

## Departmental profile

1. Name of the department— **Biochemistry**
2. Year of establishment – 2012
3. Infrastructure---
- A. Classroom available- NIL
- B. Laboratories and List of Equipment's--

	Name	List Of instruments
1.	UG Laboratory 30X30Sq F	1. Distillation Unit-02 2. Centrifuge (8000RPM) 3. Chemicals and Glassware
		1. Colorimeter-5 2. PH meter-02 3. conductivity meter-01 4. digital weighing balance- 01 5. electrophoresis apparatus-01 6. chromatographic apparatus-01
2.	PG Laboratory 31x11Sq F And 63X9 Sq F	1. Laminar Air Flow-01 2. Spectrophotometer-2 3. digital weighing balance- 01 4. electrophoresis apparatus-01 5. chromatographic apparatus-01 6. Autoclave-1 7. Incubator-2 8. Hot Air Oven-2 9. Magnetic stirrer-01
3.	Research laboratory (In PG Laboratory)	One Microbial research lab established on 2017

d). **Details of Departmental Library**— List Attached

### 4. Course Offered---

Year	Course	Intake			Actual enrollment			New Courses Offered
		UG	PG	Ph. D	UG	PG	Ph. D	
2013-14	Biochemistry	72	NIL	NIL	43	NIL	NIL	
2014-15		72	NIL	NIL	45	NIL	NIL	
2015-16		72	NIL	NIL	56	NIL	NIL	
2016-17		72	NIL	NIL	58	NIL	NIL	
2017-18		72	NIL	NIL	53	NIL	NIL	

## 5. Faculty Strength

Number of teachers Available	Year				
	2013-14	2014-15	2015-16	2016-17	2017-18
Professor	NIL	NIL	NIL	NIL	NIL
Asstt. Professor	01	01	01	01	01
Regular	01	01	01	01	01
Adhoc	NIL	NIL	NIL	NIL	NIL
Contractual	NIL	NIL	NIL	NIL	NIL
Guest Faculty	01	01	01	01	02
Visiting Faculty	NIL	NIL	NIL	NIL	NIL

## List of faculty

Name	Designation	Qualification	Pay	Total Experience	No. of year in the college
Mrigendra Kumar dwivedi	Assistant Professor	M. Sc. Ph.D.	60800+ DA	15 years	06
Jitendra Thakur	Guest faculty	M.Sc. , NET	20800/ - (200/- per lecture)	02 years	01
DinashankarBaghma r	Guest Faculty	M. Sc. SET	10000/ - per Month	02 Years	01

## 6. Sanctioned, Working strength and Vacant position (faculty)

Category	Sanctioned			Working			Vacant			Grand Total
	Prof.	Asstt. Prof	Total	Prof.	Asstt. Prof	Total	Prof.	Asstt. Prof	Total	
Regular	NIL	02	02	Nil	01	01	NIL	01	01	02
Contract basis	NIL	01	01	NIL	02	02	NIL	NIL	NIL	02

## 7. Qualification of Faculty

Category	No. of Ph. D.	M. Phil	Other(NET/SET)	Total
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Regular	01	NIL	NIL	01
Contractbasis	NIL	NIL	02	02

### 8. Non Teaching Staff

- i). Sanctioned- NIL
- ii). Working--- 02
  - a. Technician- 01 (P. L. Dhruv)
  - b. Peon—01 (SushilDhruv)
  - c. Vacant (Requirement)---03

### 9. Research Profile

Year	Research Publication	Research Project	Seminar/ Conference/work shop/synopsis	Other research and consultancy related activity
2013-14	04	NIL	02	NIL
2014-15	01	NIL	02	NIL
2015-16	02	NIL	02	NIL
2016-17	01	NIL	02	NIL
2017-18	02	01	02	NIL

### Research Publication---

S. No.	Name	Year	Title	Name of Journal	Volume	Page No.
1.	M. K. Dwivedi (Corresponding Author)	2010	Cardiovascular Disease and Risk Factors	International Journal of Biotechnology and Biochemistry	6 (3)	377–389
2.	M. K. Dwivedi (Principal & Corresponding)	2011	Homocysteine and cardiovascular disease	Biotechnology and Molecular Biology Review	5(5)	101-107
3.	M. K. Dwivedi (Principal & Corresponding)	2011	Genetic factors influencing stroke susceptibility	GERF Bulletin of Biosciences	2(1)	26-32
4.	M. K. Dwivedi (Co-Author)	2011	Rheumatoid Arthritis: A Complex Gene Environmental Interaction.	International Journal of Genetic Engineering and Biotechnology.	2; 1	9-12
5.	M. K. Dwivedi (Principal &	2012	Prevention and Control of	Journal of Physiology and Pharmacology Advances	2(3)	140-144

	Corresponding)		Cardiovascular Diseases by Drinking Water in Low and Middle Income Countries			
6.	M. K. Dwivedi (Co-Author)	2013	Obesity and ectonucleotide pyrophosphatase/phosphodiesterase 1 (ENPP1) polymorphism and their association with pathophysiology diabetes type 2 in Central Indian Population. 2013: 19-26,	Journal of Diabetes and Endocrinology	Vol. 4(2),	19-26
7.	M. K. Dwivedi (Co-Author)	2013	Type 2 diabetes in a central Indian population: association with PPARG2 P121A allele but not ENPP1 K121Q.	Advances in Genomics and Genetics	3	1-9
8.	M. K. Dwivedi (Co-Author)	2013	The impact of fly ash on photosynthetic activity and medicinal property of plants Volume 2 Number 8 (2013) pp. 382-388	International Journal of Current Microbiology and Applied Sciences	2(8)	382-388
9.	M. K. Dwivedi (Co-Author)	2013	Nramp1 (slc11a1) Gene Polymorphisms and Tuberculosis Susceptibility.3,(1) 2013: 97-109.	International Journal of Applied Biotechnology and Biochemistry	3(1)	97-109
10.	M. K. Dwivedi (Principal & Corresponding)	2015	The Role of MTHFR C677T Polymorphism on Blood Homocysteine Concentration and the Effect of Both of this on Susceptibility to Stroke.	ENLIVEN: JOURNAL OF GENETIC, MOLECULAR AND CELLULAR BIOLOGY	2(3)	1-5
11.	M. K. Dwivedi (Corresponding Author)	2015	The Association of IL-1 Beta with Pneumonia.	International Journal of Engineering Research & Technology (ISNCE SR-2015 Conference Proceeding )	-----	-----
12.	M. K. Dwivedi (Principal & Corresponding)	2017	Role of MTHFR 677 C> T Polymorphism on Blood Homocysteine and Susceptibility to Hypertension.	International Journal of Human Genetics	17	118-125
13.	M. K. Dwivedi (Principal & Corresponding)	2017	The Effect of Physical Activity on Blood Homocysteine Concentration.	International Journal of Current Microbiology and Applied Sciences	6(9)	1206-1210

### Research Project—

S.No.	Name	Year	Title of the Project	Funding Agency
1	Dr. M. K. Dwivedi (PI)	24 Months (2017-2019)	Evaluation of Carcinogenic Potential of Surface Adsorbed Hazardous Chemicals on Vegetables and Fruits	UGC

				4.10 lacks
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### Seminar/Conference/Workshop/Symposia

Name of the Department	Year	Title of the Seminar/Workshop	Funding Agency
DBT, Govt.MSGCollege Rewa (M. P.)	2010	Biological Resources Conservation Management and Sustainable Uses	DBT, CSIR, ICSSR MPCST UGC
VIT University TN (India)	2012	MOLMED-2012	University
DBT, Govt.MSGCollege Rewa (M. P.)	2011	Biological Resources Conservation Management and Sustainable Uses	DBT, CSIR, ICSSR MPCST UGC
School Of Environmental Biology, APSUniversity, Rewa (M. P.)	2012	Role of New Technologies in conservation of Environment	University MPCST
Centre For BioinformaticsDepartment of computer Science, APS University, Rewa (M. P.)	2012	Learning Bioinformatics Tools & Programming Techniques for Teaching & Research Purpose	DBT
Dept. Of Chemistry Science College Bilaspur	2013	Chemistry in Our Lives	CGCST
Dept. Of Chemistry ChaukseCollege of Engineering Bilaspur	2013	Vimarsh	CGCST
Dept. Of Chemistry Science College Bilaspur	2013	Recent Advances in Meteorology Climatology & Environment	CGCST
Dept. Of Bio Chemistry Shankarachary College Bhilai	2014	Integrative Genomics	CGCST
Dept. of Botany Govt. Science College Raipur	2015	Capacity- Building Workshop on Laboratory Techniques & Maintenance.	RUSA
School of Studies in Electronics & Photonics Pt. RavishankarShukla University Raipur, CG	2015	Operation and Maintenance of Laboratory Equipments	UGC Western regional Instrumentation Centre, Mumbai
GovtNagarjuna PG College of Science, Raipur.	2015	Quality Education	RUSA
GovtNagarjuna PG College of Science, Raipur.	2015	Governance, Leadership & Management	RUSA
GovtNagarjuna PG College of Science, Raipur.	2015	Examination Reforms	RUSA
GovtNagarjuna PG College of Science, Raipur.	2015	Strategies development and Deployment to achieve access, equity and excellence in Higher Education System	RUSA

GovtNagarjuna PG College of Science, Raipur.	2015	Carrier Guidance	RUSA
Parthivi College of Engineering and Management, Sirsakala Bhilai-3	2015	Utilization of Non- Conventional Energy Sources For Sustainable Development of Rural Areas	CG COST, Indian Institute of Industrial Engineering And The Institution of Engineering India
Dept. Of Biotechnology GGU Central University Bilaspur	2018	National Workshop on Animal Cell Culture Techniques & Applications.	DBT, CGCST
Chemistry Department (Pt. Ravishankar University Raipur)	2015		Chemistry Department (Pt. Ravishankar University Raipur)and Royal Society of Chemistry

**10. Teaching Learning methods adopted by the department list the method----**

1. Chalk and Board.

**11. Achievements of students**

- a. Students selected in all India entrance Exam for Central universities—

Year	No. of Selection in all India entrance Exam for Central universities	No. of selection in State University Entrance Exams	
2013-14	NIL	03	Achieved first Position
2014-15	04 (DAVV)	05	
2015-16	05 (DAVV)	03	Achieved first Position
2016-17	NIL	02	Achieved first Position
2017-18	01	01	

- Ayushisingh is state level first rank holder in M-Cat Examination Organized by CHIPS CG govt.

- NidhiDevangan B. Sc.II year Student participating interuniversity level championship (national level) in squash.
- b. Students selected in Subject related job/Fellowship----

<b>Name</b>	<b>Job</b>	<b>Institution</b>	<b>Year</b>	
PushpanjaliRao	DST Fellowship	IISER Bhopal	2017	After M. Sc.
Laxmipriya	CSIR –JRF Fellowship	NCCS Pune	2018	After M. Sc.
HariomKannoje	Rajiv Gandhi fellowship	SIIMS Bilaspur	2017	After M. Sc.
Jharna	Junior Analyst	BioconBengluru	2018	During M. Sc.

## 12. **Achievement of Teacher**

### **Academic achievement----**

- a. Ph. Awarded--- July 2013
- b. Orientation course---- June 2014
- c. Refresher Course--- 2016
- d. Ph. D. Guide registration ----- 2018

### **Extension Achievement---**

- a. Hostel warden--- since 2014
- b. Beast SVEEP Nodal officer in CG----- 2017

### **Research Achievement----**

- a. Published Research Papers in Journals (as notified by the UGC): 12
- b. Full Papers in Conference Proceedings- 03
- c. Resource Person in Workshop/ Seminar/Symposia- 02
- d. Invited Lectures in other University --- 14

### **Training**

- Orientation Course –01
- Refresher Course- 01

**13. Research Scholar enrolled/Ph. D. Awarded---- NIL****14. Board of studies meeting.**

Year	Date of meeting	Resolution passed	Remark
2013-14	13/3/13	1. Approval of UG Syllabus 2. Proposal approved and agrees to proceed further for opening PG Course.	
2014-15	14/12/14	.....Do-----	
2015-16	23/9/15	.....Do-----	
2016-17	5/11/17	.....Do-----	
2017-18	23/1/18	Approval of PG And UG Syllabus	

**15. Selection of students for admission-**

Year	Total Application received		Admission given to the candidate of minimum% on merit	
	UG	PG	UG	PG
2013-14		<b>NIL</b>		<b>NIL</b>
2014-15		<b>NIL</b>		<b>NIL</b>
2015-16		<b>NIL</b>		<b>NIL</b>
2016-17		<b>NIL</b>		<b>NIL</b>
2017-18		<b>NIL</b>		<b>NIL</b>

**16. Selection of Contract appointment of teachers**

Year	No. of post vacant	Application received	Invitation given to the candidate on merit
2013-14	1	03	Shri Kamal nayan Mishra
2014-15	1	06	Ku. Shilpi Sharma
2015-16	1	07	Ku. Srishti Sharma
2016-17	1	04	Ku. Srishti Sharma
2017-18	1	03	Dr. Achala Jain

**17. Extension Activity done by the department –**

Year	Name of extension Activity	Target group	Fund Received



			<b>from</b>
2013-14	<b>None</b>		
2014-15	<b>None</b>		
2015-16	<b>None</b>		
2016-17	<b>None</b>		
2017-18	<b>None</b>		

**18. List of facilities Available in the department**

<b>Year</b>	<b>Recreation facility Developed</b>	<b>Funds Received from</b>
2013-14	NIL	NIL
2014-15	Departmental Library	Self Supporting system
2015-16	Spectrophotometer, Multifunctional Photocopy Machine	Self Supporting System
2016-17	PG Course Started + 1 Additional Lab (PG)	Self Supporting System
2017-18	Research Lab	UGC (MRP)

**19. Innovative reforms of the Department**

<b>Year</b>	<b>Innovative Reforms taken</b>	<b>Target Group</b>	<b>Impact of Reform</b>
2013-14	<b>None</b>		
2014-15	<b>None</b>		
2015-16	<b>None</b>		
2016-17	<b>None</b>		
2017-18	<b>None</b>		

**20. Achievements of the Department**

<b>SN.</b>	<b>Items</b>	<b>Status Before Autonomy</b>	<b>Status at present</b>
1.	UG Intake	72 (24 seats per year)	72
2.	PG Intake	NIL	10 seats per year
3.	UG Programs	01	01
4.	PG Programs	NIL	01
5.	M. Phil/ Ph. D.	NIL	Faculty recognized as a Guide from affiliated University
6.	Research Publication	7	18
7.	Research Project	NIL	01
8.	Organizing Seminar/ Conference	NIL	NIL
9.	Attending Seminar/ Conference	05	12

10.	Extension Activity	NIL	NIL
11.	Consultancy	NIL	NIL
12.	Faculty	02	03
13.	Faculty With Ph. D./ NET/SET	01	03
14.	Infrastructure	One Lab	Two Labs
15.	Library	NIL	01
16.	Result Analysis	-	Passing % increased after year 2012.

**Passing %**

	<b>B. Sc. I</b>	<b>B. Sc. II</b>	<b>B. Sc. III</b>
<b>2014</b>	<b>82.60%</b>	<b>71.42%</b>	<b>100</b>
<b>2015</b>	<b>86.36%</b>	<b>100%</b>	<b>100%</b>
<b>2016</b>	<b>100%</b>	<b>94%</b>	<b>94%</b>
<b>2017</b>	<b>95.65%</b>	<b>95%</b>	<b>100%</b>
<b>2018</b>	<b>92.85%</b>	<b>100%</b>	<b>100%</b>

17.	Placement	NIL	NIL (Direct Placement)
18.	Any Other	NIL	