

Evaluative Report of the Department

1. Name of the Department - Dept. of Botany
2. Year of establishment – UG 1989
 1. PG - 2021
3. Is the Department part of a School/Faculty of the university? - NO
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)
 - i. UG- B.Sc. (Botany, Chemistry, Zoology)
 - ii. PG- M.Sc. Botany
5. Interdisciplinary programmes and departments involved
6. Courses in collaboration with other universities, industries, foreign institutions, etc. - Nil
7. Details of programmes discontinued, if any, with reasons- Nil
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System
 - i. UG- Annual
 - ii. PG- Semester
9. Participation of the department in the courses offered by other departments- Nil
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor			
Associate Professors			
Asst. Professors	01+ 01(self-financing)	01+ 01	01+ 01
Others			

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Mr. Kaushal Kishor Sharma	M.Sc. NET	Assistant Professor	Microbiology & Plant Pathology	UG -30 PG-2	Nil
Ku. Monika Sahu	M.Sc. , B. Ed.	Assistant Professor	Microbiology	UG-02 PG-02	Nil

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors- Nil

13. Percentage of classes taken by temporary faculty – programme-wise information-

- i- PG-50%
- ii- UG-40%

14. Programme-wise Student Teacher Ratio-

- i- UG -120:1
- ii- PG 19:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual-

	Sanctioned	Filled	Actual(including CAS&MPS)
Lab Technician	01	01	
Lab Attendant	01	Nil	Nil
Others		01 (Self financing)	01 (Self financing)

16. Research thrust areas as recognized by major funding agencies- Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.- Nil

18. Inter-institutional collaborative projects and associated grants received - Nil

- a. National collaboration
- b) International collaboration

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.- Nil

20. Research facility / centre with
state recognition- Nil
national recognition -Nil
international
recognition- Nil
21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil
22. Publications:- Nil
- * Number of papers published in peer reviewed journals (national /international)
 - * Monographs
 - * Chapters in Books
 - * Edited Books
 - * Books with ISBN with details of publishers
 - * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International SocialSciences Directory, EBSCO host, etc.)
 - * Citation Index – range / average
 - * SNIP
 - * SJR
 - * Impact Factor – range / average
 - * h-index
23. Details of patents and income generated- Nil
24. Areas of consultancy and income generated- Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad -No
26. Faculty serving in
- a. National committees – Central Board of study
 - b. b) International committees
 - c. c) Editorial Boards
 - d. d) anyother (please specify)
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)-No

28. Student projects

percentage of students who have done in-house projects including inter-departmental projects

- 93.33% (14 out of 15 students of M.Sc. Botany IV sem)
- 100% (all students of B.Sc. I year done project in environmental studies)

percentage of students doing projects in collaboration with other universities / industry / institute- Nil

29. Awards / recognitions received at the national and international level by

Faculty- No

Doctoral / post doctoral fellows

-Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

S. No	Conferences/Seminar/workshop organized	Duration	Source of funding	Details of out standing participants
1	National Seminar on Advanced Materials for Sustainable Industrial and Social Applications – NSAMSISA-2020	17 th -18 th Jan. 2020	Funded by local industrial establishments	Prof. KL Verma, Pt.RavishankarShukla University, Raipur, (CG) Prof. PK Bajpai, GGU, Bilaspur, (CG) Dr.TanmayaBadapanda, CV Raman Global University,Bhubaneswar, Odisha Prof. NameetaBrahme, Pt. Ravishankar Shukla University, Raipur, (CG) Dr.Sanjib Banerjee, Indian Institute of Technology, Bhilai (CG) Dr.AyushKhare, National Institute of Technology, Raipur (CG)

				<p>Dr. S K Rout, Birla Institute of technology, Mesra, Ranchi, India</p> <p>Dr.KallolGhosh, Pt. RavishankarShukla University, Raipur, (CG)</p> <p>Dr.KamleshShrivas, Pt. RavishankarShukla University, Raipur, (CG)</p> <p>Dr. Manmohan Satnami, Pt. RavishankarShukla University, Raipur, (CG)</p>
2.	World Environment Day 2021	5 th June 2021	Botany Department	<p>Dr. Vimal Kanungo, govt. Nagarjuna PG college of science Raipur C.G</p> <p>Dr. Vaibhav acharya govt. D.B girls PG college of science Raipur C.G</p>
3.	Energy ConservationDay -2022	14 th Dec. 2022	Chhattisgarh renewable energy development agency	Dr. Govind Prasad Sahu, PRSU, Raipur
4.	Workshop on Herbarium Techniques	17 th Feb. 2023	Botany department	Dr. L. B. Choudhary Ex chief Scientist N B R I (CSIR) Lucknow
5.	National Science Day-2023	27 th -28 th Feb. 2023	Chhattisgarh Council of Scienceand Technology	<p>Dr. Govind Prasad Sahu,PRSU, Raipur</p> <p>Prof. Anjali Oudhia, GNPG College Raipur</p>

31. Code of ethics for research followed by the departments -

The college has a structured research cell and it has a research policy and all the faculties are strictly bound to follow the policy. The research policy is uploaded on the website

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc. I (2022-23)	386	22	98	86.36%	91.66%
B.Sc. I (2021-22)	411	34	87	86.66%	98.91%
B.Sc. I (2020-21)	296	17	77	93.75%	97.36%
B.Sc. I (2019-20)	233	19	60	100%	100%
B.Sc. I (2018-19)	257	17	63	88.23%	96.77%
M.Sc. I (2021-22)	300	01	14	100%	100%
M.Sc. I (2022-23)	311	04	16	100%	100%

33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
UG	100%			
PG	94.73%	5.26%		

All the students at UG level are from State Board of Secondary Education

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise

Name of the Exams	Name of the Candidates
NET	
SET	
GATE	
Civil Services	
Defense Services	
CG TET (Teacher Eligibility test)/CTET (Central Eligibility test)	1. Monika Sahu 2. Rajeshwari Kannoje, 3. Kiran Panday, 4. Pooja Verma, 5. Devyani Tandan
State Civil Services	
Others	

35. Student progression-No

Student progression	Percent against enrolled				
	Y1 (18-19)	Y2 (19-20)	Y3 (20-21)	Y4 (21-22)	Y5 (22-23)
UG to PG	40	32	35	45	42
PG to M.Phil.					
PG to Ph.D.					
Ph.D. to Post-Doctoral					
Entrepreneurs					
Others (B.Ed.)(PGDCA) B. P. Ed.	25	20	18	30	35

Manual for Self-study Universities

S.N.	Name of the students	Employed in
1.	Monika Sahu	Guest faculty, Govt. Pt. Shayamacharan Shukla college Dharsiwa
2	Rajeshwari Kannoje,	Library Asst. Govt. Pt. Shayamacharan Shukla college Dharsiwa
3	Kiran Panday	Lab. Asst. faculty, Govt. Pt. Shayamacharan Shukla college Dharsiwa
4	Pooja Verma,	Science Teacher Ambition English Medium school Dharsiwa
5	Deeksha Gilhare	Postmaster post office Kunra Dharsiwa
6	Himanshu yadav	Police Constable
7	Neha verma	Science Teacher Universal public school Kunra
8	Janak Nisad	Assistant Manager Environmental - NECO
9	Ajay chakradhari	Chemist- GR Power Plant
10	Anil Verma	Chemist–Nikita Metal Orgical Siltara
11	Manish Sahu	CRO –GR group company
12	Sonu Manikpuri-	Chemist –Nakoda company
13	Hemant Verma	ANCO India Chemical private Limited Chennai
14	Rajeshwari	Teacher Ishwar Public School Dhaneli
15	Yogita	Primary School Khudmudi
16	Bhawana sahu	Teacher Ambition School, Dharsiwa
17	Sujata Sahu	Teacher Shishu Mandir, Kunra

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	50%
from other universities within the State	
from universities from other States from	50%
universities outside the country	

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period- Nil
38. Present details of departmental infrastructural facilities with regard to
- a. Library- 1350(UG+PG)
 - b. Internet facility for staff and student- Yes available with Wi-ficonnection
 - c. Total number of classrooms -04
 - d. Class rooms with ICT facility-03
 - e. Students' laboratories- 02
 - f. Research laboratories- Nil

39. List of doctoral, post-doctoral students and Research Associates- Nil
- a. from the host institution/university
 - b. from other institutions/universities
40. Number of post graduate students getting financial assistance from the university- Nil
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology -

The IQAC obtains feedback from the students and parents every year. In the feedback some of the students have suggested to start PG in Botany. Also, many students and parents suggested their opinion on starting M Sc. Botany in the parent's teachers meeting. On the basis of the feedback and also on the oral feedback received from the students and finally on the opinion given by the principal a proposal (under self-financing) has been submitted to the Commissioner, Department of higher education, Govt. of Chhattisgarh, Raipur. And after getting permission from the Commissioner, Department of higher education, Govt. of Chhattisgarh, Raipur M. Sc. in Botany has been started

42. Does the department obtain feedback from-
- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - c. alumni and employers on the programmes offered and how does the department utilize the feedback?

The department individually do not follow a system of obtaining feedback from the stakeholders (faculty, students, alumni and employers). However, IQAC of the college has developed a system of obtaining feedback from the stakeholders every year.

43. List the distinguished alumni of the department (maximum 10)

- I. Monika Sahu
- II. Rajeshwari Kannoje
- III. Kiran Panday
- IV. Bhavna Sahu
- V. Ranju Verma
- VI. Damini Sahu
- VII. Kiran Patel
- VIII. Janak Nishad
- IX. Rahul Dvivedi
- X. Nutan Verma

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Year	Name of the activity	Nature of activity	External experts
2018-19			
2019-20	National Seminar on Advanced Materials for Sustainable Industrial and Social Applications – NSAMSISA-2020	Seminar	<p>Prof. KL Verma, Pt. Ravishankar Shukla University, Raipur, (CG)</p> <p>Prof. PK Bajpai, GGU, Bilaspur, (CG)</p> <p>Dr. Tanmaya Badapanda, CV Raman Global University, Bhubaneswar, Odisha</p> <p>Prof. Nameeta Brahma, Pt. Ravishankar Shukla University, Raipur, (CG)</p> <p>Dr. Sanjib Banerjee, Indian Institute of Technology, Bhubaneswar (CG)</p> <p>Dr. Ayush Khare, National Institute of Technology, Raipur (CG)</p> <p>Dr. S K Rout, Birla Institute of Technology, Mesra, Ranchi, India</p> <p>Dr. Kallol Ghosh, Pt.</p>

			<p>RavishankarShukla University, Raipur, (CG)</p> <p>Dr.KamleshShrivras, Pt. RavishankarShukla University, Raipur, (CG)</p> <p>Dr. Manmohan Satnami, Pt. RavishankarShukla University, Raipur, (CG)</p>
2020-21	National Science Day-2021	Special lecture	<p>Dr. Kamal Pandey, Sri J N Mishra PG college (KKC), University of Lucknow</p>
2021-22	World Enviornment Day	Webinar	<p>Dr. Vimal Kanungo, govt. Nagarjuna PG college of science Raipur C.G</p> <p>Dr. Vaibhav acharya govt. D.B girls PG college of science Raipur C.G</p>
	Blood Group Testing	Workshop	<p>PG Students and staff Botany Department pt.Shyamacharan Shukla college Dharsiwa Raipur</p>
	National Science day-2022	Special lecture	<p>Dr. N K Chakradhari, PRSU, Raipur</p>
	Preparation Strategy for CSIR-NET	Special lecture	<p>Dr. TriptiRichhariya, KalingaUniversity, Raipur</p>
2022-23	Workshop on Harbarium Techniques	Workshop	<p>Dr. L. B. Choudhary Ex chief Scientist N B R I (CSIR) Lucknow</p>
	National Science day-2023	Special lecture	<p>Dr. Govind Prasad Sahu, PRSU, Raipur</p> <p>Prof. Anjali Oudhia, GNPG College Raipur</p>

45. List the teaching methods adopted by the faculty for different programmes.- Using Chalk and Talk

- Group discussions
- Oral questions
- Assignments
- Class tests, internal assessments
- Through powerpoint presentation
- Video lectures
- NPTEL lectures, e-contents
- Class room seminar presented by students
- Field visits, educational tours
- Projects and models
- Quiz competitions
- Laboratory sessions

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?-

47. Highlight the participation of students and faculty in extension activities –

- Head of the Department Mr. Kaushal Kishore Sharma and Dr. Bhargavi Visited Prakash Industries Birgaon and their they planted sapling sinthe campus.
 - Lecturer Ms. Monika Sahu , Lab Technician Mrs. Madhuri Tirki and student of M.Sc. Botany 4th sem. Visited to project work Bana Nursary.
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48. Give details of “beyond syllabus scholarly activities” of the department.

Year	Name of the activity	Nature of activity	External experts
2018-19			
2019-20	National seminar on “Advance Materials for Sustainable Industrial and Social Applications” NSAMSISA-2020	Seminar	Prof. K L Verma, Pt. RavishankarShukla University,Raipur, (CG) Prof. P K Bajpai, GGU, Bilaspur,(CG) Dr. Tanmaya Badapanda, C V Raman Global UniversityBhubaneshwar, Odisha Prof. NameetaBrahme, Pt. RavishankarShukla University,Raipur, (CG) Dr. Sanjib Banerjee, IndianInstitute of Technology, Bhilai
2022-23	Workshop on Harbarium Techniques	Workshop	Dr. L. B. Choudhary Ex chief Scientist N B R I (CSIR) Lucknow
	Visit to Bana Nursary	Project Work	PG Students and staff Botany Department pt.Shyamacharan Shukla college Dharsiwa Raipur

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.-No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

1. Ethnobotanical study of Chhattisgarh.
2. Medicinal plants.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths-

- Dedicated and qualified teachers
- Quality contribution towards
- Participation of students in all the academic activities
- Good interaction between faculty and students

Weaknesses-

- Students- Teacher ratio is high.
- Poor communication skill among the students .
- Lack of separate and sufficient class rooms and laboratories.
- Poor infrastructure with insufficient space
- Insufficient teaching and non- teaching staff

Opportunities-

- Development of botanical garden
- Development gives platform to the students to show their potential and knowledge by conducting seminars and giving project etc.
- To conduct skill development programs
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Challenges-

- To increase students progression
- Student-teacher ratio is high at the UG level.
- We have no separate class and laboratory.
- To generate funds to enrich lab facilities.

52. **Future plans of the department.**

- To Improve the Academic Teaching and Learning Quality.
- Courses of cultivation and processing of Medicinal plants.
- To train students for plant identification, herbarium technique & diversity researchment.
- To visit different field related to Botany.

