



# Evaluative reports

## Faculty of Science

Profile of the Departments

**BM**

## A. Department of Botany

### 1. Faculty profile, adequacy and competency of faculty

1. Name and address of the department: **Department of Botany**

Date of establishment of the department :**1949**

The built up area of the department is: **Approximately 150 sq. m.**

2. List the different programmes (Level of Study = UG/PG/PG/Ph.D./Post Doctoral.) offered by the department together with the details required below:

Programme	Level of Study	Cut-off Marks at entry, in %	Student Strength
B.Sc. Part – I Hons	Bachelor	50%	50
B.Sc. Part – II Hons	Do	50%	50
B.Sc. Part – III Hons	Do	50%	50
B.Sc. Part – I Gen & Sub.	Do	50%	60
B.Sc. Part – II Gen & Sub.	Do	50%	60
B.Sc. Part – III Gen	Do	50%	20
M.Sc. Part-I	Master	55%	25
M.Sc. Part-II	Master	55%	25

3. Interdisciplinary courses and departments involved: **Not applicable**

4. Annual/semester/choice based credit system: **Semester system**

5. Participation of the department in the courses offered by other departments:  
**Not applicable.**

6. Number of Teaching posts sanctioned and filled  
(details of the posts not available)

Nos. of sanctioned posts: 18	Male	Female	Total
Total no. of Teachers.	07	07	14
Teachers with Ph.D. as the highest qualification.	04	03	07
Teachers with PG or equivalent as the highest qualification (Specify)	03	04	07

7. Faculty profile with name, qualification, designation, specialization.

Name of the Teacher	Designation	Highest Qualification	Specialisation	Exp. years	Age	Sex
1.Mr. D.K. Tripathy	Associate Professor	M.Sc.	Cytogenetics	33	61	M
2.Dr. A. K. Bariar	Associate Professor	Ph.D.	Cytogenetics	31	62	M
3.Mr. R. K. Jha	Associate Professor	M .Sc.	Cytogenetics	29	57	M
4.Dr. Sageer Ahmad	Assistant Professor	Ph.D.	Plant Physiology	27	54	M
5.Dr. M. Kerketta	Assistant Professor	Ph.D.	Plant Taxonomy	26	56	F
6.Dr. I.P.Gupta	Assistant Professor	M .Sc.	Algology	17	50	M
7.Dr. A.Kumar	Assistant Professor	Ph.D.	Plant Pathology	26	51	M
8.Dr. S.Lal	Assistant Professor	Ph.D.	Plant Mol. Biol.	03	35	F
9.Dr. V.Kumari	Assistant Professor	Ph.D.	Algology	03	43	F

10.Mrs. A.Sinha	Assistant Professor	M.Sc.	Plant Physiology	03	37	F
11.Mrs. R.Mishra	Assistant Professor	M.Sc.	Plant Biotech.	10	45	F
12.Mrs. G.Singh	Assistant Professor	M.Sc.	Taxonomy	03	33	F
13.Mrs. S.Prabha	Assistant Professor	M.Sc.	Taxonomy	03	32	F
14.Dr. A.Nag	Assistant Professor	Ph.D				M
15. S.C. Oraon	Assistant Professor	M.Sc.				M

8. Percentage of classes taken by temporary faculty: **Nil**

9. Student/ teacher ratio: **4.00**

10. Number of administrative staff: **03**; Number of technical staff: **02**

11. Number of faculty with ongoing projects:

Name	Designation	Funding agency	Grant received
Dr. A.K. Nag	Asst. Prof.	Minor project (UGC)	1.6 lakhs

12. Departmental projects funded by DST-FIST, DBT: **NIL**

13. Research facility/ centre with

State recognition ×

National recognition ×

International recognition ×

**14. Publications :**

Department	S. No	Name	Qual.	Books	Papers
<b>Botany</b>	1	D. TRIPATHI	M.Sc.	0	07
	2	AK BARIAR	Ph.D	0	10
	3	RK JHA	M.Sc.	3	05
	4	S AHMED	Ph.D	0	11
	5	M KERKETTA	Ph.D	0	03
	6	A KUMAR	Ph.D	0	10
	7	IP GUPTA	M.Sc.	0	03
	8	S LAL	Ph.D	0	10
	9	R MISHRA	M.Sc.	0	01
	10	V KUMARI	M.Sc.	0	04
	11	G SINGH	M.Sc.	1	0
	12	AK NAG	Ph.D	0	3
	13	S PRABHA	M.Sc.	0	2
	14	A SINHA	M.Sc.	0	0

**15. Details of patents and income generated: NIL**

**16. Areas of consultancy and income generated: Not applicable.**

**17. Faculty recharging strategies: through refresher/orientation and workshop arranged by the academic staff college.**

**18. Student Projects: Percentage of students who have done in-house projects: 95 percent.**

Percentage of students doing projects in collaboration with industries/institutions: **5 percent.**

**19. Awards/recognitions received at the national and international level by Faculty ✓ One (Dr. A.K.Bariar) -national**

Doctoral/Post Doctoral fellows ×

Students ×

**20.** Seminars/ conferences/workshop organized and the source of funding:

**NIL**

**21.** Student profile course-wise

	Year 2011			Women		
	UG	PG	Total	UG	PG	Total
Admitted to the programme (entry year)	40	20	60	24	14	38
Drop-outs	05	04	09	Nil	Nil	Nil
Appeared for the final year examination	35	16	51	22	13	04
Passed in the final exam	34	14	48	20	11	31
Passed in I class	12	09	21	12	08	20

**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
Both UG& PG	05	80	15	NIL

**23.** How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

**02 in the last five years**

**24. Student progression**

Year	UG to PG (%)	PG to Research(%)
2007	36	14
2008	38	11
2009	30	08
2010	34	07
2011	35	08

**25. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
<b>of the same parent university</b>	<b>12</b>
<b>from other universities within the State</b>	<b>00</b>
<b>from other universities from other States</b>	<b>02</b>

**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 the Departmental has a Library with 1400 books.**
- b) Internet facilities for staff and students ✓
- c) Total number of class rooms: **3**
- d) Class rooms with ICT facility: **it is being provided**
- e) Students' laboratories: **2**
- f) Research laboratories: **1**

**28.**Number of students of the department getting financial assistance from College.

**Students are generally provided financial assistance from the state government.**

**29.**Was any need assessment exercise undertaken before the development of

new program(s)? If so, give the methodology.

**Not applicable at present but there are preparations for starting biotechnology.**

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 to the same?

**This is done on a college basis and reviewed for appropriate measures.**

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

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

**Lectures of distinguished speakers are organised regularly. The students are also encouraged to take active part in the departmental seminars and speak to the audience. This helps in improving their communication skills considerably.**

33. List the teaching methods adopted by the faculty for different programmes.

**Generally the conventional method is used but at times presentation involving multimedia is used when necessary.**

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

**Through mid-sem and end sem evaluation**



35. Highlight the participation of students and faculty in extension activities.

**Extension activities of the department include tree planting and development of a botanical garden.**

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.

**No**

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- 1. Large infrastructure**
- 2. Well qualified committed faculty**
- 3. Research-oriented activity**
- 4. Dedicated non-teaching staff**
- 5. Good laboratories**
- 6. Excellent success rate**
- 7. Cordial relationship between staff and students**
- 8. Collective leadership encouraged by the present principal**
- 9. Extra-curricular and sports activities**

Weaknesses

- 1. No national or international linkage**
- 2. Some teaching and non-teaching posts lying vacant**
- 3. No consultancy services**
- 4. Lack of autonomy in financial matters due to the control of the university and government**
- 5. Space in the college given to P. G. departments of Science Faculty**

Opportunities

- 1. Opening of new courses**
- 2. Opportunities for the tribal population.**

Challenges

- 1. To start biotechnology as a new and innovative course.**

**39. Future plans of the department.**

To open new courses.

**Department of Chemistry****1. Faculty profile, adequacy and competency of faculty****1. Name and address of the department: Department of Chemistry****Date of establishment of the department :1949****The built up area of the department is: Approximately 300 sq. m.****2. List the different programmes (Level of Study = UG/PG/PG/Ph.D./Post Doctoral) offered by the department together with the details required below:**

<b>Programme</b>	<b>Level of Study</b>	<b>Cut-off Marks at entry, in %</b>	<b>Student Strength</b>
B.Sc. Part – I Hons	Bachelor	50%	50
B.Sc. Part – II Hons	Do	50%	50
B.Sc. Part – III Hons	Do	50%	50
B.Sc. Part – I Gen & Sub.	Do	50%	60
B.Sc. Part – II Gen & Sub.	Do	50%	60
B.Sc. Part – III Gen	Do	50%	20
M.Sc. Part-I	Master	55%	30
M.Sc. Part-II	Master	55%	30

**3. Interdisciplinary courses and departments involved: Not applicable****4. Annual/semester/choice based credit system: Semester system****5. Participation of the department in the courses offered by other departments: Not applicable.****6. Number of Teaching posts sanctioned and filled**

Nos. of sanctioned posts: 21	<b>Male</b>	<b>Female</b>	<b>Total</b>
Total no. of Teachers.	<b>09</b>	<b>01</b>	<b>10</b>
Teachers with Ph.D. as the highest qualification.	09	01	10
Teachers with PG or equivalent as the highest qualification (Specify)	00	00	00

## 7. Faculty profile with name, qualification, designation, specialization.

Name of the Teacher	Designation	Highest Qualification	Specialisation	Exp. years	Age	Sex
<b>1.Dr. T.K. Bhattacharya</b>	<b>Associate Professor</b>	<b>Ph.D</b>	<b>Inorganic chemistry</b>	<b>38</b>	<b>61</b>	<b>M</b>
<b>2.Dr. M. Banerjee</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Organic</b>	<b>38</b>	<b>61</b>	<b>M</b>
<b>3.Dr. P. P. Jha</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Inorganic</b>	<b>29</b>	<b>60</b>	<b>M</b>
<b>4.Dr. K.N.Thakur</b>	<b>Associate Professor</b>	<b>Ph.D.</b>	<b>Inorganic</b>	<b>33</b>	<b>61</b>	<b>M</b>
<b>5.Dr. N.K. Roy</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Physical</b>	<b>18</b>	<b>51</b>	<b>M</b>
<b>6.Dr. P. Bharadwaj</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Inorganic</b>	<b>12</b>	<b>50</b>	<b>F</b>
<b>7.Dr. S.S. Singh</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Physical</b>	<b>15</b>	<b>48</b>	<b>M</b>
<b>8. Dr. K. Akhtar</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Organic</b>	<b>15</b>	<b>45</b>	<b>M</b>
<b>9. Dr. A.K. Acharya</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Physical</b>	<b>12</b>	<b>40</b>	<b>F</b>
<b>10. Dr. Rajiv Ranjan</b>	<b>Assistant Professor</b>	<b>Ph.D.</b>	<b>Organic</b>	<b>04</b>	<b>34</b>	<b>M</b>

8. Percentage of classes taken by temporary faculty: **Nil**

9. Student/ teacher ratio: **6.6**

10. Number of administrative staff: **04**; Number of technical staff: **02**

11. Number of faculty with ongoing projects:

Name	Designation	Funding agency	Grant received
a. Dr. R. Ranjan	Asst. Prof.	Minor project (UGC)	1.6 lakhs
b. Dr. A.K. Acharya	Asst. Prof.	Minor project (UGC)	1.6 lakhs

12. Departmental projects funded by DST-FIST, DBT: **NIL**

13. Research facility/ centre with

State recognition ×

National recognition ×

International recognition ×

14. Publications :

Department	S. No	Name	Qual.	Books	Papers
<b>Chemistry</b>	1	TKBHATTACHARYA	Ph.D	0	2
	2	M BANERJEE	Ph.D	0	2
	3	PP JHA	Ph.D	0	8
	4	KN THAKUR	Ph.D	0	3
	5	K AKHTAR	Ph.D	0	6
	6	NK ROY	Ph.D	0	2
	7	AK ACHARYA	Ph.D	1	2
	8	P BHARDWAJ	Ph.D	0	1
	9	R RANJAN	Ph.D	0	4
	10	SS SINGH	Ph.D	0	0

15. Details of patents and income generated: **NIL**
16. Areas of consultancy and income generated: **Not applicable.**
17. Faculty recharging strategies: **through refresher/orientation and workshop arranged by the academic staff college.**
18. Student Projects: **Percentage of students who have done in-house projects: 95 percent.**  
Percentage of students doing projects in collaboration with industries/institutions: **5 percent.**
19. Awards/recognitions received at the national and international level by Faculty **Not applicable**
20. Seminars/ conferences/workshop organized and the source of funding: **NIL**
21. Student profile course-wise

	Year 2011			Women		
	UG	PG	Total	UG	PG	Total
Admitted to the programme (entry year)	50	20	70	27	15	37
Drop-outs	03	02	05	Nil	Nil	Nil
Appeared for the final year examination	47	18	61	27	15	42
Passed in the final exam	45	17	58	32	37	69
Passed in I class	14	11	23	05	08	13

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
Both UG& PG	05	80	15	NIL

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

**03 in the last five years**

24. Student progression

Year	UG to PG (%)	PG to Research(%)
2007	36	14
2008	38	11
2009	30	08
2010	34	07
2011	35	08

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	07
from other universities within the State	01
from other universities from other States	02

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 the Departmental has a Library with 2300 books.**

b) Internet facilities for staff and students ✓

- c) Total number of class rooms: **4**
- d) Class rooms with ICT facility: **it is being provided**
- e) Students' laboratories: **2**
- f) Research laboratories: **1**

**28.**Number of students of the department getting financial assistance from College.

**Students are generally provided financial assistance from the state government.**

**29.**Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

**Not applicable at present but there are preparations for starting environmental chemistry.**

**30.**Does the department obtain feedback from

- d. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
- e. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
- f. alumni and employers on the programmes and what is the response of the department to the same?

**This is done on a college basis and reviewed for appropriate measures.**

**31.**List the distinguished alumni of the department (maximum 10)

**32.**Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

**Lectures of distinguished speakers are organised regularly. The students are also encouraged to take active part in the departmental**



seminars and speak to the audience. This helps in improving their communication skills considerably.

33. List the teaching methods adopted by the faculty for different programmes.  
**Generally the conventional method is used but at times presentation involving multimedia is used when necessary.**

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

**Through mid-sem and end sem evaluation**

35. Highlight the participation of students and faculty in extension activities.  
**Extension activities of the department include tree planting and development of a botanical garden.**

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.

**No**

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

**10. Large infrastructure**

**11. Well qualified committed faculty**

**12. Research-oriented activity**

**13. Dedicated non-teaching staff**

**14. Good laboratories**

**15. Excellent success rate**

**16. Cordial relationship between staff and students**

**17. Collective leadership encouraged by the present principal**

**18. Extra-curricular and sports activities**

Weaknesses

- 6. No national or international linkage**
- 7. Some teaching and non-teaching posts lying vacant**
- 8. No consultancy services**
- 9. Lack of autonomy in financial matters due to the control of the university and government**
- 10. Space in the college given to P. G. departments of Science Faculty**

Opportunities

- 3. Opening of new courses**
- 4. Opportunities for the tribal population.**

Challenges

- 1. To start Diploma course in Environmental Chemistry as a new and innovative course.**

**39.** Future plans of the department.

To open new courses.

## Department of Mathematics

### 1. Faculty profile, adequacy and competency of faculty

1. Name and address of the department: Department of Mathematics

Date of establishment of the department :1946

2. List the different programmes (Level of Study = UG/PG/PG/Ph.D./Post Doctoral.) offered by the department together with the details required below:

Programme	Level of Study	Cut-off Marks at entry, in %	Student Strength
B.A./B.Sc. Part – I Hons	Bachelor	45%	75
B.A./B.Sc. Part – II Hons	Do		74
B.A./B.Sc. Part – III Hons	Do		64
B.Sc. Part – I Gen & Sub.	Do		127
B.Sc. Part– II Gen & Sub.	Do		52
M.Sc. Part-I	Masters	45%	15
M.Sc. Part-II	Do		15

3. Interdisciplinary courses and departments involved: **Not applicable**

4. Annual/semester/choice based credit system: **Semester system**

5. Participation of the department in the courses offered by other departments:  
**Not applicable.**

6. Number of Teaching posts sanctioned and filled

Nos. of sanctioned posts: 04	<b>Male</b>	<b>Female</b>	<b>Total</b>
Total no. of Teachers.	<b>03</b>	<b>00</b>	<b>03</b>
Teachers with Ph.D. as the highest qualification.	03	00	03
Teachers with PG or equivalent as the highest qualification (Specify)	00	00	00

7. Faculty profile with name, qualification, designation, specialization.

Name of the Teacher	Designation	Highest Qualification	Specialisation	Exp. years	Age	Sex
1.Dr. S.Prasad	Associate Professor	Ph.D	Sp. functions	30	61	M
2.Dr. A.K. Mahato	Assistant Professor	Ph.D.	Statistics	38	55	M
3.Dr. A.K. Jha	Assistant Professor	Ph.D.	Modelling	29	45	M

8. Percentage of classes taken by temporary faculty: **Nil**

9. Student/ teacher ratio: **57.66**

10. Number of administrative staff: **01**; Number of technical staff: **00**

11. Number of faculty with ongoing projects: **NIL**

Name	Designation	Funding agency	Grant received
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12. Departmental projects funded by DST-FIST, DBT: **NIL**

13. Research facility/ centre with

State recognition ×

National recognition ×

International recognition ×

**14. Publications:**

Department	S. No	Name	Qual.	Books	Papers
Mathematics	1	AK JHA	Ph.D	0	9
	2	S PRASAD	Ph.D	0	2
	3	AK MAHATO	Ph.D	0	1

**15.**Details of patents and income generated: **NIL**

**16.** Areas of consultancy and income generated: **Not applicable.**

**17.** Faculty recharging strategies: **through refresher/orientation and workshop arranged by the academic staff college.**

**18.** Student Projects: **Percentage of students who have done in-house projects: 95 percent.**

Percentage of students doing projects in collaboration with industries/institutions: **5 percent.**

**19.**Awards/recognitions received at the national and international level by Faculty **Not applicable**

**20.**Seminars/ conferences/workshop organized and the source of funding: **NIL**

**21.** Student profile course-wise

	Year 2011			Women		
	UG	PG	Total	UG	PG	Total
Admitted to the programme (entry year)	75	15	90	10	06	16
Drop-outs	04	02	06	Nil	Nil	Nil
Appeared for the final year examination	71	13	61	10	06	16
Passed in the final exam	68	12	58	09	05	14
Passed in I class	15	09	24	05	03	08

**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
Both UG& PG	05	80	15	NIL

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

**03 in the last five years**

**24. Student progression**

Year	UG to PG (%)	PG to Research(%)
2007	36	14
2008	38	11
2009	30	08
2010	34	07
2011	35	08

## 25. Diversity of staff

<b>Percentage of faculty who are graduates</b>	
<b>of the same parent university</b>	<b>01</b>
<b>from other universities within the State</b>	<b>01</b>
<b>from other universities from other States</b>	<b>01</b>

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 the Departmental has a Library with 1072 books.**

b) Internet facilities for staff and students ✓

28. Number of students of the department getting financial assistance from College.

**Students are generally provided financial assistance from the state government.**

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

**Not applicable at present but there are preparations for starting environmental chemistry.**

30. Does the department obtain feedback from

g. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

h. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

i. alumni and employers on the programmes and what is the response of the department to the same?

This is done on a college basis and reviewed for appropriate measures.

**31. List the distinguished alumni of the department (maximum 10)**

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

**Lectures of distinguished speakers are organised regularly. The students are also encouraged to take active part in the departmental seminars and speak to the audience. This helps in improving their communication skills considerably.**

**33. List the teaching methods adopted by the faculty for different programmes.**

**Generally the conventional method is used but at times presentation involving multimedia is used when necessary.**

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

**Through mid-semester and end semester evaluation**

**35. Highlight the participation of students and faculty in extension activities.**

**Extension activities of the department include tree planting and development of a botanical garden.**

**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.**

**No**

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

Strengths

- 1. Large infrastructure**
- 2. Well qualified committed faculty**



- 3. Research-oriented activity**
- 4. Dedicated non-teaching staff**
- 5. Good laboratories**
- 6. Excellent success rate**
- 7. Cordial relationship between staff and students**
- 8. Collective leadership encouraged by the present principal**
- 9. Extra-curricular and sports activities**

#### Weaknesses

- 11.No national or international linkage**
- 12.Some teaching and non-teaching posts lying vacant**
- 13.No consultancy services**
- 14.Lack of autonomy in financial matters due to the control of the university and government**
- 15.Space in the college given to P. G. departments of Science Faculty**

#### Opportunities

- 5. Opening of new courses**
- 6. Opportunities for the tribal population.**

#### Challenges

**1. To start Diploma course in Environmental Chemistry as a new and innovative course.**

**39.** Future plans of the department.

To revamp its laboratory.

## Department of Physics

### 1. Faculty profile, adequacy and competency of faculty

1. Name and address of the department: **Department of Physics**  
Date of establishment of the department :1946
2. List the different programmes (Level of Study = UG/PG/PG/Ph.D./Post Doctoral.) offered by the department together with the details required below:

Programme	Level of Study	Cut-off Marks at entry, in %	Student Strength
B.A./B.Sc. Part – I Hons	Bachelor	45%	75
B.A./B.Sc. Part – II Hons	Do		74
B.A./B.Sc. Part – III Hons	Do		64
B.Sc. Part – I Gen & Sub.	Do		127
B.Sc. Part–II Gen & Sub.	Do		52
M.Sc. PartI	Masters	45%	15
M.Sc. PartII	Do		15

3. Interdisciplinary courses and departments involved: **Not applicable**
4. Annual/semester/choice based credit system: **Semester system**
5. Participation of the department in the courses offered by other departments:  
**Not applicable.**
6. Number of Teaching posts sanctioned and filled

Nos. of sanctioned posts: 17	<b>Male</b>	<b>Female</b>	<b>Total</b>
Total no. of Teachers.	<b>08</b>	<b>02</b>	<b>10</b>
Teachers with Ph.D. as the highest qualification.	07	01	08
Teachers with PG or equivalent as the highest qualification (Specify)	01	01	02

7. Faculty profile with name, qualification, designation, specialization.

Name of the Teacher	Designation	Highest Qualification	Specialisation	Exp. years	Age	Sex
1.Dr. S.R. Sahu	Associate Professor	Ph.D	X-Ray Crystal.	36	59	M
2.Dr. A.P. Saha	Associate Professor	Ph.D	X-Ray Crystal.	38	61	M
3. Dr. A.K. Akhouri	Associate Professor	Ph.D				M
4. Dr. N.N. Ojha	Associate Professor	Ph.D			56	M
5.Dr. S.C. Gupta	Associate Professor	Ph.D.	X-Ray Crystal.	38	60	M
6.Dr. J.P. Sharma	Assistant Professor	Ph.D.	Spectroscopy	17	48	M
7. Dr. A. Kumar	Assistant Professor	Ph.D.	Photonics	03	29	M
8.Mrs. N. Singh	Assistant Professor	M.Phil.	Solid state	15	46	F
9.Dr. R.K. Jha	Associate Professor	Ph.D.				F
10. Rajesh kumar	Assistant Professor	M.Sc.		03		M

8. Percentage of classes taken by temporary faculty: **Nil**

9. Student/ teacher ratio: **17.50**

10. Number of administrative staff: **01**; Number of technical staff: **02**

11. Number of faculty with ongoing projects: **NIL**

**Name                      Designation                      Funding agency                      Grant received**

**12.** Departmental projects funded by DST-FIST, DBT: **NIL**

**13.** Research facility/ centre with

State recognition    ×

National recognition    ×

International recognition ×

**14.** Publications:

Department	S. No	Name	Qual.	Books	Papers
<b>Physics</b>	1	AP SAHA	Ph.D	0	4
	2	SR SAHU	Ph.D	2	1
	3	NN OJHA	M.Sc.	0	0
	4	RK JHA	M.Sc.	0	0
	5	AK AKHOURI	Ph.D	0	0
	6	N SINGH	M.Phil	0	1
	7	B BHAGAT	M.Sc.	0	0
	8	JP SHARMA	Ph.D	0	0
	9	R KUMAR	Ph.D	0	2
	10	A KUMAR	M.Sc.	0	0

**15.** Details of patents and income generated: **NIL**

**16.** Areas of consultancy and income generated: **Not applicable.**

**17.** Faculty recharging strategies: **through refresher/orientation and workshop arranged by the academic staff college.**

**18.** Student Projects: **Percentage of students who have done in-house projects: 95 percent.**

Percentage of students doing projects in collaboration with industries/institutions: **5 percent.**

**19.**Awards/recognitions received at the national and international level by Faculty **Not applicable**

**20.**Seminars/ conferences/workshop organized and the source of funding:  
**NIL**

**21.** Student profile course-wise

	Year 2011			Women		
	UG	PG	Total	UG	PG	Total
Admitted to the programme (entry year)	62	16	78	35	12	47
Drop-outs	03	01	04	Nil	Nil	Nil
Appeared for the final year examination	59	15	74	35	12	47
Passed in the final exam	57	12	69	32	11	43
Passed in I class	16	09	26	07	05	12

**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
Both UG& PG	<b>05</b>	<b>80</b>	<b>15</b>	<b>NIL</b>

**23.**How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?  
**03 in the last five years**

**24.**Student progression

Year	UG to PG (%)	PG to Research(%)
2007	36	14
2008	38	11
2009	30	08
2010	34	07
2011	35	08

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	01
from other universities within the State	01
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.

**NIL**

27. Present details about infrastructural facilities

a) Library: **Yes the Departmental has a Library with 1072 books.**

b) Internet facilities for staff and students ✓

28. Number of students of the department getting financial assistance from College.

**Students are generally provided financial assistance from the state government.**

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

**Demand felt by the faculty and students – Curriculum formulation- approval by departmental council – approval by academic council – approval by the Board of management- Approval by the University.**

30. Does the department obtain feedback from
- j. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
  - k. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
  - l. alumni and employers on the programmes and what is the response of the department to the same?

**This is done on a college basis and reviewed for appropriate measures.**

**31. List the distinguished alumni of the department (maximum 10)**

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

**Lectures of distinguished speakers are organised regularly. The students are also encouraged to take active part in the departmental seminars and speak to the audience. This helps in improving their communication skills considerably.**

33. List the teaching methods adopted by the faculty for different programmes.

**Generally the conventional method is used but at times presentation involving multimedia is used when necessary.**

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

**Through mid-sem and end sem evaluation**

35. Highlight the participation of students and faculty in extension activities.

**Extension activities of the department include tree planting and development of a botanical garden.**

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.

**No**

**38.** Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- 1. Large infrastructure**
- 2. Well qualified committed faculty**
- 3. Research-oriented activity**
- 4. Dedicated non-teaching staff**
- 5. Good laboratories**
- 6. Excellent success rate**
- 7. Cordial relationship between staff and students**
- 8. Collective leadership encouraged by the present principal**
- 9. Extra-curricular and sports activities**

Weaknesses

- 1. No national or international linkage**
- 2. Some teaching and non-teaching posts lying vacant**
- 3. No consultancy services**
- 4. Lack of autonomy in financial matters due to the control of the university and government**
- 5. Space in the college given to P. G. departments of Science Faculty**

Opportunities

- 1. Opening of new courses**
- 2. Oppurtunities for the tribal population.**

Challenges

**1. To develop the newly started B.Sc. in Electronics.** Future plans of the department.

**39.** Future plans of the department

**To revamp its computer laboratory.**



## Department of Zoology

### 1. Faculty profile, adequacy and competency of faculty

1. Name and address of the department: Department of Zoology

Date of establishment of the department :1946

2. List the different programmes (Level of Study = UG/PG/PG/Ph.D./Post Doctoral.) offered by the department together with the details required below:

Programme	Level of Study	Cut-off Marks at entry, in %	Student Strength
B.A./B.Sc. Part – I Hons	Bachelor	45%	48
B.A./B.Sc. Part – II Hons	Do		34
B.A./B.Sc. Part – III Hons	Do		30
B.Sc. Part – I Gen & Sub.	Do		127
B.Sc. Part– II Gen & Sub.	Do		52
M.Sc. Part-I	Masters	45%	40
M.Sc. Part-II	Do		40

3. Interdisciplinary courses and departments involved: **Not applicable**

4. Annual/semester/choice based credit system: **Semester system**

5. Participation of the department in the courses offered by other departments:  
**Not applicable.**

6. Number of Teaching posts sanctioned and filled

Nos. of sanctioned posts: 15	<b>Male</b>	<b>Female</b>	<b>Total</b>
Total no. of Teachers.	<b>09</b>	<b>05</b>	<b>14</b>
Teachers with Ph.D. as the highest qualification.	08	05	13
Teachers with PG or equivalent as the highest qualification (Specify)	01	00	01

7. Faculty profile with name, qualification, designation, specialization.

Name of the Teacher	Designation	Highest Qual.	Specialisation	Exp. years	Age	Sex
1.Dr. B. Mukherjee	Professor & Head	M.Sc. Ph.D. D.Sc.	Environmental Biology	30	54	M
2. Dr. U. Singh	Professor	M.Sc. Ph.D.	Entomology	38	62	M
3.Dr M Gupta	Associate professor	M.Sc. Ph.D.	Entomology	34	60	M
4. Dr N D Goswami	Associate professor	M.Sc. Ph.D.	Entomology	33	57	M
5.Dr G Lakra	Associate professor	M.Sc. Ph.D.	Ichthyology	30	60	F
6. Dr. B. Mahato	Associate professor	M.Sc. Ph.D	Environmental Biology	30	57	M
7. Dr S Besra	Associate professor	M.Sc. Ph.D.	Endocrinology	28	54	F
8. Dr B Raza	Assistant Professor	M.Sc. Ph.D.	Ichthyology	15	57	F
9.Dr.A.K.Choudhary	Assistant Professor	M.Sc. Ph.D.	Environmental Biology	11	42	M
10. Dr.S. Singh	Assistant Professor	M.Sc. Ph.D.	Entomology	11	60	F.
11. Dr N. Lal	Assistant Professor	M.Sc. Ph.D.	Environmental Biology	03	49	F
12.Dr.S.Ghosh	Assistant Professor	M.Sc. Ph.D.	Environmental Biology	03	46	M
13. Dr.A. Tripathy	Assistant Professor	M.Sc. Ph.D.	Cell Biology	03	33	M
14.Dr. G. Baskey	Assistant Professor	M.Sc. Ph.D	Cell Biology	03	33	M

8. Percentage of classes taken by temporary faculty: **04**

9. Student/ teacher ratio:**11.86**

10. Number of administrative staff: **04**; Number of technical staff: **0**

11. Number of faculty with ongoing projects: **07**

Name	Designation	Funding agency	Grant received
a. B.Mukherjee	Professor	UGC	9Lakhs60 thousand
b. G.Lakra	Assoc. Professor	UGC	1lakh 80 thousand
c. B. Mahato	Assoc. Professor	UGC	1lakh 60 thousand
d. A. Tripathy	Asst. Professor	UGC	1lakh 60 thousand
e. B. Raza	Asst. Professor	UGC	1lakh 60 thousand
f. N. Lal	Asst. Professor	UGC	1lakh 60 thousand
g. G. Baskey	Asst. Professor	UGC	1lakh 60 thousand

12. Departmental projects funded by DST-FIST, DBT: **NIL**

13. Research facility/ centre with  
 State recognition ×  
 National recognition ×  
 International recognition ×

14. Publications: Publications :

Department	S. No	Name	Qual.	Books	Papers
<b>Zoology</b>	1	B MUKHERJEE	D.Sc.	5	20
	2	M GUPTA	Ph.D	0	5
	3	ND GOSWAMI	Ph.D	0	8
	4	B MAHATO	Ph.D	3	8
	5	G LAKRA	Ph.D	0	5
	6	S BESRA	Ph.D	1	15
	7	B RAZA	Ph.D	0	6
	8	A CHADHARY	Ph.D	0	10
	9	S SINGH	Ph.D	0	1
	10	S GHOSH	Ph.D	1	9
	11	N LAL	Ph.D	0	1

	12	A TRIPATHI	Ph.D	0	3
	13	G BASKEY	Ph.D	0	1

15. Details of patents and income generated: **NIL**

16. Areas of consultancy and income generated: **Not applicable.**

17. Faculty recharging strategies: **through refresher/orientation and workshop arranged by the academic staff college.**

18. Student Projects: **Percentage of students who have done in-house projects: 95 percent.**

Percentage of students doing projects in collaboration with industries/institutions: **5 percent.**

19. Awards/recognitions received at the national and international level by Faculty **Not applicable**

20. Seminars/ conferences/workshop organized and the source of funding: **NIL**

21. Student profile course-wise

	Year 2011			Women		
	UG	PG	Total	UG	PG	Total
Admitted to the programme (entry year)	62	40	102	36	28	64
Drop-outs	05	06	11	Nil	Nil	Nil
Appeared for the final year examination	57	34	91	34	25	59
Passed in the final exam	54	34	88	32	25	43
Passed in I class	16	25	41	08	18	26

## 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
Both UG& PG	05	80	15	NIL

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

**04 in the last five years**

## 24. Student progression

Year	UG to PG (%)	PG to Research (%)
2007	36	14
2008	38	11
2009	30	08
2010	34	07
2011	35	08

## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	09
from other universities within the State	01
from other universities from other States	03

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

**One**

## 27. Present details about infrastructural facilities

a) Library: **Yes the Departmental has a Library with 900 books.**

b) Internet facilities for staff and students ✓

28. Number of students of the department getting financial assistance from College.

**Students are generally provided financial assistance from the state government.**

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

**The department has started M.Sc. Environmental Sciences from 2011. This was necessary because the course is not available anywhere in the state. There is a growing demand of the course because of the awareness of the deteriorating environmental conditions and steps are needed for its abatement. The department formulated the curriculum with the help of experts in the subject and passed it through the departmental council. Once approved it went through the academic council and board of management and was sent to the University for their approval.**

**The same exercise was taken up for starting a special paper in Cytology and Molecular genetics.**

30. Does the department obtain feedback from

m. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

n. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

o. alumni and employers on the programmes and what is the response of the department to the same?

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workshops / seminar) with external experts.

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33. List the teaching methods adopted by the faculty for different programmes.

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35. Highlight the participation of students and faculty in extension activities.

**Extension activities of the department include tree planting and development of a botanical garden.**

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.

**No**

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

**10. Large infrastructure**

**11. Well qualified committed faculty**

**12. Research-oriented activity**

**13. Dedicated non-teaching staff**

**14. Good laboratories**

**15. Excellent success rate**

**16. Cordial relationship between staff and students**

**17. Collective leadership encouraged by the present principal**

**18. Extra-curricular and sports activities**

Weaknesses

**6. No national or international linkage**

**7. Some teaching and non-teaching posts lying vacant**

**8. No consultancy services**

**9. Lack of autonomy in financial matters due to the control of the university and government**

**10. Space in the college given to P. G. departments of Science Faculty**

Opportunities

**3. Opening of new courses**

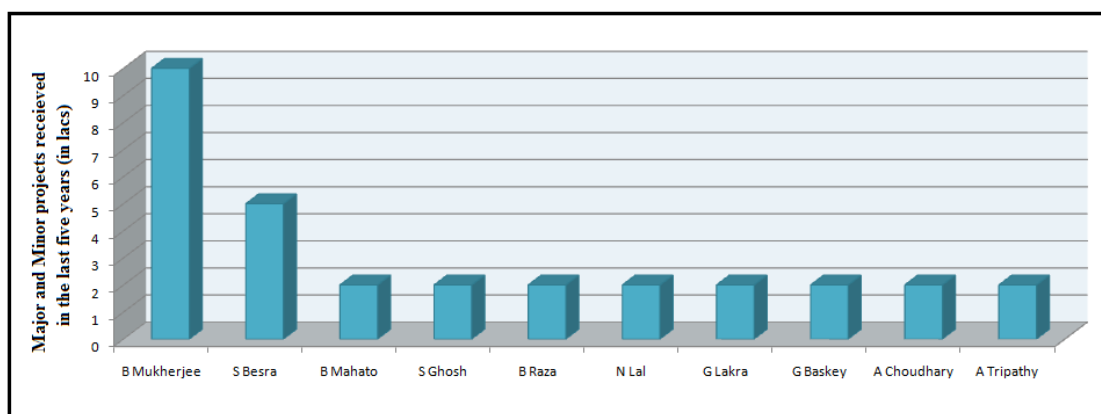
**4. Opportunities for the tribal population.**

Challenges

**1. To develop the newly started courses in such a way as to create a potential among the students and provide them with a professional touch so that they may be able to get suitable placements.**

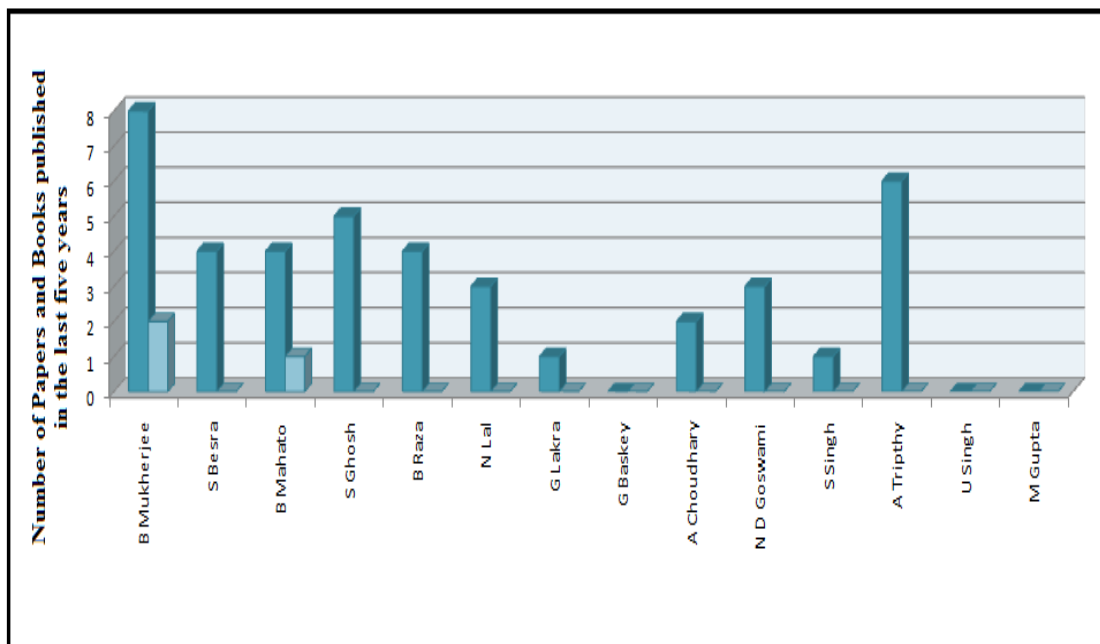
**39. Future plans of the department**

**To start a full-scale Department of Environmental sciences.**





**Publications by faculty (last 5 years):**



*Average citation index and impact factor of publications: 0.5*