

**EVALUATIVE REPORT OF THE DEPARTMENT**

**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY**

1. Name of the Department : **Post Graduate Department of Biotechnology**
2. Year of establishment : **2008**
3. Is the Department part of a School/Faculty of the university : **Self Finance Department**
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): **P.G. and Ph.D.**
5. Interdisciplinary programmes and departments involved :
6. Courses in collaboration with other universities, industries, foreign institutions, etc. :
7. Details of programmes discontinued, if any, with reasons :
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:  
**Semester System**
9. Participation of the department in the courses offered by other departments :
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):

Designation	Sanctioned	Filled	Actual Including (CAS & MPS)
Professor			

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Associate Professor			
Assistant Professor	03(Under Process)	03 (Working as Contractual)	
Guest faculty		05	

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

S.No.	Name of Faculty	Qualification	Designation	Area of specialization	Experience	Research Under Guidance
1.	Prof. S.N.P. Yadav "Deen"	M.Sc and Ph.D.	Inchage	Insect Behaviour	36 Years	<b>14</b>
2.	Dr.Sarfaraz Ali	M.Sc and Ph.D.	Assistant Professor	Sericulture	12 Years	
3.	Dr. L. K.Tarun	M.Sc and Ph.D.	Assistant Professor	Immunology and Animal Cell Culture	12 Years	
4.	Dr. Birendra Kumar	M.Sc and Ph.D.	Assistant Professor	Microbiology	12 Years	

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :
13. Percentage of Class taken by temporary faculty - Programme-wise information: 100%
14. Programme-wise Student Teacher Ratio : 14:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

S.No.	Category/Post	Sanctioned	Filled/Actual
1.	Office Assistant		01
2.	Technician/Lab Bearer		01
3.	Computer Operator		01
4.	Librarian		01
5.	Peon		01
6.	Sweeper		01

16. Research thrust areas as recognized by major funding agencies :
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. :
18. Inter-institutional collaborative projects and associated grants received
- a) National collaboration : Inter- Institutional Collaboration between Post Graduate Department of Biotechnology and U.P.College , Varanasi. **Annexure I**
- b) International collaboration:
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :
20. Research facility/Centre with :
- State recognition : **Central Instrumentation facility and Plant Tissue culture facility**
  - National Recognition :

- International recognition :
21. Special research laboratories sponsored by / created by industry or corporate bodies : **N/A**
22. Publications: **Annexure II**
- Number of papers published in Peer revised Journals (national/ international) : **03**
  - Monograph :
  - Chapter in Book :
  - 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 Social Sciences Directory, EBSCO host, etc.) :
  - Citation Index — range / average :
  - SNIP :
  - SJR :
  - Impact Factor — range / average :
  - h-index :
23. Details of patents and income generated : **N/A**
24. Areas of consultancy and income generated : **N/A**
25. Faculty selected nationally/internationally to visit other laboratories I institutions / industries in India and abroad : **N/A**
26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

**Faculty of Post Graduate department of Biotechnology are the members of Editorial boards in Magadh Journal of Science, Published from Magdh University, Bodh Gaya.**

27. Faculties are members of different state level committees and editorial board. Faculty recharging strategies (UGC, ASC, Refresher I orientation programs, workshops, training programs and similar programs): **ANNEXURE III**

28. Student projects :

- Percentage of students who have done in-house projects including inter-departmental projects: **20 %**
- Percentage of students doing projects in collaboration with universities /industry / institute : **80%**

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

**• Faculty:**

1. Prof. S.N.P. Yadav “Deen” received Madhvi Shyam Gold medal award in National conference of Zoological Society of India at CIFRI, Barackpur, Kolkatta in 2017.

2. Dr.L.K.Tarun has received the Certificate of Appreciation for Promotion of Immunology during celebration of **International Day of Immunology on 29<sup>th</sup> April 2019** from Indian Immunology Society, AIIMS- New Delhi

- Doctoral/post-doctoral fellows :
- Students :

S.No.	Name of the Students	Award/ Fellowship
1.	Chandrawati	DST- INSPIRE Fellow
2.	Subhash Chandra Pd	CSIR-NET
3.	Rajesh Kumar Jha	DBT,INSPIRE
4.	Sachin Kumar Sinha	
5.	Deepak Kumar	DST- INSPIRE Fellow
6.	Jivendra Kumar Malviya	
7.	Pragya Sinha	GATE- 2014, DST- INSPIRES Fellow.
8.	Vandana Yadav	DBT JRF at
9.	Chandan Kumar	Arturo falaschi Fellow
10.	Zeba Parveen	Korean Fellowship

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

- a) Post Graduate department of Biotechnology/Zoology, Magadh University, Bodh Gaya in collaboration with Department of Biotechnology, Ministry of Science & Technology, Govt. of India organized one **day workshop on Foldscope microscope for Teachers and Students of Aspirational Districts of Bihar** on 18 November 2019 at Magadh University, Bodh Gaya.
- b) Post Graduate Department of Biotechnology organized one day Work shop in Collaboration with U.P.College ,Varanasi on “**Research Based Pedagogy workshop for Under graduate and Post graduate Science Teachers and Research Scholars**” on Monday 18<sup>th</sup> March 2019 . Funded by DBT, Govt. of India.
- c) Post Graduate Department of Biotechnology, Magadh University, Bodh Gaya in association with Indian Immunology Society, AIIMS, New Delhi celebrated **one day programme on World Immunology Day on 29 April 2019.**

31. Code of ethics for research followed by the departments: ANNEXURE IV

32. Student Profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
P.G.1 <sup>st</sup> Semester Session (2020-22)	33	09	14	Result	Awaited
P.G. 2 <sup>nd</sup> Semester Session (2019-21)	25	03	13	Final Sem.Result awaited	Final Sem.Result awaited
P.G.3 <sup>rd</sup> Semester Session (2018-20)	15	04	06	Final Sem.Result awaited	Final Sem.Result awaited
Session (2017-2019)	20	04	14	100%	100%
Session (2016-2018)	22	07	08	100%	100%

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33. Diversity of students:

Name of the Programme (refer to question no. 4)	No. of students from the same university	No. of students from other universities within the State	No. of students from other universities outside the State	No. of students from other countries
<b>M.Sc</b>	69	10	03	

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

1.	Deepak Kumar	DST- INSPIRES Fellow 2013
2.	Pragya Sinha	GATE- 2014 DST-INSPIRES Fellow 2014
3	Vandana Yadav	DBT JRF 2016
4.	Chandan Kumar	Arturo falaschi Fellow 2020
5.	Sushma Kumari ray	DST-INSPIRE 2015
6.	Zeba Parveen	Korean Fellowship 2019

35. Student progression:

Student progression	Percentage against enrolled
U.G. to P.G.	
P.G. to M.Phil	
P.G. to Ph. D.	<b>60 %</b>
Ph. D. to Post-Doctoral	
Employed <ul style="list-style-type: none"><li>• Campus Selection</li><li>• Other than campus requirement</li></ul>	<b>30%</b>
Entrepreneurs	<b>10%</b>

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	<b>34%</b>
from other universities within the State	<b>66%</b>
from universities outside the country	

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : **02**
38. Present details of departmental infrastructural facilities with regard to
- a) Library : 01
  - b) Internet facilities for staff and students. : **Magadh University- Wi-Fi Facility**
  - c) Total number of class rooms : **02**
  - d) Class rooms with ICT facility : **01**
  - e) Students' laboratories : **01**
  - f) Research laboratories : **02**
39. List of doctoral, post-doctoral students and Research Associates: **ANNEXURE V**
40. Number of post graduate students getting financial university. : **N/A**
41. Was any need assessment exercise undertaken before the programme(s)? If so, highlight the methodology.  
Admission based on **Entrance Aptitude Test (EAT)**
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. ?

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

S.No.	Name of the Alumini	Fellowship	Institution of Deployment
2.	Chandrawati	DST- INSPIRE Fellow	NBRI, Lucknow
2.	Subhash Chandra Pd	CSIR-NET	SLS, J.N.U. New Delhi
3.	Rajesh Kumar Jha	DBT,INSPIRE	CSIR-CMSRI Gujrat
4	Sachin Kumar Sinha		Sr. Research transparency, Market research, Noida
5.	Deepak Kumar	DST- INSPIRE Fellow	BHU, Varanasi
6.	Jivendra Kumar Malviya		F.C.I. Chandigarh
11.	Pragya Sinha	GATE- 2014, DST-INSPIRES Fellow.	Indian Institute of Rice Research Hyderabad
12.	Vandana Yadav	DBT JRF at	University of Hyderabad
13.	Chandan Kumar	Arturo falaschi Fellow	ICGEB, Trieste, Italy
14.	Zeba Parveen	Korean Fellowship	National Cancer Centre, Korea

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

- a) Post Graduate Department of Biotechnology organized one day Work shop in Collaboration with U.P.College ,Varanasi on “**Research Based Pedagogy workshop for Under graduate and Post graduate Science Teachers and Research Scholars**” on Monday 18<sup>th</sup> March 2019.

Key note Lecture was delivered by

- 1) Prof.R.K.Singh , Hon’ble Vice chancellor, Nalanda Open University, Patna.
- 2) Prof Hanuma Sharma, Pro Vice Chancellor , S.K.M.U., Dumka.

- b) Post Graduate Department of Biotechnology, Magadh University, Bodh Gaya in association with Indian Immunology Society, AIIMS, New Delhi celebrated **one day programme on World Immunology Day.**

Key Note Lecture was Delivered by

1. Dr. Jawaid Ahsan Assistant Professor, Department of Biotechnology, CUSB, Gaya

45. List the teaching methods adopted by the faculty for different programmes. :

- a) **Class Room Teaching**
- b) **Online Teaching (PPT Presentation)**
- c) **Group discussion**

- d) **Smart classes**
  - e) **Scientific Excursion**
  - f) **Seminar (2 times in a month)**
  - g) **Lab Practicals**
  - h) **Project Work/dissertation of 6 months in 4<sup>th</sup> Semester**
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?  
**Internal assessment Test , Semester Wise Examination till 3<sup>rd</sup> Semester and PPT Presentation and Viva-Voce Examination in 4<sup>th</sup> Semester on the Basis of Project work/Dissertaion.**
47. Highlight the participation of students and faculty in extension activities:
- a) A successful one day workshop on foldscope microscope was organised on 18<sup>th</sup> November, 2019 in which there was active participation of both students and teachers from aspirational districts of Bihar, to enrich both faculty and students. It was fully funded by DBT. Magadh University, Bodh Gaya. Page 16 Self-Study Report - 2021
  - b) Both students and faculty actively participated in Southeast Asian Regional international Symposium on Microbial Ecology (SARSME-2020), Pokhara, Nepal (12-14 February, 2020).
  - c) One day quiz competition was conducted with the students of 12<sup>th</sup> class from 2 Branches of D.A.V. Public Schools of Gaya on International day of Immunology in 2019 to promote the knowledge of Immunology.
48. Give details of "beyond syllabus scholarly activities" of the department:  
Students of Post Graduate dept. of Biotechnology actively participate in Swachh Bharat Abhiyan activity . They use to visit the villages nearby university once in a month and organize awareness programme on clean india. Faculty along with students started movement of **Nassa Mukti**.
49. State whether the programme/ department is accredited 7 -graded by other agencies? If yes, give details. :

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

Department regularly conduct seminar 2 times in a month on recent topics. We conduct the training programme for computer, PPT and Excel bioinformatics training. We promote the students to visit national level research Laboratory (CSIR, DBT, ICMR and ICAR labs)

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

#### **Department strength**

- The department has good strength with sound academic background although they are in number only 3 but they are maintaining the entire syllabus of our department honestly.
- They never give up engages the classes regularly along with the practical's.
- Our department produces highly skilled student there by who are engaged in deferent reputed institutions and even in abroad as a research associate/scholar.
- Our non-teaching staffs dedicated to their work and honest.
- Despite of limited resources we are giving satisfactory output.

#### **Weakness**

- Our major weakness is financial backup; there is no any financial backup either from the govt. or from the university. We are managing all the financial status of our department with self finance generation.
- We have lack of our own building
- We have lack of our laboratory
- We have lack of our enriched library, although we are thankful to department of Zoology to support right from the beginning of this department.
- We don't have sanction post of our staffs.

#### **Opportunity and challenges**

- we have opportunity to establish our department, enriched library and well equipped laboratory in coming days for the welfare of our students

- We need to required little financial attention to our department form the Govt. side to accelerate more number of academic scholars.

52. **Future plan of the department**

Our Future plan to run Project if we received an opportunity for fund. We feel transdisciplinary thinking comes from transdisciplinary learning processes. We have faculties from several backgrounds such as Immunology, animal Cell culture , Microbiology and Seri Culture.

- To separate building
- To separate laboratory
- To establish enriched library
- To collaborate with deferent reputed institutions