centre.

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

The College provides computer and internet facilities to research scholars and faculty.

3.3.4 Does the College have a specialized research centre/workstation to address challenges of research programmes? If yes, give details.

Our College is the biggest science College of the state with specialized research centres in 07 subjects and a well equipped Central Instrumental Laboratory which can meet the research requirements of research scholars in all subjects.

3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

The College has research facilities of national repute. All the departments have well developed infrastructure, rich departmental library and all the modern tools and techniques mandatory for research. There is a Central Instrumentation Laboratory for the fulfillment of the needs of research in all streams of science. The library with INFLIBNET services and a huge stock of classic and latest books available for research scholars and faculty adds to the smooth facilitation of research. This facility attracts faculty of other Colleges to enroll themselves at the Research Centres of the College for Doctoral degree.

3.4 RESEARCH PUBLICATIONS AND AWARDS

3.4.1 Highlight the major research achievements of the College through the following:

- Major papers presented in regional, national and international conferences
- Publication per faculty
- Faculty serving on the editorial boards of national and international journals
- Faculty members on the organization committees of international conference, recognized by reputed organizations/societies.

All together- 310 Research papers have been published in regional, national & international level during last five years.

Some of faculty members have been included in the editorial board of refereed journals.

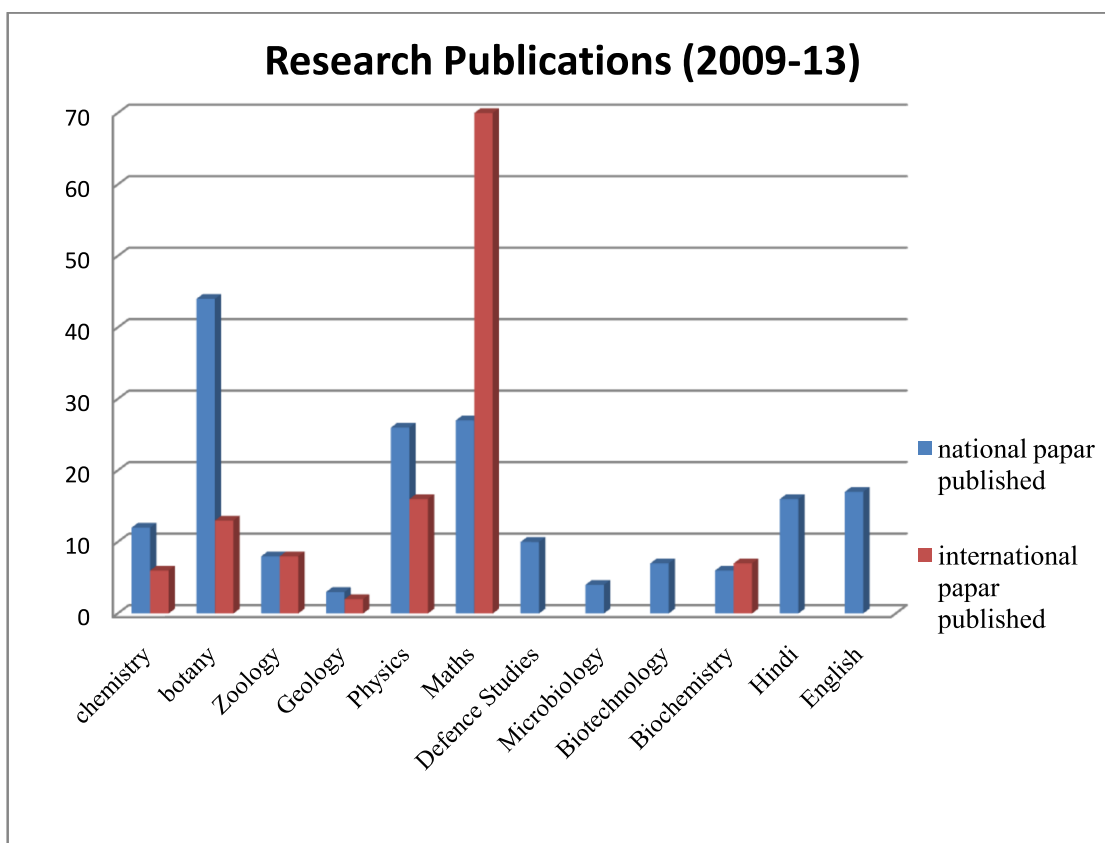
Faculty members actively participate as Convener, co-convener etc. organizing committee member for the successful commencement of any research activity like seminar, and symposia etc. In 2012-2013 our College hosted XIth state Young Scientists Congress incorporating 15 different subjects involving a good number of scientists and budding research scholars of diverse fields

Research Publications (2009- 2013)

Name	Department	Papers Published		Paper Presented.		Books	Invited Lectures
		National	Inter national	National	Inter national		
Dr. K.N. Bapat	Chemistry	07				04	05
Dr. K.K. Tiwari	Chemistry	-	01				
Dr. S.K. Patle						08	
Dr. Deepak Sinha	Chemistry	02	03				01
Dr. Sanjay Ghosh	Chemistry	03	02				
Dr. Rekha Pimpalgaonkar	Botany	03	01	02			01
Dr. Vipra Kohli	Botany	05	-				
Dr. R. Diwan	Botany	12	-	03			04
Dr. V.K. Kanungo	Botany	12	06	10			06
Shri Avinash Sharma	Botany	-	01				
Smt. Sangeeta Bajpai	Botany	01	01				
Name	Department	Papers Published		Paper Presented.		Books	Invited Lectures
		National	Inter national	National	Inter national		
Dr. N.B. Singh	Botany	03	-			05	
Dr. Sunita Patra	Botany	08	04	03	03		13
Dr. Seema Gupta	Zoology	04	02	06			
Dr. Renu Maheshwari	Zoology	01	01	04	-		04
Dr. Priti Mishra	Zoology	02	02	-	-	-	-

Shri Ashok Pandey	Zoology	01	02	-	-	01	-
Dr. Kavita Das	Zoology		01			01	04
Dr. Rajiv Guhe	Geology	03	02	03		01books chapter 01(Edit or of research journal	
Dr. A.K. Jaiswal	Physics	03					
Prof. A.C. Biyani	Physics					04	
Dr. B.G. Sharma	Physics	-	16	12	02		04
Dr. Samir Thakar	Physics	06		02			
Dr. Alok Luka	Physics	10					
Dr. Sanjay Dubey	Physics	07					
Dr. S.K. Bhatt	Maths	02	01				04
Dr. G.S. Saluja	Maths	18	64	02			
Dr. B.P Tripathi	Maths	04	03				
Shri R.A. Siddiqui	Maths	01	-				
Dr. M.S. Gupta	Maths	02	02				05
Dr. Varsha Karanjgaonkar	Maths					Book with ISBN number - 02	03
Dr. G.K. Pandey	Defence Studies	10	-			Book chapter 02 01 edited books with ISBN No 02 INT Database - 01	06
Name	Department	Papers Published		Paper Presented.		Books	Invited Lectures
		National	Inter national	National	Inter national		
Dr. Sadhana Jaiswal	Microbiology	04	-	02			
Mrs. Sanjana Bhagat	Biotechnology	07	-	01			
Dr. Mrigendra Dwivedi	Biochemisty	06	07				

Dr. Shukla Banerjee	English	05				Editorial Board of journal	10
Dr. Savita Singh	English	06	-	05	--	Books with ISBN - 01 Chapters in Books – 01 Edit Journal	05
Dr. Rita Soni	English	04	-	03	-	Chapters in Books - 01	02
Dr. Harsh Sharma	English	02	-		-	Chapters in Books - 01	03
Dr. Renu Saxena	Hindi	09	-	04	-		01
Dr. Vandana Kumar	Hindi	07	-	14	-	02	01



3.4.2 Does the College, publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

The College is going to publish proceeding incorporating all the awarded research papers in the XIth Young Scientists' Congress organized by the College. The College is planning to publish a research journal of its own shortly.

3.4.3 Give details of publications by the faculty:

- Number of papers published in peer reviewed journals (national/international)

National – 180

International – 130

- Monographs- Nil
- Chapters in Books - 06
- Editing Books- 21
- Books with ISBN numbers with details of publishers- 05
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) - **Data is not available**

- Citation Index – range/average- **Data is not available**
- SNIP- **Data is not available**
- SJR- **Data is not available**
- Impact factor - range/average - **Data is not available**
- H-index- **Data is not available**

3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.

List of Successful Ph.D. scholars guided [last 05 years]

Faculty	Department	Ph.D. Awarded	Thesis Submitted
Dr. A.K. Jaiswal	Physics	01	-
Dr. Rekha pimpalgaonkar	Botany	01	01
Dr. R. Diwan	Botany	04	-
Dr. V.K. kanungo	Botany	05	02
Dr. Seema Gupta	Zoology	01	-
Dr. Rajiv Guhe	Geology	01	-
Dr. G.K. Pandey	Defence Studies	02	-
Dr.(Mrs.) Shukla Banerjee	English	10	-
Dr.(Mrs.) Savita Singh	English	06	-
Dr.(Mrs.) Renu Saxena	Hindi	06	-
Dr.(Mrs.)Vandana Kumar	Hindi	02	-

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

The College follows a strict policy to check malpractices and misconduct in the field of research. The College strictly abides by the rules and regulations and policies laid down by the University. The check points are during the DRC and RDC. The College carefully and stringently checks Attendance, Laboratory work, originality of research work, and the malpractice of plagiarism.

3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental/ inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.

The College promotes and is committed to inter disciplinary research. There is a completely conducive atmosphere for interdisciplinary research resulting in awards of a few Ph.D's, several research paper presentations, and publication in research journals and also in winning a best paper presentation

in the state level Young Scientists Congress. Our College nurtures the scope of being very interactive, creating a healthy culture of sharing innovative ideas which help to create a suitable climate for interdisciplinary research. Almost all the departments of the College are involved in such endeavours.

3.4.7 Mention the research awards instituted by the College.

None

3.4.8 Provide details of

- Research awards received by the faculty
- Recognition received by the faculty from reputed professional bodies and agencies

The following Research Awards have been received by the faculty/ research scholars:

- Hemlata Rawte received Rajeev Gandhi National Fellowship of Rs 2 Lakhs granted by UGC in Botany
- Rachna Jury received Rajeev Gandhi National Fellowship of Rs 2 Lakhs granted by UGC in Zoology
- Vernika Sharma – 1st Prize in best paper presentation in XIth State Young Scientist Congress 2013 Raipur in Defence Studies
- Sushma Patel – 2nd Prize in Young Scientists' Award in Botany in a National Seminar organized by Government PG College, Narsinghpur, MP
- Harishankar Prashad – 3rd Prize in Young Scientists' Award in Botany in National Seminar organized by Government PG College, Narsinghpur, M.P.

The following faculty members have received recognition from reputed agencies:

- Lion's club honoured Professor K.N. Bapat by Shikshak Samman (f'k{k d IEEkku 5 flrEcj 2013)
- Rotary club also honoured Professor K.N. Bapat for his excellent teaching on 5th September 2013
- Maharashtra Mandal, Raipur honoured Principal K.N. Bapat for his contribution in teaching.
- Dr GS Saluja was nominated for the Narsingarao Prize for Best Paper by The Indian Mathematical Society
- 3 faculty members were also honoured by Lion's club and Rotary club for their contributions in teaching & research.
- Fellow of Botanical Society (FBS) awarded to Dr. R. Diwan and Dr. Sunita Patra by Indian Botanical society.

3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

UGC norms for promotions are incentives.

3.5 CONSULTANCY

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

The College is a government organization therefore consultancy services on payment basis are not allowed.

3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?

The College does not have a College-industry cell.

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Consultancy has not been sought from any department.

3.5.4 How does the College encourage the faculty to utilize the expertise for consultancy services?

Since the College is Government organization there is no such provision.

3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

Nil

3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY (ISR)

3.6.1 How does the College sensitize the faculty and students on institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

The College is actively involved in sensitizing the faculty and students on institutional responsibilities by participation in the programmes of the NCC,

NSS, Youth Red Cross, Red Ribbon Club and Equal Opportunity cell. Faculty members engage students in community development programmes.

Different social outreach programmes are –

National Service Scheme

- Tree plantation programmes
- Camps for awareness of sickle cell anaemia
- Traffic control during festivals/rallies
- Camps cleaning drives
- Participation in National level camps
- Join Pulse polio campaign
- Celebrate environment day, ozone day, no smoking day etc.

Youth Red Cross

- Organize health camps
- Blood donation camps
- Pulse polio programme
- Health check up camp during Rajyoutsav etc.

Red Ribbon Club

- World AIDS day
- Lecture on HIV-AIDS
- Attended cancer awareness programme
- Visit Red Ribbon express
- Organize health check up camp

National Cadet Core

- Celebrate flag day
- National camps
- State level camps
- Traffic control during festivals
- Republic day parades in Raipur
- Pulse polio abhiyaan

Equal Opportunity Cell

- Awareness of rights of ST/SC/OBC/Girls/physically handicapped
- Awareness programmes for Girls
- Human rights day
- Employment opportunities awareness through lecture and seminars
- Grievance redressal of under privileged
- Awareness of availability of special opportunity

3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?

The College contributes to the neighbourhood network in many ways so that it contributes to community development:

- Promotion of Scientific Temper in Rural and Tribal Areas, a programme pursued by the Department of Defence Studies
- NCC camps serve in nearby villages
- NSS activities in the neighbourhood
- YRC activities related to Blood donation
- ELT@I (English Language Teachers' Association of India) Raipur Chapter activities by English Department faculty outside the campus
- Environmental awareness programmes
- Gender sensitization programmes
- Enthusiastic participation in all the cultural activities of the University

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

The faculty and students are encouraged to participate in all the extension activities and programmes organized by NCC, NSS, YRC, and Red Ribbon Club.

- The NSS is a very active unit involving a large number of UG and PG students. Camps are organized every year in the adjoining areas of Raipur where NSS in charge involve students in various social and welfare activities. Awareness of Sickle Cell anemia, an ailment of Chhattisgarh is made through various programmes. Pulse Polio, Celebration of important days, tree plantation activities, and visits to government schools are a regular activity.
- Red Ribbon Club raises awareness of AIDS through camps, talks and village visits.
- Youth Red Cross has a large number of students who regularly participate in extension activities like blood donation camps, and organizing talks on different important relevant issues.
- NCC has Signals, Air, and Infantry wings and a large number of students are involved in Pulse Polio programmes, Traffic Control plans, Republic Day parades and other NCC activities. Girls enrollment in NCC has increased.

- The Principal and other faculty members also visit the camp to motivate the students as well as to participate in such social endeavors. On personal levels many faculty members are rendering service: free coaching/ guidance/ books/ donations/ fees /social service groups.

Some other noteworthy extension activities of the College are as follows:

- The Department of Botany organized a campaigning programme under the UGC-CPE scheme in Jamgaon, 20 kms from Raipur, to create a general awareness among the school going children. The talks were on anti- alcoholism, environment protection, conservation and health awareness. The PG students and faculty put up small skits, made power point presentations, displayed posters to create awareness. Small tokens were given as gifts to the children. 50 saplings were planted on the premises of the school.
- The Department of Zoology organized two camps for social work under the UGC-CPE scheme. The faculty and PG students visited two villages near Rajim and Dhamtari, and enlightened the villagers on environment issues related to use of plastic, harmful effects of pesticides, the benefits of vermicompost, and the evils of alcohol and tobacco. Nukkad nataks were used to convey the ill effects of child marriage.
- The Department of Defence Studies has a programme under which the faculty and PG students visit rural areas and try to promote the scientific temper. An attempt is made to promote the importance of Science education; awareness of job opportunities in the field of Science; the uses of Science in driving away superstitions and malpractices in villages. The team visits villages and talks to students from class IX to XII in Government schools.

3.6.4 Give detail on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable section of society?

The College does not conduct surveys and research activities. However the College has an Equal Opportunity Cell which organizes lectures to raise awareness of Human Rights and social justice.

3.6.5 Give detail of awards/recognition received by the College for extension activities/community development work.

Some of the faculty members have received awards for community development and social work.

- Dr. Renu Saxena received Rashtriya Vidha Saraswati Puruskar(jk'V^ah; fo|k ljLorh iq:Ldkj) from institute of Education management New Delhi.

- Dr Renu Saxena was honoured by the Indian Medical Association for her contribution to health services
- Dr. Renu Saxena received State level Dharti Putra Samman (/kjrñ iq= lEeku) 2013.
- Sport officer Dr. Vishnu Shrivastava has been appointed as –
 - a. Executive member- Indian Triathlon Federation
 - b. Treasurer, Chhattisgarh Olympic Association
 - c. Secretary, Chhattisgarh Triathlon Association
 - d. Secretary, Chhattisgarh Squash Association
 - e. Secretary, Chess Association of Chhattisgarh.
 - f. Vice –President, Chhattisgarh Motors Sports Association
 - g. Treasurer of National handball championship held in the year 2005
 - h. Chief Coordinator of National super cross bike racing Championship
 - i. Worked as main organizing committee member in the following
 - Senior national Volleyball (M/W) championship held in Dec. 2006.
 - Senior national Netball (M/W) championship held in Dec. 2006.
 - National Archery (M/W) championship held in 2006-07
 - j. Only sports officer to represent India one in International Seminar on “The Olympic Values Education Program”, organized by International Olympic Committee in cooperation with the National Olympic Committee, Zambia at Lusaka held on 04th to 06th January, 2012.

Many students of the College have received Awards –

- NSS cadet, Durgawati Patel was awarded by the President and the Vice President at New Delhi in the Republic Day parade in 2012.
- Durgawati Patel was awarded the Best NSS Cadet by Honorable Governor, Chhattisgarh in 2011
- Many other students of NSS have represented the College/ State/ University and won prizes for their performances in various activities.
- NCC cadets have received awards at the Raj Bhawan, Raipur. Some cadets have represented state at New Delhi.
- NCC cadets have joined the Indian Army.

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

The extension activities enhance learning experiences by inculcating values of nationalism, social consciousness, environment awareness, humanity and compassion, responsibilities of citizenship, and service to society. The skills students develop through these activities are life skills. They learn to interact, participate and work with people from different sections of society and different states. They develop sympathy, confidence, appreciation of diversity,

and grow on a personal level. These extracurricular activities leave an indelible mark on their personality and thought process.

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

The outreach programmes of the College function smoothly due to the close links of the College and the community. The College participates in all the government programmes related to social upliftment and support. The College plays a leading role in all state cultural, social and sports endeavors.

3.6.8 Does the College have a mechanism to track the students' involvement in various social movements/activities which promote citizenship roles?

The professor in charge of NSS/ NCC/ YRC keep a record of students' involvements in social activities.

Students are actively involved in various social movements and bring laurels to the institution

- Bonnie Upadhyay got first prize in Extempore inter College competition organized Election Commission of India
- Santosh Mourya got second prize in Extempore inter College competition organized by the Election Commission of India.
- Students actively participated in SVEEP (Systematic Voters Education and Electoral Participation) which is a central Government programme to involve youth for fearless voting and to increase percentage of voting. Several activities were organized – Quiz, Rangoli, Poster, Slogan & Speech competitions. Dr. Sushil Trivedi, I.A.S., Ex. Chief Election Officer Chhattisgarh addressed the faculty members and students and explained in length about voters awareness.

3.6.9 Give details on the constructive relationships (if any) with other institution in the nearby locality in working on various outreach and extension activities.

The College works in close association with the Pt Ravishankar Shukla University, Chhattisgarh State Programmes, other State Universities, and other government and private Colleges

3.7 COLLABORATION

3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

- Department of Geology has collaboration with NIT/ Raipur.
- Indian Statistical Institute, Kolkata has agreed for collaboration with the Department of Geology which will definitely promote the collaborative research.
- Birbal Sahni Institute of Palaeobotany, Lucknow extended library and laboratory facilities to Ms. Deepima Sinha, research scholar of Geology for her Ph.D. The institute has agreed to continue such collaboration in future also.

3.7.2 Mention specific examples of, how these linkages promote

- Curriculum development
- Internship, On-the-job training
- Faculty exchange and development
- Research, publication
- Consultancy, Extension
- Student placement
- Any other, please specify

The collaborative linkages will promote the faculty, research scholars and students of our College not only in enhancing the knowledge but also providing an exposure to work in the premier institution of science which may lead to groom them as scientists and professionals with a vision.

3.7.3 Does the College have MoUs nationally/internationally and with institutions of national importance/other universities/industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?

Indian Institute of Technology (IIT), Bombay, Powai, Mumbai has given consent to support the faculty members and students of Geology for any academic work in IIT Bombay. This would be one of the endeavours to instigate and promote students to avail and experience that may help sharpen their vision and hone their skill as scientist in the years to come.

3.7.4 Have the College industry interactions resulted in the establishment/creation of highly specialized laboratories/facilities.

NO

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 PHYSICAL FACILITIES

4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The plan of developing physical infrastructure is as follows-

The College has a sprawling infrastructure with adequate number of class rooms and laboratories. To keep pace with academic advancement and growth new rooms and laboratories have been constructed and existing laboratories have been upgraded. As our original structure has been in existence since 1956's much emphasis has been on revamping the class rooms, laboratories, hostels and administrative areas.

There is a four member building maintenance committee including Head of the institution under the chairmanship of Janbhagidari Samiti. The committee seeks departmental requirements, needs of laboratories, class rooms; research rooms etc. and send the proposal with details of budget requirements, funding agencies etc. to the Government of Higher Education for approval. After the allocation of budget and due permission the construction work gets initiated.

Proper monitoring of infrastructure has helped the optimal usage of the existing facilities. The infrastructure is used for conducting various national/state level competitive exams. The College play ground is also used for State/District level sports and games.

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes, the College has a well defined policy for creation and enhancement of infrastructure in order to promote good teaching learning environment.

A few recent initiatives in this area are as follows:-

- 1- **e-class room**- it has been developed in collaboration with Chhattisgarh Infotech and Biotech Promotion Society (CHIPS) and Higher education. It has been basically developed for e-learning, through which the College is linked to IIT, Kanpur.
- 2- **Central Instrumentation Lab**- it has been developed with CPE grant. The PG/Ph.D. students of all disciplines avail the facility.
- 3- **Network Resource Center** – it is being developed by UGC grant to facilitate internet access to students/ faculty.
- 4- **IT lab** has been furnished as per the need of the students of information and technology.
- 5- To cater to the needs of BCA/DCA/PGDCA students, a well furnished and well equipped **computer lab** has been constructed with 30 PCs
- 6- **Biotechnology Laboratory** for PG students.
- 7- **Girls hostel** with a capacity of 30 girls students.
- 8- **English Language Lab** with a capacity of 30 students
- 9- **Research lab** in Botany has been renovated by CPE.
- 10- **Sports room** for indoor games.
- 11- **Separate Staff rooms for English, Sports, and Hindi** have been allocated.
- 12- Extension of a new **Autonomous exam cell**.
- 13- New plant **Tissue Culture Lab** (under construction)
- 14- Defence Studies departmental lab
- 15- **Total room** – 23rooms have been constructed.
- 16- Renovation of many **rooms and labs** is being made to create a good teaching learning atmosphere.
- 17- Canteen for students/staff.
- 18- The administrative office renovated
- 19- Principal room refurnished
- 20- The flooring of the College -main entrance
- 21- Safe drinking water facility

Other Renovation work:-

- 01 Principal Bungalow
- 06 Professor's Residence
- 14 Lecturer's House
- 04 Hostel Warden's House
- 01 Doctor's Residence
- 24 H-type quarters
- 28 I-type quarters

4.1.3 Does the College provide all departments with facilities like office room, common room, and separate rest rooms for women students and staff?

All departments have a separate room for the Head of the department along with a Departmental office.

The College has a common staff room, for each department.

The College has two Girls common rooms, one on each floor with toilet facility.

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of student/staff with disabilities?

The College tries its level best to keep the disabled students and staff comfortable. The students with physical disabilities are accommodated in the ground floor during classes and exams. The College has designed slopes at several places for their easy movement. A ramp is being constructed connecting the two floors.

4.1.5 How does the College cater to the residential requirements of students? Mention

- **Capacity of the hostels and occupancy (to be given separately for men and women)**
- **Recreational facilities in hostel/s like gymnasium, yoga center, etc.**
- **Broadband connectivity/ wi-fi facility in hostel/s**

CAPACITY OF THE OCCUPANCIES

Hostel facility - There are three boys hostels and one Girls hostel.

Boys hostel	Name	Capacity	Occupancies
Hostel No. 1	Late Shri Umadas Mukherjee	48	40
Hostel No. 2	Major Yashwant Rao Gore	50	45
Hostel No. 3	Shri Lalbahadur Shastri	60	59
Girls Hostel	New	18	18
	Old	12	12

- **Recreational facilities in hostel/s like gymnasium, yoga center, etc.**

All hostels of the College have the following recreational facilities.

- a) Library with books, magazines and newspapers
- b) TV with cable facility
- c) Indoor Games like carrom, chess, and Ludo. Table tennis etc.
- d) Outdoor Games – badminton, football, cricket, volleyball basket ball etc.

- **Broadband connectivity/ wi-fi facility in hostel/s**

The College management is installing broad band connectivity with wi-fi facility for the students.

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

The College has a Dispensary with a regular doctor available at all hours. The Dispensary has OPD facilities and offers primary emergency medical aid. Free homeopathy medicine advice and aid is provided by a homeopath on the campus. Good private Hospitals near the College premises are consulted if the need arises. Chhattisgarh state mobile medical services are also just a call away.

According to the Chhattisgarh State Government rules, students may also avail Chhattisgarh Student health Insurance Policy.

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

The College has an Auditorium with a capacity of 300 along with a balcony capacity 100 to promote cultural activities. The College has sprawling campus with ample space for a number of play fields like basket ball, volley ball, cricket, football and others.

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?

Yes, The College has constituted a library Advisory Committee, which includes External Advisory Committee and Internal Advisory Committee. The committee monitors and recommends on users library needs

- 1- **External Advisory Committee** - has been constituted from senior librarians of four different universities, nominated for three years. The committee meets every three months to ensure optimal use of library facilities.
- 2- **Internal Advisory Committee** - comprises 10 members from different departments of the College. This committee meets every three month. The recommendations of the External Advisory committee are pursued by the Internal Committee so that the library becomes student/ user friendly.

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)
- Access to the premises through prominent display of clearly laid out floor plan: adequate signage; fire alarm; access to differently abled users and mode of access to collection.

Total area of the library	528 Sq. Meter/5280 Sq. Feet
Total Seating capacity	65 (including main Library and 18 departmental Libraries)
WORKING HOURS On working days Before examination days During examination days During vacation	9 am to 5 pm 9 am to 5 pm 9 am to 5 pm 10 am to 5 pm
Lay out of the library	a) A huge Reading and browsing area b) IT zone for accessing e-resources
Store area	1984 Sq. feet
Reading Room	1564 Sq. feet
Issue space	840 Sq. feet
e- library	200 Sq. feet
Seating capacity	65
Fire alarm	Fire extinguisher
Access to differently abled users	Yes, can access

4.2.3 Give details on the library holdings

- a) Print
(Books, back volumes and thesis)
- b) Non print (Microfiche, AV)
- c) Electronic (e-books, e-journals)
- d) Special collection
(eg. Text book, Reference books, standards, patents)

a) PRINT	Books	100858
	Books volume	1045
	Thesis	82
	Maps	58
	Imageries	25
	Posters	108
	College magazines	52
	Cards	500
	Floppy	25
	CD	450
	DVD	126
	CD-ROM	20
	Audio cassettes	10
	Video cassettes	30
c) ELECTRONIC	e-books	38
	e-journals	3070
d) SPECIAL COLLECTION	Text books	12000
	Reference books	1500
	Standards	Nil
	Patents	Nil

4.2.4 What tools does the library deploy to provide access to the 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

OPAC	OPAC
Electronic Resource Management Package For e-Journals	Yes
Federated searching tools to search articles in multiple databases	Yes Yes
Library Website	Yes
In-house/remote access to e-publications	Yes

4.2.5 To what extent is the ICT deployed in the Library?

- Library automation
- Total number of computers for public access
- Total number of printers for public access
- Internet band width speed □ 2mbps □ 10 mbps □ 1gb (GB)
- Institutional repository
- Content management system for e-learning
- Participation in resource sharing networks/consortia (like INFLIBNET)

Library automation	PG library
Total number of computers for public	16
Total number of printers for public access	13
Internet band width speed	10 Mbps
INFLIBNET	Yes

4.2.6 Provide details

- Average number of walk-ins
- Average number of books issued/returned
- Ration of library books to students enrolled
- Average number of books added during last three years
- Average number of login to OPAC
- Average number of login to e-resources
- Average number of e-resources downloaded/printed
- Number of information literacy trainings organized

Average number of walk-ins	250-550
Average number of books issued/returned	75-225
Ratio of library books to students enrolled	6:1
Average number of books added during last three years	1500
Average number of login to OPAC	200
Average number of login to e-resources	150
Average number of e-resources downloaded/printed	75
Number of information literacy trainings organized	02

4.2.7 Give details of the specialized services provided by the library

<input type="checkbox"/> Manuscripts	NO
<input type="checkbox"/> Reference	Yes, available
<input type="checkbox"/> Reprography	Yes, available
<input type="checkbox"/> ILL(Inter Library Loan Service)	Yes
<input type="checkbox"/> Information Deployment and notification	Yes
<input type="checkbox"/> OPAC	Yes
<input type="checkbox"/> Internet Access	Yes
<input type="checkbox"/> Downloads	Yes
<input type="checkbox"/> Printouts	Yes
<input type="checkbox"/> Reading list/Bibliography compilation	Yes
<input type="checkbox"/> In-house/remote access to e-resources	Yes
<input type="checkbox"/> User orientation	Yes
<input type="checkbox"/> Assistance in searching Database	Yes
<input type="checkbox"/> INFLIBNET/IUC facilities	Yes



4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

Library fund Received from Regular Students of the College

Year	U.G. Students				P.G. Students				Total Fees Collected
	No. of Students in U.G.	Type of Fees	Fee @	Amount Collected	No. of Students in P.G.	Type of Fees	Fee@	Amount Collected	
2009-10	1543	Reading room	50	77150.00	165	Reading room	50	8250.00	85400.00
		Library card	10	15430.00		Library card	10	1650.00	17080.00
		P.G. Lib Fees	0			P.G. Lib Fees	15	2475.00	2475.00

		others	0			others	0		0
Sub Total A				92580.00				12375.00	104955.00
2010-11	1799	Reading room	50	89950.00	317	Reading room	50	15850.00	105800.00
		Library card	10	17990.00		Library card	10	3170.00	21160.00
		P.G. Lib Fees	0			P.G. Lib Fees	15	4755.00	4755.00
		others	0			others	0		0
Sub Total B				107940.00				23775.00	131715.00
2011-12	1918	Reading room	50	95900.00	340	Reading room	50	17000.00	112900.00
		Library card	10	19180.00		Library card	10	3400.00	22580.00
		P.G. Lib Fees	0			P.G. Lib Fees	15	5100.00	5100.00
		others	0			others	0		0
Sub Total C				115080.00				25500.00	140580.00
2012-13	2003	Reading room	50	100150.00	338	Reading room	50	16900.00	117050.00
		Library card	10	20030.00		Library card	10	3380.00	23410.00
		P.G. Lib Fees	0			P.G. Lib Fees	15	5070.00	5070.00
		others	0			others	0	0	0
Sub Total D				120180.00				25350.00	145530.00
2013-14	1804	Reading room	50	90200.00	328	Reading room	50	16400.00	106600.00
		Library card	20	36080.00		Library card	20	6560.00	42640.00
		P.G. Lib Fees	0			P.G. Lib Fees	50	16400.00	16400.00
		others	0			others	0	0	0
Sub Total D				126280.00				39360.00	165640.00
Grass Total				562060.00				126360.00	688420.00

Expenditure account of library funds (2009-2014)

Year	Collected Funds		Expenditure	
	Type of Fund	Amount	Type of Expenditure	Amount
2009-10	Reading Room	85400.00	Newspaper	22771.00
	Library card	17080.00	Magazine	14251.00
	P.G. Lib. Fees	2475.00	Research Journals	20000.00
	Others	0.00	Binding	3750.00
			Stationary and Printing	20000.00
			Miscellaneous	23242.00
Total RS.		104955.00		104014.00

Year	Collected Funds		Expenditure	
	Type of Fund	Amount	Type of Expenditure	Amount
2010-11	Reading Room	105800.00	Newspaper	14774.00
	Library card	21160.00	Magazine	17799.00
	P.G. Lib. Fees	4755.00	Research Journals	50000.00
	Others	0.00	Binding	7000.00
			Stationary and Printing	20000.00
			Miscellaneous	21702.00
Total RS.		131715.00		131275.00

Year	Collected Funds		Expenditure	
	Type of Fund	Amount	Type of Expenditure	Amount
2011-12	Reading Room	112900.00	Newspaper	14337.00
	Library card	22580.00	Magazine	11732.00
	P.G. Lib. Fees	5100.00	Research Journals	50000.00
	others	0.00	Binding	5890.00
			Stationary and Printing	30000.00
			Miscellaneous	26250.00
Total RS.		140580.00		138209.00

Year	Collected Funds		Expenditure	
	Type of Fund	Amount	Type of Expenditure	Amount
2012-13	Reading Room	117050.00	Newspaper	14131.00
	Library card	23410.00	Magazine	25079.00
	P.G. Lib. Fees	5070.00	Research Journals	50000.00
	Others	0.00	Binding	13570.00
			Stationary and rinting	20000.00
			Miscellaneous	21350.00
Total RS.		145530.00		144130.00

Year	Collected Funds		Expenditure	
	Type of Fund	Amount	Type of Expenditure	Amount
2013-14	Reading Room	106600.00	Newspaper	20000.00
	Library card	42640.00	Magazine	30000.00
	P.G. Lib. Fees	16400.00	Research Journals	50000.00
	others	0.00	Binding	25000.00
			Stationary and Printing	20000.00
			Miscellaneous	19340.00
Total RS.		165640.00		164340.00

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services.

Yes the library gets feedback from the faculty members, research scholars and UG/PG students. The Library committee conducts meetings on the issues raised and takes necessary action.

4.2.10 List the infrastructural development of the library over the last four years.

The Infrastructural development of the library in last four years.

1. Reading room	01
2. Purchase and installation of sole software	Sole 2.0
3. Internet facility	Yes available
4. Photocopier machine	01
5. Infilbnet facilities	Yes

4.2.11 Did the library organize workshop/s for students, teachers, non –teaching staff of the College to facilitate better Library usage?

- Yes, the library has organized a two days workshop on “College Libraries Automation” for students and teachers of different Colleges of the state to facilitate better usage of library.
- National seminar on “Library Initiatives in Digital Era” 26-27th October 2013 jointly organized by Govt. Nagarjuna Post Graduate College of Science Raipur and Pt. Sunder Lal Sharma library, Pt. Ravishankar Shukla University Raipur.

4.3 IT INFRASTRUCTURE

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

NO

4.3.2 Give details of the College’s computing facilities (hardware and software)

Number of system with configuration	143 computers with P-3 P-4 and intel core 2 DUO and 15 laptop
Computer-student ratio	1:15
Dedicated computing facility	Yes
LAN facility	Mathematics, IT, Library, Defence Studies, Office, Physics and Computer Science
Wi-fi facility -	Mathematics, IT
Propriety software/ Open source soft wares	Yes
Number of nodes/computers with internet facility	55 computers with internet facility

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

In the College the IT infrastructure and associated facilities are –

- Information technology department,
- e-class room,
- Network Resource Center

- e-library

The College is committed to upgrade further the IT infrastructure and associated facilities like new Hardware and Software for office, library, and different departments and for research purpose. The College has a plan to open an e-library.

4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and student for quality teaching, learning and research.

For quality teaching, learning and research there is an emphasis on computer aided teaching. Each department has sufficient number of computers for faculty and students. LCD and OHPs are used by the faculty/students for teaching/learning. The students present their seminar through these devices. An e-class room has been designed to provide online teaching from trained and experienced faculty from IIT Kanpur.

4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

An e-class room has been designed to provide online teaching/learning. A tie up has been made with trained and experienced faculty from IIT Kanpur who share their wealth of knowledge and students interact to quench their thirst. Network resource center is being developed for faculty/students.

4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?

The College has a sufficient number of computers with access to internet facility and LCD projectors through which the faculty members transmit their knowledge. The high class study material generated by the faculty is prepared and provided to the students which facilitates easy learning.

4.3.7 How are the computers and their accessories maintained? (AMC, etc.)

The computers and their accessories are maintained department wise by using the lab funds.

4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the Affiliation University? If so, what are the services availed of?

No, the College does not avail the above said connectivity.

4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?

No special budget is provided for upgradation, deployment and maintenance of the computers and its accessories. However, the computers are maintained by department lab funds.



I.T. Laboratory

4.4 MAINTENANCE OF CAMPUS FACILITIES

4.4.1 Does the College have an estate Office/designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

The Head of the institution monitors and ensures the overall maintenance of buildings, class rooms and laboratories by holding regular meetings with all Head of departments, building construction committee and other committees constituted during a session. The Principal on the basis of development plan proposes the infrastructure needs to the concerned authorities. The UGC, Chhattisgarh Govt. Higher Education Department, Janbhagidari Samiti are some of the funding agencies to sanction funds based on the requirements demanded.

The College development fund is used for maintenance of infrastructure. The College construction committee prepares the proposal along with the budget and submit it to the Head of the institution, who sends it to department of

Higher education for approval and allocation of the funds which are then handed over to the authorities of State PWD department for construction purpose. An effective monitoring system through Chairman Janbhagidari Samiti, Principal and construction committee is done to ensure the optimal utilization of budget and quality of construction.

The recent initiatives have been taken to improve the physical ambience in the College, hostels, sports ground and others are as follows –

GROUND FLOOR

- 1. Developments of central instrumentation lab** – to promote inter disciplinary research.
- 2. Development of Computer Science Lab** – having sufficient number of computers for students of BCA/PGDCA/DCA and B.Sc. with Computer Science.
- 3. Renovation of Principal Chamber and Office**
- 4. Development of Biochemistry Department**
- 5. Library has been furnished**
- 6. Development of Botany Research Lab**
- 7. Development of Plant Tissue Culture Lab**
- 8. Renovation of M.Sc. Lab of Botany Department**
- 9. Allocation of room for Hindi Department**
- 10. Renovation of Two Separate wash rooms** for lady faculty members/lady staff members /Girls students.
- 11. Renovation of auditorium** – it has been named after martyr Lt. Rajiv Pandey.
- 12. Beautification** of the campus by developing gardens within the College campus.
- 13. Renovation of the Sports Ground**

FIRST FLOOR

- 1. Development of reading room** – for UG/PG students/ Research Scholars and faculty for consulting literature and their interest under cool and calm ambience
- 2. Renovation of IT Lab-** with a sufficient number of computers fulfilling the needs of students.
- 3. Development of Geology Lab -** with a very rich museum having a very good number of fossils, stones and gems of different Geologic Periods.
- 4. Upgradation of Defence Studies** – the department of Defence Studies has been furnished with a collection of models related to Defence.
- 5. Allocation of English Department**
- 6. Construction of new class rooms**
- 7. Setting up of English Language Lab**

8. Department of Sports and a Sport Room for indoor Game

9. A room in first floor has been allocated to **examination cell** and has been renovated as per the need of the cell.

10. Development of Biotechnology Department, Laboratory and Class rooms.

11. A New Network Resource Center – is being proposed in the First floor

HOSTELS

Initially two staff quarters were converted as Girls Hostel to accommodate 12 girls. A new Girls Hostel with the capacity of 18 seats has been constructed. There are three Boys Hostels in the campus. The maintenance of the hostels is done by PWD. The hostel committee and building maintenance committee are vigilant enough to check the entire process.

4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

The College constitutes a building maintenance committee. All the maintenance and repair works related to the infrastructure are done by the PWD. The laboratory equipments are maintained by the concerned departments. The overall maintenance of the campus is done by the administrative section of the Office. The College has a workshop for carpentry work with a regular salaried staff. For electricity work there is a post of electrician who looks after the electric work.

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 STUDENT MENTORING AND SUPPORT

5.1.1 Does the College have an independent system for student support and mentoring?

If yes, what are its structural and functional characteristics?

The College has a career guidance cell, which provides regular guidance, support and mentoring to the students. The cell has infused hope and confidence in the minds of students. In 2012, the cell organised various career counseling seminars. These seminars make students aware of the entrance examinations to enter a range of fields. The cell also launched career awareness programme by way of such seminars.

Besides this each department of the College has its own setup for students support. Personal advice and guidance about academics, non academics, research and placement is given to the student specially at the PG Level.

5.1.2 What provisions exist for academic mentoring apart from class room work?

The class room is the main centre for imparting knowledge of the subject, and developing skills of understanding the basic concepts and raising curiosity and interest in the area of study. Apart from the class room, the college has provision for widening the arena of academic mentoring.

- Field visits are a necessary component of academics as they widen the area of application. They are mandatory in the departments of Geology, Biotechnology and Defence Studies.
- Industry visits to give valuable exposure
- Educational tours and excursions to broaden the vision of students
- Visits to specialized laboratories to view and understand both the apparatus and its uses, as also the different applied fields
- Trips to other institutes
- Organization of special invited lectures by eminent speakers
- Seminars, workshops, group discussions
- Hands-on training programmes
- Teaching through modern techniques and online sources

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g. career counseling, soft skill development etc.

- The College has a Career Guidance Cell with a professor incharge as Training **and Placement Officer**. The cell provides regular guidance and mentoring to the students. The Cell organizes Career Guidance Seminars to help and inspire students to select the right career. These seminars make students aware of the entrance examinations to enter a range of fields. They are informed and updated about the format and design of the examination; the eligibility criteria; and the frequency/ duration/ syllabus components and other features of different examinations.
- The English Department has an English Language Laboratory which has classes for Spoken English and Communication Skills. The Department organizes Seminars on Vocabulary Enhancement, on how to prepare for Group Discussions and Personal Interviews, and other tips on Personality Development.
- All the Departments provide guidance to PG students on how to prepare seminar papers and Power Point presentations
- **General knowledge** tests are organized weekly

5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities/ information included / provided to students through these documents? Is there provision for online access?

The College publishes an updated prospectus every year. The prospectus provides important information about the College.

It contains-

- The Admission procedure, and the Subject options and seats available in the College for each academic programme. The College offers 15 subject combinations at the UG level, and 08 subjects at the PG level. Vocational Courses and an Add on Course are also offered by the College. The Foundation Course, which includes English and Hindi Language, and Environmental Science are compulsory papers at the UG level. Ph.D. programmes are also pursued at the seven Research Centres in the College. The College follows the Annual system at the UG level and the Semester system at the PG level.
- The Prospectus gives a detailed outline of the rules and guidelines for admission. It includes the important dates, the eligibility criteria, the reservation and weightage policies as per State Government rules, the examination details, and the admission form.
- The Fee Structure gives details of the Admission Fees, College Fees, Examination Fees, Hostel Fees and the Scholarships that a student may apply for. Certain discounts in fees are offered to students as per State Government rules, and these are also mentioned in the prospectus.
- The prospectus has information about the various scholarships, awards, medals and insurance policies which are offered by the College to motivate and encourage students. The student is made aware of the strict discipline rules, class attendance and the Code of Conduct which has to be followed in the College. The strict rules pertaining to ragging and the punishment that follows are included in the prospectus. An Examination Calendar alerts the student about the academic evaluation process.
- An important section of the prospectus is devoted to the human resources of the College. It includes lists of the members of the Governing Body, the Academic Council and the members who are nominated from different fields, and the Janbhagidari Samiti. The prospectus gives details of the Departments, and lists of the Academic faculty of gazetted officers, and other non academic and technical staff that are part of the extended family of the College. A list of the various committees circulated to the students which ensure the smooth running of the College at all levels and in all fields is also a part of the prospectus.
- The Prospectus highlights the other facilities which are offered to a student. They include Boys and Girls Hostels, Sports, Library, Medical facility, and a Canteen. The student is made aware of other extracurricular bodies that function in the College like the NSS, NCC, Youth Red Cross, Red Ribbon, Science Club, English and Hindi Language Societies, GK Club, Career Counseling and Placement Cell, Equal

Opportunity Cell, students grievance and redressal cell and others. The College Prospectus covers all relevant fields of information which should be made available to students.

- There is a provision of online access through College website. It is regularly updated. Important and useful information and results are uploaded regularly and can be accessed.

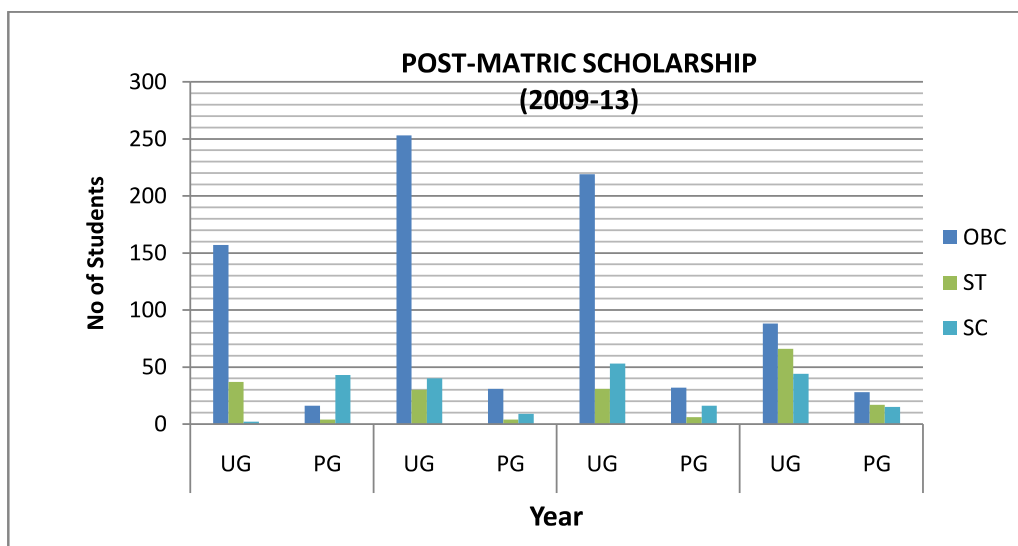
5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil/Ph.D./Diploma/others in tabular form) by the College Management during last four years. Indicate whether the financial aid was available on time.

The Science College is a Government organisation and therefore all benefits like freeship, scholarship, concession are given to the students as per the directives of Government Higher Education Department.

Financial assistance from Chhattisgarh Government Higher Education Department

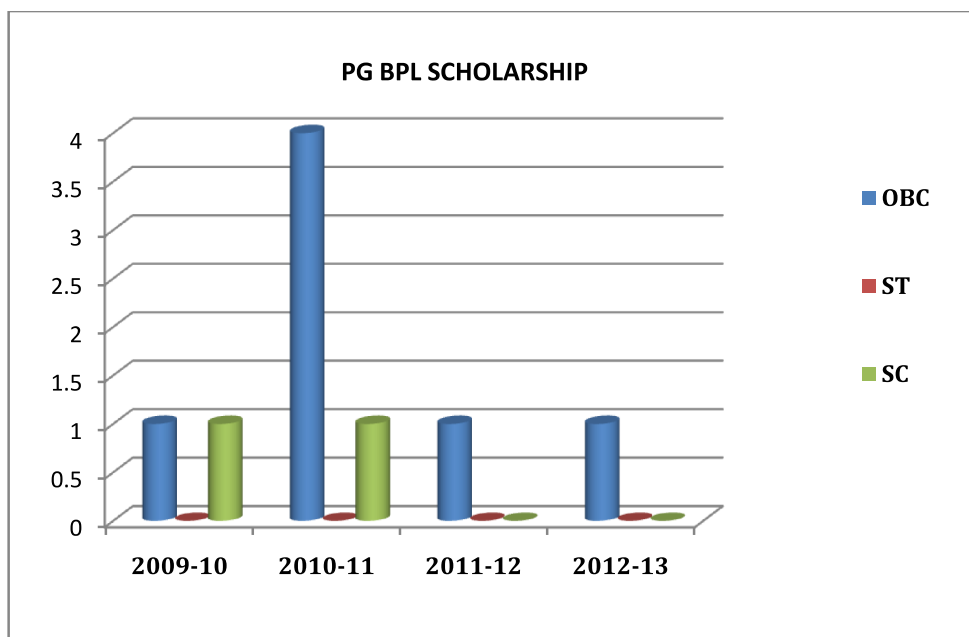
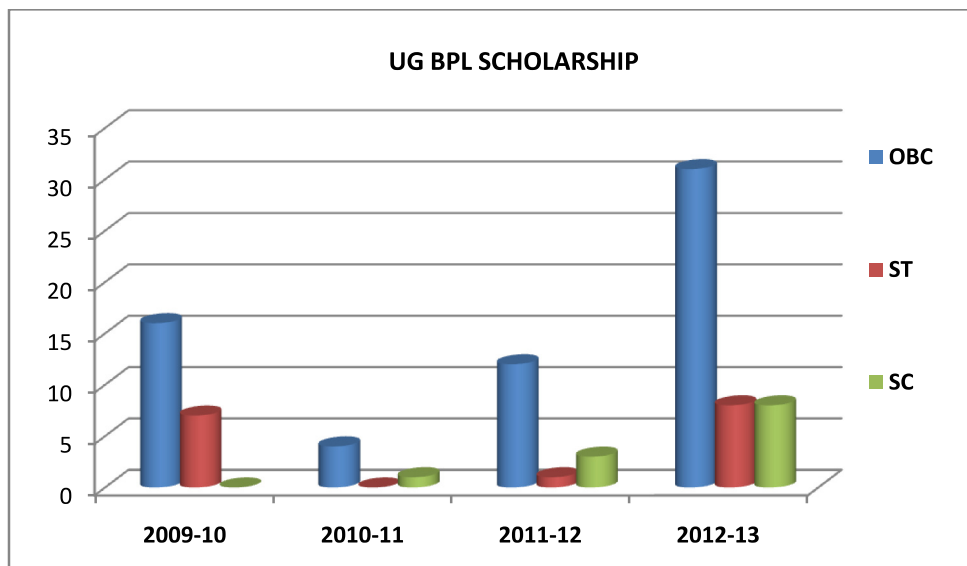
POST-MATRIC SCHOLARSHIP (2009-13)

2009-10				2010-11			2011-12			2012-13		
	UG	PG	TOTAL	UG	PG	TOTAL	UG	PG	TOTAL	UG	PG	TOTAL
OBC	157	16	173	253	31	284	219	32	251	88	28	116
ST	37	4	41	30	4	34	31	6	37	66	17	83
SC	2	43	45	40	9	49	53	16	69	44	15	59



BPL SCHOLARSHIP (2009-12)

2009-10				2010-11			2011-12			2012-13		
	UG	PG	TOTAL	UG	PG	TOTAL	UG	PG	TOTAL	UG	PG	TOTAL
OBC	16	1	17	4	0	4	12	1	13	31	1	32
ST	7	0	7	0	0	0	1	0	1	8	0	8
SC	0	1	1	1	0	1	3	0	3	8	0	8



Concessions in fees are given to the students who come from poor farmer class/ ST/SC/OBC and children of Government employee of Class-III/IV as per Government norms.

- Full fee concession is given to students of SC/ST.
- One third tuition fees is charged to children of poor farmer class
- Full fee concession up to UG Level for both Boys and Girls and up to PG level only for Girls are given to the children of Class-III/IV Government employee.
- If more than one brother/sister are studying in same session than except elder one others will pay 50% of tuition fees.

All financial support to the students are available and given on time.

5.1.6 What percentage of students receive financial assistance from state government, central government and other national agencies? (e.g. Kishore Vaigyanik Protsahan Yojana (KVPY). S.N. Bose Fellow, etc.)

About 15-18% students receive financial assistance and 20-22% students get financial assistance and fee concession from State Government.

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

The College is a government College and policies on attracting foreign students are completely under the State Government.

5.1.8 What type of support services are available for?

- Overseas students
- Physically challenged / differently abled students
- SC/ST, OBC and economically weaker sections
- students to participate in various competitions / conferences in India and abroad
- health centre, health insurance etc.
- skill development (spoken English, Computer literacy etc.)
- performance enhancement for slow learners / students who are risk of failure and dropouts
- exposure of students to other institutions of higher learning / corporate / business houses, etc.
- publication of student magazines

The College has a system of support for students under the following categories. The support system is as per the Higher Education Department, Chhattisgarh State Government.

- **Overseas students** – we have no overseas students in the campus.
- **Physically challenged / differently abled** – The College supports and helps the needy. 03% seats are reserved jointly for physically challenged and children of ex defense service personels. 10% weightage is given to Physically challenged applicants when the merit list is prepared for admission.

The College has slopes at important points of entrance and exits to facilitate the movement of physically challenged students. Extra attention and care is given to them in the class rooms. College library has Brail Script for blind students. Blind candidates are given one extra hour during examinations. Their caliber in co curricular fields is encouraged. The College is very sensitive to the needs of the differently abled and takes good care of them.

The College has an **Equal Opportunity Cell** which has regular meetings to give a hearing to the complaints of physically challenged students. It solves their problems and makes them aware of their rights. It helps them in all possible ways.

- **SC/ ST/ Weaker sections of society-** The College adheres strictly to the rules and regulations of the State Government in rendering support to the SC / ST/ OBC and weaker sections of society.

During admission, the reservation policy of the government is followed, within which 12% of seats for SC, 32% of seats for ST are reserved. The seats reserved within these two are interchangeable. 14% of seats are reserved for OBC (excluding the creamy layer).

In the fee structure of the College, certain benefits are given to SC/ ST/ OBC/ weaker sections of society, as per government norms.

SC / ST students are exempted from paying the tuition fees.

A special discount of 10% is given to students from these sections in the Janbhagidari fees.

Children of farmers who fall in the weaker section of society criteria get a one third fee exemption.

State Government Grants and freeships are also given as per government rules. Such grants in the form of financial aids to pay fees and buy books is given to the poor and weaker sections of society. Student get financial assistance and books from teachers.

Free Books are distributed to students of these special groups. The College Library also offers **Book Bank** facility to such students under the Government schemes for SC/ ST and BPL groups.

The College runs **Remedial Classes** before the commencement of regular classes every day for SC/ ST / OBC / weaker sections of society. These classes help in solving academic problems of students in the form of special coaching.

The **Equal Opportunity Cell** organizes lectures and Seminars to enlighten these students and teach them to equip themselves so they can face the challenges of the world.

- **Student participation in various competitions / conferences in India and abroad** –The College offers motivation and some help to students who represent the College in various programmes. Students in sports teams are given TA/DA as per Government norms. They are also given relaxation in attendance when they go to participate in sports/ cultural activities in State/National/University. Students who represent University in any discipline of the sports is awarded by track suit and certificate. Each and every student is awarded by certificate for participation in sports activities in College. Best sport person medal is awarded by the sports officer in memory of his late grandfather.
- **Health centre / health insurance** – The College has a dispensary with a regular Doctor available at all hours. The dispensary has OPD facilities and offers primary emergency medical aid. Free homeopathy medicine advice and aid is provided voluntarily by doctor on the campus. Good private hospitals near the College premises are consulted if the need arises. Chhattisgarh state mobile medical services are also just a call away.

According to the Chhattisgarh State Government rules, students may avail Chhattisgarh Student Insurance Policy.

- **Skill development (spoken English, computer literacy etc.)-** The College has an **English Language Laboratory** which helps students in increasing their fluency in English. Spoken English classes are conducted by the Department of English. The English Language Society conducts Seminars on Vocabulary, Group Discussion and Personal Interview skills, Etiquette, Personality Development, and various competitions on writing and oratory skills. Fun English Language activities are organized regularly. Spectrum, the Wall Magazine run by the English Language Society showcases the writing and drawing skills of students and has interesting articles on display.

The College has started BCA, Diploma in Computer Applications, and PG Diploma in Computer Applications to assist students in learning. Computer Science and Information Technology are subject combinations offered at UG level under the self financing scheme.

The College has a **Network Resource Centre** which offers students the facility to use computers and enhance their knowledge by accessing the net for information. Computers are provided to each department for the use of faculty, research scholars and PG students as well.

- **Performance Enhancement for slow learners / students who are at risk of failure and dropouts-**The College has a scheme of Remedial Classes to help slow learners.

The College faculty regularly helps students in the form of extra guidance as and when required and approached by students. The unit tests and half yearly and quarterly examinations help students to gauge their level and seek help from the teachers. Extra tutorial classes are taken by subject teachers.

- **Exposure of students to other institutions of higher learning / corporate /business houses etc.-**

The College ensures that students are benefitted by exposure to other institutes and to the industrial sector. The PG students of most departments, specially the Departments of Botany, Biotechnology, Geology and Defence Studies are taken on educational excursions and trips. These are organized so that students get benefit from the exposure to different academic atmospheres.

Special Guest Lectures, Seminars and Workshops are organized from time to time by all the departments in the College, where students in large numbers can get exposed to the technological and scientific developments in the world of science, and the latest trends in the field of research.

The Career Guidance and Placement Cell, the English Department, the Equal Opportunity Cell organizes lectures where eminent speakers from the field of education, literature, business, and corporate world are invited.

- **Publication of student magazines** – For the development of creative skill inherent expression through words the College has an annual magazine, *Manisha*, which carries articles written by both students and teachers. The articles which are prize winners in the essay, poetry, short story writing competitions of the College, and other articles contributed by students are published in *Manisha*. The College magazine also has departmental reports, committee reports and other achievements of the College.

The Department of Botany has been publishing *Botanical Essays*, which is a compilation of the important topics written by the PG students of Botany and edited by the faculty members. This is an Endeavour of botanical Society and is a novel and innovative idea probably first one of its type.

The faculty of the Department of English edit and publish a biannual research journal *Literati*, and have taken up the onus of reviving the *Indian Scholar*, which was a journal of English studies published from Raipur from 1978 to 1994.

The various departments of the College have Wall Magazines which present work of students. *Spectrum*, the wall magazine run by the English Language Society publishes poems and short articles written by students.

5.1.9 Does the College provide guidance / coaching classes for Civil services, Defence Services, NET/ SLET and any other competitive examinations? If yes, what is the outcome?

The College provides guidance to students to prepare them for competitive examinations. The College has top class devoted faculty, who are always ready to guide and motivate students for NET/ SET examinations. The Department of Defence Studies guides students for the Defence Services examinations, and it has attained success to some extent as a few students have got selected. Other students have cleared NET, while yet others have joined the Police Department as Sub Inspectors. Components of syllabus at UG/PG Level helpful in NET/SET and other competitive examination.

The Equal Opportunity Cell organized a two day Seminar on Career Counseling, in March, 2012, in which the Director, Path and IAS Academy delivered a lecture and guided students on preparing for UPSC examinations. Other speakers enlightened the students about the various UGC schemes for students.

The cell also guides students on the Hindi component of UPSC examinations. It conducts essay competitions to prepare students.

The College has a **General Knowledge Club**, which conducts Test Series on GK that is a compulsory component of any competitive examination. Tests are conducted every Saturday and the students who perform well are awarded by the GK club. This activity is very much appreciated by the students of it has enhanced the General knowledge of the students. It has certainly helped our students to get placements in different sectors. Some PG students, from each department have become Assistant Professors, selected through the State Public Service Commission Examination, whose results were declared and placements made in November, 2012.

Students have got placed in Chhattisgarh School Education and other government departments. Some of the students passed out of PG courses are placed in Research and Development labs, multinational companies and a few of them have moved on to Ph.D. programmes.

5.1.10 Mention the policies of the College for enhancing student participation in sports and extra-curricular activities through strategies such as

*additional academic support, flexibility in examinations

*specific dietary requirements, sports uniform and materials

*any other

- As such no flexibility is given in examinations, but relaxation in attendance is given to students who make a mark in the field of sports and have to participate at different levels. The College students who represent national/international level in any of the sports discipline they get advantage in admission as per State Government norms.
- The students are provided with ample playing materials good quality for practicing different sports activities. Coaching and training is regularly practiced for the betterment.

Each and every student who is selected in College team is benefited by:

- i) The College bears the traveling expenses of the player.
- ii) The College provides a good quality playing kit as per the need of specific sport. This kit is permanently issued to the students.
- iii) The College provides Daily Allowance of Rs. 75=00 at sector level to every individual.
- iv) The College provides Daily Allowance of Rs. 100=00 at state level to every individual.

5.1.11 Does the College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

The College has a **Career Guidance and Placement Cell**, which helps students to identify their field of interest for their careers, and higher education. Seminars and Lectures are conducted regularly to help students identify job opportunities and become aware of the competitive examinations for entrance into any field. The format, frequency and eligibility criteria of such examinations are explained to the students. Personal guidance on Group Discussions and Personal Interview is given to the students. Some companies come to the College for placements.

5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

Various companies/financial institutes etc. visited for campus/job selection mostly BALCO, Vedanta, WIPRO, ICICI, Pharmaceutical and some IT companies visited for campus interview.

List of students selected during campus interviews and off campus by different employers

Year	Campus selection			Off campus selection		
	Name of companies	Post	No. of students	Name of companies	Post	No. of students
2009-10	Cipla Laboratory	Medical sales executive	06	Indian air force	Flying officer	01
	Grasim cement	Chemist trainee technical	02	Collectorate	Nayab tahasildar	02
	WIPRO	Technical assistant	02	CRPF	Constable	01
				MNIT-Allahabad	Reader (Maths)	01
2010-11	IBM(Delhi)	Executive operations	06	Chhattisgarh Police	Sub inspector	06
	Defence Studies	NET Selection	01	Indian army	Lieutenant	01
2011-12	Vedanta aluminum Ltd.(Bhuvaneshwar)	Trainee	14	PSC Selection	Assistant professor	03 (Maths)

	Defence studies	NET Selection	03			
	Sarda Energy and Minerals Ltd Raipur	Executive Trainee	09			
2012-13	ICPF Kerela	Trainee	05	Bank of India	Clerk	01
	ICICI	Clerk	03	State bank of India	Clerk	02
				State PSC	Assistant professor	14
				Private Engineering College	Lecturer	04
				Chhattisgarh Police	Sub inspector	08
				Para Military Force	constable	01
				Indian Air Force	Airman	01

College does not have any mechanism to maintain the record of pass out students who got employment after leaving the College in various organizations. Therefore exact data for the number of students is not available.

5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development the College?

The College is one of the oldest Colleges of Science in the region, and has got many stalwarts in different fields. The Alumni Association is a registered body that has annual meetings and one get-together per year.

The Alumni had organized a Tree Plantation program. The old students of the College are always ready to deliver lectures, and interact with the students of the College. The alumni are members in the Governing Body and the Janbhagidari Samiti and give important suggestions on the improvement of the College. Different PG Departments organize their own Alumni Meets. The Department of Defence Studies had organized an Alumni Meet when it completed 25 years of PG in Defence Studies, and celebrated its Silver Jubilee. The old students often donate books to the department.

5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

The College has a Grievance Redressal Cell and it also has a Complaint Box/ Suggestion Box. The complaints made are trivial and are mainly about infrastructural and deficiencies as cleanliness of wash rooms, girls' wash rooms, lack of tube lights and so on. The College looks into these matters seriously and the redressal follows. Students are also free to share

their grievance with the teacher and Principal. Academic redressals are revaluation, retotalling of answer books, duplicate mark sheet, correction of mark sheets and photocopy of answer books.

5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

The College has a cell for tackling sexual harassment cases. The cell guides students on these issues and is empowered to handle it carefully. Notices on the nature and gravity of the harassment are brought to the knowledge of the students. No issues have been reported.

5.1.16 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?

The College has an Anti-Ragging Committee, which is very alert and vigilant. Notices and warnings against ragging are put up everywhere in the College. The penalty and dire consequences a student has to face if caught and found guilty range from heavy fines to expulsion. The committee takes rounds of the College, and has divided the premises into areas which are under the surveillance of responsible faculty.

No issues of ragging have been reported during the past four years.

5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the student considering the curricular and co-curricular activities, research, community orientation etc.?

The College makes a collective effort to ensure overall development of the students. It provides a platform through General Knowledge club to face the challenges of the competitive world by organizing test and other activities. To develop the creative writing ability of the students College magazine *Manisha* is published *Botanical Essays*, wall magazines and spectrum are other endeavors through which writing skill and expression of the students with conceptual facts emerge out. Several community orientation programmes are carried out by NCC, NSS, Red Cross and departments to inculcate values of brotherhood and to develop them and symposia into socially responsible citizens. Various research seminars are organized by all departments on time to time to motivate the stakeholders towards research.

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc.?

The College is committed to motivate the students to participate in various activities throughout the academic session. To explore the potential in sports various sports activities of sports are organized in which faculty and students participate together to build a healthy ambience and sportsman spirit. Similarly, cultural activities are organized involving the participation of faculty office staff and students.

5.1.19 How does the College ensure participation of women in ‘intra’ and ‘inter’ institutional sports competitions and cultural activities? Provides details of sports and cultural activities in which such efforts were made?

- **Sports** -The Girl students of the College take an active part in intra and inter College competitions. Badminton, Table Tennis, Chess, and other games are the forte of women. Teachers assist and escort the sports women to different venues for participation to ensure safety and comfort.
- **Cultural activities**- Girls participate in dance, music, elocution, debate, mehndi, rangoli and a number of other activities.



Museum Defence Studies



Museum Geology

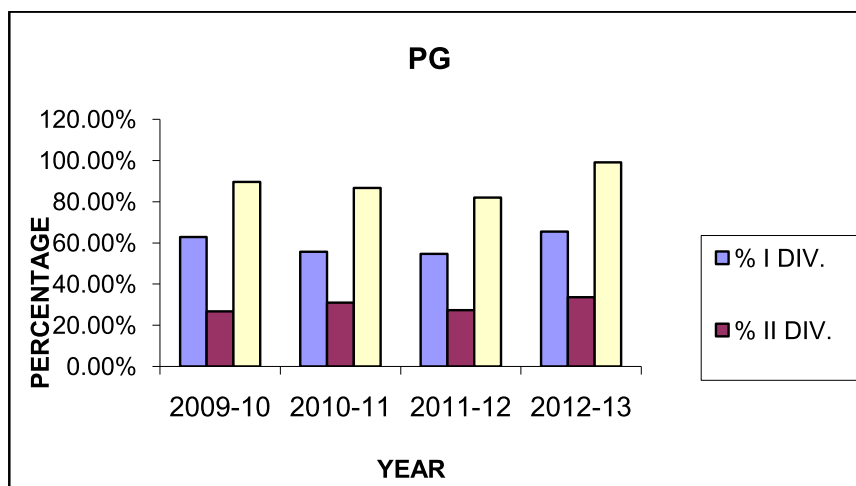
5.2 STUDENT PROGRESSION

5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges/universities (if available)

The Autonomous Examination Cell manages a record of the success rate of programs.

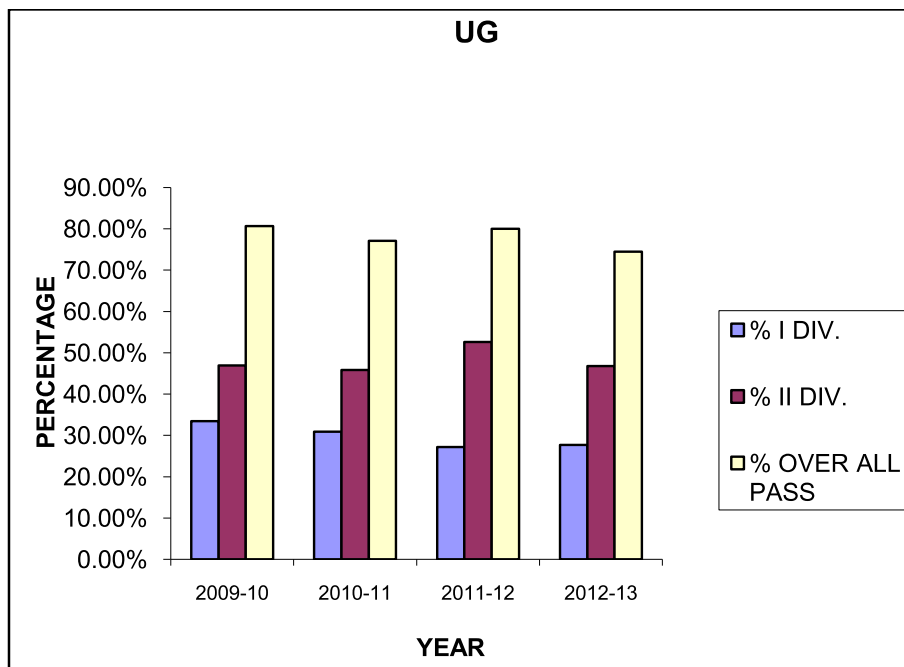
Pass percentage of students in UG Level year wise (2009-13)

YEAR	% I DIV.	% II DIV.	% OVER ALL PASS
2009-10	33.43%	46.92%	80.64%
2010-11	30.89%	45.84%	77.07%
2011-12	27.16%	52.60%	80.05%
2012-13	27.69%	46.76%	74.46%



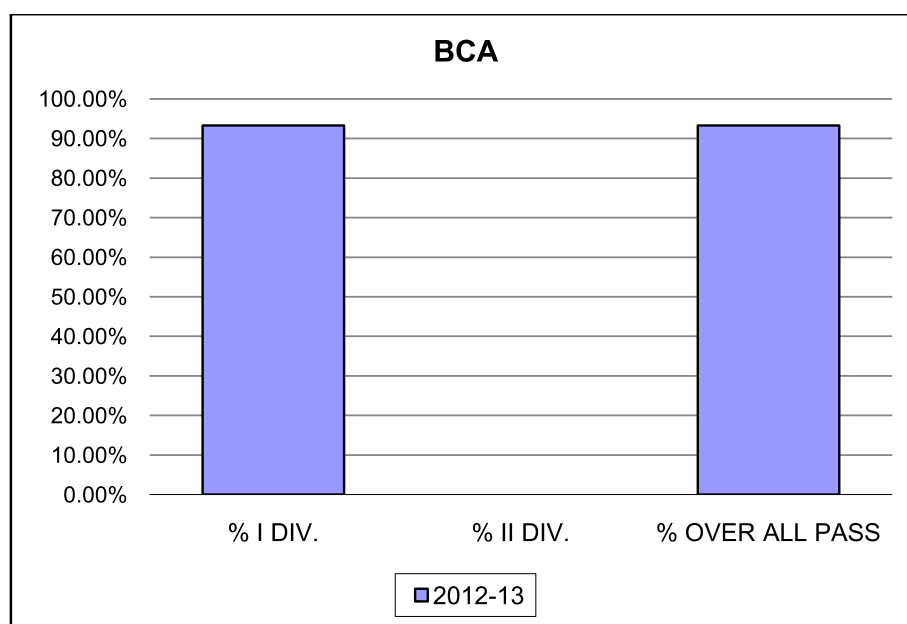
Pass percentage of students in PG Level year wise (2009-13)

YEAR	% I DIV.	% II DIV.	% OVER ALL PASS
2009-10	62.79%	26.74%	89.53%
2010-11	55.75%	30.97%	86.72%
2011-12	54.67%	27.33%	82.01%
2012-13	65.54%	33.61%	99.15%



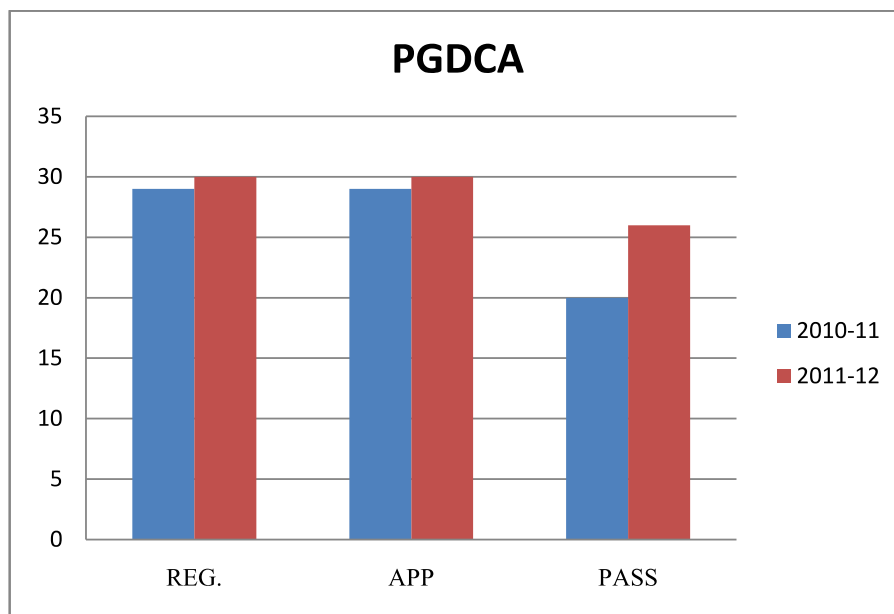
Pass percentage of students in BCA

YEAR	% I DIV.	% II DIV.	% OVER ALL PASS
2012-13	93.33%	0.00%	93.33%



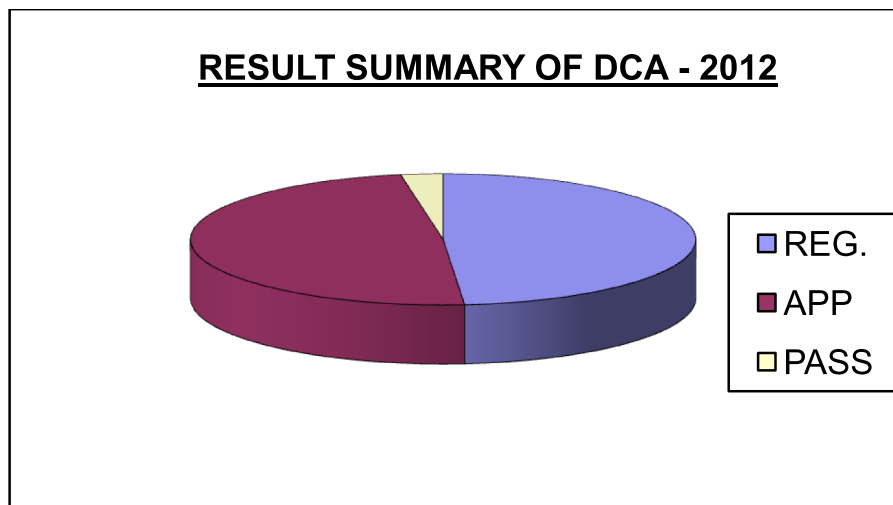
Pass percentage of students in PGDCA (2010-2012)

YEAR	REG.	APP	PASS
2010-11	29	29	20
2011-12	30	30	26



Pass percentage of students in DCA- 2012

REG.	APP	PASS
18	18	1



GOVT. NAGARJUNA PG COLLEGE OF SCIENCE RAIPUR (C.G.)
(AUTONOMOUS UNDER PT.RAVISHANKAR SHUKLA UNIVERSITY RAIPUR)

RESULT SUMMARY FOR THE SESSION – 2012-13

CLASS	GROUP	REGISTERED	APPEARED	PASS	PERCENTAGE	DIVISION		
						I	II	III
B.Sc. PART I	MATHS.	437	426	197	46.4	-	-	-
	BIO.	443	427	138	32.32	-	-	-
B.Sc. PART II	MATHS.	255	254	105	41.33	-	-	-
	BIO.	255	253	105	41.33	-	-	-
B.Sc. PART III	MATHS.	108	108	80	74.00			
	BIO.	238	238	192	80.67	95	176	1
M.Sc.								
Biotechnology		13	13	12	92.30			
Botany		21	21	16	76.00			
Chemistry		21	21	16	76.00			
Defence Studies		12	12	12	100			
Geology		13	13	13	100			
Maths		20	20	12	60.00			
Physics		17	17	16	94.00			
Zoology		22	22	17	77.00			

Informaion on other Colleges for a comparative analysis is not available.

5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

Student progression	%
UG to PG	25
PG to M.Phil.	5
PG to Ph.D.	5
Employed	
• Campus selection	10
• Other than campus recruitment	More than 50

5.2.3 What is the programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

The dropout rate of different programmes are very low. In UG it is less than 5% and in PG it is 1%. Completion rate in UG Bio/Maths is almost 80% and in PG of different subjects it is almost 90%.

5.2.4 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE/CAT/GRE/TOFEL/GMAT/Central/State services, Defense, Civil Services, etc?

Students from the college have got success in State Services, Defence Services, Civil Services and in Private Sectors. The number in the State Services is quite high. However, exact data on the above is not available. Data is not available for CAT, GRE, TOEFEL and GMAT. More than 30-40% students from different departments appear in UGC-CSIR NET every year and few students qualify in UGC NET examination. The numbers of those who qualified:

NET: 08

SLET: 06

IFS: 02

PSC: 02

Assistant Professors: 14

Civil Services: 02

Defence Services: 04

State Police Service: 06

5.2.5 Provide details regarding the number of Ph.D. /D.Sc. /D.Litt. thesis submitted, accepted, resubmitted and rejected in the last four years.

The faculty is actively involved in research and guiding for Doctoral degree (2009-13)

Faculty	Department	Ph.D. Awarded	Guiding Research	Thesis Submitted
Dr. K.N. Bapat	Chemistry		02	
Dr. K.K. Tiwari	Chemistry	-	04	
Dr. A.K. Jaiswal	Physics	01	03	
Dr. B.G. Sharma	Physics	-	01	
Dr. Rekha Pimpalgaonkar	Botany	01	02	01
Dr. R. Diwan	Botany	04	03	
Dr. V.K. Kanungo	Botany	05	08	03

Dr. N.B. Singh	Botany	-	01	
Dr. Sunita Patra	Botany	-	06	
Dr. Seema Gupta	Zoology	01	02	
Dr. Renu Maheshwari	Zoology	-	04	
Dr. Rajiv Guhe	Geology	01	03	
Dr. G.K. Pandey	Defence Studies	02	03 02 (PDF)	
Dr.(Mrs.) Shukla Bannerji	English	12	06	
Dr.(Mrs.) Savita Singh	English	08	06	
Dr.(Mrs.) Renu Saxena	Hindi	06	06	
Dr.(Mrs.) Vandana Kumar	Hindi	02	06	
Dr. M.S. Gupta	Maths	-	01	

5.3 STUDENT PARTICIPATION AND ACTIVITIES

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

The College provides ample opportunity to the students for sports activities. The College has facilities for most of the sports and games activities. The students of the College participate in sector level tournaments, inter collegiate tournaments, state level tournaments, inter university tournaments and at all India level tournaments. The department of sports and physical education of the College, assures the participation of College students.

The College follows two different sports calendars, the first one is the yearly sports calendar circulated by the department of higher education, Government of Chhattisgarh, consisting of 16 different sports disciplines (Male/Female) which are as follows:

1. Chess (M/F)
2. Badminton (M/F)
3. Football (M)
4. Kho Kho (F)
5. Basketball (M)
6. Kabbaddi (M)
7. Kabbaddi (F)
8. Basketball(F)

9. Table Tennis (M/F)
10. Volleyball (M)
11. Volleyball (F)
12. Cricket(M)
13. Handball(M)
14. Handball (F)
15. Kho Kho (M)
16. Athletics (M/F)

And, the second sports calendar is circulated by the Director Physical education, Pandit Ravi Shankar shukla University, Raipur which consists of 19 other sports disciplines (Male/Female) other than the sports activities included in the Government calendar.

1. Archery (M/F)
2. Ball Badminton (M)
3. Ball Badminton (F)
4. Boxing (M)
5. Cross Country Race (M/F)
6. Cricket (F)
7. Football (F)
8. Hockey(M)
9. Hockey(F)
10. Judo(M/F)
11. Netball(M)
12. Netball(F)
13. Softball(M)
14. Softball(F)
15. Swimming(M/F)
16. Lawn Tennis(M)
17. Lawn Tennis(F)
18. Wrestling(M/F)
19. Weight Lifting, Power Lifting (M/F)and Best Physique(M)

The mechanism of sports of the College is managed as below:-

First Phase: The interested students are given, in house opportunity to practice different sports and games activities, before the commencement of sector level and inter collegiate sports tournaments held at different venues, around the state.

Second Phase: The best sports persons of a specific game are selected in the College team to participate at sector level and inter collegiate tournaments.

Third Phase: The students after representing at sector level/inter College level are then short listed for State level and further for University level tournaments.

College Student representing university in any of the sports discipline is awarded by track suit from the College. Moementoes and certificates are distributed to students who excel in sports. Each and every student is awarded by certificates for participation in sports activities.

Each year in month of December of first week of January, two days Annual sports and Prize distribution is conducted. On one day a friendly cricket match is played between staff and students. The other day different other sports events is organized. Prizes and certificates are awarded to the winners of Annual Sports Day.

The Best sports person medal is awarded by sports officer of the College in memory of his late grandfather.

Different officiating: - The sportspersons of the College get opportunity to learn and get involve in different organization of tournaments. Some to them get a chance to do officiating in the intercollegiate and sector level tournaments.

Advantage in Admission as per state government norms.

Year wise Students participation in sports and games activities

2009-2010

- | | |
|---|-----------|
| 1) Total College Team participation in Inter collegiate Tournaments | – 15 team |
| 2) Total number of players participated at State level
Students | –15 |
| 3) Total number of players participated at University level
Students | –06 |

2010-11

- | | |
|---|-----------|
| 1) Total College Team participation in Inter collegiate Tournaments | – 19 team |
| 2) Total number of players participated at State level
Students | –09 |
| 3) Total number of players participated at University level
Students | –07 |

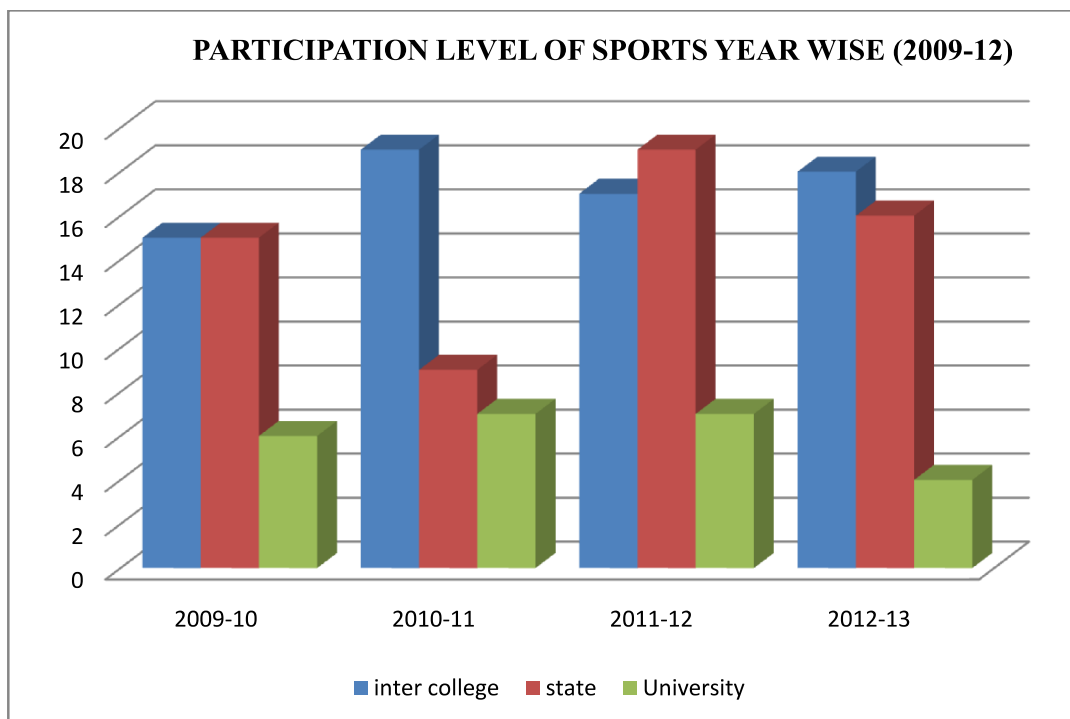
2011-12

- | | |
|---|-----------|
| 1) Total College Team participation in Inter collegiate Tournaments | – 17 team |
| 2) Total number of players participated at State level
Students | –19 |
| 3) Total number of players participated at University level
Students | –07 |

2012-13

- | | |
|---|-----------|
| 1) Total College Team participation in Inter collegiate Tournaments | – 18 team |
|---|-----------|

- 2) Total number of players participated at State level Students –16
- 3) Total number of players participated at University level Students –04



Year wise organization of sports and games tournaments by College

2009-2010

Sr. No.	Name of the Sports Male/Female	State level Organization	Sector Level Organization	Inter Collegiate Level
1.	Badminton(M/F)	State Level	-----	-----
2.	Handball (M)	-----	Sector Level	-----
3.	Basketball (F)	-----	Sector Level	-----
4.	Weight Lifting (M/F) Power Lifting (M/F)and Best Physique (M)	-----	-----	intercollegiate

2010-2011

Sr. No.	Name of the Sports Male/Female	State level Organization	Sector Level Organization	Inter Collegiate Level
1.	Netball (M)	-----	-----	intercollegiate
2.	Netball(F)	-----	-----	intercollegiate
3.	Volleyball (M)	-----	Sector level	-----
4.	Athletics (M/F)	State level	-----	-----

2011-2012

Sr. No.	Name of the Sports Male/Female	State level Organization	Sector Level Organization	Inter Collegiate Level
1.	Handball (M)	State level	-----	-----
2.	Weight Lifting (M/F) Power Lifting (M/F)and Best Physique (M)	-----	-----	intercollegiate
3.	Kabbaddi (F)	-----	Sector Level	-----

2012-13

Sr. No.	Name of the Sports Male/Female	State level Organization	Sector Level Organization	Inter Collegiate Level
1.	Handball (M)	-----	Sector Level	-----
2.	Athletics (M/F)	State level	-----	-----

Coaching- There is proper guidance for all these games by regular faculty, and the students avail these facilities.

Cultural activities- The College encourages and motivates the students to showcase their talents in cultural activities.

Youth festivals and inter College competitions- The students of the College participate in the University Youth Festival in all the fields:

- Drama(stage and street plays/ folk theatre)
- Dance(Classical and non classical, Solo and group)
- Music (vocal and instrumental, folk / solo, duet and group)
- Elocution and Debates
- Extempore Speech
- Quiz
- Writing skills (Essay/ poetry)

- Painting and Photography
- Mehndi
- Rangoli
- Flower arrangement, Salad decoration and Cookery,

Annual Day programme- The College follows the Chhattisgarh Higher Education calendar and organizes competitions in all the above mentioned fields in the month of December. Top performers are encouraged to go to higher level competitions and are escorted and given further guidance to enhance their performance when they represent the College.

The students of the College also participate in cultural activities organized by other autonomous bodies.

Extracurricular activities- The College has a lot of scope and opportunities for students in the field of extracurricular activities. The College has

- National Service Scheme- The College has two units where 200 students are registered.
- National Cadet Core- The College has three wings of NCC-Infantry, Air and Signals wings
- Red Cross - The College has a Red Cross Society, where students actively participate in various programmes like Blood Donation, Polio Awareness, ORS Week, Sickle Cell anaemia, Blood Test Camp, Cleanliness Week, Traffic Rules, Cancer Awareness Programme, Tree Plantation, Environment Protection, Diabetes Awareness Lecture, Health Awareness Programme and many others.
- Red Ribbon – The Red Ribbon cell tries to raise awareness about HIV-AIDS and organizes lectures and camps in villages to equip people to fight this evil.
- Science Club – The College has a Science Club which organizes lectures on Science and conducts competitions on making models and posters with a focus on some important emerging areas of science. It also organizes essay writing competitions on topics with different themes related to science.
- English Language Society-The Society organizes lectures on Spoken English, Vocabulary Building, Etiquette, Memory Enhancement and others. It also conducts competitions on essay writing, poetry writing and short story writing. Fun activities with Jest a Minute, Charades, Word Games are also organized by the Society. Staging self scripted plays is also an important activity of the Society. The society runs a wall magazine, Spectrum, which showcases writing, poster making, slogan writing, and sketching and drawing skills of students.

- Hindi Society- The Hindi Society organizes many programs with a focus on Hindi, the national language. It conducts debates and essay writing competitions. It is very active in all cultural activities. It organizes awareness programs on different national days and festivals. Special programmes are held on Hindi Day and days commemorating well known literary giants.
- General Knowledge Club- The General Knowledge Club conducts Tests following the Multiple Choice Question format every Saturday. Answers and scores are displayed on the Notice Boards and the top scorers are awarded prizes. The chief objective of the Club is to prepare students for competitive examinations where General Knowledge is a necessary and compulsory component.
- All the PG Departments have their societies involving PG students which organize various academic co-curricular activities.

5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University/ State/Zonal/National/International, etc.

Name of Students	University	State	National	International
Sagar Pimpalapure	Painting competition (first prize)	1. 1 st Prize in Essay Competition- a cash prize of Rs 5000/- 2. 1 st Prize in Essay Competition, organized by University of Journalism- a cash prize of Rs 2500/-		
Santosh Maurya	Essay Writing Second prize			
Vaibhav Jaiswal	Speech on fearless polling by SVEEP First prize			
Shrishti Sharma		Chhattisgarh Hindi Sahitya Sammelan- Poetry Recitation		
Lalita Sahu	Essay Writing 1 st position(On Human Rights Day)	Chhattisgarh Hindi Sahitya Sammelan- Poetry Competition		
Rachna Jurri			won the Best Poster Award at a National Conference	
Vernika Sharma			Best paper presentation in Defence Studies	

			in XI Chhattisgarh Young Scientist Congress 2013	
Durgavati Patel			Best NSS volunteer awarded by President and vice president of India	NSS volunteer is nominated for NSS in Youth exchange programme in South Korea.
Bonnie Upadhyay	1. Debate on fearless polling, organized by Election Commission of India(First Prize) 2.Extempore speech on polling organized by SVEEP (First Prize)			
Santosh Moriya	1. Debate on fearless polling, organized by Election Commission of India(second Prize) 2.Extempore speech on polling organized by SVEEP (second Prize)			

5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?

The College collects feedback on subject and faculty from the students **once a year**. It is done in the form of questionnaire with a grading scale. The feedback is used to reassess the syllabus and incorporate the findings and suggestions to strengthen the support services to students.

5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development the College?

Yes, the College does seek feedback from employers and graduates to help bring in positive development and growth in the College. It does it by

- Student feedback- the College collects feedback every year from the students in the form of a questionnaire with a grading scale.
- Alumni feedback – The alumni of the College meet every year and try to improve their alma mater by valuable suggestions gained by their on- the- field experience in the work arena. Two members of the alumni are nominated to the Janbhagidari Samiti, which takes important actions in improving the College.

- The College functions under the Chhattisgarh Higher Education Department and it is affiliated to the Pandit Ravishankar Shukla University, Raipur Chhattisgarh. The system of collecting feedback from both these bodies is done by the mechanism of having nominated members from the government and the university in the Academic Council, the Janbhagidari Samiti and the Governing Body.
- The Janbhagidari Samiti also has members who are representatives from diverse fields such as industry, agriculture, donors body, alumni, parents, women, SC/ST/ OBC and others who give valuable feedback from different fields on how to improve the College and empower the students and support them to carve a niche for themselves in the outside world.

5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the major publications/materials brought out by the students during the previous academic session.

The College is very rich in the quality of the faculty and the students are encouraged to write and publish their articles.

- *Manisha* - *Manisha* is the annual College magazine which publishes articles by students and faculty. Prize winning entries by students in different competitions are published here.
- *Botanical Essays*- Since 1987, the Department of Botany has been publishing Botanical Essays, in which PG students write articles related to their syllabus and teachers edit them and then it is published annually.
- *Wall Magazines* are maintained by all the departments where posters, short articles, scientific flowcharts and other important nuggets of information on contemporary research are displayed.
- *Spectrum*- *Spectrum* is a wall magazine maintained by the Department of English where creative writing, poems, quotations and motivational articles find pride of place.

5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

Yes, the College has a Student Council, which is constituted of members and office bearers nominated on a purely academic performance. It has a President, a Vice President, a Secretary and a Joint Secretary. It also has a Class Representatives from each section, nominated on their performance in the previous examination.

The Student Council takes an active part in all the activities of the College. It renders service in the organizations of seminars and workshops and other extracurricular

functions of the College. It plays a very important role in conducting and organizing the Sports Day and the Annual Gathering of the College.

Fund for the annual function is given by the College from the College funds.

Any additional information regarding Student Support and Progression, which the institution would like to include

College has three units of NCC

- **Infantry**
- **Signals**
- **Air wing**

- **Infantry** – NCC infantry is a significant unit in this institution with strength of 54 cadets. 33% seats are reserved for girl cadets. 20-30 cadets are enrolled every year. Commissioned NCC officer commands and controls the troop. Many cadets get commission in different units of Indian-Army, Para-Military-Forces and other Armed forces and still work on various ranks.

Year wise strength of all the Girls and Boys cadets for the year 2013-14 of this unit is given below.

Year	Girls Cadets	Boy Cadets	Total
First	07	19	26
Second/Third	10	18	28

Various ranks allotted to the cadets for the current year are given:-

Rank	Name	Year in NCC	Class in College
SUO	Sachin Tiwari	C Certificate	B.Sc. Part III
JUO	Pradeep Verma	C Certificate	B.Sc. Part II
JUO	Ku. Anita Patel	C Certificate	B.Sc. Part II
SGT	Ku. Usha Sahu	C Certificate	B.Sc. Part II
SGT	Rajkumar Yadaw	C Certificate	B.Sc. Part I
CPL	Kaushal Kumar Thakur	C Certificate	B.Sc. Part II
LCPL	Surendra Kumar Nishad	C Certificate	B.Sc. Part II

CQM	Chova Ram Sahu	C Certificate	B.Sc. Part II
LCPL	Yogendra Singh	C Certificate	B.Sc. Part II

Cadets of this unit have actively participated in various activities. Some of which are summarized below:-

2009-2010

1. Cadets attended CATC camp at Bhilai and have got first prize in drill- competition.
2. Cadets participated in NCC day celebration parade at Govt. Science College ground, Raipur.
3. Cadet Prashant Verma and Priyanka Nayar selected at different levels and finally for New Delhi to attend Thal Sena Camp.
4. One Cadet selected in CRPF as Constable.
5. NCC Officer Lieutenant Kishore K. Tiwari along with 30 cadets attended Army Attachment Camp at Pithoragarh (Uttarakhand).

2010-11

1. SUO Chandrasekhar Kanwar selected in SSB interview and finally became commissioned officer in Indian Army with rank of Lieutenant.
2. Cadet Manju Sahu selected at different level and finally for New Delhi to attend Thal Sena Camp.
3. JUO Vedana Sahu selected and RDC camp at New Delhi where President of India saluting the parade.
4. NCC officer Lieutenant Kishore K. Tiwari played role of Camp adjutant in NIC Camp at Chitrakut (MP).

2011-12

1. SUO Swapnil Sinha selected and attended RDC camp at New Delhi where President of India salutes the parade.
2. 05 cadets attended National Integration Camp at Ernacullum, Kerala where they have got 2nd position in National Integration presentation.
3. 03 cadets of this unit selected for trekking Camp at Amarkantak (MP).
4. JUO Hemendra Honale selected for malavankar shooting competition up to 5th level.
5. Cadet Tejendra Sahu selected and attended Thal Sena Camp up to 6th level.
6. 10 cadets selected by local Police to assist them in traffic control in Ganeshotsva and Durga Poojan.
7. 08 cadets participated in Pulse Polio Abhiyan organized by State Govt.
8. 02 cadets have donated blood.

9. NCC officer Lieutenant Kishore K. Tiwari attended CATC camp at Bhilai where he was played role of camp adjutant and one of the member of TSC selection committee. He also attended National Integration Camp at Ernacullum, Kerala along with 16 cadets of different Colleges of the State.

2012-13

1. NCC officer attended CATC camp at Govt. NPG College of Science Campus where he was played role of camp adjutant and one of the member of TSC selection committee.
2. NCC officer conducted Seminar in which 28 ANOs presented lectures on different topics at CATC camp which was held in Govt. NPG Science College stadium, Raipur.
3. Cadets of this institution were honored in special events by Honourable Governor at Raj Bhawan for their best performance in overall NCC activities.
4. Cadets of this institution celebrated NCC day in College campus in presence of the Principal Dr. K.N. Bapat.
5. JUO Adarsh Kumar selected in Indian Air Force for the post of Airman.
6. Cadet Bhola Ram Sahu selected in Para-Military-Force for the post of constable.
7. **DG NCC Lt. Gen P.S. Bhalla AVSM** visited the College and interacted with NCC officer and Cadets of this College.

NCC Signal

There are 51 cadets in NCC Signal including 28 Boys and 23 Girls in 2013-14. Cadets get training in handling engineering and mechanical work of war related maschine, tanks etc. cadets attended in various camps year wise from 2009-10 -2012-13.

Students attended in various camps from 2009-10 -2012-13.

Year	Camps	Date	Number of students	Place
2009-10	Combined Annual Training Camp – XII	26.09.09-05.10.09	09	Bhilai
	TSC – CATC- I		06	
2010-11	CATC –X	15.09.10-24.09.10	12	Bhilai
	CATC –XVI	25.10.10-04.11.10	20	Navapara Rajim
2011-12	CATC –XIII Pre VSE Camp	19.10.11-28.10-11	07	Bhilai sector - 3

	RDC – II camp		07	
	Mountaineering camp	10.10.11-19.10.11	08	Bhilai sector - 3
	CATC –XIX	20.11.12-16.01.12	01	
		16.01.12-20.01.12		Navapara Rajim
2012-13	CATC –V	25.08.13-30.09.13	05	IGKVV
	CATC –VIII/inter unit competition camp	21.1.13-30.10.13	02	Vidhan sabha road Raipur
	CATC –VIII/inter unit competition camp	26.09.13-05.10.13	11	Bhilai sector - 2

NCC Air wing

NCC Air wing is significant unit in this College with strength of 50 cadets including Boys and Girls. Their functions are same as NCC army/signals except they get training in aero modeling, drill etc. NCC Air wing gives training to NCC cadets every year by organising Combined Annual Training Camp. At national level this camp has been organized by AIVSC Banjaluroo every year. In 2012-13 five cadets attended in AIVSC camp and showed their outstanding performance. NCC Air wing cadets also organize tree plantation, Blood donation and other rallies.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 INSTITUTIONAL VISION AND LEADERSHIP

6.1.1 State the vision and mission of the College.

Vision – The vision of the College is to create a centre of academic and scientific excellence, imparting education of the highest standard, shaping the youth for the bright future of the nation and the world. The institution is committed to generate skilled, creative, competent, technically trained, self reliant youth, honed with the scientific temper. The College has a vision that the students who march out of its portals are leaders, morally upright and courageous, socially responsible and have a humanistic world view.

Mission –The mission of the College is to provide value based education

- To ensure exposure to the latest developments in diverse disciplines
- To enhance employability skills of the students of the region
- To make students technology savvy by generating computer and web based designs
- To generate a culture of hands on learning and research
- To facilitate research in traditional and emerging areas
- To provide courses in tandem with the burgeoning industry requirements of Chhattisgarh, an adolescent state
- To provide courses that tackle the present and impending environmental crisis
- To improve the level of English by introducing Communication Courses in English
- To strive to cater to the tribal and less privileged sections of society
- To enhance the contribution of the College to the society by raising awareness through community development programmes.

6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.?

Yes, the mission statement defines the College's distinctive characteristics in terms of addressing the needs of the society at large and the students in particular. The vision and mission statements have been designed keeping in mind the intellectual potential and the needs of the region. The majority of students in the College come from rural, tribal and economically weak sections of society. The College is committed to serving the requirements of the above, and seeks to make education accessible to all.

The College has a rich heritage and a tradition of excellence in the academic field as is underlined by the luminaries it has produced. The College has introduced a number of modern, professional and technical courses with a vision for the future. The College believes in the core values of humanism, nationalism and commitment to society and provides a holistic education.

6.1.3 How is the leadership involved in

- Ensuring the organization's management system development, implementation and continuous improvement
- Interaction with stakeholders
- Reinforcing culture of excellence
- Identifying needs and championing organizational development (OD)?

The Principal is the academic and administrative head of the college. The faculty of the college offers active positive support to the Principal so that he

can formulate strategies for academic growth within the purview of the UGC, the University, and the Higher Education Department of the state.

- The leadership ensures that the organization's management system functions smoothly and the development process and improvement strategies are followed meticulously. The principal has the administrative acumen and power to actualize the ultimate goals of the College. The system of management of College is:
 - The Principal is responsible for both academic and administrative functioning of the College. He works in accordance with the directives given by the Commissioner, Higher Education Department, UGC, and Pt Ravishankar Shukla University. The Principal constitutes different committees of faculty which play a significant role in planning and implementation of academic/ cocurricular activities in the College. He appoints wardens to look after the students in the hostels. He also ensures the involvement of non teaching staff for smooth administrative functioning.
 - The Controller, Examination Autonomous Cell is responsible for all the activities which are necessary for the evaluation process. He is assisted by one Deputy Controller, two Assistant Controllers, and a team of responsible Faculty members. The College has a time tested meticulous management system for conducting examinations. The chief challenge is that the College has to conduct both Semester and Annual examinations and also the Quarterly and Half Yearly Examinations. The implementation of the system is followed rigorously. There is a proposal on initiating a change in the Question paper pattern, with a stress on Objective Questions, keeping in mind the NET/ SLET examinations.
 - The Heads of Departments are the senior most faculty of each department and they are delegated with the responsibility of managing, implementing new schemes and improving the administrative, academic and over all development of the department.
 - The College has a number of Committees, which function under the guidance of the Principal. These committees ensure that the administrative, academic, curricular and extracurricular activities of the College move smoothly. The Principal gives the duties to the faculty members according to their interest and expertise.

Different Committees of the College

Statutory Body	Non Statutory Body			
	Administration (A)	Academics (B)	Cultural and sports (C)	Examination (D)
<ul style="list-style-type: none"> ➤ Governing Body ➤ Academic Council ➤ Board of Studies ➤ Janbhagidari Samiti ➤ Finance committee 	<ul style="list-style-type: none"> ➤ Discipline ➤ Anti ragging ➤ Legal matter ➤ Women harassment cell ➤ Equal opportunity ➤ Grievance redressal ➤ College web site 	<ul style="list-style-type: none"> ➤ IQAC ➤ QAC ➤ Staff council ➤ Academic audit ➤ GK club ➤ E-class ➤ Research ➤ Library 	<ul style="list-style-type: none"> ➤ NSS ➤ NCC ➤ YRC ➤ Red Ribbon ➤ Science club ➤ Sports Committee ➤ Cultural Programme committee 	<ul style="list-style-type: none"> ➤ Autonomous examination cell ➤ College examination committee ➤ Other examination committee
	Career guidance cell (E)	Building construction committee (F)	Purchase committee (G)	Scholarship committee (ST/SC/OBC) (H)

- Internal Quality Assurance Cell / Quality Assurance Cell- The IQAC and QAC are important bodies of the College and they plan and monitor academic and other programmes. It has regular meetings to assess the functioning of the College and tries to make suggestions for improvement.
 - The Registrar- The Registrar of the College looks after the financial matters of the College, and works with the Principal. He assists in the general administration of the College
 - The Office and Support Staff- The College has an automated office with a team of experienced office staff who assist in the administrative functioning of the College. There are requisite number support staff who assist in the administration of the College.
- **Interaction with Stakeholders-** The College has a system of continuous interaction with all the stakeholders: students, parents, alumni and industry.

- Students - The Principal interacts with students during the Induction Programme; while taking rounds of the College; during different academic and extracurricular activities of the College.
- Parents- Parent–Teacher meetings are held so that the progress of the students can be monitored. Parents are always free to come and meet the Principal and teachers. Head of Departments interact with parents of UG/PG students and solve their problems.
- Alumni – The College alumni have annual meetings and they suggest method of improvement of the College to the Principal. Distinguished alumni are nominated as members of the Board of Studies, and the Janbhagidari Samiti. They contribute to the development of the College through their valuable suggestions.
- Industry-The College has nominated members from industry in its Governing Body and the Janbhagidari Samiti and they offer valuable advice. The various departments and the College Career Guidance and Placement Cell invites members from industries to motivate and guide students. They also give valuable feedback on the viability of the programme structures, and give suggestions.
- **Reinforcing culture of excellence** – The College has a tradition of pursuit of excellence. The faculty members and support staff are the two strong pillars of the College which give their best, and the participatory role of both enables the head of the institution to run the College effectively and efficiently. The College endeavours to give a holistic education, with special stress on academics and research.
 - The Principal closely monitors the excellence in academic programs through Academic Calendar, Boards of Studies, Time Table, Staff meetings, Daily Diary of faculty members, taking rounds of the College, and ensuring the timely conduct and declaration of results by the Autonomous Examination Cell.
 - He also encourages participation in extracurricular activities and makes committees with faculty members as coordinators to monitor the progress. Sports, NCC, NSS, YRC, Red Ribbon Club, Departmental Societies

6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

The senior leadership positions of the College have never remained vacant as the College is a lead College of the region and bears the responsibility of many government programmes.

6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

The College is a Government College which functions under the Chhattisgarh Higher Education Department, which is guided by the UGC, and the College is affiliated to the Pt Ravishankar Shukla University, Raipur.

The statutory bodies within the College are the Governing Body, Academic Council, Board of Studies, and Janbhagidari Samiti. Regular meetings are held to discuss the important matters on the agenda.

6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management?

Yes, the College promotes a culture of participative management at all levels. All the teachers of the College play a significant role in the planning and development of the College. The head of the institution takes rigorous meetings with the heads of departments, members of different committees, and faculty members. The Principal discusses matters, takes suggestions, incorporates them, and gives autonomy to the faculty members to perform their duties. The Principal also takes regular meeting with the Registrar, office staff and support staff to ensure participative management in the general administration of the college.

6.1.7 Give details of the academic and administrative leadership provided by the University to the College?

The College is affiliated to the Pt Ravishankar Shukla University, Raipur. The College is a lead College of the district and has the status of a college with Potential for Excellence by UGC. The University regularly assigns many academic and administrative jobs to the faculty members of the College.

- Principal – Since the College is a lead College, the Principal is assigned many important roles and responsibilities by the University, both in academic and administrative capacities.
- Boards of Studies – Several faculty members of the College are subject experts at the University in their respective subjects.
- Research Guides at University – 22 faculty members are registered guides for Ph.D. in different subjects.
- Examination – The Faculty members of the College are regularly involved in Examination paper setting and evaluation; are Members of the University Flying Squad; Conducting Practical examinations; the College is a Distribution Centre for University papers; University Distribution Centre for answer books; the College is regularly an Examination Centre for University Examinations (BA, B.Ed.); and IGNOU Centre for practical examinations.

6.1.8 How does the College groom the leadership at various levels?

The College has a culture of delegating responsibilities to faculty members according to their expertise and interest so that the leadership qualities are developed. Students are also groomed as leaders.

- The Principal is the chief leader and he is at the helm of affairs of the College. He conveys his views to the faculty and tries to get his vision translated into action. He is responsible for grooming leadership qualities at various levels.
- The College has a system of making Committees with coordinators to shoulder various responsibilities of the management of the College. The leadership qualities are thus enhanced.
- The Head of Departments play an active part in leading different academic and departmental endeavours, and organizing departmental programmes.
- Students are groomed as leaders as there is a Student Union. The Student Union is made up of nominated students strictly on the basis of merit. It has four office bearers: President, Vice President, Secretary, Joint Secretary
- Class Representatives of each section are nominated on basis of merit
- Departmental societies, made up of PG students, are involved in various activities and hone their leadership skills.
- The Sports field is a grooming ground for discipline and team spirit. The Sports officers groom leadership quality at various levels among the students.
- Students are actively involved in all the extracurricular activities. The various student organizations like NSS, NCC, Sports, Language Societies, GK Club, Career Guidance and Placement Cell, Science Club are conducive to leadership enhancement.
- The Hostel wardens depute a number of responsibilities to deserving students and thus develop leadership qualities.

6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

The College has a well defined strategy for knowledge management as the curriculum and syllabus are discussed and finalized in Board of Studies and Academic Council meetings.

6.1.10 How are the following values reflected in various functions of the College?

- Contributing to national development
- Fostering global competencies among students
- Inculcating a value system among students

- Promoting use technology
- Quest for excellence

The College has a vision for preparing its students for facing the challenges of the highly competitive academic and professional world, and at the same time making them conscious of their duties towards the nation and the world.

- **Contributing to national development-** The College contributes to national development by
 - Faculty members' contributions in the field of research and motivated teaching
 - Placements of students in the field of Defence and national service; politics; administration; professional field; academic field; art and culture
 - Active unit of the National Service Scheme which holds various functions throughout the year
 - Active units of the National Cadet Core in the Air, Army, Signals wings
 - Empowering the weaker sections of society, tribals, and differently abled through various schemes
- **Fostering global competencies among students** – The world has become a global village and students cannot survive without the skill to face the world. The College develops these skills through
 - Network Resource Centre which provides access to information across the globe
 - English Language Laboratory which enhances communication skills in English, the international language
 - Computer Science Department which helps in providing expertise in the use of computers, the major tool of this age
 - Information Technology Department which equips students with the technique of accessing, handling and processing information in this age of information explosion
 - Environment Science as a compulsory subject which raises awareness of the means of recognizing and facing the environmental crisis
- **Inculcating a value system in the students-** Students that pass out of the holy precincts of this old College vouch for all they have learnt. The College has a rich tradition of inculcating a deep value system in its students. It does so by
 - Baudhik Vikas Samiti which organizes lectures on Indian philosophy, ethics and Indian value system.

- Foundation Course (English and Hindi), a compulsory course has chapters on the Indian values and culture and which are thus imparted to the students
- Lectures by members of the Ramakrishna Mission, the Brahmakumaris and other bodies are being organized from time to time
- Cultural activities, Staging Plays and music performances showcasing Indian values and social issues; celebrating religious and national festivals
- Guru Shishya traditions are inculcated as faculty members are always guiding students
- **Promoting use of technology** – The College has a system of promoting the use of technology in all its programmes by
 - E-classroom where students can get the benefit of lectures by eminent professors from IIT , Kanpur
 - Use of Power Point lectures by faculty
 - Use of technology in the form of available software in the field of different sciences
 - Seminar/ project presentations by Power Point by students
 - Automated library services with internet access
 - Use of computers in the office
 - Network Resource Centre
- **Quest for excellence** – The College strives for excellence in the overall holistic development of its students by providing
 - Qualified devoted competent faculty who are excellent in teaching the curriculum
 - Infrastructural facility in the form of classrooms, well equipped laboratories
 - Participation in competitions at College, university, state and national level
 - Excellent sports facilities
 - Extracurricular activities- cultural, social, NSS, NCC and many others

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.

The UGC Autonomous review committee visits the College every six years and inspects all the departments, including the Autonomous Examination Cell. It extends the autonomy for six years. Its recommendations are complied totally.

6.2 STRATEGY DEVELOPMENT AND DEPLOYMENT

6.2.1 Does the College have Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.

- Teaching and learning
- Research and development
- Community engagement
- Human resource planning and development
- Industry interaction

The College works with a focus on the continuous improvement of the physical and academic ambience as well as the infrastructural development of the College.

1. **Teaching and learning** – there is a great emphasis on teaching learning process. College library is well equipped with 1, 00,858 books and 3,070 journals in addition to digital resources including INFLIBNET. Both traditional and modern teaching methods are adopted for teaching. LCD projector, OHP and laptop computer are frequently used by the faculty in the class rooms to keep pace with the information explosion round the world for the students an English language lab is set to improve language proficiency. Students who have chosen IT and computer science, BCA, DCA, and PGDCA are exposed to well equipped labs. The College promotes interactive learning through study tours, field work, workshops and academic seminars. Academic progress of the students is assessed through class tests, quarterly and half yearly exam. The difficulties of weak students are addressed in remedial classes.
2. **Research and Development** - The College plan very systematically in planning research activity. It is a research center for seven subjects. There is a research committee in a College to foster a culture of research among teaching staff, research scholars and students. The Head of the intuition motivates the teachers of all departments to take up research projects and to organize as well as attend conference and seminar to get updated with the latest researches going on in a specific field. Publication of research findings and presentation of research paper is common practice of almost all the departments.
3. **Community engagement**- The College NCC unit, NSS unit and Red Cross committee are very active in community engagement programmes field visit, tree plantation, road and traffic safety programmes, Blood donation campaigns, Blood group identification and to maintain record of Blood donors are some of the community engagement programmes undertaken every year. Various days like international AIDS day, international environmental day etc. are observed. Many social activities are handled by NCC and NSS units in a commendable manner.

4. **Human resource planning and development** – The College has a prospective plan for the development of students, the strongest Human resource by providing adequate facilities for various academic and scientific activities so that they can grow as the responsible citizens.
5. **Industry interaction** – The College promotes interaction of the students with the industry through career guidance which conducts seminars from time to time. Students visit industry for their project work in Biotechnology. Some industries also conduct job recruitment drives in the campus to select youth with excellent potential.

6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.

The Principal of the College is actively involved in all the decision making processes. Various committees are made and they discuss matters thoroughly and finally take decisions, in keeping with the state government, UGC and University norms, the College has the following organizational structure:

- College Governing Body
- Janbhagidari Samiti
- Academic Council
- Board of Studies
- IQAC/ QAC
- Autonomous Examination Committee
- Finance Committee

The College has a clearly demarcated internal organizational structure which is transparent, inclusive, and committed to quick decision making and implementation. The responsibilities are clearly divided to ensure accountability

- Administrative decisions are taken by the Governing Body, Janbhagidari Samiti
- Academic Council, Staff Council, IQAC, QAC, Board of Study make decisions on matters of academics, syllabus and curriculum
- Examination Autonomous Cell make decisions on issues related to examinations
- Finance Committee, Janbhagidari Samiti discuss matters of finance

6.2.3 Specify how many planned proposals were initiated/implemented, during the last four years. Give details

Plans initiated/ implemented/ in process-

Academics:

- College with Potential for Excellence (March 2010)
- New subjects at the UG level- Biochemistry, IT
- New PG courses-Biotechnology, PGDCA,
- Professional courses-PGDCA, BCA, DCA
- Research facilities

Examinations

- Semester system at PG level
- Internal assessment Test / Seminar / Project
- Unit/ quarterly/ half yearly examinations at UG level
- Computerization of Examination Cell

Academic facilities through infrastructure

- Network Resource Centre
- e-classroom
- English language Lab
- Central Instrumentation Lab
- Construction of 23 Classrooms
- Renovation and extension of Laboratories
- Enhancement of Library resources- Reading room, automation, e-facility
- New Research laboratories- Botany / Biotechnology
- Tissue Culture Laboratory under construction
- Computer Laboratory

Infrastructural development of campus/ buildings

- Construction of a new Girls Hostel
- Construction of new Sports grounds
- Renovation of campus buildings
- Beautification of campus- tree plantation, gardens
- Boundary wall by Government, increasing security
- Computerization of office
- Residential facilities for Guests

6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

The quality policy of our institution has been formulated to cautiously strive for the comprehensive development of faculty and students from diverse colors of cast and creed. The primary attention of our College is on academic

excellence, personality development and social orientation through which desired quality can be achieved. Academic merit is maintained, however, following the reservation rules. Performance of the students is monitored systematically throughout the year. Appraisal of the performance of teachers and administrative staff is done regularly by the Principal. The quality policy is reviewed through the feedback of all stake holders.

6.2.5 How does the College ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

The College has a Grievance Redressal Cell, Sexual Harassment Cell, Discipline Committee, Anti ragging committee, a Complaint Box, a Suggestion Box. Meetings are held whenever necessary to tackle the grievances and find suitable solutions. The committees handle the issues immediately by discussing the matter openly with the parents and students.

Examination cell remedies grievances through retotalling, revaluation and providing Xerox copies of answer sheets following a proper procedure.

6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

The Feedback is collected from students regularly through open discussions, graded questionnaires, and through Parent teacher meetings. Relevant, positive and constructive institutional response is taken to solve the problems exposed through the feedback.

6.2.7 In what way the affiliating University helped the College to identify the development needs of the College?

Academic and research development needs and requirements of the College are identified by the university. Rules of autonomy are framed / updated by the University

6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and university Development (BCUD)? If yes, in what way College is benefitted.

Yes, the University has a College Development Council. The support of the Council is received by the College in many areas: affiliation for new courses; Syllabus; extension of autonomy; and research centre activities.

6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized?

The feedback is collected through meetings and discussions at all levels and in all spheres.

- Teaching staff give regular feedback through a number of Staff Meetings, and try to find feasible solutions to the problems that crop up from time to time. The meetings contribute to the smooth functioning of the College
- Non teaching, technical and non technical staff give informal feedback to the Principal and he takes necessary action.
- Alumni meetings are held regularly and members of alumni are nominated to the Board of Study, and the Janbhagidari Samiti
- Parents give their valuable feedback through Parent Teacher meetings, and parents are nominated members of Janbhagidari Samiti.
- Industry representatives are nominated to the Janbhagidari and to the Governing Body to get their valuable feedback.

6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?

The academic departments get autonomy in Board of Studies meetings; and making departmental enhancement through academic proposals on opening new subjects; initiation of improvement in infrastructure in the form of renovating / constructing class rooms / laboratories.

Accountability is ensured as the entire process of changes initiated in academic, administrative and development fields gets ultimately finalized by the Principal.

6.2.11 Does the College conduct performance auditing of its various departments?

Departmental Reports are prepared annually.

6.3 FACULTY EMPOWERMENT STRATEGIES

6.3.1 What efforts are made by the College to enhance the professional development of teaching and non teaching staff?

The professional development of the teaching faculty is enhanced through the following:

- Orientation/ Refresher Courses

- Encouraging staff to attend International and National Conferences/ Seminars/ workshops
- Motivating faculty and departments to organize seminars/ conferences/ lecture/ workshops
- Inspiring faculty to avail grants and projects
- Motivation for research activities
- Writing/ editing books and journals
- Providing Duty Leave and TA/ DA

The non teaching staff is sent for Government computer training programmes.

6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

Performance Appraisal reports are prepared on a proper format prepared by the Higher Education Department. The forms are filled by the faculty members and after verification by the Principal, are submitted to the State Higher education department.

6.3.3 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?

The College is a Government institution therefore the schemes adopted by the Higher Education, Government of Chhattisgarh are followed. The schemes for faculty welfare including monetary and career advancement benefit and loan facility are available to the faculty. At an institutional level the College provides residential facility, that is, Government quarters to teaching and non-teaching staff if needed. There is a dispensary in the campus with a regular Doctor to look after the health problems of the staff.

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty measures taken?

The College is a government College and there is no provision for retaining eminent faculty.

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

No.

6.3.6 Does the College conduct any gender sensitization programs for its staff?
No

6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

The College faculty benefits immensely by the UGC ASC programmes of Orientation/ Refresher Courses.

6.4 FINANCIAL MANAGEMENT AND RESOURCE MOBILIZATION

6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

The effective and efficient use of financial resources is ensured through a proper system adopted by the College. College gets funds from four different sources: University Grant Commission, State Govt. Higher Education department, Janbhagidari samiti, funds generated through self financing courses, Lab fees and other charges taken from students.

All the financial matters are handled by the Registrar and his subordinate staff under the administrative control of the Principal. This team looks after the entire accounting including treasury and bank operation as well as preparation of annual budget of the College. All the financial proposals for development of the departments are submitted to the Principal for approval. After approval the purchase process is made through purchase committee.

6.4.2 Does the College have a mechanism for internal and external audit? Give details.

All the accounts of the College are regularly audited by both internal and external audit system. The internal audit is conducted every year by the State Government. The external audit is conducted by Accountant General, Chhattisgarh (AGCG).

The entire audit done is subjected to AG, Government of Chhattisgarh. In addition to this the Janbhagidari fund and UGC fund are audited by registered Chartered Accountant.

6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.

Audited income and expenditure statement of academic and administrative activities (2007-13)

Financial Year	Allotment						
	Government	Contingency	P.D./A.F.	Exam	UGC	Janbhagidari samiti.	Total
2007-08	37517000	1280000	4850107	1217728	891952	953831	46710618
2008-09	37346000	1211000	4691358	1552912	1721952	819993	47343215
2009-10	55215000	869000	5404563	1443130	3745604	1529965	68207262
2010-11	140392000	895000	6481816	1733920	16657192	1151155	167311083
2011-12	94904442	751000	6709317	2049315	0	1304297	105718371
2012-13	91608245	1091000	7643635	2453880	2250000	1615831	106662591
Total	456982687	6097000	35780796	10450885	25266700	7375072	541953140

Financial Year	Expenditure						
	Government	Contingency	P.D./A.F.	Exam	UGC	Janbhagidari samiti.	Total
2007-08	34410000	1229000	4743319	723681	819557	903831	42829388
2008-09	43401000	1132000	4656689	743311	1252405	828367	52013772
2009-10	51328000	838000	4996823	1003177	3288281	1518760	62973041
2010-11	140390914	892075	6775087	1224913	13308182	1176540	163767711
2011-12	90694263	747337	7007662	1492338	0	814900	100756500
2012-13	98022313	1034180	7157726	2342274	2146017	1790610	112493120
Total	458246490	5872592	35337306	7529694	20814442	7033008	534833532

Classified Expenditure of last 06 years

Type of Expenditure	Financial Year					
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Salary to Staff	34410000	43401000	51328000	140390914	90694263	98022313
Stationery Including Printing	205945	182933	289539	362404	678470	405899
Remuneration for examiners, TA & DA for Various authorities	397705	525869	593192	657035	697717	927347

Equipment	1440118	1012343	1933066	6595816	2846017	715000
Other Contingency expenditure.	6375620	6891627	8829244	15761542	5840033	12422561
Total Rs.	42829388	52013772	62973041	163767711	100756500	112493120

6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

The accounts of the College are audited regularly and no major audit objection has arisen till now.

6.4.5 Narrate the efforts taken by the College for resource mobilization.

The College mobilizes funds through self financing courses and Janbhagidari Samiti.

6.4.6 Is there any provision for the College to maintain the ‘corpus fund’? If yes, give details.

NO

6.5 INTERNAL QUALITY ASSURANCE SYSTEM

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

Yes, the College conducts an academic audit. There is an Academic Audit Committee in the College.

- The academic activities are monitored by the Principal, the Head of Departments and IQAC meetings
- The Controller of Examination organizes a meeting with the Principal and Head of Departments before declaration of results
- At the end of each session and semester, the results are analyzed and the needful is done

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

The Academic Audit Committee has been formed recently to monitor the progress of academic activities, to follow the academic calander and concrete measures of evaluation so as to improve teaching learning process.

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodology of operations and outcome?

There is a QAC/ IQAC cell, which have meetings and make suggestions.

6.5.4 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

The IQAC has external members from management institutes and industry as members. These members give valuable advice on the improvement of the system of management and suggestions of making the curriculum suited to the industry needs.

6.5.5 Has the IQAC conducted any study on the incremental academic growth of student from disadvantaged sections of society?

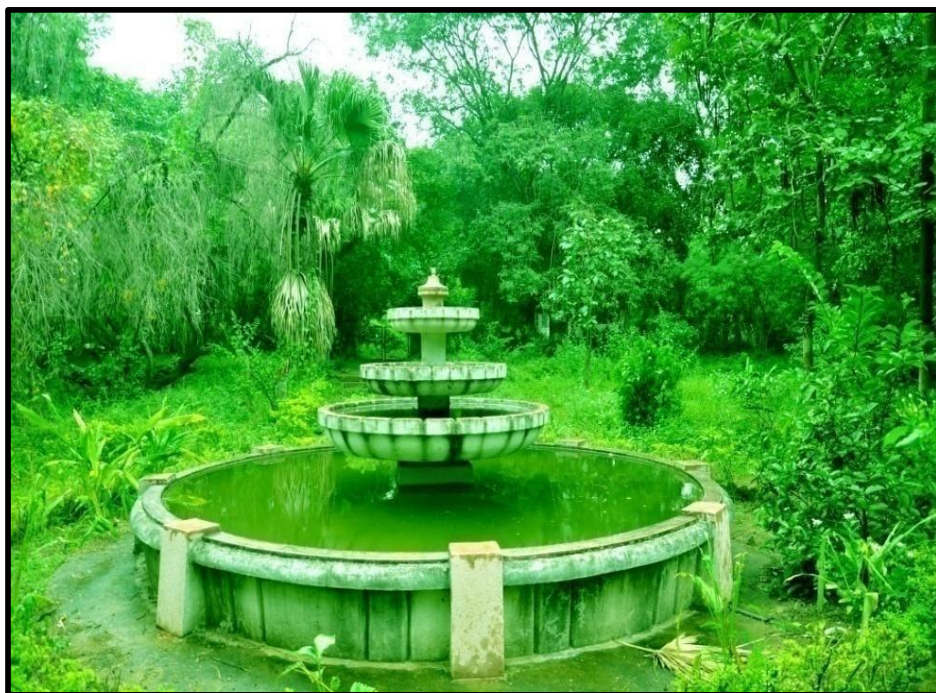
No, the IQAC has not conducted any such study.

CRITERION VII: INNOVATION AND BEST PRACTICES

7.1 ENVIRONMENT CONSCIOUSNESS

7.1.1 Does the College conduct a Green Audit of its campus?

The College has a Green Audit Committee, headed by a senior faculty member. The committee reviews the campus and after a study, marks out areas where plantations are feasible. Small gardens have been developed within the premises of the college. The college has a well maintained Botanical garden with a variety of rare tree and plants. The college maintains a water harvesting system. The faculty of the college contributes enthusiastically to the endeavours of the Green Audit Committee.



7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- **Energy Conservation**
- **Use of renewable energy**
- **Water Harvesting**
- **Check Dam Construction**
- **Efforts for Carbon neutrality**
- **Plantation**
- **Hazardous waste management**
- **Campaigns on Green Campus**

The beautiful green campus of the college underlines the environment conscious efforts that are made to have an eco-friendly campus.

- **Energy Conservation:** The classrooms of the College are airy and bright and there is very less use of tube lights during class hours. Low energy consumption lights are being used in most places. There is controlled use of ACs in the College. Lectures by eminent speakers from CREDA and other institutes on Energy Conservation are organized by departmental societies.
- **Use of renewable energy:** Nil
- **Water Harvesting:** The College has a water harvesting unit. It is interesting that it is this harvested water which is utilised during the entire session in place of distilled water.
- **Check Dam Construction:** Nil
- **Efforts for Carbon neutrality:** The greenery in the campus and the efforts to plant more trees contribute to neutralising carbon.
- **Plantation:** The College is committed to a regular practice of tree plantation. The NSS, NCC, Forest Department, Alumni, faculty members contribute to this effort. *Vriksh Raksha Sutra* is a programme organised by the NSS. The *Mahila Kalyan Evam Sewa Samiti* has also visited the campus and flagged off Tree Plantation drives.
- **Hazardous waste management:** The hazardous waste from the Chemistry laboratories are disposed through a proper underground drainage system
- **e-waste management:** e-waste is written off and disposed properly
- **Campaigns on Green Campus-** Clean Campus; Say No to Plastics; use of bio degradable material in the college in the form of paper bags; use of dust bins; bio degradable disposables in the College Canteen are some of the other efforts made to keep the college campus eco friendly.

7.2 INNOVATIONS

7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

The College has introduced several innovative practices during the last four years in academic, administrative and research field.

- The faculty members give awards and gold medals, in memory of their departed loved ones, to deserving students in different subjects
- Books are distributed to students by faculty members, who also give special guidance
- General Knowledge Club has been set up
- Equal Opportunity Cell conducts invited lectures and talks to raise awareness
- Question Banks have been prepared by each department on different types of questions, covering the entire syllabus
- An innovative scheme of preparing CDs of important lectures by professors has begun. The CD's will be made available to students in the library
- The Mahila Seva evam Kalyan Samiti, Rajbhavan, Raipur gives merit scholarships to meritorious girl students. An amount of Rupees 15 lakhs has been put in fixed deposit and the interest is equally distributed for giving the scholarships to meritorious girl student toppers of B.Sc. Final in both Mathematics and Biology group, and those who top in all the PG subjects.
- Effective communication skills and fluency in English is a dire need and so an English Language Laboratory has been set up.
- Interdisciplinary research is an important factor of education and research today and interactive research in new areas is pursued in the college.
- Internal assessment at the PG level, through seminars and tests, has been implemented to enhance the performance of students.
- Power Point Presentations and presentations using the latest technology are made by both, faculty and students.
- Network Resource Centre has been established to help students update their knowledge through access to the internet.
- Academic Audit Committees review the curriculum and make suggestions for improvement.
- Green Audit Committee tries to improve the campus by planting trees and developing gardens.
- Red Ribbon Society has been formed to raise awareness of AIDS
- Under the UGC-CPE scheme, the college carries various outreach programmes to link students to society. The students are taken to rural areas, where they interact with and guide villagers.
- Hands on workshops on DNA have been organized by Botany Department

- Department of Defence Studies organizes Book Exhibitions and Model Exhibitions annually
- The Library has constituted an Award for the student who issues the maximum number of books in one year. This practice is motivating for students
- Feedback on faculty and curriculum is collected from students
- Central Instrumentation Laboratory has been set up to promote interdisciplinary research.
- e-classroom helps students to get the benefit of lectures from professors of IIT, Kanpur.
- Career Counselling and Placement Cell organizes lectures to motivate students and get them placements.
- *Botanical Essays* is published by the Department of Botany.
- *Wall Magazines* are maintained by departmental societies and they showcase the work of students.

7.3 BEST PRACTICES

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.

Best Practice I

1. **Title of the Practice** : Publication of “Botanical Essays”
2. **Objectives of the Practice**: The Department of Botany had taken up the initiative to publish “Botanical Essays” in 1987. The endeavour has been successful and 20 volumes have been published till date. The volume is released by reputed academicians/scientists every year usually on 28th February – Science Day.

The main objectives of this practice are –

- To offer academic help to the students who come from tribal and rural areas.
- To initiate students to frame and write a structured response to an area of study
- It is a unique endeavour providing a platform to budding writers of M.Sc.
- It provides a chance to students to express themselves through writing which helps in instilling confidence in them.
- This endeavour encourages the students to approach the subject in their own way and develop a vision.
- The PG students are motivated to write articles that cover a variety of topics
- Out of several articles only a few are selected for publication, initiating competition among students.
- To develop a sense of positive approach of a subject at post graduate level.
- To develop academic skill and scientific temper.

- To prepare the students for higher studies and research.
- The initial effort of the students to understand and analyse the topic is aided by the vision and expertise of senior faculty members.

3. The Context: The publication of “Botanical Essays” is a result of the vision of the senior faculty members of late 1980’s. They felt that the post graduate students who came from the tribal and remote areas found it difficult to cope up with the language problem as all the standard books referred to for teaching in M.Sc. are in English. This was a great constraint to the students. To overcome this problem it was decided to involve the students to write articles related to their syllabus under the supervision of teachers. This activity was accomplished under the banner of Botanical Society. Since no fund was provided, it was done on a contributory bases and the faculty took the financial responsibility of getting it published. The “mono” was designed by the faculty incorporating all the branches of Botany.

One of the most important contributions to the sustained academic success of the college is the use of the good study technique, the “Botanical Essays”. It helps the students to enhance their knowledge of the subject, and express the content efficiently. The students are being encouraged to approach the subject in their own way, thus allowing them the freedom of thought.

This practice has been acclaimed not only in the college, but also appreciated in other academic spheres.

4. The Practice: This best practice is the promotion of expression through words, developing academic skill, scientific temper and the finance required to prepare good scientific articles. The practice helps students to perform better in the examinations. As most of the students are from rural background, they face the difficulty of communicating in English. The publication of Botanical Essays helps tackle this challenge and so this best practice is highly acclaimed.

The process of carrying out this practice meticulously is done through –

- A committee involving both the faculty and post graduate students is constituted under the patronage of the Principal. The head of the department is co-patron, assisted by 02 in charge editors, an executive committee and student members.
- Energetic and enterprising students who show keen interest in writing the articles are selected. Generally 02 students put their effort on a topic under the supervision of a faculty member.
- The articles are written by the creative and curious brains of M.Sc. students shaped by the faculty.
- Out of several contributions, only a few articles are selected. One topic from each paper is ultimately finalized.

- Students have to visit the library and on line sources to collect material
- There is a set pattern to present the articles. The components include i) an abstract, ii) introduction, iii) the concept iv) expression of concept through figures , tables, flowcharts and other illustrations, wherever needed, v) conclusion and vi) literature cited. This has helped the students tremendously to learn the pattern of expression which is beneficial to score good marks in the exams.
- Constructive changes are implemented from time to time to improve the quality of the volume
- A new practice which has been introduced recently is to include Reports on Botanical trips, workshops and seminars
- Volumes of Botanical Essays are dedicated to senior retired professors, in an attempt to uphold and inspire the age old Indian tradition of *guru shishya parampara*
- The format of the publication has been updated and changed in keeping with the recent trends

5. Evidence of Success:- The publication of “Botanical Essays” is definitely a best practice as –

- It has helped the students who come from the poor and rustic backdrop by providing them a platform
- It has resulted in the compilation of articles covering most of the topics of the post graduate curriculum.
- The volumes have been well maintained by the departmental library and are open for reference and study
- The volumes are being issued to the students regularly, indicating the success and demand rate
- Articles have motivated students to select fields of future research
- Students have reported the success not only in the PG examination but also in competitive examinations
- Students keep up contact with the Department even after they leave the college to consult the articles

Limitations- The chief constraints felt in this practice are

- Lack of funds
- Lack of time

6. Problems Encountered and Resources Required : The main problems encountered in this practice are –

- Both the students and faculty have a tight academic schedule and time table and are hard pressed for time.
- The Resources required for the smooth functioning of the this best practice are:

- Photocopier machine
 - Computer with printer
 - Library resources
 - Internet facility for preparing articles
 - Paper for publishing the collection
7. **Note:** This best practice may be implemented in other departments of the college and other colleges in any part of India i) to train students to meticulously design an article ii) freedom of expression of thought, iii) to get free from the fear of English language and iv) to prepare the students for higher studies and research.

Best Practice II

1. **Title of the Practice :** Promotion of Scientific Temper in Rural and Tribal Areas
2. **Objectives of the Practice:** Chhattisgarh is a developing state with a large percentage of its populace living in rural and tribal belts. The Department of Defence Studies of the College has taken up the responsibility of enlightening the simple ignorant people of these belts so that they can empower them. The chief objectives of this practice are:

- To promote awareness of an education in Science among the students of rural and tribal areas
- To develop the scientific temper among villagers and tribals
- To spread awareness of employment opportunities in the field of Science

3. **The Context:** The state of Chhattisgarh was formed in 2000, and there arose a surge of strong regional emotions. CG had been a neglected corner of MP, and with it getting statehood it was time that the local people were equipped to develop their identities, and bring in progress and growth to the region.

It was felt that the people of rural and tribal belts were living a life full of superstitions, and outdated practices rooted in beliefs in the supernatural. The school students of these regions have a fear of Science, and are unaware of the educational facilities available to them in Raipur and other cities. Students and their parents could be empowered and find ways to improve their condition even in their own regions by developing cottage/ small scale projects scientifically. Care and sensitivity towards the environment are other topics of discourse.

4. **The Practice:** The best practice is the promotion of Science in rural and tribal areas, developing the scientific temper, and the employment possibilities of education in this sector.

It is a **unique endeavour** in that it seeks to enlighten **ignorant villagers**. Students from class **IX to XII from Government Schools** are motivated about the opportunities and possibilities in exploring the field of **Science**. It addresses itself to remove the darkness of ignorance and superstitions from the villages. This best practice is carried out by both **faculty members and students**. Another **important feature** is that all the interaction with the villagers is done in the **local dialect, Chhattisgarhi**.

The process of carrying out this practice meticulously is done through:

- Identifying the Government schools which have students from Class IX to XII.
- Contacting the Principal and the Science teacher to fix the date, time and venue for motivational talk
- Selecting students for interaction and participation in the project
- Lectures on Science education: facilities available in cities; fee concessions; scholarships; residential facilities; employment opportunities/ and others
- Talks, presentations made on the premises of the selected school
- Science and its solutions to the world's mysteries are highlighted
- Information on the inventions and discoveries of Science are imparted to students
- Scientists and their discoveries in ancient India
- Information on all the different subjects in Science and the fields of employment in each is highlighted
- Distribution of well prepared inspirational Print material on Science
- Posters on Science are displayed in the selected school
- General Knowledge awareness on state and national issues
- Discussions with the village Science teachers on improving the teaching methodologies of Science
- Street plays to present ideas on the benefits of Science
- Taking rounds of the village to assess the sanitary and hygienic living conditions of the village
- Interacting with the villagers to inspire them to send their wards to cities for education in Science
- Self employment opportunities in field of sericulture, fisheries, poultry, floriculture and mushroom cultivation.

Limitations- The chief constraints felt in this practice are

- lack of funds,
- less time,
- Limitations felt in tackling the illiterate villagers and trying to convince them.

5. Evidence of Success- This best practice has been very successful in bringing about a lot of positive change in the village government schools that were targeted. They are:

- An increased number of students from these villages have sought admission to different Science courses and are students of the College.
- Another important visible result has been that the students who had met the College team, on its village visit, maintain a regular relationship, and come to the College to seek advice and guidance on important matters.
- Self employment has seen a rise in the villages visited.
- Sericulture, poultry, mushroom farming, floriculture, vegetable gardens, manure making, fisheries, and many others.
- Questioning superstitious beliefs and giving them up is on the rise in the villages visited

The above results are a pointer to the fact that it is important to develop a scientific temper, and a keenness to study Science in the College. It can change the lives of villagers, and make them free of superstitions, financially stable and independent, and confident citizens.

- 6. Problems Encountered and Resources Required :** - There are a few problems that are encountered in this best practice which has its focus on promotion of Science, employment and development of the scientific temper in rural and tribal areas.

The resources required are

- vehicles for commuting,
- arranging a venue for the programme,
- student volunteers,
- arrangement of basic facilities for the team,
- funds for preparing Presentations, print material, and posters,
- Gifts and small donations.

The main problems encountered are

- Illiteracy and ignorance of villagers
- Lack of funds
- Constraints of time

- 7. Notes:** This best practice may be implemented in other colleges in any part of India as the major population of the country resides in rural areas. We are living in the Age of Science and Technology and an education in Science will lead to success and growth of individuals.

Best Practice III

- 1. Title of the Practice:** General Knowledge Club
- 2. Objectives of the Practice:** The General Knowledge Club of the College was started as a Best Practice in 2007. The programme was formally inaugurated by

Dr Krishna Murti Bandhi, the then Minister of Higher Education, Government of Chhattisgarh.

The students of the College have to be prepared to face competitive examinations to go in for Higher Education and also to enter different professions. Higher Education should prepare students to face the world, and be able to carve a niche for themselves in their chosen field. Students should be prepared for the same.

Some of the Examinations targeted are UPSC, PSC, SSC, CDS, NDA, CAT, MAT, CSIR -NET/ SLET (general Paper), Bank PO; and Examinations conducted by the state Professional Examination Board.

The Chief objectives of this practice are:

- To prepare students for the General Knowledge paper which is a compulsory component of most examinations for entry into a profession or higher education programme
 - To enhance General Knowledge of students so they are equipped to face Personal Interviews, where GK is very important
 - To motivate and empower students and give them a sense of direction
3. **The Context** :- Chhattisgarh is an upcoming state and students need proper exposure to sharpen their competitive skills. The final placement and career of students depends on their performance in a number of competitive examinations, both at the national and state levels. A General Knowledge paper is compulsory in most examinations. Entrance Examinations for pursuing higher academic degrees also have a component on General knowledge. General Knowledge is the need of the hour and keeping this issue in mind this best practice was initiated. This practice will enhance the employment opportunities available to our students.
4. **The Practice** :- This best practice of conducting regular tests on General Knowledge is **unique** as it is **the only College** in this region which carries out this practice. Both **UG and PG students** sit for these tests. There is **no fee** charged from participating students for appearing in these tests.

The practice of the General Knowledge Club is carried out by a team of dedicated and enthusiastic faculty members.

The process of ensuring that the practice is carried out smoothly includes:

- Regular Tests on GK conducted twice a month on alternate Saturdays
- The Tests are of 50 marks, and are based on the Multiple Choice Question pattern
- Tests are of a general standard for both UG and PG level students
- Answers and Results are displayed on the Special GK Club Notice Board within a week
- Checking is done through preparing stencils
- Prizes are awarded for top performers to motivate students

- Some Tests have a special focus: General Science Test before Science Day; PG level special Tests; Tests on Computers/ Chhattisgarh/ Sports
- The areas covered are History and Geography, General Science, Sports, Current Events, Chhattisgarh, India and also World affairs
- The tests also tackle Verbal ability, Mental ability, and Logical reasoning
- A General Knowledge Book has been compiled and it has all the Questions and answers asked in these regular tests over the past five years.
- The Prizes that are awarded by the General Knowledge Club annually are good books on General Knowledge

The GK Club is financed by the College Janbhagidari Samiti. There are as such no limitations felt.

5. Evidence of Success:- The General Knowledge Club has been functioning since 2007. A large number of students have gained by this best practice. The evidence of success is:

- Students have reported their success in competitive examinations, like SSC and NET/ SLET/ Bank Examinations
- Success in state level examinations, like PSC have been recorded
- Excellent performance by students in State and University level Quiz competitions
- Students keep up contacts even after they leave the college and give credit of their success in professional fields to the GK Club practice
- Increase in level of confidence and personality development

6. Problems Encountered and Resources Required: The main problems encountered in this practice are:

- The students have a packed Time Table and Test schedules can only be fixed for Saturdays
- The Faculty members on the committee are also busy with their schedules and are hard pressed for time

The Resources required for the smooth functioning of the General Knowledge Club are:

- Photocopier machine
- Computer with printer
- Books on General Knowledge
- Internet facility for preparing Question papers
- Paper for printing the Question papers
- Classroom for conducting the Tests

EVALUATIVE REPORT OF THE DEPARTMENT (BOTANY)

1. Name of the Department & its year of establishment:

Name – Department of Botany

Year of the establishment – UG – 1948

PG – 1956

2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)

UG: B.Sc.

PG: M.Sc.

Ph.D. - Research centre of Botany

3. Interdisciplinary courses and department involved - Nil

4. Annual/semester/choice based credit system.

UG – Annual system

PG – Semester system

5. Participation of the department in the courses offered by other departments

Department of Botany actively participated in the courses offered by Department of Microbiology and Biotechnology in following manner:-

- The proposal to open Microbiology in 1993 and Biotechnology in 2005 at under graduate level was prepared by Botany department and sent to Higher Education Department by the College. The proposal was accepted and Botany Department took the responsibility to run these vocational subjects along with Botany for years together. In 2012 the three departments were separated.
- The Botany department shouldered all the academic, administrative, responsibilities of these two subjects.
- After separation of these departments 02 faculty members of Botany worked as incharge Heads of Microbiology and Biotechnology (UG).

6. Number of teaching posts sanctioned and filled (Professors/ Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor	01	Nil
Promoted professors	-	03
Assistant professors	08	05

7. 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 (Year)	No. of Ph.D. students guided in the last 4 years
Dr. Rekha Pimpalgaonkar	M.Sc., Ph.D.	Promoted Professor	Plant Pathology	UG – 29 PG – 29	Awarded- 01, Registered -02
Dr. Vipla Kohli	M.Sc., Ph.D.	Promoted Professor	Plant Pathology	UG – 29 PG – 29	Nil
Dr. Rupinder Diwan	M.Sc., Ph.D. (FBS)	Promoted Professor	Plant Pathology	UG – 28 PG – 27	Awarded- 04, Registered -02
Mr. Avinash Sharma	M.Sc.	Assistant Professor	Microbiology	UG – 29 PG – 19	Nil
Dr. Vimal kumar Kanungo	M.Sc., Ph.D.	Assistant Professor	Plant Pathology	UG – 25.5 PG – 23	Awarded- 05, Registered as Supervisor -07 Co-supervisor- 05
Smt. Sangeeta Bajpai	M.Sc., M.Phil.	Assistant Professor	Plant Pathology	UG – 24 PG – 19	Nil
Dr. Narendra Bahadur Singh	M.Sc., Ph.D.	Assistant Professor	Plant Pathology	UG – 25 PG – 16	Registered -02
Dr. Suneeta Patra	M.Sc., M.Phil, Ph.D. (FBS)	Assistant Professor	Biotechnology	UG – 24 PG – 20	Registered -02

8. Percentage of classes taken by temporary faculty-programme-wise information –
Nil

9. Programme-wise Student Teacher Ratio

UG - 74:1

PG - 6:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)

	Filled
Technical staff	02
Administrative staff	Nil
Class IV	03

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received – Nil

13. Research facility/centre with

- State recognition Yes
- National recognition Yes
- International recognition

14. Publications:

- **Number of papers published in last five year (national/international)**
In National journals- 33
In International journals - 08
- **Monographs - Nil**
- **Chapter(s) in Books- 02**
- **Editing Books- Nil**
- **Books with ISBN numbers with details of publishers- Nil**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index- range/ average**
- **SNIP**
- **SJR**
- **Impact factor – range/average**
- **H-index**

15. Details of patents and income generated – Nil

16. Areas of consultancy and income generated – Nil

17. Faculty recharging strategies

Department of Botany was started since last fifty years. At that time emphasis was given to the study of morphology, anatomy, embryology and economic botany. But now a day lot of researches are going on in the field of plant science, new branches of life science like plant Biochemistry, Molecular Biology, Microbiology environmental Biology and plant Biotechnology. To provide deep knowledge in these fields drastic changes in the syllabus have been made since last twenty years. To overcome these challenges faculty members of this department planned to recharge themselves and students in the following manner:-

- i. National seminar was organized on 29th and 30th Jan 2008. Invited lectures of reputed scientists were organized during the seminar. Several research scholars presented their research paper.
- ii. To provide experimental knowledge in the field of molecular biology two workshops, one state level and other national level workshop on Hands on DNA Technology were organized in 24-27 Aug. 2011 and 8-11 Jan. 2013, respectively.
- iii. Research activity-Faculty members of this department recharging themselves by active participation in research work. 15 research scholars have got Ph.D. degree under supervision of faculties of this department.
- iv. Faculty members of this department published 33 papers in national and 08 papers in International Journals.
- v. One faculty member of this department has been presented her tow research papers in International Congress on Sickle cell Disease in India and two papers in Australia and Bahrain.
- vi. Three faculty members of this department worked in three minor Research project during last five years.
- vii. Faculty members of this department participated in the national workshops organized by other departments like Biochemistry dept. of J.N.M. Medical College Raipur, Dept. of Maths and Defence of NPG College of Science Raipur. One faculty member participated in the international work shop organized by Pt.R.S.U. Raipur.
- viii. Some faculty members are actively involved in writing books for under graduate and post graduate students. Five unified books for UG students have been written as co-author by the faculty members of this department.
- ix. Four faculty members were actively participating in National Seminar as resource persons and chair persons.
- x. Excursion tours outside the state for the under graduate and post graduate students have been made by faculty members of the department to recharge themselves to enhance their knowledge in the studies of flora of different forests like Pachmadi, Odissa, Narsingnath.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental** - Nil
- **Percentage of students doing projects in collaboration with industries/Institutes** - Nil

19. Awards/recognitions received at the national and international level by - Nil

- **Faculty** - Nil
- **Doctoral/post doctoral fellows** – One doctoral fellow received Rajeev Gandhi National fellowship
- **Students** – Nil

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

- National seminar was organized in 29-30th Jan. 2008. Funding agencies were UGC, Chhattisgarh Cost and Janbhagidari Samiti of NPG College of Science. Near about 90 research scholars presented their research papers in technical session and 08 invited talks were given by reputed scientist of this state and out of state.
 - Dr. B.D. Singh, Head, School of Biotechnology, BHU Varanasi, U.P.
 - Dr. S.P. Bajpai, Department of Botany Dr Hari Singh Gour University, Sagar, M.P.
 - Dr. K.S. Ramchandra Rao, Department of Biotechnology, Aurora's Technological and Research Institute, Uppal, Hyderabad.
 - Dr. R.C. Rajak, Ex. Head, School of Life Sciences, Rani Durgawati University, Jabalpur.
 - Dr. G.P. Sinha, BSI, Department of Botany, Allahabad University, (U.P.)
 - Dr. R.V. Shukla Department of Botany, C.M.D. College Bilaspur
- State level work shop on Hands on DNA technologies was organized on 24-27 Aug. 2011 by the department. Funding agency was Janbhagidari Samiti of this College. Near about 100 faculty members and research scholars attended the workshop. Eminent speakers were-
 - Dr. Vipul Talukdar Department of Biochemistry Pt. JN Medical College Raipur, C.G.
 - Dr. M.L. Nayak Ex. Head, SOS in Life Sciences Pt. Ravishankar Shukla University, Raipur
- National workshop on Hands on DNA technologies was organized on 8-11 Jan 2013 by the department. Funding agency were UGC and Janbhagidari Samiti of this College. About 96 faculty members, research scholars, M.Sc. students were participated.
 - Dr. T. Shrinivasu, Nagpur University
 - Dr. Dandapat Utkal University, Bhubaneswar Odisha.

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc. I (2010-2011)	1230	183	165	37	48
B.Sc. III (2012-2013)	110	44	52	70	80
M.Sc.	Through central counseling	06	19	67	76

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
UG- B.Sc.	-	98%	02	Nil
PG- M.Sc.	60%	40%	Nil	Nil

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations?

- Civil service – 02 ,IFS – 02, SLET – 06, State PSC -01
PSC Assistant Professor -08

24. Student progression

Student progression	Percentage against enrolled
UG to PG	60
PG to M.Phil.	02
PG to Ph.D.	12
Ph.D. to Post-Doctoral	Nil
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	Nil
Entrepreneurs	Nil

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	88
From other universities within the State	Nil
From other universities from other State	12

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - Nil

27. Present details about infrastructural facilities

- a) **Library –** No. of Books – 3120, No. of periodic journals - 10
- b) **Internet facilities for staff and students – Nil**
- c) **Total number of class rooms -** 05(01 lecture hall, 04 class rooms)
- d) **Students laboratories** UG – 01, PG – 03
- e) **Research laboratories-** 02

28. Number of students of the department getting financial assistance from College.

All SC/ST/OBC students of UG and PG are getting books under book bank scheme, get scholarship and concession in college fees as per State Government norms. Students belonging to BPL categories also avail the same facility.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Department of Botany actively participated in the courses offered by Department of Microbiology and Biotechnology in following manner:-

- The proposal to open Microbiology in 1993 and Biotechnology in 2005 at under graduate level was prepared by Botany department and sent to Higher Education Department by the College. The proposal was accepted and Botany Department took the responsibility to run these vocational subjects along with Botany for years together. In 2012 the three departments were separated.
- The Botany department shouldered all the academic, administrative, responsibilities of these two subjects.
- After separation of these departments 02 faculty members of Botany worked as incharge Heads of Microbiology and Biotechnology (UG).

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes, the Head of the Department and all faculty members discuss about the syllabus and its implementation, course completion and laboratory work periodically. The meeting of Board of Studies is called at least once in a year seeking suggestions from the experts. Department tries to bring an improvement with its limited autonomy.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Department gets feedback from UG & all PG students once in a year. Their comments are analyzed and necessary action is taken.

c. Alumni and employers on the programmes and what is the response of the department to the same?

Feedback from alumni & employers are obtained in parent teacher meeting, in Board of Studies, Academic Council, Governing Body and Janbhagidari Samiti. Their suggestions and complaints are discussed on the table with all the members and decisions are taken in favour of the institution & students progress.

31. List the distinguished alumni of the department (maximum 10)

- i. Dr. Bisen Ex. Vice Chancellor, Jiwaji University. Gwalior.
- ii. Mr. Narendra Pandey. Forest Dept. Raipur
- iii. Dr. M.L. Nayak Former Director, C.G. Cost Raipur.
- iv. Dr. A.K. Bansal Rt. Principal, Govt. P.G. College, Kanker
- v. Dr. M.L. Sonar Rt. Principal, Govt. Kirodimal College
- vi. Dr. D.K. Karkoon Rt. Principal, Govt. V.Y.T.P.G College
- vii. Mr. Alok Katiyar Conservator of forest, Raipur
- viii. Dr. S.K. Jadhav Professor & Head, SOS of Biotechnology Pt. R.S.U., Raipur
- ix. Mr. Ashwini Dewangan Depute Collector
- x. Dr. Devendra Patel Lecturer, Central University, Bilaspur.
- xi. Dr. Raju Mahobia Asst. Prof, Govt. College, Baloda Bazar
- xii. Mrs. Aditi Roy. Asst. Prof, Govt. College, Mahasamund
- xiii. Mr. Ashwini Patel, Asst. Prof, Govt. College
- xiv. Dr. Diksha Khare Asst. Prof, Govt. College, Bhatapara
- xv. Dr. Kaushalaya Sahu, Asst. Prof, Govt. College, Mahasamund
- xvi. Dr. Shriram Kunjam. Asst. Prof, Govt. College, Dongargarh

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

• **Special Lectures**

Sr. No.	Years	No. of lectures
01	2008-2009	04
02	2009-2010	03
03	2010-2011	05
04	2011-2012	06
05	2012-2013	08

- **Workshop Shop – 02**
 - State level work shop on Hands on DNA technologies was organized on 24-27 Aug.
Eminent Speakers
 - i. Dr. Vipul Talukdar Department of Biochemistry Pt. JN Medical College Raipur, C.G.
 - ii. Dr. M.L. Nayak Ex. Head, SOS in Life Sciences Pt. Ravishankar Shukla University, Raipur
 - National workshop on Hands on DNA technologies was organized on 8-11 Jan 2013 by the department.
Eminent Speakers
 - i. Dr.T.Shrinivasu, Nagpur University
 - ii. Dr. DandapatUtkal University, Bhubneshwar Odisha
- **Seminar - 01**
 - National seminar was organized in 29- 30th Jan. 2008.
Eminent Speakers
 - i. Dr. B.D. Singh (BHU Varanasi, U.P.)
 - ii. Dr. S.P. Bajpai(Dr Hari Singh Gour University,Sagar, M.P.)

33. List the teaching methods adopted by the faculty for different programmes.

- UG - traditional chalk and talk method, OHP, Charts and specimens
- PG- LCD, OHP, models, charts along with traditional chalk and talk method
- Visit to different laboratories
- Time to time excursion within and out of State to provide knowledge about the flora
- Department has a well maintained Botanical garden and museum for enhancing practical knowledge

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The programme objectives are constantly met and students learning outcomes is continuously monitored by

- Class tests
- Quarterly/half yearly examination
- Seminars
- Unit tests
- Student feedback

35. Highlight the participation of students and faculty in extension activities.

- Students of UG and PG classes actively participate in NCC and NSS camps.
- Excursion and field visits – In the assessment years two excursion tours in Pachmari and Odisha for M.Sc, and Narsinghnath for UG have been made.
- Interdisciplinary research activity→ i. faculty members are involved Interdisciplinary research activity by guiding students of SOS in Biotechnology Pt. R.S.U. Raipur and IGKV, Raipur, resulting in award of Ph.D. degree.

36. Give details of “beyond syllabus scholarly activities” of the department.

- Students are encouraged to propagate plants of ethnobotanical importance in Botanical Garden of the College.
- Students are involved in writing at least one topic for the “*Botanical Essays*” under supervision of faculty of this department.
- PG students of the department actively participate in social campaigning programmes. Like, play for Social awareness against alcoholism and corruption, awareness regarding the conservation of water, self employment and health related problems.

37. State whether the programme/department is accredited/graded by other agencies. Give details. - Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Department has well established under and post graduates lab.
- Department has well developed and equipped research labs.
- Department has well established museum.
- Department has well developed garden enriched in medicinal and endangered plant.
- Department is a authorized centre of Pt RSU for research.

Weaknesses

- There is lack of internet connection
- Department does not have enough technician for the maintenance of labs
- There is lack of recurring grants for the maintenance of labs, museum and garden.
- Department does not have journal publications due to lack of man power and fundings.
- Presently department does not have MOU with other department and centres.

Opportunities

- Department has opportunities to develop labs under CPE scheme of UGC.
- Department receives financial co-operation from UGC to organize seminars and workshop.
- Faculty of the department got financial assistance to visit abroad to attend international seminar.
- Department received funds from State Govt. for the development of infrastructure in the department.

Challenges

- Department is unable to reframe the syllabus, as per the requirement of the region because there is only 10% flexibility in PG syllabus.
- Department is unable to provide coaching facilities for NET and other competitive examination due to lack of reading material and manpower.
- Department needs to develop more with recognized institute to facilitate good quality research.
- Protection and conservation of plants in botanical garden requires more attention in terms of funds and man power.

39. Future plans of the department.

- Department is planning to open new need based special paper in PG.
- Department is planning to construct cactus garden, mushroom hut and fern house.
- Department is planning to hold training programme for the development of various skills like computer handling, plant collection, herbarium preparation.
- Department is planning to prepare a database for biodiversity of the region.
- Department is developing a tissue culture lab to propagate rare plants of the locality.

EVALUATIVE REPORT OF THE DEPARTMENT OF BIOCHEMISTRY

1. Name of the Department & its year of establishment –

Name- Department of Biochemistry

Year of Establishment- From 2005-06 under the Department of chemistry, established as separate Department 15/06/2012

2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)

UG: B.Sc. with Biochemistry as one of the subjects.

3. Interdisciplinary courses and department involved – NIL

4. Annual/semester/choice based credit system – Annually students are examined.

5. Participation of the department in the courses offered by other departments - NIL

6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor	NIL	NIL
Promoted professors	NIL	NIL
Assistant professors	02	01 Regular

Note- One guest teacher is working against the sanctioned vacant post of assistant professor.

7. 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 in the last 4 years
Mregendra Kumar Dwivedi	M.Sc., NET, Ph.D.	Assistant Professor	Biochemistry and Molecular Biology	09Years as a guest faculty 08Months as Assistant Professor	NIL
Kamalnayan Mishra	M.Sc.	Guest Teacher	Biochemistry	1year	NIL

8. Percentage of classes taken by temporary faculty-prograamme-wise information – 50%

9. Programme-wise Student Teacher Ratio – 21:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)

	Filled
Office assistant	NIL
Lab technical	1
Lab Attendent	1
Peon	1

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. –

- Number of faculty with ongoing projects - NIL
- National - NIL
- International - NIL

12. Department projects funded by DST-FIST;DBT, ICSSR, etc;; total grant received – NIL

Two projects are submitted; One in CGCOST- Total grant – 5 lakhs and another submitted in DBT – Total grant – 23 lakhs)

13. Research facility/centre with

- State recognition
- National recognition
- International recognition

- The Department is currently running only UG course therefore research facility is NIL and the department is not a recognized centre for research.

14. Publications:

- **Number of papers published in peer reviewed journals (national/international)**
National – 06
International Journal – 07
- **Monographs - NIL**
- **Chapter(s) in Books- NIL**
- **Editing Books- NIL**

- **Books with ISBN numbers with details of publishers-** NIL
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)** NIL
- **Citation Index- range/ average -** NIL
- **SNIP-** NIL
- **SJR -** NIL
- **Impact factor – range/average -** NIL
- **H-index –** NIL

15. Details of patents and income generated – NIL

16. Areas of consultancy and income generated – NIL

17. Faculty recharging strategies – Guest faculty is recruited according to UGC norms for academic session against the sanctioned post of assistant professor in Biochemistry department.
In future we will recharge the faculties by faculty recharge programme organized by UGC.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental-** NIL
- **Percentage of students doing projects in collaboration with industries/ Institutes-** NIL

19. Awards/recognitions received at the national and international level by

- **Faculty-** NIL
- **Doctoral/post doctoral fellows-** NIL
- **Students –** NIL

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any. – NIL

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	female	Male	female
B.Sc.	60	27	80	80	90

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc.	NIL	100	NIL	NIL

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations?

One student cleared NET in 2010

24. Student progression

Student progression	Percentage against enrolled
UG to PG	100
PG to M.Phil.	25
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	NIL Information unavailable
Entrepreneurs	NIL

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	NIL
From other universities within the State	NIL
From other universities from other State	01

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – 01**27. Present details about infrastructural facilities**

- a) Library - NIL
- b) Internet facilities for staff and students - NIL
- c) Total number of class rooms - NIL
- d) Class rooms with ICT facility - NIL
- e) Students laboratories - 01
- f) Research laboratories – NIL

28. Number of students of the department getting financial assistance from College.

As per Govt. Norms ST and SC students are getting financial support from College.

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology . – Not applicable

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The Department obtains feedback from faculty on curriculum as well as teaching learning by organizing meeting of Board of Study once in a year and the suggestion of faculty is utilized into alteration on curriculum, Examination scheme, development of advancement programmes and other activities.

b. Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

Feedback from students obtained from student routinely by the Principal and Head of the Department.

c. Alumni and employers on the programmes and what is the response of the department of the same?

One alumni and one employer is the member of Board of Study and feedbacks obtained through meeting of Board of Study.

31. List the distinguished alumni of the department (maximum 10)

One distinguish alumni of the of the department is Preeti Mahaveer.

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Department did not organize any such programme in last year but the students of Biochemistry are enriched for the same from programme organized by other departments of the College.

33. List the teaching method adopted by the faculty for different programmes.

- Power point slide teaching
- Teaching through live animations from internet.

- Special teaching aids for complex hypothesis and three dimensional structures of life sciences.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Through exercises immediately after the programme and through feedback from learners (students).

35. Highlight the participation of students and faculty in extension activities.

Students are participating in NCC, NSS, Sports and other extension activities organized by the College.

36. Give details of “beyond syllabus scholarly activities” of the department.

Department has started following Beyond syllabus scholarly activity in the department in this session –

- The elution of research aptitude of graduate students-
 - The under graduate students of B.Sc. I, II and III are asked for any new research (method) idea appearing in their mind during practical classes and the perform will be given to point out recognition of problem, how they can solve it and what will be the impact of this new method in the lab and society.
 - The student are motivated to recognize problems in their surroundings (Related with themselves, other human, plants, society etc) how can be irradiated by the use of Biochemistry and what will be impact of the result for society all human welfare.
All the proforma will be collected and keenly observed and if find beneficial for social and human welfare will be compiled in a form of research projects and submitted to different grant providing agencies.
- A short term medical certificate training (15-20 days) opportunity shall be provide to final year students which are organized by different Hospital e.g. BMHRC, Bhopal, SIIMS, Bilaspur etc.

37. State whether the programme/department is accredited/graded by other agencies. Give details.

NO

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- The department is dealing with most important dimensions of human and animal health. Biochemistry of animals and plants is the base of diseases and their cure may be uncovered by the knowledge of biochemical properties of animals and plants. The Biochemistry department can play their role to abolish regional malnutrition problem recognizing Genetic diseases secure food availability and conservation of endangered plant species in this region.
- The enormous strength of the department in research field. The associated and independent research which is dealing with molecules of life can open the way of discovery of several life saving medicines.
- This department is first govt. supported an UGC recognized department of Biochemistry in Chhattisgarh.
- The department is dealing with professional course (Biochemistry) in which graduate and post graduate students may be absorbed as research scientist, research associates, Biochemists in pharmacy companies, as analyst in diagnostic labs, as manager in production wings of pharmacological companies, teaching field etc.

Weaknesses:-

- Faculty shortage (as per UGC norms)
- Lack of well equipped laboratory facility
- Lack of PG in Biochemistry and research centre
- Lack of Computer Lab and internet facility
- Lack of class rooms

Opportunities:-

- The major opportunity for the department is in the fields of research in which the department can prepare graduates, post graduates and researchers in the field of Biochemistry.
- The Department may establish a molecular lab to investigate the different genetic biodiversity in human and plants of this region.
- The department has the opportunity to give the chance to graduates for their further study in Biochemistry by elaborating course for PG and Ph.D.

Challenges:-

- The major challenges for the department of Biochemistry are to eradicate the above mentioned weaknesses of department.

39. Future plans of the department.

- To improve financial strength, Lab facilities of the department and skill development of student by demanding research projects from state and central funding agencies.
- To extend the UG Programme into PG and further in Ph.D.
- Establishment of MOUs from pharmaceutical companies and call for companies for campus selection.
- To establish a separate building for Biochemistry department
- Establishment of a regional molecular lab focused on genetic fingerprinting with forensic facilities and for conservation of local plant and animal heritage of Chhattisgarh.

EVALUATIVE REPORT OF THE DEPARTMENT (BIOTECHNOLOGY)

1. Name of the Department & its year of establishment : BIOTECHNOLOGY

Establishment year – UG Biotechnology 2002 (Associated with Botany Department)
PG Biotechnology 2005 (Associated with Zoology Department)
July 2012 PG Biotechnology established as a separate department.
June 2013 UG Biotechnology established as a separate department.

2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)

UG : B.Sc.

PG : M.Sc.

3. Interdisciplinary courses and department involved – Nil

4. Annual/semester/choice based credit system.

- Annual for UG
- Semester for PG

5. Participation of the department in the courses offered by other departments - Nil

6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor	01	-
Promoted professors	Nil	-
Assistant professors	02	01(Regular)

Note: Three teachers are appointed as one guest teacher and 02 part time.

7. 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 in the last 4 years
1. Mrs. Sanjana Bhagat	M.Sc., M.Phil (Biotechnology) CSIR-UGC NET	Assistant Professor	Biotechnology	05 year for PG teaching and 01 year research experience	-
2. Dr. Neelambara verma	M.Sc. & Ph.D.in Biotechnology	Guest Lecturer (Contract)	Biotechnology	PG- 1year UG- 1year	-
3. Mrs. Sudakshina Gautam	M.Sc., M.Phil (Biotechnology)	Part time (Janbhagidari)	Biotechnology	-	-
4. Ms. Shilpa Dewangan	M.Sc. Biotechnology	Part time (Janbhagidari)	Biotechnology	-	-

8. Percentage of classes taken by temporary faculty-prograamme-wise information

UG– 70 %

PG – 60%

9. Programme-wise Student Teacher Ratio

UG – 31:1

PG – 8:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)

	Filled
Lab technical	1
Lab Attendent	2
Lab Servant	Nil
Farash	Nil

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received – Nil

13. Research facility/centre with- Nil

- State recognition
- National recognition
- International recognition

14. Publications:

- **Number of papers published in peer reviewed journals (national/international) - 07**
- **Monographs -Nil**
- **Chapter(s) in Books-Nil**
- **Editing Books-Nil**
- **Books with ISBN numbers with details of publishers-Nil**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) -Nil**
- **Citation Index- range/ average -Nil**
- **SNIP-Nil**
- **SJR -Nil**
- **Impact factor – range/average -Nil**
- **H-index -Nil**

15. Details of patents and income generated – Nil

16. Areas of consultancy and income generated – Nil

17. Faculty recharging strategies

- The faculty of the department participates in conferences, seminars and workshops organized by the College as well as other institution.
- Attending the orientation programme and refresher course of the Academic Staff College.
- Guiding students for Projects

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental- 40% students of M.Sc. in year (2012-2013)**
- **Percentage of students doing projects in collaboration with industries/institutes- 60% students of M.Sc. in year (2012-2013)**

19. Awards/recognitions received at the national and international level by - Nil

- Faculty
- Doctoral/post doctoral fellows
- Students

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any. – Nil

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.	65	27	38	70%	68%
M.Sc.	Central counseling	01	14	100%	100%

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc.	NA	100%	Nil	Nil
M.Sc. (2012-13) (2013-14)	53% 7%	100%	Nil	Nil

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations?

- GATE 2011 - 01

24. Student progression

Student progression	Percentage against enrolled
UG to PG	60% (2012-13 session)
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 	
Entrepreneurs	

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	Nil

From other universities within the State	100%
From other universities from other State	Nil

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Nil

27. Present details about infrastructural facilities

- a) **Library –** 223 books present in the Department
- b) **Internet facilities for staff and students –** Nil
- c) **Total number of class rooms -** 2 for PG and 1 for UG
- d) **Class rooms with ICT facility –** Nil
- e) **Students laboratories** 1- UG, 1- PG
- f) **Research laboratories-** Nil

28. Number of students of the department getting financial assistance from College.

- 2009-10 UG-07, PG-03
- 2010-11 UG-05, PG-02
- 2011-12 UG-09, PG-04
- 2012-13 UG-05, PG-04

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology? - NA

30. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

- Faculty both permanent and guest lecturer are asked to review the course curriculum and the inputs are incorporated in the Board of studies meeting for further analysis and discussions. These changes are then incorporated into the syllabus to be made effective from the succeeding academic year.
- Faculty also gives the department a regular feedback on the students' involvement in the class discussions and activities that form a part of the learning mechanism. Remedial classes are taken to address the problem of students.

b) Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

They are free to come and discuss any problem with the head of the department. The issue is taken up with the help of the teachers. This could include problems

the students face with regards to academics/projects/ or any others personal issue.

c) Alumni and employers on the programmes and what is the response of the department of the same?

The alumni share their experiences in board of studies meeting and this gives us an insight as to how the syllabus has been upgraded.

31. List the distinguished alumni of the department (maximum 10)

Some of the alumni who are placed in various companies are given below-

1. Parul Siyar – F.C.I. (Technical post)
2. Divya Tayagi – Guest lecturer (Pt.J.N.M. Medical College Raipur)

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

- 1) **Education tour:** Not only do the students improve their inter personal skills and get to know each other better but also get a feel of the research work.
- 2) **Projects:** PG students pursue projects in university/College/other institute during fourth semester, it has been found to be the most enriching experience for them as they get to see the research work and they also learn a lot by working experiences with senior professors/scientist who train them during the entire period.

33. List the teaching methods adopted by the faculty for different programmes.

In addition to the black board method of teaching, the following methods are also used:

- Power point presentations
- OHP
- LCD Projector
- Class test
- Seminar
- Demonstrations
- Group Discussions
- Class interaction
- News paper articles
- Reference books

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Class test
- Seminar given by the student on Power Point Presentation
- Projects

35. Highlight the participation of students and faculty in extension activities.

Apart from the academic activities, following extension activities listed below-

- NCC
- NSS
- Red Cros

36. Give details of “beyond syllabus scholarly activities” of the department.

- Participation in various Inter-collegiate competitions by our students.
- Paper presentation by faculty at state, national and international level.
- Participation of faculties in various seminars and workshops.

37. State whether the programme/department is accredited/graded by other agencies. Give details. - NA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- The department has a hard working and well-qualified staff.
- Excellent course structure.
- There are wide job opportunities available to the students of this stream eg. Research, Institute and Academic area.
- Visiting Industry and research laboratory give our students the practical approach to the various theoretical aspects learnt.

Weaknesses

- Shortness of regular teachers.
- Inadequate number of class rooms
- The academic staff also needs to focus on research.
- Advanced instruments not present in the Lab.

Opportunities

- Students have good opportunities for jobs in Pharmaceutical and Clinical labs.
- Students have opportunities in various academic institutions and R&D centre.

Challenges

- To develop the well equipped Laboratory.

39. Future plans of the department.

- Advanced class rooms for UG and PG
- Well equipped Laboratory
- Enrich the library facility
- Internet facility for students and staff
- Upgrade syllabus regularly
- Research laboratory

**EVALUATIVE REPORT OF THE DEPARTMENT
(CHEMISTRY)**

1. Name of the Department & its year of establishment

Name: - CHEMISTRY

Year of Establishment: - UG - 1948

PG – 1956

2. Names of Programmes / courses offered (UG, PG, M.Phil, Ph.D., Integrated masters, Integrated Ph.D., etc.

UG-B.Sc,

PG - M.Sc.,

Ph.D- Chemistry.

3. Interdisciplinary courses & departments involved:-Nil

4. Annual /Semester/Choice based credit system: -

Annual system in UG classes

Semester system in PG classes

5. Particepation of the department in the courses offered by other departments:-

Nil

6. Number of teaching posts sanctioned & filled (Professors/ associate Professors/ Asst. Professors)

	sanctioned	Filled
Professors	01	Nil
Promoted Professors	-	05
Asst. Professors	15	06

Note- 03 guest teachers are working against the sanctioned vacant posts of assistant professor.

**7. Faculty profile with name, qualification, Designation, Specialisation
(D.Sc./D.Litt./ M.Phil/Ph.D.,etc.)**

Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. students guided in the last 4 years
Dr. Shailja Nigam	M.Sc, Ph.D	Promoted Professor	Inorganic Chemistry	31 Years	NIL
Dr. Kalpana Sharma	M.Sc, Ph.D	Promoted Professor	Organic Chemistry	30 Years	NIL
Dr. Shipra Verma	M.Sc, Ph.D	Promoted Professor	Inorganic Chemistry	28 Years	NIL
Dr. Pratima Chandrakar	M.Sc, Ph.D	Promoted Professor	Organic Chemistry	28 Years	NIL
Dr. Shobhana Upadhyay	M.Sc, Ph.D	Promoted Professor	Physical Chemistry	28Years	NIL
Dr. Sachchidanand Bhoi	M.Sc, Ph.D	Assistant Professor	Organic Chemistry	38 Years	NIL
Dr. Shyam Kumar Patle	M.Sc, Ph.D	Assistant Professor	Physical Chemistry	20 Years	NIL
Dr. Paresh Chandra Sharma	M.Sc, Ph.D	Assistant Professor	Inorganic Chemistry	24 Years	NIL
Dr. Sunjay Ghosh	M.Sc,Ph.D	Assistant Professor	Physical Chemistry	20 Years	NIL
Dr. Kishore Kumar Tiwari	M.Sc, Ph.D	Assistant Professor	Inorganic Chemistry	19 Years	04
Dr. Deepak Sinha	M.Sc, Ph.D	Assistant Professor	Inorganic Chemistry	6 Months	NIL
Dr. Anuradha Singh	M.Sc, Ph.D	Guest teacher	Organic Chemistry	3 Years	NIL
Rakesh Sharma	M.Sc	Guest teacher	Inorganic Chemistry	1 Year	NIL
Ku. Kavita Nag	M.Sc.	Guest teacher	Organic Chemistry	NIL	NIL

8. Percentage of classes taken by temporary faculty programme wise information:

UG :23%

PG : 25%

9. Programme wise Teacher Student Ratio:-

UG – 1:118

PG - 1:4

10. Number of academic support staff (technical) and administrative staff ; sanctioned & filled

Number of academic support staff: - Administrative staff -Nil

Technical staff – 05

Attendant – 03

Peon & 01

11. Numbers of faculty with ongoing projects from a) National b) International funding agencies c) Total grant received. Mention names of funding agencies & grant received project-wise. - Nil

12. Departmental projects funded by DST-FIST, DBT, ICSSR, etc; total grant received:- Nil

13. Research Faculty/centre with

- (a) State recognition - Yes
- (b) National recognition- Yes

14. Publications:

- (i) No. of Published Paper.- 11
- (ii) No. of Published Books. – 08

15. Details of patents and income generated :- Nil

16. Areas of consultancy and income generated :- Nil

17. Faculty recharging strategies:

- Department organizes seminar, symposium and workshop.
- Faculty members attend conferences, seminars and workshops.
- One faculty member is actively involved in writing books of B.Sc. and Plus two level.
- Recently appointed one faculty member have attended refresher course from academic staff college Raipur and Summer course from NIT Raipur.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental-** Nil
- **Percentage of students doing projects in collaboration with industries/institutes**

One Ph.D. scholar is carrying out her research work which is interdisciplinary with Botany department.

19. Awards /recognitions received at the national and international level by:-

Doctoral:- Nil

Post doctoral: - Nil

Students: - Durgawati Patel, student of MSc IIIrd semester had attended RDC – 2012 and got national award in NSS from President and Vice President of India. She has also been nominated for National Indira Gandhi Award 2013. One student of M.Sc. I semester has been awarded first prize in extempore lecture and debate competition organized by State Election Commission under SVEEP programme.

20. Seminars/conferences /workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

Date	Seminar/Workshop	Topic	Sponsored by
17-18 October 2008	National Seminar	Medicinal Value of Drugs Extracted from plants of Chhattisgarh forests	i. UGC New Delhi ii. Higher Education Chhattisgarh iii. CGCOST Raipur
24 April 2012	Symposium	Non Polluting Energy Sources and Nuclear Disaster	CG COST and College Janbhagidari Samiti

Eminent Speakers-

- Prof. Tarshankar Paul, IIT Kharagpur, W.B.
- Prof. Kajasomshekhar Rao Nagarjuna University (A.P.)
- Prof. Kishor Arora, Datiya (M.P.)
- Dr. K.K. Ghosh SOS in Chemistry RSU Raipur

21. Student profile course-wise: UG

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.- I 2010-11	2352	540	359	45	30
B.Sc-II 2011-12	349	220	129	83	63

B.Sc-III 2012-13	240	170	70	85	80
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Student profile course-wise: PG

Name of Course (Refer question no. -02)	Applications received	Selected		Pass percentage
		Male	Female	
M.Sc. 2011-12	172	09	12	100%
M.Sc. 2012-13	184	12	06	100%

22. Diversity of students (UG)

Name of the Course (refer question no. 2)	% of students from the College	% of students from the States	% of students from the other States	% of students from the other countries
B.Sc.	0	98	02	Nil

Diversity of students PG

Name of Course (refer question no.2)	% of students from the College	% of students from the state	% of students from other states	% of students from other countries
M.Sc.	40	60	Nil	Nil

23. How many students have cleared Civil Services, NET, SLET, GATE and any other competitive examinations?

GATE – 01

State PSC – 02

24. Student progression

Student Progression	% against enrolled
UG to PG	40%
PG to M.Phil	Nil
PG to Ph.D.	10%
Ph.D. to post –Doctoral	Nil
Employed	
Campus selection	10%
Other than campus recruitment	More than 40%
Entrepreneurs	-

25. Diversity of staff (Regular)

Number of faculty who are graduates	
Of the same parent university	10
From other universities within the State	Nil
From other universities from other States	01

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.:-01**27. Present details about infrastructural facilities**

- a) **Library:-** Department have 2500 Books & 700 Journals
- b) **Internet facilities for staff and students** Nil
- c) **Total number of class rooms.....**03
- d) **Class rooms with ICT facility.....** Nil
- e) **Students' laboratories.....** UG -02 PG -04
- f) **Research laboratories.....**01

28. Numbers of students of the department getting financial assistance from College.

All SC/ST/OBC students of UG and PG are getting books under book bank scheme, get scholarship and concession in college fees as per State Government norms. Students belonging to BPL categories also avail the same facility.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the mythology.

Biochemistry a new subject was started in 2004-05 at UG level. Department of Chemistry took active part to start the course of Biochemistry. The proposal to open Biochemistry at under graduate level was prepared and sent to Higher Education Department by the college. The proposal was accepted and Chemistry Department took the responsibility to run this vocational subject along with Chemistry for 8 years together. In 2012 this department was separated from Chemistry Department.

30. Does the department obtain feedback from

- a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, the Head of the Department and all faculty members discuss about the syllabus, their implementation, course completion, laboratory work in every after

three months. The valuable outcome is presented and discussed before Board of Studies once in a year. Department tries to bring an improvement with its limited autonomy.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Department gets feedback from UG & all PG students once in a year. Their comments are analyzed and necessary action is taken.

c. Alumni and employers on the programmes and what is the response of the department to the same?

Feedback from alumni & employers are obtained in parent teacher meeting, in Board of Studies, Academic Council, Governing Body and Janbhagidari Samiti. Their suggestions and complaints are discussed on the table with all the members and decisions are taken in favour of the institution & students progress.

31. List the distinguished alumni of the department(maximum 10)

1. Dr. J.S. Tiwari, Retd. Prof. SOS Pt.R.S.U. Raipur,
2. Dr.G.L.Mundhara, Retired Head of Department, SOS Chemistry, Pt.R.S.U. Raipur,
3. Dr.S.S.Kamavisdav, Retd. Principal Tildanewra
4. Dr. H.S.Kar Principal, Govt. College Dharsiwa Raipur
5. Dr. K.N. Sharma, Principal, Govt.College Gariyabandh,
6. Dr.Kallol Ghosh Head of Department, SOS Chemistry, Pt.R.S.U. Raipur,
7. Dr.Santosh Thakur Asstt.prof. central University Bilaspur (C.G.)
8. Rajnish Singh DSP, Police Dept., Raipur.
9. Ashish Kurrel, Probationary Officer (Canara Bank)

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

- Extension lectures have been organized.
- Chemical society of the department regularly organizes lectures by eminent personalities twice or more in a year.
- In 2008 National Seminar was organized.
- In 2012 national symposium was organized on 24th - 25th April.

33. List the teaching methods adopted by the faculty for different programmes.

- In UG classes traditional chalk and talk method is used.

- In PG classes LCD, OHP, models, charts along with traditional chalk and talk method is used.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The programme objectives are constantly met and students learning outcomes is continuously monitored by

- Class tests
- Quarterly/half yearly examination
- Seminars
- Unit tests
- Student feedback

35. Highlight the participation of students and faculty in extension activities.

Students participated in social work organized by NSS, NCC, Youth Red Cross, Red Ribbon society of the college. Students also take part in other extracurricular activities such as in sports & cultural programme of the College. One faculty member is the incharge of NCC infantry.

36. Give details of “beyond syllabus scholarly activities” of the department.

Department celebrates Science Day on 28th February and Ozone day on 16th September every year. One school is being adopted by Chemistry department to teach school students by M.Sc. students. One new programme for school students is to be organized weekly to demonstrate experiments which are not available in school laboratory although these experiments are in their syllabus.

37. State whether the programme/department is accredited/graded by other agencies. Give details. - Nil

38. Detail any five Strengths, Opportunities and Challenges (SWOC) of the department.

Strength

- Principal of the College is a man of organic and physical chemistry. His valuable suggestions, innovative ideas, gives great strength to both faculty members and PG students
- Well qualified, competent and experienced teaching staff.
- Big, ventilated, established UG laboratories.

- Well academic atmosphere
- Recognized research centre.

Weakness

- Insufficient fund to run laboratories
- Less number of technical and supporting staff
- Inadequate number of UG/PG class rooms
- Department has no major/minor research project
- All the members of the department are not research guide.

Opportunities

- UGC (CPE) Grant
- Get fund from Higher Education Department for development of infrastructure.

Challenges

- Student teacher ratio is too high in UG classes.
- Every member must have one research project.
- Maximum faculty member should be research guide.
- Coaching facilities for NET/SET and other competitive examinations.

39. Future plans of the department.

- Department wants to increase the seats in PG classes.
- Expansion of PG lab, Research lab and ICT facility.
- To revise and update courses in accordance with the changing needs of society, industry and knowledge explosion,

EVALUATIVE REPORT OF THE DEPARTMENT (COMPUTER SCIENCE)

- 1. Name of the Department and its year of establishment:** Computer Science 1993, under Physics dept. established as separate department in 2012.
- 2. Names of Programmes/Courses offered-** UG, BCA & B.Sc., Diploma-DCA & PGDCA
- 3. Interdisciplinary courses and department involved –** Nil

4. **Annual/Semester/ choice based credit system** - Annual in BCA & B.Sc. , Semester in PGDCA & DCA

5. **Participation of the department in the course offered by other department** – Nil

6. **Number of teaching posts sanctioned and filled (Professors/ Promoted Professors/Asst. Professors)**

Post	Sanctioned	Filled
Professor	01	Nil
Promoted Professors	--	--
Asst. Professors	04	Nil (Regular)

Note: The 04 Guest lecturers are working against the sanctioned vacant post.

7. **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 in the last 4 years
←	Nil	→	→		

8. **Percentage of classes taken by temporary faculty** Program wise information
80%

9. **Programme-wise student Teacher Ratio** – 62:1

10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled**

- (a) Technician- 01
- (b) Lab Attendant – 01
- (c) Peon – 01

11. **Number of faculty with ongoing projects from (a) National (b) International funding agencies and (c) Total grants received.** – Nil

12. **Departmental projects funded by DST-FIST, DBT, ICSSR, etc. total grants received** – Nil

13. Research facility/centre with

- (a) state recognition – Nil
- (b) national recognition – Nil
- (c) international recognition – Nil

14. Publications

- **Number of papers published (national/international)-** 15 (By Guest Lecturers)
- **Monographs – Nil**
- **Chapters in book – Nil**
- **Editing Books – Nil**
- **Books with ISBN numbers with details of publishers – Nil**
- **Number listed in International Database (for e.g. Web of Science, Scopus, Humanities International complete, Dare Database- International Social Science Directory, EBSCO host, etc.) –**
- **Citation Index – range /average**
- **SNIP**
- **SJR**
- **Impact factor – range / average**
- **h-index**

15. Details of patents and income generated – Nil

16. Areas of consultancy and income generated -Nil

17. Faculty recharging strategies – Different seminar and conferences attended by faculty.

18. Students Projects - No project in UG Classes.

- **Percentage of students who have done in house projects including inter-departmental – Nil**
- **Percentage of students doing projects in collaboration with industries/ institutes – Nil**

19. Awards/ recognitions received at the national and international level by -Nil

- Faculty –
- Doctoral/post doctoral fellows-
- Students –

20. Seminars/ Conferences/ workshops organized and the source of funding (national/ international) with details of outstanding participants, if any. -Nil

21. Student profile course wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.	400	20	40	85%	75%
BCA	114	14	16	57%	75%
DCA	49	12	04	57%	75%
PGDCA	157	08	21	100%	100%

22. Diversity of students –

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other states	% of students from other countries
B.Sc.	0%	98%	02%	Nil
BCA	0%	100%	Nil	Nil
DCA	3%	97%	Nil	Nil
PGDCA	20%	80%	Nil	Nil

23. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations?

Approx 30 students get selected in MCA and other post graduate courses in different university every year.

24. Student progression

Student progression	Percentage against enrolled
UG to PG	Nil
PG to M.Phil	Nil
PG to Ph.D	Nil
Ph.D. to Post-Doctoral	Nil
Employed <ul style="list-style-type: none"> Campus selection Other than campus recruitment 	Nil
Entrepreneurs	Nil

25. Diversity of staff (Guest Lecturers)

Percentage of faculty who are graduates	
of the same parent university	(100%)
from other university within the state	
from other university from other states	

26. Number of faculty who were awarded Ph.D. , D.Sc. and D.Litt. during the assessment period –Nil

27. Present details about infrastructural facilities

- a) **Library** – Yes – 250 Books
- b) **Internet facilities for staff and students** – Available
- c) **Total number of class rooms** – 04
- d) **Class rooms with ICT facility** – 02
- e) **Students laboratories** – 02
- f) **Research laboratories** – Nil

28. Number of students of the department getting financial assistance from College - Nil

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. – Nil

30. Does the department obtain feedback from

- a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Faculty of the department is involved in the meeting of the department. To discuss the nature of curriculum and teaching learning and evaluation methods and suggest some methods which is discussed in board of studies.

- b. **Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same**

Department obtains feedback from UG students twice in a year. Their comments is entertained in favour of the institution and noticed to the staff.

- c. **alumni and employers on the programmes and what is the response of the department to the same-**

Curriculum changes are incorporated through Board of Studies, All the faculty members of the department along with the two member outside the department are the members of Board of Studies. Their suggestions help in improving teaching-learning procedures.

31. List the distinguished alumni of the department (maximum 10) –

- 1. Ku. Mahima Pandey
- 2. Rupdhar Patel
- 3. Ku. Sandhya Pandey
- 4. Ku. Payal Taunk
- 5. Ku. Punam Sharma
- 6. Ku. Parbha chodhari

7. Ku. Anupama Sharma

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts. – Seminars are organized by distinguished personalities.

33. List of teaching methods adopted by the faculty for different programmes – Black board, computer LCD Projector and PowerPoint Presentation.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Continuously getting feedbacks from faculty and students and monitoring results.

In every departmental meeting it is ensured that programme objectives are completed or not. All staff members maintain attendance register as well as daily diary of their work, which is periodically checked by head of department as well as by principal. Third monthly, six monthly examinations & unit test are organized to monitor learning outcome.

35. Highlight the participation of students and faculty in extension activities.

Students participate in NSS, NCC and in other extracurricular activities such as in sports & cultural programme of the college.

36. Give details of " beyond syllabus scholarly activities" of the department – Nil

37. State whether the programme/department is accredited/graded by other agencies. Give details. - Nil

38. Detail any five strengths, weaknesses, opportunities and challenges (SWOC) of the department

Strength

- Well qualified teaching staff (Temporary)
- Well established lab
- Well academic atmosphere
- Internet facilities for students in college hours.

Weakness

- Non availability of regular Staff for the department
- Non availability of well qualified Lab Staff.

Opportunities

- Department has good library with very rare books and good reference books
- Department has well established lab with internet facility.

Challenges

- One seminar Hall is very essential for department.
- Student Teacher ratio is too high for UG classes
- Department is facing lack of teaching and non teaching staff.
- The majority of student comes from very remote area and villages. However, the department is continuing to serve for betterment of the students.

39. Future plans of the department-

- Due to demand of PGDCA Department may try to increase the seats in PGDCA classes.
- Expansion of Lab

EVALUATIVE REPORT OF THE DEPARTMENT (DEFENCE STUDIES)

- 1. Name of the Department & its year of establishment –Defence Studies**
UG – 1972
PG - 1987
- 2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc) –**
UG: B.Sc.
PG : M.Sc.
Ph.D.- Defence Studies
- 3. Interdisciplinary courses and department involved – Nil**
- 4. Annual/semester/choice based credit system. :**
UG-Annual
PG- Semester
- 5. Participation of the department in the courses offered by other departments –Nil**

6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor	01	Nil
Promoted professors	-	-
Assistant professors	02	02

Note – one teaching staff is working (temporary) against the vacant post of professor.

7. 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.
Dr. G.K. Pandey	M.Sc., B.J., Ph.D., D.Litt.	Assistant Professor	Science and Tech. in war Naxal Insurgency	23 Years	03
Dr. P.K. Kadwe	M.Sc., Ph.D.	Assistant Professor	Defence mechanism & Geostrategy	20 years	--
Dr. Geetanjali Chandrakar	M.Sc., Ph.D.	Assistant Professor (temporary)	Military History	8 years	--

8. Percentage of classes taken by temporary faculty-programme-wise information :

UG: 30 %

PG: 30%

9. Programme-wise Student Teacher Ratio :

UG: 50:1

PG -8:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled) :

i. Technical staff - 01

ii. Class four - 02

11. Number of faculty with ongoing projects from a) national b) international funding agencies and Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc,; total grant received
– Nil

13. Research facility/centre with

- State recognition - Yes
- National recognition - Yes
- International recognition

14. Publications:

- Number of papers published in peer reviewed journals (national/international) : 08
- Monographs - nil
- Chapter(s) in Books- 02
- Editing Books -01
- Books with ISBN numbers with details of publishers- 02
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) -01
- Citation Index- range/ average -
- SNIP-
- SJR -
- Impact factor – range/average -
- H-index –

15. Details of patents and income generated - Nil

16. Areas of consultancy and income generated – Nil

17. Faculty recharging strategies - Seminars, Workshop, Education Excursion. Department organized lecture series, Education Tours, Field Visits, Exhibition for storming the skills of faculty members and students.

18. Student projects

- Percentage of students who have done in-house projects including inter-departmental - 20% PG Students
- Percentage of students doing projects in collaboration with industries/institutes - Nil

19. Awards/recognitions received at the national and international level by

- Faculty – 01 Dr. G.K. Pandey (D.Litt. Award)
- Doctoral– 02 Dr. Geetanjali Chandrakar and Dr. Varnika Sharma
- Post Doctoral fellowship - 02 Dr. Geetanjali Chandrakar and Dr. Varnika Sharma

- **Students**

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any. - 02

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	female	Male	female
UG B.Sc.	Central Counseling	116	34	50%	60%
PG M.Sc.	Central Counseling	13	13	100%	100%

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
UG	Nil	95%	05%	Nil
PG	75%	95%	05%	Nil
Ph.D.	100%	100%		Nil

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations?

Defence Services – 02

NET – 06

Any other competitive examinations – 05 Police

Bank - 02

24. Student progression

Student progression	Percentage against enrolled
UG to PG	33%
PG to M.Phil.	-
PG to Ph.D.	15%
Ph.D. to Post-Doctoral	08%
Employed	
• Campus selection	02
• Other than campus recruitment	11
Entrepreneurs	03

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	50%
From other universities within the State	Nil
From other universities from other State	50%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Ph.D. – 01(temporary faculty)

D.Litt. - 01

27. Present details about infrastructural facilities

- a) **Library** – PG - 2553 Books
- b) **Internet facilities for staff and students** – Free for all
- c) **Total number of class rooms** – 04 rooms
- d) **Class rooms with ICT facility**- 03
- e) **Students laboratories** – 03
- f) **Research laboratories** –01

28. Number of students of the department getting financial assistance from College.

All ST/SC/OBC students are getting financial assistance from College.

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology ? – Nil**30. Does the department obtain feedback from**

- a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, the curriculum modified and upgraded time to time by getting suggestion from faculty members. Introduced Audio Visual aid in teaching process.

- b) **Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?**

Yes, department obtains feedback from UG and PG students. Their comments are analyzed and necessary action is taken.

c) Alumni and employers on the programmes and what is the response of the department of the same?

Yes, organized alumni meet. Department fulfill the suggestion of alumni and staff member in favour of institution and students progress

31. List the distinguished alumni of the department (maximum 10)

- Shirish Tiwari ABEO, School Education, Raipur
- Kulwant singh Saini Business Man, heavy Vehicle, Raipur
- Dr. Ashok Verma Business Man, Tractor Parts, Raipur
- Jay Prakash Tamboli Class One Contractor, Raipur
- Anurag Pandey Business man, Metal Sector, Raipur
- Sarita Takur Social Service, Raipur
- Jay Prakash Tulswani Business man, Gold and Jewelry, Raipur
- Vimal nayan Pandey African Studies, Internation Relations, New Delhi
- Dr. Lokesh Kumar Soni Indian Railway, Itarasi
- Dr. Meghesh Tiwari Principal Vipra College, Raipur (C.G.)
- Major K.K. Bose Indian Army

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Department organize special lectures series for students every year. Students present paper in seminars.

33. List the teaching methods adopted by the faculty for different programmes.-

Audio Visual

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Department observe every student's progress, and the result is 100%.

35. Highlight the participation of students and faculty in extension activities.

Visit High School and Villages to Promote Science Education and Scientific temperament

36. Give details of "beyond syllabus scholarly activities" of the department.-

Coaching for various types of competitive examination and field visit

37. State whether the programme/department is accredited/graded by other agencies. Give details.

Department of Defence Studies became best department scored by the Principal and college administration in the year of 2010-11 and 2011-12.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Other infrastructure as well the level of **Naxal research** is recognized at National level.
- Department have highly qualified staff
- Well equipped labs
- Sufficient books
- Unique museum

Weaknesses

- Department have only two regular and one temporary teacher so the **lack of teacher** is affected the expansions of our research activities.

Opportunities

- Department have 100% Ph.D. holder Teachers and our Library have sufficient books and Journals so our Resources is good

Challenges

- Awareness of the subject among student and parents. As well as our subject is not taught in the school education so the subject **open in the school education** is our challenge.

39. Future plans of the department.

- Subject open within the State and spread of research facility.
- Open peace research institute with the help of U.G.C. and other agencies.

EVALUATIVE REPORT OF THE DEPARTMENT (ENGLISH)

1. Name of the Department & its year of establishment-

Name of the Department –English

Year of Establishment – UG -1948

PG from 1961 – 1975

2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)

UG -Foundation Course- English Language

3. Interdisciplinary courses and department involved-NA

4. Annual/semester/choice based credit system- Annual Examination

5. Participation of the department in the courses offered by other departments-NA

6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor	01	Nil
Promoted professors	-	01
Assistant professors	03	03

7. 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 in the last 4 years
Dr Shukla Banerjee	PhD(English)	Professor	American Literature	30	10
Dr Savita Singh	Phd (English) Diploma (French)	Assistant Professor	Indian Writing Contemporary Literature	19	06
Dr Rita Soni	PhD(English)	Assistant Professor	Indian writing	26	-
Dr Harsh Sharma	PhD(English)	Assistant Professor	Diaspora Studies	26	-

8. Percentage of classes taken by temporary faculty-programme-wise information- 0%

9. Programme-wise Student Teacher Ratio-

UG Level - 418:01(English language is compulsory to all UG students)

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)- Peon-01

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise.- Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received- Nil

13. Research facility/centre:

- State recognition
- National recognition
- International recognition

The Department does not have a Research Centre

14. Publications:

- **Number of papers published in peer reviewed journals (national/international)**

- (i) Dr Shukla Banerjee- 05 & 7 articles in Times of India
- (ii) Dr Savita Singh- 06
- (iii) Dr Rita Soni-04
- (iv) Dr Harsh Sharma-02 & articles in Hitwada

- **Monographs-Nil**

- **Chapter(s) in Books-**

- (i) Dr Savita Singh-01
- (ii) Dr Rita Soni- 01
- (iii) Dr Harsh Sharma-01

- **Editing Books-Nil**

- **Edit Research Journals-02-**

Literati (ISSN 0973-2410) / *Indian Scholar* (ISSN 0971-2410)

- **Books with ISBN numbers with details of publishers- 01**

- Dr Savita Singh- *Zora Neale Hurston: A Life Come Full Circle* (ISBN 81-89244-31-0) Vaibhav Prakashan

- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)-(ISBN/ISSN)**

- **Citation Index- range/ average-** Information not available
- **SNIP-Information not available**
- **SJR- Information not available**

- **Impact factor – range/average** – Information not available
- **H-index**-Information not available

15. Details of patents and income generated-Nil

16. Areas of consultancy and income generated-Nil

17. Faculty recharging strategies-

Attending and organizing Seminars/ Conferences/ Workshops.

18. Student projects-Nil

- **Percentage of students who have done in-house projects including inter-departmental**
- **Percentage of students doing projects in collaboration with industries/institutes**

19. Awards/recognitions received at the national and international level by-Nil

- Faculty
- Doctoral/post doctoral fellows
- Students

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

01-National Conference organized in 2010 by Chhattisgarh English Teachers' Association, Raipur

02 -Workshops on ELT organized in 2012 & 2013 by ELT@I Raipur Chapter

21. Student profile course-wise-

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.- I 2010-11	2352	540	359	45	30
B.Sc-II 2011-12	349	220	129	83	63
B.Sc-III 2012-13	240	170	70	85	80

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
UG	0%	90%	10%	Nil

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations? Nil**24. Student progression**

Student progression	Percentage against enrolled
UG to PG	-
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 	-
Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
Of the same parent university	75%
From other universities within the State	-
From other universities from other State	25%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

01- PhD- Dr Harsh Sharma (2013)

27. Present details about infrastructural facilities

- Library-** Departmental Library- Number of Books: 500
- Internet facilities for staff and students-** Nil
- Total number of class rooms-**NA
- Class rooms with ICT facility-**Nil
- Students laboratories-** English Language Laboratory
- Research laboratories-**Nil (No research centre)

28. Number of students of the department getting financial assistance from College.
NA

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology. – NA

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes, the faculty discusses the curriculum and the process of teaching- learning-evaluation in meetings and with experts, and tries to bring in improvement, within its limited autonomy.

b. Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

Student feedback is collected and analysed, and necessary action taken.

c. Alumni and employers on the programmes and what is the response of the department of the same?

NA

31. List the distinguished alumni of the department (maximum 10)

The Department contributes to the UG programme. Students pursue PG (English) later on and have done well in their chosen fields. Distinguished Graduates of the college are the distinguished alumni of the department.

32. Give details of student enrichment programmes (special lectures/ workshops/seminar) with external experts.

The Department has an English Language Society and under its aegis workshops on Vocabulary Building/ Memory enhancement/ Spoken English/ Communication Skills/ Personality Development are organized to help students.

33. List the teaching methods adopted by the faculty for different programmes.

The faculty uses the traditional method of teaching English as a second language. The Chalk and Talk method, and participative and interactive methods are used. The English Language Laboratory is used to teach English through use of technology. Special efforts are made for the improvement of communication skills.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The Department takes regular class tests on English Language to monitor the progress of students.

35. Highlight the participation of students and faculty in extension activities.

The students and faculty are involved in extension activities.

- Students run the English Language Society where they organize programmes for improvement of English Language. They edit Spectrum, a Wall magazine.
- The faculty members of the department edit *Literati* (ISSN- 0973-1474), and the *Indian Scholar*(ISSN-0971-2410) which are research journals. Dr Shukla Banerjee has edited *Manisha*, the college magazine. Dr Shukla Banerjee is a creative writer.
- The faculty members are the patrons and founder members of the Chhattisgarh English Teachers' Association, and have organized three national conferences (2000, 2004, 2010).
- Dr Shukla Banerjee has given Key Note Lectures, and been a resource person in Academic Staff Colleges, and Seminars.
- Dr Savita Singh is the Convener of the Raipur chapter of the English Language Teachers' Association of India and has organized two Workshops in Raipur. ELT@I, Raipur Chapter conducts weekend classes for children of the under-privileged.
- Dr Rita Soni taught at a Training Programme on Basic English for Women, organized by the Mahila Kalyan Samiti, Raj Bhavan, Raipur.
- Dr Harsh Sharma has made a substantial contribution to the Career Guidance and Placement Cell.

36. Give details of “beyond syllabus scholarly activities” of the department.

- Research Guides-Dr Shukla Banerjee and Dr Savita Singh
- Resource persons in Seminars /BOS/ ASC- Dr Shukla Banerjee and Dr Savita Singh
- Creative Writing – Dr Shukla Banerjee
- Organizing lectures and programmes on enhancing communication skills.
- Teaching and guiding students to develop writing and presentation skills

37. State whether the programme/department is accredited/graded by other agencies. Give details.- NA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- Qualified, competent, experienced faculty.

Weakness

- No PG/ Research Centre/ Lack of funds/ Limited support staff

Opportunities-

- Growing importance of English Communication skills in Chhattisgarh, a developing state.

Challenges-

- Teaching English to students from tribal/ rural/ backward areas. Guiding research though there is no Research Centre

39. Future plans of the department.

- Opening a Diploma in Communication Skills, a dire need.
- Initiating PG in English Literature, followed by a Research Centre

**EVALUATIVE REPORT OF THE DEPARTMENT
(GEOLOGY)**

1. Name of the department and its year of establishment

Department of Geology U.G. 1948 P.G. 1956

2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc) –

U.G. : B.Sc.
P.G. : M.Sc.
Ph.D. : Recognized Research Centre affiliated to Pt. R.S.U. Raipur.

Department of Geology is running add-on course on Environment Impact Assessment under the self financing scheme, but since last two years 2011-12 and 2012-13 students did not take admission in this course.

3. Interdisciplinary courses and department involved – Nil

4. Annual/semester/choice based credit system. –

UG- Annual system
PG- Semester system

5. Participation of the department in the courses offered by other departments - Nil

6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor	01	Nil
Promoted professors	-	04
Assistant professors	05	01

7. 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 in the last 4 years
Dr. Rajendra Singh	M.Sc. Ph.D.	Promoted Professor	hydrogeology	29	Nil
Dr. S.S. Bhadauria	M.Tech. Ph.D.	Promoted Professor	hydrogeology	28	Nil
Dr. R. Shridhar Rao	M.Tech. Ph.D.	Promoted Professor	hydrogeology	28	Nil
Dr. Rajeeva Guhey	M.Tech. Ph.D.	Promoted Professor	Sedimentology, Remote Sensing	28	One Awarded and three registered
Pradeep Thakur	M.Sc.	Assistant professor	-	32	-

8. Percentage of classes taken by temporary faculty-prograamme-wise information
0%

9. Programme-wise Student Teacher Ratio

UG – 36:1

PG – 4:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled) –

	Filled
Technical	1
Administrative	Nil
Attendant	1
Farrash	1

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received –Nil

13. Research facility/centre with

- State recognition- Yes
- National recognition - Yes
- International recognition –

14. Publications:

- **Number of papers published in peer reviewed journals (national/international)-**
National – 03
International – 02
- **Monographs - Nil**
- **Chapter(s) in Books- Nil**
- **Editing Books- Nil**
- **Books with ISBN numbers with details of publishers-**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index- range/ average**
- **SNIP**
- **SJR**
- **Impact factor – range/average**
- **H-index**

15. Details of patents and income generated - Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies – Faculties are encouraged to participate in Young Scientists congress, extension lectures, seminars/workshops and field works.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental** – nil
- **Percentage of students doing projects in collaboration with industries/institutes**

P.G. Geological field Training in different Mines of NMDC, Coal India Ltd. Balco, Limestone quarry and mines of different cement companies like, ACC, Ultratech, Century Cement etc. 100%

19. Awards/recognitions received at the national and international level by

- **Faculty** – Dr. Rajeeva Guhey, Professor Geology- YOUNT SCIENTIT'S AWARD FOR BEST PAPER PRESENTATION IN 7TH YOUNG SCINCTIST'S CONGRESS, AT DEVI AHILYA UNIVERSITY, INDORE SPONSORED BY MAPCOST, BHOPAL (1992)
- **Doctoral/post doctoral fellows**
- **Students**

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

- National seminar on RECENT RESEARCHAES IN THE PROTEROZOIC BASINS IN INDIA, sponsored by UGC, CSIR. 70 participants attended. (1999-2000)
- Planned a state level workshop during 2013-14 on APPLICATION OF REMOTE SENSING AND GIS IN GEOLOGICAL SCIENCES.

Outstanding Speakers-

- Dr. V.C. Singh Professor and Head(Geology Department) Jiwaji University, Gwalior (M.P.)
- Shri Viplov Chatterjee Geologist Bangalore
- Dr. G.P. Pandey Govt. Science college Rewa
- Shri Nitish Dutt G.S.I. Raipur
- Dr. A.S. Dave Engineering college, Raipur

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc. I	225	80	32	50	52
B.Sc. II	53	40	13	61	62
B.Sc. III	29	24	05	100	100

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
UG	Nil	95%	05%	Nil
PG	60%	35%	05%	Nil
Ph.D.	66%	33%	-	-

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations? -

NET - 02

GATE- 01,

State PSC-03,

DGM - 04

24. Student progression

Student progression	Percentage against enrolled
UG to PG	100%
PG to M.Phil.	NA
PG to Ph.D.	3 candidates (3%)
Ph.D. to Post Doctoral	Nil
Employed <ul style="list-style-type: none"> Campus selection Other than campus recruitment 	70%
Entrepreneurs	Nil

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	100%
From other universities within the State	Nil
From other universities from other State	Nil

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. 01

27. Present details about infrastructural facilities

- a) **Library –** P.G. Library 1700 Books
- b) **Internet facilities for staff and students –** Nil
- c) **Total number of class rooms -** One UG lab and 2 PG class rooms.
- d) **Class rooms with ICT facility –** Yes
- e) **Students laboratories** 1 UG
- f) **Research laboratories-** Nil

28. Number of students of the department getting financial assistance from College.-

All SC/ST/OBC/BPL students are getting scholarships

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology.

Planning to establish a new Remote Sensing and GIS Lab in Remote sensing and GIS course for PG classes

30. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The department obtain feedback from faculty on curriculum as well as teaching learning by conducting meeting of Board of Studies once in a year and the suggestion of faculties are implemented during syllabus preparation.

b) Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

There is a provision of taking feedback from the student regarding the teachers, teaching pattern and reformulation of syllabus.

c) Alumni and employers on the programmes and what is the response of the department of the same?

Alumni working in different State and Central Government departments help their juniors during field excursion and even guiding them for better employment opportunities.

31. List the distinguished alumni of the department (maximum 10)

- N.K. Chandrakar Regional Director, DGM, Raipur
- G.R. Sahu Registrar, Chhattisgarh Swami Vivekanand Tech. Univ.
- Purnanand Verma Assistant Geologist, DGM Raipur
- Prashant Kavishwar Scientist, Chhattisgarh COST Raipur
- Anurag Deevan Mining Officer, Bilaspur
- Sri Sudhir Singh Dy Director, DGM Raipur
- Megha Jha Purani Basti, Raipur
- Rahul Sharma Asst. Geologist/PSC selected in DSP,
- Deepak Mishra Asst. Geologist, Directorate of Geology & Mining.
- Deepima Sinha Asst. Prof. Geology, Engineering College, Ambikapur

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts. –

Extension lecture organized during Aug- Sept 2013, Senior Faculties are Sambalpur University, ISI Calcuta, Govt Holkar Science College Indore, Scientist from CGWB and Faculties from Pt. RSU Raipur

33. List the teaching methods adopted by the faculty for different programmes.

Audio-visual and traditional Chalk & Talk system

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The objectives are fulfilled. Apart from faculties of the department, invited faculties from various institutions delivered guest lectures that are beneficial to P.G. and U.G. students.

35. Highlight the participation of students and faculty in extension activities.

P.G. Students have attended the short term courses organized by Rajiv Gandhi Ground Water Research and Training Institute, and CGWB Raipur.

36. Give details of “beyond syllabus scholarly activities” of the department.

Students have participated in Science Exhibition and presented models and Posters.

37. State whether the programme/department is accredited/graded by other agencies. Give details. – NA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department. –

Strengths

- Well equipped lab
- Well qualified staff (Ph.D. 04)
- Well estabilized Geological Museum.
- Enriched Post Graduate Departmental Library.
- Students placement in State, National Institutes and MNCs.

Weaknesses

- Shortage of supporting staff.
- Undeveloped research lab
- No Internet facility not provided.

39. Future plans of the department.-

- Planning to establish a new Remote Sensing and GIS Lab for Remote sensing and GIS course.

**EVALUATIVE REPORT OF THE DEPARTMENT
(HINDI)**

- 1. Name of the Department & its year of establishment : Hindi**
Establishment year – UG -1948
- 2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc) –**
B.Sc. – Hindi language
- 3. Interdisciplinary courses and department involved – Nil**
- 4. Annual/semester/choice based credit system. – UG: Annual**
- 5. Participation of the department in the courses offered by other departments - Nil**
- 6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)**

	Sanctioned	Filled
Professor	01	Nil
Promoted professors	-	01
Assistant professors	02	03

7. 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 in the last 4 years
Dr. Renu Saxena	MA, Ph.D. Award Ratna	Promoted professor	Hindi journalism	30 years	06
Mr. S.K. Sharma	MA	Assistant Professor	Surdas	29 years	Nil
Smt. A Mahto	MA	Assistant Professor	Jaishankar Prasad	28 years	Nil
Dr. Vandana Kumar	MA , M.Phil, Ph.D., BJ	Assistant Professor	Nirmal Verma	23 years	02

8. Percentage of classes taken by temporary faculty-programme-wise information -0%

9. Programme-wise Student Teacher Ratio

UG – 418:01(Hindi language is compulsory to all UG students)

10. Number of academic support staff (technical and administrative staff: sanctioned and filled) – one helper to Hindi and English both.

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received –Nil

13. Research facility/centre with

- State recognition-
- National recognition -
- International recognition –

The Department does not have a Research centre

14. Publications:

- **Number of papers published in peer reviewed journals (national/international)**

Dr. Renu Saxena – 09

Dr. Vandana Kumar – 07

- **Monographs - Nil**
- **Chapter(s) in Books- Nil**
- **Editing Books- Nil**
- **Books with ISBN numbers with details of publishers- Dr. Vandana Kumar - 02**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index- range/ average**
- **SNIP**
- **SJR**
- **Impact factor – range/average**
- **H-index**

15. Details of patents and income generated - Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies- Attending seminars/conferences/workshops

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental - Nil**
- **Percentage of students doing projects in collaboration with industries/ Institutes – Nil**

19. Awards/recognitions received at the national and international level by

- **Faculty – Dr. Renu Saxena awarded by “jk’V^{ah}; fo|k ljLorh iqjLdkj” from Institute of Educational and Management New Delhi**
- **Doctoral/post doctoral fellows- Nil**
- **Students - Nil**

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any. - Nil

21. Student profile course-wise

22. Diversity of students

02(from other state)

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations? -

NET - 02

PSC- 02

24. Student progression – NA

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurs	

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	100%
From other universities within the State	
From other universities from other State	

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. NIL**27. Present details about infrastructural facilities**

- a) **Library** – No(Books available in main Library)
- b) **Internet facilities for staff and students** – No
- c) **Total number of class rooms** - No
- d) **Class rooms with ICT facility** – No
- e) **Students laboratories** No
- f) **Research laboratories-** No

28. Number of students of the department getting financial assistance from College.-

All ST/SC/OBC students are getting financial assistance from college.

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology. - NA

30. Does the department obtain feedback from -

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
- b) Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?
- c) Alumni and employers on the programmes and what is the response of the department of the same?

Yes, the department obtains feedback from faculty, students, and alumni.

31. List the distinguished alumni of the department

- | | |
|-------------------|--|
| 1.Dr. Ajay Sahai | Doctor (MBBS), Raipur |
| 2.Uma Janghel | Assistant Professor Columbia college, Raipur |
| 3.Manoj Patel | School Teacher |
| 4.Ajitabh Sonwani | Assistant Professor (NIT, Raipur) |
| 5.Minakshi Sahu | Geologist (selected through UPSC) |
| 6.Deepak De | Electronic Media, Raipur |
| 7.Arati Dhruw | Assistant Professor, Baloda Bazar |
| 8.Divya Sarabhai | Medical Officer, Rajnandgaon |

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Hindi language society organized language programme and lecture.

33. List the teaching methods adopted by the faculty for different programmes.

Chalk & Talk/ Laptop/Computer/Projector

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Department constantly monitored the outcome of teaching and learning through class test, language based general knowledge, quarterly/half yearly exams.

35. Highlight the participation of students and faculty in extension activities.

Hindi Society organized – dfork ikB] fuca/k ys[ku] Hkk'k.k] oknfookn] iksLVj] ukjk ys[ku] t;afr;kj] lkfgfR;d fDot]] MkW js.kq IDIsuk ,oa MkW- oUnuk dqekj & ysf[kdk,i gSA

36. Give details of “beyond syllabus scholarly activities” of the department.

Research Guide – Dr. Renu saxena & Dr. Vandana Kumar

37. State whether the programme/department is accredited/graded by other agencies. Give details. – No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department. –

Strengths

- Qualified teacher

Weaknesses

- No PG
- No fund

Opportunities

- To grow the importance of Hindi in C.G.

Challenges

- To teach Hindi in rural areas.

39. Future plans of the department.- PG in Hindi Literature, research centre

**EVALUATIVE REPORT OF THE DEPARTMENT
(INFORMATION TECHNOLOGY)**

- 1. Name of the Department & its year of establishment** –Department of Information Technology (2002-03) with Mathematics.
Established as separate department in June 2012.
- 2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc) –**
UG: B.Sc.

3. Interdisciplinary courses and department involved – Nil

4. Annual/semester/choice based credit system. : Annual

5. Participation of the department in the courses offered by other departments –Nil

6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)

	Sanctioned	Filled
Professor		-
Promoted professors	-	-
Assistant professors	02	Nil

Note – Two guest teachers are working against the two sanction posts.

7. 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 in the last 4 years
Aamir Hasan	M.Sc., M.Phil.	Guest teacher	Information technology	01 year	Nil
Anil kumar Sharma	M.Sc., M.Phil.	Guest teacher	Information technology	6 years	Nil

Note – Dr. M.S. Gupta, Assistant professor (Mathematics) is acting as Head of the Department.

8. Percentage of classes taken by temporary faculty-programme-wise information : 100%

9. Programme-wise Student Teacher Ratio : 78:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled) :

01 (Technical staff)

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received – Nil

13. Research facility/centre with – Nil

- State recognition
- National recognition
- International recognition

14. Publications: Head of Department

- **Number of papers published in peer reviewed journals (national/international) :**
National -02
International – 02
- **Monographs -**
- **Chapter(s) in Books-**One Book:- Vector Analysis and Geometry (Hindi Medium)
- **Editing Books -**
- **Books with ISBN numbers with details of publishers-**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) -**
- **Citation Index- range/ average -**
- **SNIP-**
- **SJR -**
- **Impact factor – range/average -**
- **H-index –**

15. Details of patents and income generated- Nil

16. Areas of consultancy and income generated – Nil

17. Faculty recharging strategies

Conducting Conference, Seminar, Workshop and Lectures.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental -** Nil
- **Percentage of students doing projects in collaboration with industries/institutes -** Nil

19. Awards/recognitions received at the national and international level by

- **Faculty –**Head of Department having member of editorial board in the Journal (Indian Journal of Sciences).
- **Doctoral/post doctoral fellows**
- **Students**

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any. - NIL

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	female	Male	female
B.Sc.	2009-10 (28)	19	09	100	100
B.Sc.	2010-11 (27)	12	15	91.6	100
B.Sc.	2012-13 (26)	14	12	85.7	83.3

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students of from the State	% of students from other States	% of students of from other countries
B.Sc. I(2013-14)	-	93%	2%	Nil
B.Sc. II (2013-14)	97%	3%	Nil	Nil
B.Sc. III (2013-14)	100%	Nil	Nil	Nil

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations? – Nil

24. Student progression

Student progression	Percentage against enrolled
UG to PG	-
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 	-
Entrepreneurs	-

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	100%
From other universities within the State	
From other universities from other State	

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. -Nil

27. Present details about infrastructural facilities

- a) Library – central Library
- b) Internet facilities for staff and students - Available
- c) Total number of class rooms – 4 rooms are assign for IT and other subject classes
- d) Class rooms with ICT facility- Available
- e) Students laboratories – One, another under process
- f) Research laboratories – Nil

28. Number of students of the department getting financial assistance from College.- 02

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology ?

We are planning to open M.Sc. (IT) for this we need class rooms, Lab with equipments, Faculties, etc.

30. Does the department obtain feedback from -

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes,

b. Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

Students are satisfied by the teaching technique of IT subject.

c. Alumni and employers on the programmes and what is the response of the department of the same?

Under process

31. List the distinguished alumni of the department (maximum 10) - Nil

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Lecture delivered by external expert -01 (jointly with Mathematics department)

33. List the teaching methods adopted by the faculty for different programmes.-

- Chalk and Talk
- LCD

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The programme objectives are constantly met and students learning outcomes is continuously monitored by

- Class tests
- Quarterly/half yearly examination
- Unit tests
- Student feedback

35. Highlight the participation of students and faculty in extension activities.

NCC: 05

NSS: 08

36. Give details of “beyond syllabus scholarly activities” of the department.- Nil

37. State whether the programme/department is accredited/graded by other agencies. Give details. Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Well qualified staff
- Rich library
- Internet facility: to update our self as well as to students.

Weaknesses

- Insufficient number of labs with equipments.

Opportunities

- After the completion of IT course in graduate level, the students should get job in Government sector, semi government, private sector in several fields like IT officer, IT expert, assistant programmer, technical assistant, computer operator and also they can get job in teaching field.

Challenges-

- Students having poor background in English so they do not feel comfort with the terminology related to the subject.

39. Future plans of the department.

- Separate labs for all IT classes
- Affiliation for M.Sc. in IT
- To conduct workshop/conferences/seminars and expert's lectures
- To organize training programs for the students

EVALUATIVE REPORT OF THE DEPARTMENT (MICOROBIOLOGY)

1.Name of the Department & its year of establishment : Microbiology

Establishment year – 1993

Separated in 2012

2.Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)

UG: B.Sc.

3.Interdisciplinary courses and department involved – Nil**4.Annual/semester/choice based credit system.**

Annual system

5.Participation of the department in the courses offered by other departments – Nil**6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)**

	Sanctioned	Filled
Professor	Nil	-
Promoted professors	-	-
Assistant professors	02	02

7. 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 in the last 4 years
Dr. Sadhana Jaiswal	M.Sc., Ph.D., SET	Assistant Professor	Microbiology	07	Nil
Neetu Das	M.Sc., M.Phil.	Assistant Professor	Microbiology	05	Nil

8. Percentage of classes taken by temporary faculty-programme-wise information - Nil

9. Programme-wise Student Teacher Ratio :- 60:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)

	Filled
Lab technical	01
Lab Attendent	01
Peon	01

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST; DBT, ICSSR, etc.; total grant received – Nil

13. Research facility/centre with -Nil

- State recognition
- National recognition
- International recognition

14. Publications:

- Number of papers published in peer reviewed journals (national/international)

National – 03

International -01

- **Monographs - Nil**
- **Chapter(s) in Books - Nil**
- **Editing Books- Nil**
- **Books with ISBN numbers with details of publishers- Nil**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) - Nil**
- **Citation Index- range/ average - Nil**
- **SNIP- Nil**
- **SJR - Nil**
- **Impact factor – range/average- Nil**
- **H-index -Nil**

15. Details of patents and income generated – Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies

- Participation of faculties in the workshop organized by department of Botany Govt. N.P.G. College of Science Raipur.
- Orientation course completed by Mrs. Neetu Das at Pt. Ravishankar Shukla University Raipur
- Participation on Young Scientist Congress organized by the College.

18. Student projects- Nil

- **Percentage of students who have done in-house projects including inter-departmental**
- **Percentage of students doing projects in collaboration with industries/institutes**

19. Awards/recognitions received at the national and international level by- Nil

- Faculty
- Doctoral/post doctoral fellows
- Students

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any. - Nil

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.	34	21	13	43%	46%

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc.	-	100%	0%	0%

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations? - Nil**24. Student progression – NA**

Student progression	Percentage against enrolled
UG to PG	
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 	
Entrepreneurs	

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	0%
From other universities within the State	50%
From other universities from other State	50%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. - Nil

27. Present details about infrastructural facilities

- | | |
|---|-----------------|
| a) Library – | College Library |
| b) Internet facilities for staff and students – | Not available |
| c) Total number of class rooms - | 01 |
| d) Class rooms with ICT facility – | Nil |
| e) Students laboratories | 01 |
| f) Research laboratories- | Nil |

28. Number of students of the department getting financial assistance from College.-

All ST/SC students get scholarship from the college

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology. - NA

30. Does the department obtain feedback from

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

The Department obtain feedback from faculty on curriculum as well as teaching learning by organizing meeting of board of study once in a year and the suggestion of faculty is utilized into alteration on curriculum, Examination scheme and other activities.

- b) Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

Since the Microbiology was runs under the Botany so feedback from students has been taken by department of Botany and duly registered.

- c) Alumni and employers on the programmes and what is the response of the department of the same?

The alumni share their experiences in board of studies meeting and this gives us an insight as to how the syllabus has been upgraded.

31. List the distinguished alumni of the department (maximum 10)

- Jayanti Neerja- Assistant professor Biochemistry JLN Medical College, Raipur
- N. Neha Swami – Ex. Guest faculty Govt. N.P.G. college of Science, Raipur
- Pervez Ahmad Khan- Research assistant Pt. Ravishankar Shukla University, Raipur
- Mrs. Pallavi Sahastrabuddhe – Michigan University, USA

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

- i. Visit to Devleela Biotech lab Raipur
- ii. Training programme on molecular technique organized by department.

33. List the teaching methods adopted by the faculty for different programmes.

List of teaching methods

- LCD Presentation
- Black Board teaching
- Net assessment
- Class test
- Class interaction
- OHP teaching

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Unit test
- Half yearly
- Quarterly exam

35. Highlight the participation of students and faculty in extension activities.

- NCC
- NSS

36. Give details of “beyond syllabus scholarly activities” of the department.

- Participation in various Inter-collegiate competitions by our students.
- Paper presentation by faculties.
- Participation of faculties in various seminars and workshops.

37. State whether the programme/department is accredited/graded by other agencies. Give details. – Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Availability of well qualified and competent faculties.
- Command on curriculum and completion of syllabus within the time schedule.

- Lab facilities available.
- Good coordination among faculties and students.
- Students with high percentage are attracted to join the course.

Weaknesses

- P.G. course not available
- Unavailability of Research lab facilities
- Inadequate teacher-student ratio.
- Inadequate no. of class rooms and lab.
- Unavailability of departmental library & internet.

Opportunities

- Students have good opportunities for jobs in Pharmaceutical and Clinical labs.
- Students have opportunities in various research and development centre.

39. Future plans of the department.

- Open PG classes
- Register as a research centre
- Make projects.
- Open departmental library.

EVALUATIVE REPORT OF THE DEPARTMENT (MATHEMATICS)

1. Name of the Department & its year of establishment –

“DEPARTMENT OF MATHEMATICS”

Years of establishment- UG- 1948 PG-1948

2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)

UG : B.Sc.

PG : M.Sc.

Ph.D.: Recognized Research Center affiliated to Pt. R.S.U. Raipur

3. Interdisciplinary courses and department involved - NIL

4. Annual/semester/choice based credit system.

UG- Annual System is adopted

PG- Semester System is adopted

5. Participation of the department in the courses offered by other departments –
NIL

**6. Number of teaching posts sanctioned and filled
(Professors/Promoted Professors/Asst. Professors)**

	Sanctioned	Filled
Professor	01	NIL
Promoted professors	-	01
Asst. professors	07	06

**7. 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 in the last 4 years
Dr. S. K. Bhatt	M.Sc., Ph.D.	Promoted Professor	Spline Theory	30 years	NIL
Prof. R. A. Siddiqui	M.Sc.	Asstt. Professor		20 years	NIL
Dr. Varsha Karanjaokar	M.Sc., M.Phil, Ph.D.	Asstt. Professor	Furrier Analysis	23 years	NIL
Dr. M. S. Gupta	M.Sc., Ph.D., MCA	Asstt. Professor		20 years	NIL
Dr. G. S. Saluja	M.Sc. ,Ph.D.	Asstt. Professor	Topology	23 years	NIL
Dr. B.P. Tripathi	M.Sc., Ph.D., MCA	Asstt. Professor		20 years	NIL
Dr. Mahendra Prasad	M.Sc. ,Ph.D.	Asstt. Professor	Topology Theory of relativity	20 years	NIL

8. Percentage of classes taken by temporary faculty-programme-wise information

All Faculty Members are regular.

9. Programme-wise Student Teacher Ratio

UG- 100:1

PG-10-1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)

	Filled
Office assistant	
Lab technician	01
Lab Attendent	02
Peon	Nil

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received – NIL

13. Research facility/centre with

- State recognition- Yes
- National recognition- Yes

14. Publications:

- A. National
- B. International

- Number of papers published in peer reviewed journals (national/international)

S.N.	NAME	JOURNALS		
		NATIONAL	INTERNATIONAL	TOTAL
1.	Dr. S. K. Bhatt	02	01	03
2.	Prof. R. A. Siddiqui	01	NIL	01
3.	Dr. M. S. Gupta	05	NIL	05
4.	Dr. G. S. Saluja	18	64	82
5.	Dr. B.P. Tripathi	04	03	07

- Monographs - NIL
- Chapter(s) in Books- NIL
- Editing Books
- Books with ISBN numbers with details of publishers
 - i. Complex Analysis by Dr. Varsha Karanjgaokar
Publisher- Golden Vally Publication, AGRA
ISBN No 978-81-922921-7-5

- ii. Operation Research
 Publisher- Golden Vally Publication, AGRA
 ISBN No 978-81-922921-7-5

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)
- Citation Index- range/ average
- SNIP
- SJR
- Impact factor – range/average
- H-index

15. Details of patents and income generated –NIL

16. Areas of consultancy and income generated –NIL

17. Faculty recharging strategies

- I. Department organizes workshops
- II. Faculty members attend National & International workshops/Seminars.
- III. Faculty members visits the libraries of others universities Research institute.

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental -NIL**
- **Percentage of students doing projects in collaboration with industries/institutes- NIL**

19. Awards/recognitions received at the national and international level by

- Faculty- NIL
- Doctoral/post doctoral fellows- NIL
- Students – NIL

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

1. National Workshop organized on Oct2012

Title- “Application of Mathematics in different fields of Science”

Funding Agencies- i. UGC CRO Office Bhopal(M.P.)

ii. CG Cost

iii. College Janbhagidari Samiti

Outstanding Speakers- I. Dr. V. P. Saxena (Ex V.C. Jiwaji University MP)

II. Dr. Aparajita Ojha (Director IIITDM Jabalpur)

III. Dr. S. Nanda (IIT Kharagpur)

2. National Workshop organized on Sept 2013

Title- "Mathematical Modelling For Stochastic And Fuzzy Systems"

Funding Agencies- i. UGC (Under CPE Scheme)

ii. College Janbhagidari Samiti

Outstanding Speakers- I. Dr. V. P. Saxena (Ex V.C. Jiwaji University MP)

II. Dr. Sandeep Tiwari (Vikram University Ujjain)

III. Dr. M. K. Tripathi (NIT Raipur)

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	female	Male	female
B.Sc. I	700	300	100	40%	47%
B.Sc. II	300	200	100	66%	34%
B.Sc. III	200	150	50	75%	25%
M.Sc.(SEM I + SEM III)	80	20	10	66%	34%

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
UG	0%	90%	10%	NIL
PG	60%	30%	10%	NIL

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations?

- 1) Kavita Aage- Passed M.Sc. in 2009 and CG State PSC of College Asstt. Professor Exam and get posted in Govt. College as Asstt. Professor.
- 2) Mr. Govind Sahu & Niyati Gurudwan passed CG State PSC of College Asstt. Professor & get posted in Govt. College in CG as Asstt. Professor.
- 3) Sahadeo Padhey selected as Asstt. Professor & get posted in MNIT Allahabad as Asstt. Professor.
- 4) Ku. Kamakshi Tripathi is posted at SBI Raipur.

24. Student progression

Student progression	Percentage against enrolled
UG to PG	15%
PG to M.Phil.	8%
PG to Ph.D.	3%
Ph.D. to Post-Doctoral	NIL
Employed	
• Campus selection	15%
• Other than campus recruitment	25%
Entrepreneurs	

25. Diversity of staff

Percentage are of faculty who graduates	
Of the same parent university	15%
From other universities within the State	NIL
From other universities from other State	85%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

- NIL

27. Present details about infrastructural facilities

- Library** – Department PG Library available
- Internet facilities for staff and students** – Available for both
- Total number of class rooms** – 02 for PG Students
- Class rooms with ICT facility** - Yes
- Students laboratories** – 1 Computer Lab for PG Students
- Research laboratories** – Nil

28. Number of students of the department getting financial assistance from College.

All ST/SC Students gets books under book bank scheme, get scholarship and concession in college fees.

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology. – NIL

30. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation?** If yes, how does the department utilize it?

The Department obtain feedback from faculty on curriculum as well as teaching learning by organizing meeting of board of study once in a year and the suggestion of faculty is utilized into alteration on curriculum, Examination scheme, development of advancement programmes and other activities.

b) Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

There is a provision of taking feedback from the student regarding the teaching staff for improvement of teaching and reformulation of syllabus.

c) Alumni and employers on the programmes and what is the response of the department of the same?

Member of board of studies in the meeting suggest the modification of syllabus, introducing new papers & change of pattern of question papers etc.

31. List the distinguished alumni of the department (maximum 10)

1.	Dr.Sahadeo Padhay	Reader in MNIT Allahabad
2.	Mr. Govind Sahu	Asstt. Professor in Govt. College
3.	Ku. Niyati Gugudwan	Asstt. Professor in Govt. College
4.	Ku. Meenakshi Tripathi	Employ in SBI Raipur
5.	Kavita Aage	Asstt. Professor in Govt. College
6.	Dharmendra Sahu	Lecturer in Hr. Sec. School
7.	Dushyant Singh	Doing M.Phil
8.	Mankamna Prasad Mishra	CISCO System. Sr,Software
9.	Monoj Nag	HP Bangalore
10.	Lalit Singh	Posted in SBI Telibandha, Raipur

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

- 1) Special Lecturers by External Experts are being organized.
- 2) In 2012 workshop was organized.
- 3) In 2013 workshop was being organized in 6-7sep2013.
- 4) Students participated in workshop/seminar organized by other colleges of same state.

33. List the teaching methods adopted by the faculty for different programmes.

- I. Black-board, Chalk
- II. By LCD Projector

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Unit test, Quarterly exam & half yearly exam are conducted.

35. Highlight the participation of students and faculty in extension activities.

Some of the students participate in NCC, NSS, Sports, General Knowledge Competition & some other activities.

36. Give details of “beyond syllabus scholarly activities” of the department – NIL

37. State whether the programme/department is accredited/graded by other agencies. Give details. – NIL

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:-

- Faculty is well qualified and experienced.
- Internet facility is available for students as well as faculty.
- A rich and well established separate library for PG students.
- Publication of Research Papers by the department is rich.
- The teacher as well as the students of the department have been facilitated the T.V. to listen the national & regional academic programmes.

Weaknesses:-

- Department has no major/minor Researcher Project.
- All the members of the department are not research guide.

Opportunities and Challenges:-

- All members should be research guide.
- Every member of the department must have one Minor Research Project.
- Maximum no. of PG Student should qualify NET Exam.

39. Future plans of the department.

In near future department is planning to start a coaching for NET examination & Competitive examination

EVALUATIVE REPORT OF THE DEPARTMENT (PHYSICS)

1. Name of the Department and its year of establishment : Physics

Establishment Year: - UG (1948)

PG (1956)

2. Names of Programmes/Courses :

UG- B.Sc.,

PG –M.Sc.,

Ph.D.

3. Interdisciplinary courses and department involved – Nil

4. Annual/Semester/ choice based credit system –

UG – Annual

PG – Semester

5. Participation of the department in the course offered by other department – Nil

6. Number of teaching posts sanctioned and filled (Professors/ Promoted Professors/Asst. Professors)

Post	Sanctioned	Filled
Professor	01	Nil
Promoted Professors	-	01
Assistant Professors	08	06

Note: 02 Guest Lecturers are working against the sanctioned post of Assistant Professors.

7. Faculty profile with name, qualification , designation Specialisation (D.Sc./D.Litt./Ph.D./M.Phil.etc.)

Name	Qualification	Designation	Speciali zation	No. of Years of Experien ce	No. of Ph.D. students guided in the last 4 years
Dr. A.K. Jaiswal	M.Sc., Ph.D	Promoted Professor	Ph.D.	35	Nil

		and Head			
Shri A.C. Biyani	M.Sc.	Asst. Professor		37	Nil
Dr. P.K. Dewangan	M.Sc., M.Phil, Ph.D.	Asst. Professor	Ph.D.	20	Nil
Dr. S. Thaker	M.Sc., Ph.D. DCA	Asst. Professor	Ph.D.	20	Nil
Dr. B.G. Sharma	M.Sc. M.Phil, Ph.D.	Asst. Professor	Ph.D.	20	Nil
Shri Sanjay Dubey	M.Sc.,	Asst. Professor		20	
Shri Alok Luka	M.Sc.	Asst. Professor		16	

8. Percentage of classes taken by temporary faculty –

U.G. – 20%

P.G. – 20%

9. Programme-wise student Teacher Ratio –

U.G. - 60/1

P.G. - 4/1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

- Technician- 02
- Administrative staff- Nil
- Lab Attendant – 03
- Fourth Class – 02
- Helper – **01**

11. Number of faculty with ongoing projects from (a) National (b) International funding agencies and (c) Total grants received . – Nil

12. Departmental projects funded by DST-FIST, DBT, ICSSR, etc. total grants received – Nil

13. Research facility/centre with

- state recognition – Yes

14. Publications

- Number of papers published in peer reviewed journals (national/international)- 50
- Monographs – Nil
- Chapters in book – Nil
- Editing Books – Nil
- Books with ISBN numbers with details of publishers – Nil
- Number listed in International Database (for e.g. Web of Science, Scopus, Humanities International complete, Dare Database- International Social Science Directory, EBSCO host, etc.) – Nil
- Citation Index – range /average
- SNIP
- SJR
- Impact factor – range / average
- h-index

15. Details of patents and income generated – Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies – Discussions and Information's

18. Students Projects

- Percentage of students who have done in house projects including inter-departmental – Nil
- Percentage of students doing projects in collaboration with industries/ institutes – Nil

19. Awards/ recognitions received at the national and international level by

- Faculty – Nil
- Doctoral/post doctoral fellows- Nil
- Students – Nil

20. Seminars/ Conferences/ workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

National Conference- National conference on advances in physics- 2011

Source – CGCOST and UGC (3 days)

Participants:-

- Prof. S.K.Pandey, VC, RSU, Raipur
- Prof. B.P.Chandra, Raipur

- Prof. D.P.Bisen, RSU, Raipur
- Prof. R.N. Baghel, RSU, Raipur
- Dr.S.K. Nema, PRL, Ahmedabad
- Dr. B.K. Sahu, SG, DRDO, Bahrampur
- Dr. B.K. Sinha, Model Science College, Jabalpur

21. Student profile course wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc. Part-I	1000	459		40%	
B.Sc. Part-II	298	298		60%	
B.Sc. Part-III	157	157		85%	
M.Sc.	125	40		95%	

22. Diversity of students –

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other states	% of students from other countries
B.Sc.	0%	98%	02%	Nil
M.Sc.	50%	50%	Nil	Nil

23. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations?

04

24. Student progression

Student progression	Percentage against enrolled
UG to PG	50%
PG to M.Phil	Nil
PG to Ph.D	1%
Employed	
• Campus selection	05%
• Other than campus recruitment	20%
Entrepreneurs	Nil

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	05
from other university within the state	
from other university from other states	02

- 26. Number of faculty who were awarded Ph.D. , D.Sc. and D.Litt. during the assessment period**
Ph.D. – 02
- 27. Present details about infrastructural facilities**
- a) Library – Yes – 1500 Books
 - b) Internet facilities for staff and students – Yes
 - c) Total number of class rooms – 10
 - d) Class rooms with ICT facility – 04
 - e) Students laboratories – 06
 - f) Research laboratories – 02
- 28. Number of students of the department getting financial assistance from college-**
- 29. Was any need assessment exercise undertaken before the development of new program(s) ? If so, give the methodology. – Nil**
- 30. Does the department obtain feedback from**
- a. Faculty on curriculum as well as teaching-learning –evaluation? If yes, how does the department utilize it? – Yes
 - b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? –No
 - c. Alumni and employers on the programmes and what is the response of the department to the same? – No
- 31. List the distinguished alumni of the department (maximum 10) – 10**
- 1. Prof.B.P.Chandra,V.C.to Pt.R.S. University, Raipur
 - 2. Prof.H.V. Tiwari V.C.to Barkatullah University, Raipur
 - 3. Prof. S.K. Pandey, V.C. to Pt.R.S. University, Raipur
 - 4. Mr. Sarzium Minz, IAS, ACS to C.G.Govt.,Raipur
 - 5. Dr. Durga Prasad Dewangan, Deputy Director, PRL, Ahmadabad
 - 6. Mr. R.C.Patel, IPS, IGP, C.G., Govt. Raipur
 - 7. MR. Deepak Dave, IRS,
 - 8. Dr.G.D.Sao, AD to Higher Education Deptt, Govt. of M.P. Bhopal
 - 9. Mr.Chandra Sekhar Sahu, Minister of Agriculture, C.G. Govt.Raipur
- 32. Give details of student enrichment programmes (special lectures/ workshops/seminar) with external experts.**
special lectures series 2011 by UGC grant
- 33. List of teaching methods adopted by the faculty for different programmes –**
- Black board,
 - Transparency,

- Modern technology as computer LCD Projector and
- Internet

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Continuously getting feedbacks from faculty and students and monitoring results.

35. Highlight the participation of students and faculty in extension activities.

36. Give details of " beyond syllabus scholarly activities" of the department

- ✓ Participation in various Inter-collegiate competitions by our students.
- ✓ Paper presentation by faculty at state, national and international level.
- ✓ Faculty participation in various seminars and workshop.

37. State whether the programme/department is accredited/graded by other agencies. Give details. Running since in 2011.

38. Detail any five strengths, weaknesses, opportunities and challenges (SWOC) of the department

Strength

- Well qualified teaching staff
- Well established lab
- Well academic atmosphere
- Internet facilities for students in college hours.
- Research centre for Physics.

Weakness

- Lack of proper research infrastructure and instruments.
- Non availability of well qualified Lab Staff.

Opportunities

- Department has good library with very rare books, good reference books and research journals.
- Department has well established lab with internet facility.

Challenges

- One seminar Hall is very essential for department.

- Student Teacher ratio is too high for UG classes
 - Department is facing lack of teaching and non teaching staff.
 - The majority of student comes from very remote area and villages.
 - To compete with current research activities at national & International level
- However, the department is continuing to serve for betterment of the students.

39. Future plans of the department- To develop facilities for faculty and students

EVALUATIVE REPORT OF THE DEPARTMENT (ZOOLOGY)

- 1. Name of the Department & its year of establishment : Zoology**
 Establishment year – UG-1948
 PG - 1956
- 2. Name of Programmes/Courses offered (UG, PG, M. Phil., Integrated Masters; Integrated Ph.D., etc)**
 UG- B.Sc.
 PG- M.Sc.
 Ph.D.
- 3. Interdisciplinary courses and department involved – Nil**
- 4. Annual/semester/choice based credit system.**
 UG- Annual
 PG- Semester
- 5. Participation of the department in the courses offered by other departments - Nil**
- 6. Number of teaching posts sanctioned and filled (Professors/Promoted Professors/Asst. Professors)**

	Sanctioned	Filled
Professor	01	Nil
Promoted Professor	-	02
Asst. Professor	08	05

7. 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 in the last 4 years
Dr. Seema Gupta	M.Sc., Ph.D.	Professor	Ichthyology	29 yrs	01
Dr.Renu Maheshwari	M.Sc., Ph.D.	Professor	Ichthyology	27yrs	Nil
Shri M.S. Rawani	M.Sc.	Asst. Professor	Ichthyology	30yrs	Nil
Dr. Preeti Mishra	M.Sc., Ph.D.	Asst. Professor	Cytogenetics	28 yrs	Nil
Smt. Indu Mandrik	M.Sc.	Asst. Professor	Ichthyology	27 yrs	Nil
Shri A.K. Pandey	M.Sc.	Asst. Professor	Immunology	20 yrs	Nil
Dr. K. Das	M.Sc.. M.Phil., Ph.D.	Asst. Professor	Biotechnology	23 yrs	Nil

8. Percentage of classes taken by temporary faculty-prograamme-wise information

–Nil

9. Programme-wise Student Teacher Ratio

UG- 76:1

PG- 6:1

10. Number of academic support staff (technical and administrative staff: sanctioned and filled)

Administrative Nil

Technical Class III- 02

Class IV-04

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grant received. Mention names of funding agencies and grants received project-wise. – Nil

12. Department projects funded by DST-FIST;DBT, ICSSR, etc.; total grant received –Nil

13. Research facility/centre with

- State recognition - Yes
- National recognition- Yes
- International recognition

14. Publications:

- **Number of papers published in peer reviewed journals (national/international)**

Name of faculty	Publication		Total papers	Edited books with ISBN no.& publisher
	International	National		
Dr. Seema Gupta	2	04	06	
Dr.R. Maheshwari	01	01	02	
Dr. Preeti Mishra	02	02	04	
Shri Ashok Pandey	02	01	03	01
Dr. Kavita Das	01	Nil	01	01 Navbodh Publisher

- **Monographs** -Nil
- **Chapter(s) in Books**-Nil
- **Editing Books** - 01
- **Books with ISBN numbers with details of publishers**-Nil
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)** -Nil
- **Citation Index- range/ average**-Nil
- **SNIP**-Nil
- **SJR** -Nil
- **Impact factor – range/average** -Nil
- **H-index** -Nil

15. Details of patents and income generated –Nil**16. Areas of consultancy and income generated – Nil****17. Faculty recharging strategies**

Faculty is encouraged to participate in Conferences, Seminar, Symposium and workshops. Young faculty members are motivated to participate in Orientation and Refresher courses run by Academic Staff Colleges to abreast themselves to the latest development of subject and technology. In last four years 90% of the faculty has participated in Conferences and presented research papers. One faculty participated in Refresher course. They also attended workshops on recent techniques and rejuvenate their knowledge.

Conferences/ workshop attended during 5 years by the faculty

SN	Name of faculty	Conference	Invited talk in conf.	workshop
1.	Dr. Seema Gupta	19	Nil	03
2.	Dr.Rrenu Maheshwari	13	01	03
3.	Dr. Preeti Mishra	19	Nil	05
4.	Mrs. I. Mandrik	07	Nil	03
5.	Shri Ashok Pandey	02	01	05
6.	Dr. Kavita Das	21	Nil	07

18. Student projects

- **Percentage of students who have done in-house projects including inter-departmental - Nil**
- **Percentage of students doing projects in collaboration with industries/institutes - Nil**

19. Awards/recognitions received at the national and international level by

- Faculty
- Doctoral/post doctoral fellows
- Students

Faculty

A.K Pandey- Life membership of Immunological society of India

Doctoral/ post doctoral fellow-

One doctoral fellow Rachana Jurry received Rajiv Gandhi national fellowship.

Rachana Jurry received best poster award National conference Department of Zoology, Bhilai Mahila Mahavidyalaya, Bhilai

20. Seminars/conferences/workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

Workshop on Molecular Biology-April 2010.

National Workshop on Basic Immunological techniques 19-21 March 2012 funded by UGC-CPE and College Janbhagidari Samiti.

Outstanding participants- Padamshri Dr. A.T. Dabke (vice chancellor of Ayush Vishwavidyalaya), Dr. A.K. Pati (Professor Pt. Ravishankar Shukla University, Raipur), Dr. A.K. Gupta (Professor Pt. Ravishankar Shukla University, Raipur), Dr. Sahu (Mats University, Raipur)

21. Student profile course-wise

Name of the Course (refer question no. 2)	Application received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.	625	189	161	35%	46%
M.Sc.	50	07	15	100%	86.67%
Ph.D	01	01	-		-

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc. Bio	NIL	NIL	NIL	NIL
M.Sc.	66%	28%	6%	0%
Ph.D	33%	67%	0%	0%

23. How many students have cleared Civil Services, Defense Service, NET, SLET, GATE and any other competitive examinations? – NIL

24. Student progression

Several students passed in past years have occupied prominent positions in academic field. Many students have joined research in other institutions. Some pass out students are Assistant Professor in government & private Colleges and universities. Some students have moved to administrative jobs. The department guides the students in informal manner to take up jobs suiting to their aptitude and interests.

Student progression	% against enrolled
UG to PG	7%
PG to M.Phil.	0%
PG to Ph.D.	5%
Ph.D. to Post doctoral	NA
Employed	
Campus selection	Nil
Other than campus recruitment	Nil
Entrepreneurs	---

25. Diversity of staff

% of faculty who are graduates	
Of the same parent University	86%
From other University within state	0%
From other university from other state	14%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

One faculty awarded Ph.D. during the assessment period

27. Present details about infrastructural facilities

- a) **Library** – 3120 texts and reference books of foreign and Indian author
- b) **Internet facilities for staff and students** – Nil
- c) **Total number of class rooms** - 02 class room cum lab for PG
- d) **Class rooms with ICT facility** – Nil
- e) **Students laboratories** 01- UG
- f) **Research laboratories-** 01

28. Number of students of the department getting financial assistance from College.

Post-metric scholarship given to 07 PG Students

29. Was any need assessment exercise undertaken before the development of new program(s)? if so, give the methodology. - Nil**30. Does the department obtain feedback from**

- a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**
- b) **Students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?**
- c) **Alumni and employers on the programmes and what is the response of the department of the same?**

Curriculum changes are incorporated through Board of Studies, All the faculty members of the department along with the three member outside the department are the members of Board of Studies. Their suggestions help in improving teaching-learning procedures. One member of Board of studies is nominated from corporate sector and one from student alumini. Their suggestions also incorporate in the syllabus. In spite of this student feedback on curriculum and teaching-learning evaluation also taken time to time by IQAC and discuss in the meeting. Teacher-parent meeting is organized every year to exchange views on

the curriculum based activities, expectation of the parents, the teachers and the students.

31. List the distinguished alumni of the department (maximum 10)

1. Prof. S.R. Gupta (Rtd. Professor & Head, Deptt Of Zoology, Govt Science College, Raipur)
2. Dr. Arti Paragniha-Associate Professor S.o.S. in Life Sciences Pandit Ravishankar Shukla University, Raipur
3. Dr. Shashi Gupta- Assitant Professor Govt. College Mahasumund
4. Mr. Santosh Dewangan- Collecto, Bastar region
5. Dr. K.K. Harris- Asst. Professor, Govt. D.B. Girls College, Raipur
6. Shri R. Jhangde –Assit. Conservator of Forest
7. Shri Asit Mishra- Assistant Professor Govt. College, Kawardha
8. Dr. Z. Khatun- Rtd. Professor Govt. Science college, Raipur
9. Mr. Anil Dubey- Advocate Raipur
10. Dr. N. Ghosh -Rtd. Professor and Head Govt. Science College, Durg.

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

Lectures of distinguished speakers from the University or Colleges are organized regularly under the Zoological society. PG and Research students also attend conference/workshop organized by the department and other department of our college or other University time to time. Beside this special lecture series are arranged in the department in which eminent scientist from state or outside state invited for giving valuable information on the topic closely related to their syllabus. Some of the eminent speaker during this assessment period was Dr. O.P. Agrawal, Ex. Vice Chancellor of Jiwaji University, Gwalior delivered a talk on the importance of spirulina and its industrial approach. One scientist, Prof Kristena from Poland delivered a lecture on Pineal and discuss with PG students. Dr. P. Nath from Santiniketan University, West Bengal also delivered talks on fish reproductive Biology, Dr. A.K. Pati, Professor in School of life Sciences, Pandit RaviShankar Shukla University, Raipur delivered talks on various topics on Biostatistics.

33. List the teaching methods adopted by the faculty for different programmes.

Conventional and modern teaching methods are used to teach UG and PG students. Faculty uses over head projector, LCD and power point presentations to teach the students. The faculty uses internet and various search engines to update their knowledge and collect latest information in the subject to be passed on to the students. They also used charts and models for teaching purposes.

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Students' learning is continuously monitored by taking class test, unit test and seminar and discussion. For UG classes it is monitored by taking 3rd monthly examination and six monthly examinations also.

35. Highlight the participation of students and faculty in extension activities.

Students did various activities under campaign for social work. Students along with faculty went to remote village area where they aware the villagers and the school students with the current environmental problems such as the hazardous effect of plastic and plastic bags, control of water pollution, conservation of drinking water, importance of cleanliness, preparation and uses of vermi-composting and avoidance of the use of chemical fertilizers etc. They also aware the people with some social problems such as child hood marriage, and side effect of taking alcohol, and other stimulant etc. Students and faculty planted number of medicinal, flowering and fruiting plants in rural areas. They also participated in the Social work organized by NSS, Red Cross Society of the college. Every faculty of the department planted trees in college campus.

36. Give details of “beyond syllabus scholarly activities” of the department.

Faculty members are often invited to deliver lecture or presentation in conferences and workshop organized by other college and university. Most of the faculties are the life member of various national society viz. National Society of Ethology, National Society of Chronobiology, National Society of Endocrinology, National Society of immunology etc. They attended number of conferences and workshops. They encourage students by giving merit awards to meritorious students.

Students went to other college, various laboratories to see and understand the working of various sophisticated instruments that are not present in the department. They visit to fish culture farm for studying number of practical aspect of fresh water fish and prawn culture. PG Students participated in the science quiz, debate on scientific problems under the programs of Zoological Society. They also participated in science exhibition by preparing charts and models on the topics provided. Lectures of outside experts were also arranged on those topics that are very useful for them but beyond their syllabus.

37. State whether the programme/department is accredited/graded by other agencies. Give details. - NA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- Effective teaching by skilled and dedicated teachers. The faculty is well qualified & committed.
- Command on curriculum and completion of syllabus within scheduled time.
- Excellent coordination between staff members of the department.
- Teaching and examination scheduled are planned in advance.
- Dedicated non teaching staff.
- The department has a good animal Museum and Osteology set up which are the oldest and biggest in the state.

Weakness

- Imbalance teacher student ratio
- Inadequate number of labs
- Less number of technical staff

Opportunities

- Department has state level excellent museum
- Department has good library with very rare books, good reference book
- It has learned professor in the different field of animal science.
- Department is recognized as the research centre by the University and student get opportunity to do research

Challenges

- The Department is facing problems of inadequate class-rooms research lab & PG lab.
- The department is facing lack of teaching staff and nonteaching staff.
- The majority of students comes from very remote area and villages. However, the department is working hard to achieve good result.

39. Future plans of the department.

The department envisages establishing as an excellent centre for higher education in the domain of animal science in the state of Chhattisgarh and nearby region. The department plans to develop more research facility. It is also planned to develop a central computer laboratory in the department with internet facility. Department also try for up grading of existing lab and infrastructural facilities for enhancing the quality of education. The department is also planning to organize an international conference or seminar or workshop in near future.

**Government Nagarjuna Post Graduate College of Science,
Raipur, Chhattisgarh**

The Steering Committee

Dr K N Bapat	Principal
Dr Shipra Verma	Coordinator
Dr Rupinder Diwan	Member
Dr G S Saluja	Member
Dr Savita Singh	Member

Acknowledgement

The Steering Committee is very grateful to all the Heads of Departments, Faculty members and the Office Staff for their valuable support and contribution. The team is thankful to Mrs Nema Thakur for her consistent hard work at the computer.

Declaration by the Head of the Institution

I certify that the data included in this 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 the SSR during the Peer team visit.




Signature of the Head of the institution

Principal
Govt. College of Science
Raipur (Chhattisgarh)

Place: Raipur

Date: 25.11.2013


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Universities & Colleges

- Colleges Under Section 2(f) & 12(B)
- Autonomous Colleges
- Colleges With Potential for Excellence
- Academic Staff Colleges
- Institutes of National Importance
- Universities (UPE)
- Centres (CPEPA)
- Basic Scientific Research
- Visiting Committee Reports
- Central Universities
- State Universities List
- Deemed Universities
- Private Universities
- Fake Universities

Colleges under section 2 (f) & 12(B) of the UGC Act 1956

List of Colleges pending to include under Section 2(f)&12(B) of the UGC Act 1956 due to non completion of documents from the Colleges

The University Grants Commission (UGC) provides financial assistance to eligible colleges which are included under Section 2(f) and declared fit to receive central assistance (UGC grant) under Section 12 (B)** of UGC Act, 1956 as per approved pattern of assistance under various schemes. The number of colleges included under Section 2(f)&12(B) of UGC Act 1956 as on 31.3.2009 is 6014. Out of these, 5440 colleges have been declared eligible to receive central assistance, including UGC grants under Section 12(B)** of UGC Act 1956. Remaining 565 colleges are recognized under Section 2(f) of UGC Act 1956 but not yet declared fit for receiving central assistance as they do not fulfil the conditions laid down for such status.

* The UGC had notified Regulations for recognition of colleges under Section 2(f) of the UGC Act, 1956. The colleges are brought under the purview of UGC in terms of these Regulations as and when the proposals are received from the colleges for inclusion under Section 2(f) and they are found fit for inclusion as per the provisions contained in the Regulations.

** Apart from inclusion of colleges under Section 2(f), the UGC includes the Colleges under Section 12(B) of its Act in terms of Rules framed under the Act. This makes the colleges eligible for central assistance from the Government of India or any organization receiving funds from the Central Government.

20	Govt. Adarsh Science College Raipur, Distt., Raipur Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)
21	Govt. Agrasen College Bilha, Distt., Bilaspur Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)
22	Govt. Arts & Commerce College Kharsia, Distt., Raigarh Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)
23	Govt. Arts & Commerce College Bhilai - 3, Distt., Durg Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)
24	Govt. Arts & Commerce P.G. College Jarhabhata, Distt., Bilaspur Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)
25	Govt. Arts & Science College Durg, Distt., Durg Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)
26	Govt. Arts College Surajpur, Distt., Surguja Chhattisgarh Chhattisgarh	Under Section : 2(f)&12(B)



UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI - 110 002

F. No. 18-28/2010 (NS/PE)

The Under Secretary (FD-III),
University Grants Commission,
Bahadur Shah Zafar Marg,
New Delhi - 110 002.

March, 2013

30 MAR 2013

Sub:- Sanction of 2nd installment of grant to the Govt. Nagarjuna P.G. College of Science, Raipur - 492 010 (Chhattisgarh), under CPE Scheme (Plan).

Sir/ Madam,

I am directed to convey the sanction of the Commission for payment of Rs.60,00,000/- (Rupees Sixty lakhs only) to the Principal, Govt. Nagarjuna P.G. College of Science, Raipur - 492 010 (Chhattisgarh) as 2nd installment of grant under the CPE scheme for the Plan expenditure to be incurred during the year 2012-2013, as per the details given below:-

Allocation	Grants already sanctioned	Grant now being sanctioned	Total grant sanctioned so far
Capital Assets (Code-35)			
Rs.90,00,000/-	Rs.45,00,000/-	Rs.36,00,000/-	Rs.81,00,000/-
Grant-in-aid General (Code-31)			
Rs.60,00,000/-	Rs.30,00,000/-	Rs.24,00,000/-	Rs.54,00,000/-
Total	Rs.1,50,00,000/-	Rs.75,00,000/-	Rs.60,00,000/-
			Rs.1,35,00,000/-

The above allocation is as per the XI Plan guidelines of "Colleges with Potential for Excellence" (CPE) Scheme. It is also to inform you that grant may be utilized according to the approved budget heads maintaining the ratio as per XI Plan guidelines of CPE which is 60% for Non-Recurring grant and 40% for recurring grant of the total allocation. All the expenses incurred by the College over & above have to be met by the College from its own resources.

The sanctioned grant for your college as above has been further sub-divided as per the details given below:-

Amount sanctioned (Amount in Rs.)	For SC (15%) Code-1B(i)(h) (i) (b) (Amount in Rs.)	For ST (7.5%) Code-1B(i)(h) (ii) (b) (Amount in Rs.)	For General (77.5%) Code 3. (iii) (Amount in Rs.)
Code 35 : 36,00,000/-	5,40,000/-	2,70,000/-	27,90,000/-
Code 31 : 24,00,000/-	3,60,000/-	1,80,000/-	18,60,000/-
Total : 60,00,000/-	9,00,000/-	4,50,000/-	46,50,000/-

You may spend the amount accordingly and arrange to send the Statement of Expenditure and Utilization Certificate.

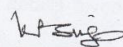
Contd... 2/-

11. The sanctioned amount is debitable to the **Major Head 3. (iii)** (code 35 & 31) and is valid for payment during the financial year 2012-2013 only.
12. The Grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University / Colleges/ Institution.
13. The College shall maintain proper accounts of the expenditure out of the Grants which shall be utilized only on approved items of expenditure.
14. The utilization certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.
15. The assets acquired wholly or substantially out of University Grants Commission's Grant shall not be disposed or encumbered or utilized for the purposes other than those for which the Grant was given, without proper sanction of the University Grants Commission and should, at any time the College ceased to function, such assets shall revert to the University Grants Commission.
16. A Register of Assets acquired wholly or substantially out of the Grant shall be maintained by the University / College in the prescribed form.
17. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned / paid. In case non-utilization/part utilization, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules; of Govt. of India will be charged.
18. The College shall follow strictly all the instructions issued by the Government of India from time to time with regard to reservation of posts for Scheduled Castes and Scheduled Tribes.
19. The College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (Use for Official purposes of the Union) Rules, 1978 etc.
20. The sanction issues in exercise of the delegation of powers vide Commission office Order No. 25/92 dated May 01, 1992.
11. The funds to the extent are available under the Scheme.

Contd....3/-

12. An amount of Rs.66,07,489/- (Rupees sixty six lakh seven thousand four hundred eighty nine only) out of the grant of Rs.75,00,000/- sanctioned vide letter No. F.18-28/2010 (NS/PE) 19th March, 2010 has been utilized by the College for the purpose for which it was sanctioned and noted in Grants-in-aid Register at page No. 26 Sl. No.43.
13. This issues with the approval of Chairman, UGC.
14. The terms and conditions of the grant will be as applicable during XI Plan for the Colleges.
15. The University/ Institution/ College shall strictly follow the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009.

Yours faithfully,


(Dr. K. P. Singh)
Joint Secretary

Copy forwarded for information and necessary action to :

1. The Principal, Govt. Nagarjuna P.G. College of Science, Raipur - 492 010 (Chhattisgarh)
2. The Registrar, Pt. Ravishankar Shukla University, Raipur-492 010 (Chhattisgarh).
3. The Commissioner (Higher Education) Chhattisgarh Govt. Secretariat Chhattisgarh.
4. The Office of the Director General of Audit Central Revenues, AGCR Building, I.P. Estate, New Delhi-110 002.
5. Guard File
6. Copy in Policy file

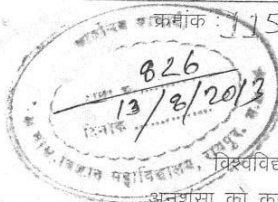
(Kiran Kaushik)
Section Officer



पं. रविशंकर शुक्ल विश्वविद्यालय रायपुर, (छ. ग.)

दूरभाष: 0771-2262802 (अकादमिक), 0771-2262540 (कुलसचिव), फैक्स-0771-2262818, 2262607

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पृ. क्रमांक : 11549/अका./सम्ब.वृद्धि/2013

रायपुर, दिनांक : 12/08/2013

॥ आदेश ॥

विश्वविद्यालय विद्या परिषद् की स्थायी समिति की बैठक, दिनांक 27.07.2013 में की गई अनुशंसा को कार्यपरिषद् की बैठक दिनांक 30.07.2013 में अनुमोदन प्रदान किया गया है, तदनुसार निम्नलिखित महाविद्यालय को दर्शित कक्षा/विषय के साथ शुल्क जमा करने के पश्चात् विश्वविद्यालय परिनियम 27 एवं 28 की शर्तों के अधीन सम्बद्धता सत्र 2012-13 एवं 2013-14 के लिए बढ़ाई जाती है।

क्र.	महाविद्यालय का नाम	कक्षा/विषय
1	शासकीय नागार्जुन विज्ञान स्नातकोत्तर महाविद्यालय, रायपुर principal.npgcsr@gmail.com mobile No.- 9425207117 Phone No.- 0771.2263131	Permanent Affiliation B.Sc. Hindi, English, Physics, Chemistry, Maths Botany, Zoology, Geo., Defense Study. M.Sc. Physics, Maths, Chemistry, Botany, Zoology, Geology. Non-Permanent Affiliation B.Sc. IT B.Sc. Biochemistry (24) B.Sc.-Biotechnology (60) B.Sc. -Computer Sc (30), Microbiology Add on Course 1. Environmental Impact Assessment (30) 2. Data Care Manage. (30) 3. Clinical Pathology (30) B.C.A.-(Seat-30) D.C.A. -(Seat-30) M.Sc. Defense Study. Vocational Course - 1. Indu. Microbiology 2. Indu. Chemistry. M.Sc. - Bio-Tech. PGDBM. (for session 2005-06) P.G.D.C.A.-(Seat-30)

आदेशानुसार,

उप कुलसचिव (अका.)

पृ. क्रमांक : 11550/अका./सम्ब.वृद्धि/2013

रायपुर, दिनांक : 12/08/2013

प्रतिलिपि :-

1. आयुक्त, उच्च शिक्षा संचालनालय, शास. विज्ञान महाविद्यालय परिसर, रायपुर।
2. प्राचार्य, सम्बन्धित महाविद्यालय को,
3. सहायक कुलसचिव (परीक्षा)/ उप कुलसचिव गोपनीय, नामांकन विभाग,
4. कुलपति के सचिव/ कुलसचिव के निजी सहायक, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

13/8/13

Principal

वरोध अधीक्षक (अका.)

Govt. Nagarjuna P. G. College of Science
RAIPUR (C. G.)

डॉ. देव स्वरूप
Dr. Dev Swarup

संयुक्त सचिव
Joint Secretary



दूरभाष PHONE कार्यालय OFF : 011-23231273

फैक्स FAX : 011-23231291

E-mail : dev@ugc.ac.in

विश्वविद्यालय अनुदान आयोग

बहादुर शाह ज़फर मार्ग,

नई दिल्ली-110 002 (भारत)

UNIVERSITY GRANTS COMMISSION

BAHADUR SHAH ZAFAR MARG

NEW DELHI-110 002 (INDIA)

BY SPEED POST

No.F.22-1/2007(AC)

December, 2007

The Registrar,
Pt. Ravi Shankar Shukla University,
Raipur

Sub:- **Extension of Autonomous Status to the colleges of Pt. Ravi Shankar Shukla University, Raipur.**

Sir,

This has reference to the recommendations of the University vide its letter No. Endt No. /287/06 dated 10-10-2006 and simultaneous concurrence given by the State Government vide its letter No.3529/2404/2006/38 dated 14-11-2006, as per the decision of the Commission taken at its meeting held on 23rd June 2006 revising the guidelines particularly for extension of autonomous status to existing autonomous colleges whereby "A Joint Expert Committee consisting of two representatives each from the affiliating university and the concerned State Government and three representatives from the UGC out of which, one shall be the Convener of the Committee to examine the proposal of the colleges for extension of autonomous status after completion of first and subsequent tenures of autonomy" I am pleased to inform that the Commission at its meeting held on 30-11-2007 considered the reports of Joint UGC Review Expert Committee. Based on the recommendation of the Joint Expert Review Committee, the Commission has accorded its ex-post facto approval and extension for continuation of Autonomous Status for the period mentioned against each as under:-

No.	Name of the College	Dates of visits	Autonomy valid upto	Period of ex-post -facto approval	Approval for further Extension and continuation of Autonomous status from the academic years
1.	Government College of Science, G.E. Road, Raipur-492010	10 th September, 2007	1992-1993	1993-2007	2007-2008 to 2012-2013
2	Government D.B. Girls P.G. College, Raipur-492001(C.G)	11 th September, 2007	1992-1993	1993-2007	2007-2008 to 2012-2013
3.	Kalyan Arts and Commerce College, Sector-7, Bhilai Nagar- 490006 (C.G)	12 th September, 2007	1992-1993	1993-2007	2007-2008 to 2012-2013

Contd. 2/-

Report of the Peer Team
on the Institutional Accreditation of the
Government College of Science (Autonomous)

Raipur - 492010 :Chhattisgarh

SECTION 1 : PREFACE

Government College of Science (Autonomous), Raipur was established in 1948. under the stewardship of Late Shri Uma Das Mukhrjee as an Intermediate Science College in a barrack known as CMH building. The mission statement of the institution is to update the quality of education in order to synchronise with changing academic scenario with the motto 'Yogaha Karmashu Kaushalam'. Initially, UG courses in science were started in 1951.

The institution was affiliated to Dr. Hari Singh Gaur University, Sagar from 1951 to 1963. It moved to its present structure in 1954. Since 1964 it is affiliated to Pt. Ravi Shankar Shukla University, Raipur. The UGC accorded its recognition under 2(f) and 12(B) in 1964. It is a Govt. funded college.

In response to the demand, PG programmes in Physics, Chemistry, Botany, Zoology, Mathematics and Geology were started in 1956. M.Tech. in Geology started in 1960 was later transferred to Govt. Engineering College, Raipur. All PG programmes in Arts : Hindi, Economics and History started in 1961 and PG in English were discontinued from 1975. Thus presently the institution is an exclusively single faculty : Science College. It attained the status of 'Model College' in 1984 and the 'Autonomous' status in 1987 conferred by the UGC. It has been designated as 'Lead College' of Raipur district.

The college is located in a campus area of 81.62 acres of land with a built-up area of 14756 sq.mt. accommodating 11 class rooms, 9 departments, 25 laboratories, Central Library, Computer Center, Botanical garden, museums in Zoology, Geology, Defence Studies and Botany, indoor courts, workshop, guest house, non-resident centre and other physical facilities. In addition to this, it has four hostels (3 for boys and 1 for girls), dispensary and staff quarters.

Govt. College of Science(Autonomous), Raipur

The college offers 12 different combinations at the UG level, PG programmes in 8 subjects, PG Diploma in 2 subjects; and 5 vocational courses at the UG level. M.Sc. (Bio-Technology) is offered under self-financing mode. Out of these courses, vocational courses in Computer science and Microbiology are run under self-financing mode. The college has research facilities in 7 subjects.

The institution has 73 permanent teachers supported by 6 on contract basis, a few guest faculty and a librarian. Of these 46 are Ph.D. and 3 are M.Phil. degree holders. 7 teachers are recognised as Ph.D. guides under whom 22 candidates have registered.

It has 104 non-teaching supporting staff including 29 administrative and 75 technical personnel.

The student enrolment strength is 1258 at UG level and 264 at PG, 03 at PG Diploma during the current academic year.

The institution has mobilised the resources to the tune of Rs. 8.82 lakh through self-financing courses in the year 2002-03.

The college authorities volunteered for institutional accreditation by the National Assessment and Accreditation Council (NAAC), Bangalore. The Self-study Report necessary for the purpose was submitted to the NAAC in September, 2003. The NAAC constituted the peer team comprising Dr.K.D.Vasava, former Vice Chancellor of Dr.B.A.Open University, Ahamedabad (Gujarat) as Chairman-Coordinator Dr.B.S.Srikanta, Principal, RBANMs First Grade College Bangalore (Karnataka) and Dr. M.V.Bharatha Lakshmi, Principal, PR Government College (Autonomous), Kakinada (Andhra Pradesh) as members.

The visit was excellently assisted by Shri B.S.Ponmudiraj, Asstt.Adviser, NAAC, Bangalore. The peer team visited the college during 27-29 February, 2004.

As a part of the pre-visit exercise the members of the peer team had carefully scrutinised the Self-study Report provided to them.

The team held meetings with the Principal, faculty members, supporting non-teaching staff and interacted with the parents, alumni and representative groups of the students. The team also visited the entire academic complex and other supporting physical facilities.

Government College of Science(Autonomous), Raipur

Based on the above exercise and detailed verification of the relevant documents, the peer team brings out the following criterion-wise observations and insights as useful pointers of the quality of the institution.

SECTION 2 CRITERION-WISE ANALYSIS

Criterion I: Curricular Aspects

The College provides UG and PG programmes in science subjects. It offers 12 different combinations at UG level (B.Sc.). At PG level (M.Sc.), courses are run in 8 subjects: Bio-Technology, Botany, Chemistry, Defence Studies, Geology, Mathematics, Physics and Zoology. M.Sc. (Bio-Technology) is offered on a self-financing basis. Research facilities leading to Ph.D. is provided in 7 Subjects: Botany, Chemistry, Defence Studies, Geology, Mathematics, Physics and Zoology.

Five vocational courses: Industrial Micro-Biology (IMB), Industrial Chemistry (IC), Computer Science (CS), Microbiology (MB) and Information Technology (IT) at the UG level and Bio-Technology (BT) at the PG level are also offered. Two PG Diploma Courses in English and Hindi are also run. Out of the five UG vocational courses, three (IMB, IC, and IT) are run under the UGC scheme and courses in MB and CS are under self-financing mode.

Presently, the model curriculum given by the UGC has been adopted in toto at the PG level. However, some of the departments have modified to an extent of about ten percent in accordance with the flexibility granted to an autonomous college. At the UG level, syllabi approved by the Central Board of Studies at the state level are followed.

It takes about one year to launch a new programme. 2 programmes : IT at UG level and BT at PG level have been introduced during the last two years.

Besides the Board of Studies (BOS) and the Academic Council of the institution, the university authorities review the academic programmes. Some of the senior faculty members serve on the BOS of the affiliating university and other institutions located in the area.

Govt. College of Science(Autonomous),Raipur

Practicals, field work and projects are important components of the curriculum. The academic programmes offered by the institution are in consistent with the mission statement of the college.

The autonomous status for the past 15 years has enabled the institution to start job-oriented courses in Industrial Chemistry, Information Technology, Computer Science, Bio-Technology, Microbiology, Industrial Microbiology PG Diploma in English and Hindi. Thus the autonomy of the college is realised in offering job-oriented programmes. The peer team felt that the college can further look into the aspect of framing its own syllabus keeping in view the needs of the industries in and around Raipur.

Criterion II : Teaching— Learning and Evaluation

Students are selected for admission to various programmes through their academic records strictly in accordance with the reservation policy of the State government. The institution adopts transparent procedure in admission.

The college has 285 working days out of which 170 are the teaching days as per the university academic calendar. The ratio of teaching staff to non-teaching staff is about out 7:10.

In addition to class room teaching, field trainings are also conducted in Geology, Botany, Zoology and Defence Studies. Submission of project reports is mandatory for students of vocational courses. Seminars are organized for PG level students as per the requirement. Modern teaching aids are used only for seminars. Most of the classes are engaged by permanent faculty. Effective mechanism for monitoring students' progress is absent at present. Bridge and remedial courses are not held. The peer committee recommends that these aspects have to be strongly addressed to.

The college follows the traditional annual written examination for evaluating the performance of the students both at the UG and PG levels. This system is in vogue for the

last 15 years. Door valuation is being followed. The entire procedure of preparation of results and issuing of marks sheets have been computerised.

Recruitment of teachers are made as per the provisions of the university and the State government. Almost 58 percent of the teaching staff are one step above the minimum prescribed qualification.

The college encourages teachers to attend conferences/seminars/workshops /refresher courses and orientation programmes from time to time to update their knowledge. In the last three years, 43 teachers have participated in 40 such programmes out of which 14 were resource persons.

Each department has been equipped with computers and a few PG departments are recently equipped with internet facility.

The college follows the self appraisal method to evaluate the performance of the teachers as per the provisions of the Commissionerate of Higher Education.

Three teachers have utilised the faculty development programmes and availed themselves of study leave during last three years. One teacher has been granted study leave by the State government to do research.

The college also encourages students to participate in cultural activities. Many students have participated in youth festivals and have brought laurels.

Criterion III: Research, Consultancy and Extension

The institution promotes research culture. Nearly 60 percent of the teachers hold Ph.D. degree and the college has the distinction of offering PG courses in eight subjects and Ph.D programmes in seven subjects. At present, there are 12 full time and 4 part time Ph.D students working under six research guides. Two teachers are pursuing post-doctoral studies. Many faculty members have several publications in national and international journals. The total number of papers published so far is about 300. Thirty percent of teachers are engaged in active research. At present, there are only three on-going research projects. A faculty member of the Physics department has obtained a research project with an outlay of Rs. 33 lakh from the Department of Science and Technology, New Delhi to

carry out research in Fibre Optics and Condensed Matter Physics. Another faculty member of Botany department has been sanctioned Rs. 1.39 lakh for a minor research project by the Chhattisgarh Council of Science and Technology to work on Nutrient Removal Potential of some Aquatic Plants from Domestic Waste Water. In the department of Geology, a research project on Gem Stone Mineralisation in Bastar Creton Quality Evaluation and possibilities of Gem enhancement with an outlay of Rs.2 lakh has been under taken by a staff member. This project has also been sanctioned by the Chhattisgarh Council of Science and Technology. Two teachers have received 'Young scientist' awards and are also members of several academic bodies. Consultancy services on payment basis are not allowed as per the conduct rules of the Government. However, these can be offered on honorary basis.

The college has NSS wing which carries out activities relating to spread of literacy, population education and primary health. The NSS unit adopts one village every year for its activities.

The college also has three NCC units in Air wing, Infantry and Signals. Blood Donation Camps are conducted in the college. Further, students and teachers are encouraged to participate in extension activity. The college also organises cultural activities for students.

Criterion IV: Infrastructure and Learning Resources

The college is located in a sprawling campus of 81 acres with adequate accommodation for administration, classrooms, laboratories, museums, library, sports and other student support facilities. The infrastructure is optimally utilised as it offers variety of programmes.

The infrastructure is maintained through funds from UGC and the State government. The college building is also utilized for conducting UPSC, State Public Service Commission Examinations, IIT entrance and other examinations.

The total number of books (both reference books and text books) available in the college is 58492 which is divided between the Central Library and the departmental libraries. This also includes 1838 belonging to book bank for students of economically weaker sections and 3603 for SC/ST. It subscribes to 131 national/international

journals/periodical/ magazines and 20 newspapers. The library has an Advisory Committee which monitors the functioning of the library and also give suggestions for improvement. Besides, the library has 88 educational CD/Video Cassettes. It also has reprographic and computer facilities. Computerization of the library is in progress. Internet facility is given only to staff.

Spacious and well equipped laboratories are provided. Museums in the departments of Botany, Geology, Zoology and Defence studies have good collections and are appreciated by the peer team. Though staff members are provided with internet facility, the same facility has not been extended so far to the students. The committee strongly feels that college should take immediate steps to provide internet facilities to the students.

There are only 32 computers in the college. Out of two computers centre in the college, one is maintained by the department of Physics and the other by the department of Mathematics. The committee feels that the college should have more number of computers.

The college has facilities for Shuttle Badminton, Table Tennis, Cricket, Foot ball, Hockey, Lawn Tennis, Basketball, Athletics, Net ball, Kho-Kho and Hand ball. Weightage is given to achievers in sports in admission to higher classes. Over 60 students have participated at different levels including 48 at regional level, 9 at state level and 3 at national level games. The college has also organized several inter-collegiate tournaments. It has a mini workshop relating to carpentry and electrical repairs. Two wheeler and four wheeler parking sheds are provided.

A complaints and suggestions box is installed in the college office in which the students can drop their complaints and suggestions which will be looked into by a committee. The college also has three boys hostel with capacity of 130 and a girls hostel. Maintenance of the hostels need to be improved.

There is need for augmenting modern teaching aids with LCD projectors, multimedia kits etc.

Criterion V: Student Support and progression

Admission is made as per the state government policy. The institution publishes an updated prospectus annually giving details of courses, combinations, fee structure, hostel facilities, admission and examination procedures, NCC, NSS etc. It also includes general discipline rules and details of scholarships available to the students. The college undertakes several welfare measures through different literary/cultural societies, department wise academic societies, Grievance Redressal Cell, Medical dispensary, Poor students' aid fund and Staff council. Scholarships awarded by the Central and State governments are made available to the students. The college can take steps to institute endowment prizes and special prizes with the help of local philanthropists, service organisations and alumni.

The drop out rate is about 6 percent. Overall pass percentage is about 68 which has to be improved.

The college is yet to evolve a mechanism for student feedback and academic audit.

The college undertakes only Career Counselling activities. It has no Placement Centre. Perhaps, the need of the hour is to establish a Placement Centre in the college. At present, the teachers do counselling at personal level in an informal way. But there is need for providing trained counsellors. A few staff members could be trained in counselling. Apart from personal counselling, academic counselling also has to be introduced. More number of seminars and workshops on career guidance, entrepreneurship development, communication skills and personality development must be organised. The peer team also notes that in 2002-03, about 12 students were absorbed by two industries including BALCO through campus interview.

The college has formed Alumni Association in 2003 which is yet to be formalised. Through interaction, the peer team came to know that many old students are occupying coveted positions. The college can try to involve alumni in the developmental activities of the college. Lectures by eminent past students could be organised.

Government College of Science(Autonomous), Raipur

Facilities for playing most of the indoor and outdoor games are available in the college. The college has cultural, fine arts and literary clubs to promote all round personality development of students. The team suggests that all steps required for holistic development of students be under taken by the college authorities.

Criterion VI : Organisation and Management

The college is an autonomous institution funded by the Government of Chattisgarh. It has Academic Council, Board of Studies, Finance Committee, and Examination Committee which function as per the norms laid down by the UGC. The Board of Studies reviews and updates the syllabus from time to time. Academic Council designs and approves the curriculum. 26 committees headed by senior faculty members function in the college. Staff members serve as members of the committees. Specific functions are assigned to various committees. Participative management is visible in the college.

Funds for the college are provided by the State government and UGC. Last year, the State government has provided a grant of Rs. 2.76 crores and UGC has given a grant of Rs.45.25 lakh. Janbhagidari contributed Rs. 6.2 lakh. The college has raised Rs. 1.8 lakh through fund raising drives and Rs 3.4 lakh through self-financing courses. Annual budgeting and auditing is carried out. The college can think of raising funds from alumni. As of now such system is non-existent.

The current tuition, library, laboratory, hostel and mess fee structure have been decided as per directives of the State government, where as fees for vocational and self-financing course are decided as per the decision of the Academic Council and approved by the Governing body of the Janbhagidari Samiti of the College. The Janbhagidari Samiti has been dissolved recently by an order of the State government.

The college maintains confidential reports/ performance appraisal reports of the staff as per the government norms. The reports are reviewed by Heads of the Departments, the Principal and the Director of Higher Education. The college should conduct training programmes for the administrative staff also.

Govt. College of Science(Autonomous),Raipur

Criterion VII : Healthy Practices

The Peer team has identified certain healthy practices that have enhanced the academic ambience in the institution.

- The college offers a unique programme in Defence Studies both at the UG and PG levels.
- Participative management is visible in the college through the constitution of 26 committees with a specific mandate for each.
- The institution has established linkages with (i) Department of Computer Science, Government Engineering College, Raipur for imparting on the job-training for IT students and (ii) two pharmaceutical firms to impart on the job training for Industrial Chemistry students.
- The college has strengthened its academic programmes through the introduction of vocational courses on self financing mode.
- The spirit of civic responsibility is inculcated among the students through NSS and NCC.
- The college undertakes several welfare measures like (i) Book bank facility for OBC, SC and ST students (ii) Poor students' aid fund (iii) Group Insurance for staff and students (iv) free medical facilities for staff and students.
- The college provides hostel facilities with a capacity of 130 boys.
- Since eleven years, the college has been bringing out annual collection of botanical essays written by the students which is released on National Science Day to commemorate the discovery of Raman Effect.
- Around 20 percent of the total number of students are given financial assistance by way of SC/ST/OBC scholarships and poor students' aid fund.
- The college has installed a bust of one of the martyrs who were alumni of the institution.
- The students are encouraged to collect rare specimens for museums in the departments of Geology, Botany, Zoology and Defence Studies.

Government College of Science(Autonomous), Raipur

SECTION III : Overall Analysis

Since its inception the college has made substantial progress in terms of infrastructure both academic and physical. The institution has been successful in accomplishing the defined mission statement as a responsible institution by imparting higher education in the region.

The team also appreciates the efforts of the college in promoting meaningful conducive atmosphere for teaching and learning. It has a potential to achieve greater heights.

The team has recorded its observations at appropriate criterion-wise assessment in the above section. It would like to enumerate commendations and recommendations for prospective improvement of the institution.

Commendations:

- Impressive infrastructure and physical facilities in terms of museums and spacious laboratories and a botanical garden to run educational programmes and administrative functions effectively.
- Making available sports facilities in cricket pitch and net ball court of national standard.
- Organizing national level Car and Motor rally by the sports officers of the institution is worth mentioning .
- Undertaking (i) DST research project with an out lay of Rs. 33 lakh for carrying out research in the field of Fibre Optics and Condensed Matter physics, (ii) Research project in the department of Botany for 'Nutrient Removal potential of some Aquatic plants from domestic Waste Water' with an outlay of Rs. 1.39 lakh sanctioned by Chattisgarh Council of Science and Technology, and(iii) Research project in the department of Geology on Gem Stone Mineralisation in Bastar Creton Quality Evaluation and possibilitis of Gem enhancement with at outlay of Rs. 2 lakh sanctioned by the Chattisgarh Council of Science and Technology.

Govt. College of Science(Autonomous),Raipur

Recommendations

The peer team recommends the following for further improvement of the institution.

- As a lead college, it can design modular curricula and introduce courses having multi-disciplinary approach.
- The institution may evolve a mechanism to (i) assess the performance of the students regularly and (ii) collect feed back from the students periodically.
- The temporal plan of the institution may be phase wise, changed to semester system.
- Efforts may be made to further strengthen the mechanism of internal quality check.
- Being an autonomous college, bodies like Academic Council and Board of studies may be further activated.
- Remedial coaching and bridge courses may be conducted for slow learners and challenging learning tasks may be given to advanced learners.
- Computerization of library and office administration may be made in a phased manner.
- Internet facility may be extended to students also.
- Hostel facility may be extended to provide accommodation to more number of girl students.
- Teachers may be encouraged to undertake minor research projects and also avail Faculty development programmes. They may also be encouraged to take up consultancy services on an honorary basis.
- Career guidance and placement activities may be professionalised.
- Alumni Association may be formalised through registration.
- Inter-library loan facility may be introduced.

The peer team thanks the principal, faculty members and supporting non-teaching staff for extending full co-operation to the team during its visit to the institution.

The team is also grateful to the NAAC for giving members this opportunity to visit the campus.

Name and signatures of the Peer Team Members.

1. Dr.K.D.Vasava (Chairman-Co-ordinator)

2. Dr.B.S.Srikanta (Member)

3. Dr.M.V.Bharatha Lakshmi (Member)

**Name and Signature of the
Head of the Institution.**

Govt. College of Science(Autonomous),Raipur



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्
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
Government College of Science (Autonomous)
Raipur, affiliated to Pandit Ravishankar Shukla University, Chattisgarh as
Accredited
at the B^{++} level.*

Date : May 03, 2004

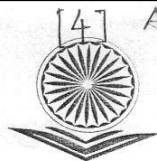


*Uravad
Director*

- This certification is valid for a period of Five years with effect from May 03, 2004
- An institutional score (%) in the range of 55-60 denotes C grade, 60-65 - C⁺ grade, 65-70 - C⁺⁺ grade, 70-75 - B grade, 75-80 - B⁺ grade, 80-85 - B⁺⁺ grade, 85-90 - A grade, 90-95 - A⁺ grade, 95-100 - A⁺⁺ grade (upper limits exclusive).

Ph. 23236351, 23232701, 23237721
23234116, 23235733, 23232317
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in



[4] ANNEXURE VII

विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002

UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

SPEED POST

F. No. 8-185/2004 (CPP-I/C) (Pt. - 3)

The Registrar,
Pt. Ravishankar Shukla University,
Raipur - 492 010,
Chhattisgarh.



September, 2010

8 OCT 2010

Sub: Change in the name of College under Section 2 (f) & 12 (B) of the UGC Act, 1956.

Sir,

With reference to the letter No. 441/2010 dated 03.07.2010 received from Principal, Govt. Nagarjuna P.G. College of Science, Raipur, (Chhattisgarh) on the above subject, I am directed to say that the change in the name of college has been made in the list of colleges maintained under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head 'Government Colleges teaching upto Master's Degree' as under: -

Name of College earlier included under Section 2 (f) & 12 (B)	Revised Name included in the list of Colleges under Section 2 (f) & 12 (B)	Year of Establishment
Govt. College of Science, Raipur, (Chhattisgarh).	Govt. Nagarjuna P.G. College of Science, Raipur, (Chhattisgarh).	1948

Yours faithfully,

(Uma Bali)
Under Secretary

Copy to: -

1. The Principal, Govt. Nagarjuna P.G. College of Science, Raipur, (Chhattisgarh).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhavan, New Delhi - 110 001.
3. The Commissioner cum Principal Secretary, Higher Education, D.K.S. Bhawan, Mantralaya, Room No.266, Raipur - 492 001, (Chhattisgarh).
4. Education Officer, UGC, Central Regional Office (CRO), Tawa Complex, Bittan Market, E-5, Arera Colony, Bhopal - 462 016, (Madhya Pradesh).
5. Publication Officer (UGC-Website), New Delhi.
6. Section Officer (FD-III Section), UGC, New Delhi
7. All Sections, U.G.C., New Delhi.
8. Guard file.

(Sunita Gulati)
Section Officer



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)



दूरभाष : 0771-2262802 (अकादमिक), 0771-2262540 (कुलसचिव), फ़ैक्स-0771-2262818, 2262607

क्र. 12260 / अका. / 20 18

रायपुर, दिनांक 07/10/2013

प्रति,

सचिव,
विश्वविद्यालय अनुदान आयोग,
बहादुरशाह जफर मार्ग,
नई दिल्ली- 110 002



विषय : शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर के स्वातत्ता की निरंतरता के संबंध में।

महोदय,

विषयान्तर्गत लेख है कि शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर स्वशासी महाविद्यालय के स्वातत्ता की निरंतरता 5 वर्ष के लिए वृद्धि किये जाने के संबंध में, गठित अनुविक्षण समिति (Review Committee) द्वारा प्रस्तुत प्रतिवेदन आपकी ओर आगामी कार्यवाही हेतु प्रेषित है।

संलग्न :- उपरोक्तानुसार।

आदेशानुसार,

कुलसचिव

पु. क्र. 12261 / अका. / 20 13

रायपुर, दिनांक 07/10/2013

प्रतिलिपि :

1. प्राचार्य, शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर को इस निर्देश के साथ कि यू.जी. सी. नई दिल्ली को स्वातत्ता की निरंतरता 5 वर्ष के लिए वृद्धि किये जाने हेतु आवेदन प्रस्तुत करें।
2. संचालक, महाविद्यालय विकास परिषद्,
3. कुलपति के सचिव/कुलसचिव के निजी सहायक, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।

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Handwritten signature and text: उप कुलसचिव (अका.)

