

## EVALUATIVE REPORT-15

### DEPARTMENT OF ZOOLOGY

1. Name of the Department - **Zoology**
2. Year of Establishment - **B.Sc.(1979),M.Sc.(1986)**
3. Names of Programs / Courses offered (UG, PG, M.Phil, Ph.D., Integrated Masters; Integrated Ph.D., etc.) - **B.Sc. & M.Sc. & Ph.D.**
4. Names of Interdisciplinary courses and the departments/units involved - **NO**
5. Annual/ semester/choice based credit system (program wise) - **B.Sc. - Annual, M.Sc. - Semester**
6. Participation of the department in the courses offered by other departments - **Dept. of Chemistry**
7. Courses in collaboration with other Universities Industries, Foreign Institutions, etc. - **Chemistry, Home Science**
8. Details of courses/programs discontinued (if any) with reasons - **NIL**
9. Number of Teaching posts -

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	05	02
Part Time Lecturer	-	03

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

Name	Qualification	Designation	Specialization	No. of Year of Experience	No. of Ph.D. Students guided for the last 4 year
Dr. Saroj Gupta	M.Sc., Ph.D.	Associate Professor	Entomology	31	01
Dr. Shekhar Chand	M.Sc., Ph.D.	Associate Professor	Entomology	07	-
Dr. Kuldeep	M.Sc., Ph.D.	Retd. Asst. Prof.	Fish & Fisheries	40	-

Kumar					
Ms. Monica Sharma	M.Sc.	Part Time	Entomology	07	-
Ms. Neha Singhal	M.Sc.	Part Time	Entomology	2	-

11. List of senior visiting faculty - **NIL**
12. Percentage of lectures delivered and practical classes handled (program wise) by temporary faculty
- |              |               |                  |
|--------------|---------------|------------------|
|              | <b>Theory</b> | <b>Practical</b> |
| <b>B.Sc.</b> | <b>40%</b>    | <b>40%</b>       |
| <b>M.Sc.</b> | <b>40%</b>    | <b>40%</b>       |
13. Student – Teacher Ratio (Program wise)
- |              |              |
|--------------|--------------|
| <b>B.Sc.</b> | <b>M.Sc.</b> |
| <b>36:1</b>  | <b>8:1</b>   |
14. Number of academic support staff (technical) and administrative staff sanctioned and filled
- i) **(Class III) Clerical: 02; Vacant: 02; Filled: NIL**
- ii) **(Class IV) Clerical: 04; Vacant: 02; Permanent Staff: 01; Temp:01**
15. Qualifications of teaching faculty with D.Sc./D..Lit./Ph.D./M.Phil./P.G.
- |              |             |
|--------------|-------------|
| <b>P.G</b>   | <b>- 02</b> |
| <b>Ph.D.</b> | <b>- 03</b> |
16. Number of faculty with ongoing projects from
- a) National - **NIL**
- b) International funding agencies and grants received - **NIL**
17. Departmental projects funded by DST –FIST; UGC, DBT, ICSSR, etc. and total grants received - **NIL**
18. Research Centre / facility recognized by the University - **YES**
19. Publications
- a) Publication per faculty
- DETAILS OF PUBLICATIONS BY FACULTY MEMBERS**

Name/ S.No.	Title	Name of Co-author	Name of Journal	Volume No.	Page No.	Month	Year	ISS N/ ISB N No.
Dr. Saroj Gupta	Acute toxicity of phenol and pentachlorophenol to few fresh water teleosts.	Dalela, R.C. S.R.Verma And Saroj Rani	Proc. Symp. Environ Biol.	-	349 - 359	-	1979	-

2	Physiological stress induced by sublethal concentration of phenol and pentachlorophenol in <i>Notopterus notopterus</i> : Hepatic phosphates and succinic dehydrogenase.	Dalela, R.C. S.R.Verma And Saroj Rani	Environ. Pollut,21	-	3-8	-	1980	-
3	In vivo sub cutaneous physiological stress induced by phenolic compounds on acid and alkaline phosphates in serum of a fish, <i>notopterus</i> .	Dalela, R.C. S.R.Verma And Saroj Rani	Toxicology Letter - 7		181 - 186		1980	
4	Effect of phenol and dinitrophenol on acid and alkaline phosphatases in tissues of fish ( <i>Notopterus notopterus</i> )	Verma, R. Saroj Rani And R.C. Dalela	Aroh. Environ. Contam. Toxicol, 09	-	451 - 459	-	1980	
5	Influence of pH on the toxicity of phenol and its two derivatives – pentachlorophenol and dinitrophenol to some fresh water teleosts	Dalela, R.C. S.R.Verma And Saroj Rani, Sarita Rani	Acta hydrochim. Hydrobiol, 8,	-	623 - 629	-	1980	
6	Evaluation of acute toxicity of phenol and its chloro and nitro derivatives to certain teleosts.	Verma, S.R. Saroj Rani, A.K. Tyagi And R.C. Dalela	Water, Air and Soil Pollut,14,	-	95-102		1981	

7	Synergism, antagonism and additivity, of phenol, pethachorophenol, and dinitrophenol to a fish,	Dalela, R.C. S.R.Verma And Saroj Rani,	(Notooter us notooerus ) Arch. Environ, Contam, Toxicol, 10		365 - 370	-	1981	
8	Response of serum taransmainases in Notopterus potopters chronically exposed to phenolic compounds and their combinations	Dalela, R.C. S.R.Verma And Saroj Rani,	Environ. Res. 24,	-	218 - 223	-	1981	
9	Effect of phenolic compounds on in vivo activity of glucose notopterus	Dalela, R.C. S.R.Verma And Saroj Rani,	Toxicology Letter – 9		27-33	-	1981	
10	Toxicity of chemical of industrial and agricultural operations of Cirrhina mrigala	Dalela, R.C. S.R.Verma And Saroj Rani,	Rror. wat. resour, Conser. Pollut Abst.	-	447 - 454	-	1981	
11	Effect of phenolic compounds on in vivo blood parameters. Of a fish	Dalela, R.C. S.R.Verma And Saroj Rani,	notopterus notopterus, J.Enviro n. Sci. Hlth. 16B,	-	273 - 282	-	1981	
12	Isolated and combined effects of phenolic compounds on alkaline phosphate in	S.R. Verma, Saroj Rani and R.C. Dalela	notopterus notopterus, Int. J.Enviro n. Sci.	-	73-74	-	1981	

	tissues of a fish,		Studies 16,					
13	Acid phosphatase activity in tissue of <u>Notopterus notopterus</u> . Chronically exposed to phenolic compounds.	S.R. Verma, Saroj Rani and R.C. Dalela	Proc. Ind. Acad.Sci. 91	-	7-12	-	1982	
14	Effect of sodium Pentachlorophenolate on enzymes of energy metabolism In tissues of <u>Notopterus notopterus</u>	S.R. Verma, Saroj Rani and R.C. Dalela	Toxicology Letters, 10	-	297 - 302	-	1982	
15	Toxicology of phenolic compounds in relation to size to a fresh water fish, <u>Notopterus notopterus</u> (Pallas)	S. Gupta, R.C. Dalela, and P.K. Saxena	Ectotoxicol. Environ, Safety 6(5)	-	433 - 488	-	1982	
16	Influence of dissolved oxygen levels on acute toxicity of phenolic compounds to a fresh water teleost, <u>Notopterus notopterus</u> (Pallas)	S. Gupta, R.C. Dalela, And P.K. Saxena	Water, Air, Soil Pollution 19,	-	223 - 288	-	1983	
17	Alterations in certain organic compounds and serum	S.R. Verma, Saroj Rani and R.C. Dalela	Acta Hydrochem. etc Hydrobio	-	31-40	-	1982	

	electrolytes in <u>Notopterus notopterus</u> Chronically exposed to phenolic compounds.		1, 10					
18	Influence of temperature on the toxicity of phenol and its chloro-and-nitro-derivatives to the fish <u>Notopterus notopterus</u> (Pallas)	S. Gupta, R.C. Dalela, and P.K. Saxena	Acta Hydrochem. etc Hydrobiol, 11	-	187 - 192	-	1983	
19	Effects of phenolic Compounds on 5-nucleotidase activity in some tissues of <u>Notopterus notopterus</u> (Pallas) : A biochemical Study	S. Gupta, R.C. Dalela, and P.K. Saxena	Toxicology Letters, 17,	-	167 - 173	-	1983	
20	Effects of phenoic compounds on in vivo activity of transaminases in certain tissues of the fish, <u>Notopterus notopterus</u>	S. Gupta, R.C. Dalela, and P.K. Saxena	Environ. Res. 32,	-	8-13	-	1983	
21	Effects of Phenol, dinitrophenol & pentachloro phenol on oxygen uptake in <u>Notopterus notopterus</u>	S. Gupta,	J. Environ. Biol. 5(3)	-	125 - 133	-	1984	

22	Effect of phenolic compounds on enzymes of energy metabolism in certain tissues of <u>Notopterus notopterus</u>	S. Gupta,	Proc,sem, Eff,Pest, Ag,Men,	-	79-80	-	1984	
23	Evaluation of acute toxicity of malathion and carbaryl to the fresh water teleosts. <u>channa Punctatus and Heteropneustes Fossilis</u> (Bloch)	V.P.Singh, S. Gupta, P.K.Saxena	Toxicology Letters, 20,	-	271 - 276	-	1984	
24	Acute Toxicity of malathion and carbaryl to fresh water teleosts <u>channa punctatus</u>	J.Kondal, S. Gupta, P.K.Saxena	Toxicology letters, 21,	-	155 - 162	-	1984	
25	Effects of phenolic compounds on alkaline phosphate activity in certain tissues of <u>Notopterus notopterus</u>	S. Gupta,	Proc,Nat, sym, Assess,Environ, Pollut.	-	151 - 157	-	1984	
26	Gill damage in <u>Notopterus notopterus</u> following exposure to sublethal levels of phenolic compounds.	S. Gupta,	Proc,sym, conserve Managm. fish. Resour India. Zoologic e Orientari s 02	-	12-16		1985	
27	Effect of phenol on in vivo activity of tissue transaminases in a fish, <u>Notopterus</u>	S. Gupta,	J.Environ .Biol 6(3)	-	151 - 156	-	1985	

	<u>notopterus</u>							
28	Liver damage in <u>Notopterus notopterus</u> following exposure to sublethal levels of phenolic compounds.	S. Gupta, R.C. Dalela,	J.Environ .Biol, 07	-	75-80	-	1985	
29	Short term toxicity tests with phenolic compounds to <u>Notopterus notopterus</u> for predicting the application factor	S. Gupta	J.Environ .Biol, Annal 2(2)	-	-	-	1986	
30	Kidney damage in notopterus notopterus following exposure	S. Gupta	J.Environ .Biol, 08	-	167 - 172	-	1987	
31	Physiological alterations induced by sublethal concentrations of vegetable oil factory effluent in <u>Channa punctatus</u> : Measurement of hydrolytic dehydrogenases.	S. Gupta	Bull.Environ. Contam. Toxicol 39(3)	-	417 - 424	-	1987	
32	Physiological stress induced by sublethal concentrations of phenolic compounds in <u>Notopterus notopterus</u> : Measurement of hydrolytic enzymes	S. Gupta	Environ. Res. 42.	-	304 - 311	-	1987	



33	Gross morphological alterations in gonads of <i>Channa punctatus</i> (Bloch) Chronically exposed to vegetable oil factory effluent	S. Gupta	Proc. Symp. Environ. Eco Toxical	-	361 - 366	-	1987	
34	Effect of vegetable oil factory effluent on the lipid content in liver of <i>Channa punctatus</i> (Bloch) Studies in vitro incorporation of radio labelled substance	S. Gupta	J. Environ Biol. -8	-	366 - 370	-	1987	
35	Acute toxicity of some industrial effluents in relation to fish size for <u>Cyprinus carpio</u> (Ham) <u>Channa Punctatus</u>	S. Gupta		-	185 - 192		1987	
36	Fish size in relation to acute toxicity of industrial effects to <i>Cyprinus carpio</i> (Ham) <i>Channa punctatus</i> (Bloch)	S. Gupta	Acta hydrochim , Hydrobio l 16(2)	-	169 - 165	-	1988	
37	Effect of vegetable oil factory effluent on gross morphology of liver in a fish	S. Gupta	Acta Hydrochi m. Hydrobio l. 16	-	-	-	1988	

38	Orgnic components in serus of Chnna <u>punctantus</u> chronically exposed to vegetable oil factory effluent	S. Gupta	Biochemi cal measure ment of protein, glucose and cholester ol Environ, Res. (commun icate)	-	-	-	2000	
39	Sympton complex of dinitrphenol noisoing of	S. Gupta	-	-	-	-	2000	
40	Algar: a most suitable tool for arresting global warming and sourcing biodeseal.	S. Gupta	Proc.Int. Symp. Carboon, Magage ment, Hyderaba d (Accepte d)	-	-	-	2009	
41	Effect of vegetable oil factory effleuent on the oxgen uptake of the fresh water teleosts : chnna <u>punctantus</u> and chnna <u>punctantus</u> & <u>heteropneustes fossilis</u>	S. Gupta	J.Ecotoxi col, Environ. Safety (commun icate)	-	-	-	2009	
Dr. Shekhar Chand	Pesticides ecliptic influence on the activity of midget carbohydrases of Trithemis aurora (Burm) naiad (Anisoptera: Libellalidae)	A.C. Bhardwaj	J. Appl. Zool.	16( 1)	117 - 118	-	2005	-

2	Organophosphorus pesticides inflicted impairments in the midgut histo-architecture of naiad of T. aurora (Burm) (Odonata: Libellulidae)		J. Exp. Zool. India	15	213 - 218		2012	0972 - 0030
3	Impact of pyrethroid and organophosphorus pesticides on the level of various amino acids in the gut tissue of naiad of Trithemis aurora (Burm.) dragonfly (Odonata: Libellulidae)		J. Exp. Zool. India	15	219 - 298		2012	0972 - 0030
4	Pyrethroid pesticides induced impairments in midgut histoarchitecture of naiad of T. Aurora (Odonata)		Adv. Biores	5(2)	130 - 137	Jun	2014	2277 - 1573
5	Organophosphorus pesticides stress deranged kinetic values of a flow midgut carbohydrases of naiad of T. Aurora (Odonata)		International Journal of Agricultural Invention	1(2)	155 - 160	Dec	2016	2456 - 1797

- Number of papers published in peer reviewed journals (national / international) by faculty and students-
- Seminar workshop attended / Paper presented  
**National Dr. Saroj Gupta – 10**  
**Dr Shekhar Chand- 01**  
**International Dr. Saroj Gupta - 01+01=02**  
**Dr Shekhar Chand- 04**

- Number of publications listed in International Database (For E.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) **NIL**
  - Monographs **NO**
  - Chapter in Books **NO**
  - Books Edited **NO**
  - Books with ISBN/ISSN numbers with details of publishers **NIL**
  - Citation Index **NO**
  - SNIP **NO**
  - SJR **NO**
  - Impact factor **NO**
  - h-index **NO**
20. Areas of consultancy and income generated **NO**
21. Faculty as members in
- a) National committees
- i) **Academy of Environmental Biology, India(Life Membership)**
- ii) **Society of Zoology, India(Life Membership)**
- iii) **Indian National Science Academy(Life Membership)**
- iv) **Indian Science Congress Association(Life Membership)**
- v) **Society of Toxicology, India**
- vi) **Dr. Shekhar Chand – worked as Member of Board of studies in V.B.S. Poorvanchal University Jaunpur. (w.e.f.- 30.07.2013 to 29.07.2015)**
- b) International Committees **NIL**
- c) Editorial Boards... **NIL**
22. Student Projects
- a) Percentage of students who have done in- house projects including inter departmental/ program **NIL**
- b) Percentage of students placed for projects in organization outside the institution i.e., in Research laboratories/Industry/other agencies- **Few students are placed**
23. Awards / Recognitions received by faculty and students - **III Position in M.Sc. Zoology in University.**
- i) **Received Gold Medal by Academy of Environmental Biology**
- ii) **India for Research Contribution in 1987.**
24. List of eminent academicians and scientists/visitors to the department **NIL**
25. Seminars/ Conferences/ Workshops organized & the source of funding
- a) National **YES**
- b) International **NO**
26. Student profile program/ course wise:

Name of the Course/program (Refer question no.4)	Applications Received	Selected	Pass %
<b>B.Sc.</b>	<b>1393</b>	<b>60</b>	-
<b>M.Sc.</b>	<b>55</b>	<b>20</b>	-

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
<b>B.Sc.</b>	<b>100%</b>	NIL	NIL
<b>M.Sc.</b>	<b>100%</b>	-	-

28. How many students have cleared national and state competitive examinations  
Such as NET, SLET, GATE, Civil services, Defense services, etc. – **04**

29. Student progression –

UG to PG	<b>30%</b>
PG to M.Phil	<b>10%</b>
PG to Ph.D.	<b>10%</b>
Ph.D. to Post-Doctoral	<b>10%</b>
Employed	
• Campus selection	<b>NIL</b>
• Other than campus recruitment	<b>NIL</b>
Entrepreneurship/Self-employment	<b>NIL</b>

30. Details of Infrastructural facilities

- a) Library - **NIL**
- b) Internet facilities for Staff & Students - **Available for Staff**
- c) Class rooms with ICT facility - **NIL**
- d) Laboratories - **U.G: 01**  
**P.G: 02**

31. Number of students receiving financial assistance from College, University, Government or other agencies – **As in H.Sc.**

32. Details on student enrichment programs (special lectures/ Workshops/ seminar) with external experts- **Special lectures and seminars delivered by teaching staff as well as Expert-Examiners visited for Practical Exams.**

33. Teaching methods adopted to improve student learning- **Charts, models,**

**assignments, seminars, class room discussion etc.**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities - **Students participate in ISR through N.S.S., N.C.C. & Rovers Rangers**

35. SWOC analysis of the Department and Future plans-

**S (Strength) -**

Well qualified staff

**W (Weakness) –**

Lack of Permanent teaching staff according to admitted students due to Non Functioning of U.P. Higher Education Service Commission. The Management Committee appoints Part time Lecturers to get the teaching work done smoothly.

**O (Opportunities) –**

As far as career options for students are concerned, Zoology & specialized field Entomology offers a versatile platform for futuristic education.

**C (Challenges) –**

In-spite of rural background of students, The College has been providing them quality global education.

**Future Plan –**

- I. To establish PG library, rich in books and to start job oriented certificate courses in department.
- II. To prepare the M.Sc. students as Entomology field experts to assist the farmers of local area for insect pest control programmes.
- III. To establish farmers consultancy cell for insect pest control.
- IV. To establish apiculture centre in college campus.
- V. To promote research activities in agriculture & human health area.
- VI. To establish an insect museum.
- VII. Re-structuring the Entomology Research Lab.
- VIII. To make efforts to tied up with corporate sector companies for training and placement- programmes for students in agriculture, human health and environment protection areas.

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