Departmental Profile

- 1. Name of the Department-Zoology
- 2. Year of Establishment 1948
- 3. Infrastructure-
 - (a) Class Rooms available -Numbers and Covered area in Sqft. 30' X 45' (1 lecture room)

30' X 15'- 1 PG Classroom

(b) Laboratories – Numbers and Covered area in Sqft. 30' X 61'- 1UG

30' X 15' – 1 PG 20' X30' 1Lab Cum Class

(c) List of Equipments lab wise

U.G Lab

- 1. Student's microscope
- 2. Monocular microscope
- 3. Binocular microscope
- 4. Dissecting microscope
- 5. Slide micro projector
- 6. Slide projector

P.G Lab

- 1. Deep freezer (-20°C)
- 2. Colorimeter
- 3. Spectrophotometer
- 4. pH meter
- 5. UV Transilluminator
- 6. Horizontal Electrophoretic apparatus
- 7. Vertical Electrophoretic apparatus
- 8. DO meter
- 9. Conductivity meter
- 10.Colony Counter
- 11.Soxhlet apparatus
- 12.UV VIS spectrophotometer
- 13.Hot plate
- 14. Micropipettes
- 15.Single Pan balace
- 16. Electronic digital Balance
- 17.Physical balance
- 18.LCD Projector

19.OHP Projectors

- 20.Desktop
- 21. Laptop
- 22.Distillation unit
- 23.Centrifuge Machine
- 24.Microtome
- 25. Monocular Microscops
- 26.Binoculars Microscops
- 27.TrinocularMicroscops
- 28.Dissecting Microscops
- 29. Tissue homogenizers
- 30.Hot air Oven
- 31.Freezer
- 32.Haemoglobinometers
- 33. Haemocytometers
- 34.Incubators
- 35.Projection Microscopes
- 36. Tissue processors
- 37. Thin layer Chromatography chamber
- 38.Specol
- 39. Enviornmental test chamber
- 40.Epidiascope

(d) Details of Departmental Library-Purchasing details available in main library

Year	Books	Jou	ırnal	CD's	e resources	e journal	Thesis
	Purchased	National	International		Subscribed	Subscribed	
2013-14							
2014-15							
2015-16							01
2016-17							
2017-18							

4. Courses offered-

Year	Courses		Inta	ke		Actual enrolme	nt	New courses offered
		UG	PG	Ph.D	UG	PG	Ph.D	
2013-14		-	25	4 (1 course work)	-	24	3	nil
2014-15		-	25	3(1 course work)	-	23	2	nil
2015-16		-	25	-	-	24	1	nil
2016-17		-	25	-	-	25	1	nil

			-				
2017-18	-	25	1 course work	-	23	0	nil

5. Faculty Strength

No. of Teachers Available			Year		
	2013-14	2014-15	2015-16	2016-17	2017-18
Professors	02 Promoted				
Asstt. Professors	05	05	06	05	06
Regular	07	07	08	07	08
Adhoc	-	-	-	-	-
Contractual	-	-	-	-	-
Guest faculty	-	-	-	-	01
Visiting Faculty	-	-	-	-	-

Annexure

List of Faculty

Name	Designation	Qualification	Рау	Total experiences	No. of years in the college
Dr. Seema Gupta	Professor & HOD	M.Sc, Ph.D	192300	34	29
Dr.R.	Professor	M.Sc., Ph.D.	187300	32	32
Maheshwari					
Mr.M.S. Rawani	Asst. Professor	M.Sc	187300	35	12
Dr. Preeti Mishra	Asst. Professor	M.Sc, Ph.D	198700	33	31
Mrs.InduMandrik	Asst. Professor	M.Sc	181800	32	09
Dr. Kavita Das	Asst. Professor	M.Sc, M.Phil, Ph.D	147900	29	22
Dr. Shashi Gupta	Asst. Professor	M.Sc, Ph.D	66800	06	03
Dr. PallaviSinha	Asst. Professor	M.Sc, Ph.D,CSIR- NET, CSIR- SRF, DBT-RA	57700	01	01

6. <u>Sanctioned</u>, working strength and Vacant position (Faculty)

Category	S	anctione	ed		Working			Vacant		Grant total
	Prof.	Asstt.	Total	Prof.	Asstt.	Total	Prof.	Asstt.	Total	
		Prof.			Prof.			Prof.		
Regular	01	08	09	02	06 (AP)	08	01	00	01	09
_				(promoted)						
Contract	-	-	-	-	-	-	-	-	-	-
basis										

7. Qualification of Faculty

Category	No. of Ph.D.	No. Of M. Phil	Other	Total
Regular	06	01	-	08

Contract basis	-	-	-	-

8. Non Teaching Staff-

- (i) Sanctioned-
- (ii) Working List to be provided in Annexure (enclosed as Annexure 1)
- (iii) Vacant -

9. <u>Research Profile</u>

Year	Research Publication	Research projects	Seminar/conference/ workshop/ synopsis	Other research and consultancy related activity
2013-14	25	-	12	-
2014-15	8	-	39	-
2015-16	03	-	26	-
2016-17	10	_	62	-
2017-18	10	-	32	-

Annexure to be prepared: enclosed as Annexure 2

Research Publication: See Annexure 2

S.No. Name Year Title Name of Journal Volume Page no.

Research project

S.No.	Name	Year	Title of the project	Funding agency
	NIL	-	-	-

Seminar/ Conference/ Workshop/ Symposia

Name of the Department	Year	Title of the Seminar/ Workshop	Funding agency
Zoology	2015	workshop on "Quality	Rusa sponsored
		Education " Govt.	
		Nagarjuna P.G. College of	
		Science, Raipur	
	2016	National Conference on	CGCOST, Govt
		"Prospects in Life Sciences:	fund
		Paradigm Shift in Teaching	
		and Research in Zoological	
		Sciences"	
	2017	workshop on "Strategies and	RUSA sponsored
		challenges in implementing	
		semester system and choice	
		based credit system (CBCS) "	

10.Teaching learning methods adopted by the department List the methods. Chalk and board, OHP, slide projector, LCD

11. Achievements of students (Provide details separately)

Year		Examination	Co curricular activities	Extracurricular activities
2013-14	U.G I. III. III. PG I. II. III. IV.	B.Sc I^{ST} Year: 36.57% B.Sc II^{nd} Year:72.83% B.Sc III^{rd} Year:91.62% M.Sc I^{st} Sem: 100% M.Sc III^{rd} Sem: 100% M.Sc III^{rd} Sem: 100% M.Sc III^{rd} Sem: 100%	 Nil 1. Excursion tour to Rajeev Gandhi matsya ganga fish pond at, Demar, Dist. Dhamtari on 2. Guest lecture a) Concept of "Integrated Pest management on 29/11/2013 by Dr. R.N Ganguly b) Interdisciplinary lecture on Mutation on 24/02/2014 by Dr. 	Social activities at Demar

			Company and a Day tran	
			SuneetaPatra c) Lecture on Yoga & Stress on 05/03/2014 by Dr. VivekBhartiya d) Lecture on cell signalling on 06/03/2014 by dr. Archana Prasad 3. Discussion on NET Exam pattern by Zoological society on 10/03/2014	
2014-15	U.G I. III. III. PG I. II. III. IV.	B.Sc I ST Year: 59.10% B.ScII nd Year:69.20% B.ScIII rd Year:83.79% M.ScI st Sem: 95% M.ScII nd Sem: 95% M.ScIII rd Sem:100% M.ScIV th Sem:95%	 Excursion tour to fish farm at, Tirga, Dist. Durg on 17/10/2014 Guest lectures Dr. A.K.Pati (Professor of Bio- science, Pt. Ravi Shankar Shukla University, Raipur 492 010, India) delivered lecture (11.9.14) on "Academic output –How to Augment and measure"h-index. Dr. V.K. Gupta(24.9.2014) delivered a lecture on Alternative to animal dissection 	Social activities at Tirga
2015-16	U.G I. II. PG I. II. IV.	B.Sc I ST Year: 66% B.ScII nd Year:76% B.ScIII rd Year: 82% M.ScI st Sem: 95% M.ScII nd Sem: 84% M.ScIII rd Sem: 100% M.ScIV th Sem: 95%	 Excursion Tour: Visit to Wildlife Sanctuary, Barnavapara Guest lectures a) Dr. H.K Wardia delivered a lecture on fish culture in Chhattisgarh b) A lecture for NET Examination preparations was organized on 9.4.16 by Mr. BhupendraSahu 	
2016-17	U.G I. II. III. PG I. II.	B.Sc I ST Year: 69.96% B.ScII nd Year: 67.09% B.ScIII rd Year: 100% M.ScI st Sem: 80% M.ScII nd Sem:91 %	 Guest lecture a) Biological clock and Rhythm by Dr. A.K Pati on 04/10/16 b) Wild life animal and Wild life crime by Dr. Meetu Gupta on 06/10/16 c) Bird watching and documentation by Mr. RamitSingal on 07/11/16 d) Soil and water testing and its concepts by dr. V.N. Mishra 	

2017-18	III. IV. U.G I. II.	M.ScIII rd Sem: 95% M.ScIV th Sem: 100% B.Sc I ST Year: 65.03% B.ScII nd Year:53.77%	Guest lecture a) Lecture of Dr. K.N. Bapat (Principal, Govt.N.P.G. College of Science, Raipur) on 28.7.17 b) Dr. Lal Chandra delivered a lecture	
	III. PG I. II. III. IV.	B.ScIII rd Year94.6: % M.ScI st Sem:95% M.ScII nd Sem: 90% M.ScIII rd Sem: 95% M.ScIV th Sem: 95%	(Director and Professor, Deptt of Biochemistry, Maulana Azad Medical College, New Delhi) on 27.7.17. His talk was based on "Life style modification perception and belief	

Annexure enlist separately: (Enclosed as annexure 3)

12. Achievements of Teacher.

Year	Achievement of Teachers	Enclose Details Separately
2013-14	-	
2014-15	<i>1</i> - Best poster award	2- Mishra, P. and Gupta, S. (2015): Effect of <i>Ecliptaalba</i> on biochemical parameters of <i>Clariasbatrachus</i> , in National Conference on "Recent advances in medicinal plant research and its application in human health". Department of Zoology, BhilaiMahilaMahavidhyalaya , Bhilai 2-3 March 2015.
2015-16	Poster-Awarded III rd Prize poster Poster- awarded I st Prize poster	Das,K., Mandrik, I and Maheshwari, R. Robin: The most familiar garden bird, National conference on prospects in life science, paradigm shift in teaching and research in zoological sciences under ZSC 2-3 march 2016 by Deptt. of Zoology Govt. NPG College of Science, Raipur Tandon, H.N. Maheshwari, R andTandonS : Checklist of Bird Species in Barnawapara Wildlife Sanctuary, District Mahasamund, C. G". <u>-</u>
2016-17	1.Best poster presentation award	Das,sK., Mandrik, I and

		Maheshwari, R. Some behavioral
		observations of the Indian Robin
		Saxicoloidesfulicata. Interdisplinary
		national seminar, Behavioral
		impact of animal and
		microorganisms on human life and
		their environment. Deptt. Of
		Zoology Govt. Dr, WW Patenker
		girls P.G, college Durg.3-4
		february2017
	2.2 nd Prize for poster	
	presentation	Mishra, Preeti. and Gupta Seema
		(2017:). Stem cell and regenerative
		medicine: Fact of 21^{st} century. National
		5
		CME on Stem cell and its application,
		organized by dept. of anatomy,Raipur
2017-18	-	-
13.Research scholars	s enrolled/ Ph. D. Awarded	

Year	Name of Supervisor	Research Scholars enrolled	Research completed & Ph.D. awarded
2013-14	1. Dr R.K. Agrawal	1. Ku DivyaKumudiniMi nj	2014
	2. Dr. Seema Gupta	 Ku RachnaJurry Devendra Kumar Porte 	Nil
2014-15	Dr. Seema Gupta	 Ku RachnaJurry Devendra Kumar Porte 	1 submitted (Rachna Jury)
2015-16	Dr. Seema Gupta	1. Devendra Kumar Porte	1 Awarded (Rachna Jury)
2016-17	Dr. Seema Gupta	1 Devendra Kumar Porte	-
2017-18		1. Devendra Kumar Porte	Submitted

Annexure enlist separately

Name of	Title of the	Year of	Year of Completion/ Ph.D.
Supervisor	Research	Registration	awarded
Dr.R.KAgrawal	Biodiversity	01/07/2008	2014
	association index in		
	relation to fishes of		

	various ponds in Kanker District		
Dr. Seema Gupta	Effect of certain herbs on immunomodulatory and free radical load of lymphoid organ of air breathing cat fish <i>Clariusbatrachus</i>	17/11/2009	2015
Dr. Seema Gupta	Distribution, feeding and nesting behaviour of wet land birds at RatanPur, Chattisgarh	18.07.2012	2018

14.Board of studies Meeting-

Year	Date of meeting	Resolution passed	Remarks	
2013-14	1. 19.2.13	Discuss and finalize The syllabus for UG and PG	Approved by academic council	
	2. 29.10 13	Proposal for changing pattern of question paper	Approved by academic council	
	3. 31.10.13	Change the pattern of question paper of main exam in graduation programme	Approved by academic council	
2014-15	11.3.14	Discuss and finalize the	Approved by the	
		syllabus of UG and PG	committee	
2015-16	1. 15.4.15	Discuss and finalize the syllabus of UG and PG	1. Approved by academic council	
	2. 20.2.16	Discussion to apply the credit system in M.Sc. (As per the letter of Pt. R.S.U. Raipur)	2.Approved for session2017-18	
2016-17	10.4.17	Discuss and finalize the syllabus of UG and PG	Approved by the committee	
2017-18	12.4.18	Suggested the CBCS/choice based credit system should be implemented in II and III semester of MSc with total 6 credit	Approved Syllabus	

Year	Total application received	Admission given to candidate of minimum % on
	PG	merit
2013-14	917	50.5%
2014-15	926	46.72%
2015-16	1432	-
2016-17	264	51.04%
2017-18	367	-

15. Selection of students for admission-

16. Selection of contract appointment of teachers Guest Faculty

Year	No. of Posts vacant	Application	Appointment given to candidate on merit
		received	
2013-14	02	Nil	-
2014-15	02	Nil	-
2015-16	01	Niil	-
2016-17	02	Nil	-
2017-18	01	14	On merit

17. Extension activities done by the Department-

Year	Name of extension	Target group	Funds received from
	activity		
2013-14	1. Lecture was	1.12 th Students&	CPE
	delivered on water	Villagers (Pond)	
	pollution and its effect on animals on 1.9.13	2. Students & Villagers Demar	CPE
	2. Described harm of	V magers Demai	
	alcohol drinking and		
	demonstration of		
	vermicomposting in		
	village Pond 3.Lecture on		
	NashaMukti, Baal vivaah		
2014-15	1. NukaddNatak against	Students of Govt.	СРЕ
	"Andh-vishwas" and lectures	H.S. School of Tirga	
	on different social issues like	Village, Dist. Durg	
	NashaMukti,		
	DahejPratadana, Human		
	Rights amongst the students		
	of		
2015-16	Nil	-	-
2016-17	Nil	-	-
2017-18	Nil	-	-

Annexure- Report & Photographs

18. Facilities of recreation activities-

List of facilities available with the Department

Year	Recreation facilitates developed	Funds received from
2013-14	Nil	Nil
2014-15	Nil	Nil
2015-16	Nil	Nil
2016-17	Nil	Nil
2017-18	Nil	Nil

19. Innovative reforms of the Department-

List of innovative practices under way in the department

Year	Innovative reforms taken	Target group	Impact of reform
2013-14	 NET preparation test Wall magazine prepared by student on environmental and animal diversity aspects 	M.Sc (Zoology,Botany, Biotechnology)	 Helpful for students in preparing NET exams Students get awareness about environmental hazard, protection of wild life and learnt animal behaviour
2014-15	Wall magazine prepared by student on environmental and animal diversity aspects	M.Sc (Zoology)	Students get awareness about environmental hazard, protection of wild life and learnt animal behaviour
2015-16	Wall magazine prepared by student on environmental and animal diversity aspects	M.Sc (Zoology)	Students get awareness about environmental hazard, protection of wild life and learnt animal behaviour
2016-17	Wall magazine prepared by student on environmental and animal diversity aspects	M.Sc (Zoology)	Students get awareness about environmental hazard, protection of wild life and learnt animal behaviour
2017-18	 NET preparation test Wall magazine prepared by student on environmental and animal diversity aspects 	M.Sc (Zoology,Botany, Biotechnology)	 Helpful for students in preparing NET exams Students get awareness about environmental hazard, protection of wild life and learnt animal behaviour

20. Achievements of the Department-

S. No.	Items	Status before autonomy	Status at present
1	UG intake		
2	PG intake	25	
3	UG Programmes	01	
4	PG Programmes	01	
5	M.Phil/ Ph.D.		Ph.D
6	Research publication		56
7	Research projects		Nil
8	Organizing seminar/ Conferences		03
9	Attending seminar/ conference		171
10	Extension activities		02
11	Consultancy		Nil
12	Faculty		08
13	Faculty with Ph.D.		06
14	Infrastructure		Existing, No new
			labs and rooms
15	Library		120 books added in
			departmental library
16	Result analysis		98.12%
17	Placement		2 PSC
18	Any other		-

Annexure 1

Non teaching staff Class III & IV

- 1. Mr. Alok Kr Agarwal Lab Technician
- 2. Mr. Vinod Kr Mathurkar Lab Technician
- 3. Smt. Karuna Yadav Lab Technician
- 4. Mr. Surendra Kr Yadav Lab Attended
- 5. Mr. Rup Narayan Rajpoot Lab Attended
- 6. Smt. Manju Soni Farrash
- 7. Mr. Gajendra Rajpoot Lab Peon

Annuxure-2

Publication & Seminar attended by faculties

1. DR. SEEMA GUPTA

PUBLICATION

2013

- Jurry, R., Gupta, S. and Mishra, P. (2013): Preliminary phytochemical screening of A. aspara L. Asian J. of Chem. and Environ. Res., 6(1-2), 105-110.
- Jurry, R., Gupta, S. and Mishra, P. (2013): Phytochemical screening of C.dactylon. Asian J. of Chem. and Environ. Res., 6(1-2): 17-21.
- Mishra, P. and Gupta, S. (2013): Effect of leaf extract of E. alba on haematology of C. batrachus. Asian J. of Animal Science, 8(2), 73-80.
- Preeti Mishra and Seema Gupta (2013): Blood booster plant and Fishes: A review. Research front Vol.III, 71-76.
- Preeti Mishra and Seema Gupta (2013): Phytochemical screening of *Eclipta alba*. Asian J. of Animal Science, 8(2), 112-114.
- Devendra Singh Porte and Seema Gupta (2013): A preliminary investigation on avifaunal biodiversity with special reference to Asian Openbill (Anastomusoscitans) at Ratanpur (Chhattisgarh, India). Asian J. of Chem. and Environ. Res., 6: 26-33.
- Mishra, P., Gupta, S. and Jurry, R. (2013): Haematopoietic effect of stem extract of E. alba on C. batrachus. Asian J. of Chem. and Environ. Res., 6: 73-79.

- B. Gupta, S. and Mishra, P. (2014): Effect of leaf extract of Eclipta alba on haematology of C. gariepinus (Burchell, 1852). World Journal of Pharmaceutical Research, 3(3): 4860-4870. RGJF-0.18
- Mishra, P. and Gupta, S. (2014): Efficacy of stem extract of Eclipta alba on biochemical parameters of Clarias batrachus. Indo American Journal of Pharmaceutical Research, 4(6): 2780-2784. JF- 4.587 2231-6876
- Jurry, R., Gupta, S. and Mishra, P. (2014): Investigation of hemapoietic effect of Cynodon dactylon (L.) on Indian walking catfish, Clarias batrachus (Linnaeus, 1758). Journal of Experimental Zoology, 17(2): 519-524. ISSN -0972-0030 Nasa rating- 5.1

- 11. Mishra, P. and Gupta, S. (2014): Haematological evaluation of Eclipta alba root extract in catfish Clarias batrachus (Linnaeus, 1758). Journal of Pharmaceutical Scientific Innovation, 3(3): 240-244. ISSN- 2277-4572
- 12. Mishra, P. and Gupta, S. (2014): Modulatory effect of Eclipta alba on biochemical parameters of catfish, C. batrachus. World Journal of Pharmaceutical Research, 3(4): 1223-1233. 4860-4870. RGJF-0.18
- Mishra, P., Gupta, S. and Jurry, R. (2014): Effect of Cynodon dactylon on free radical load of lymphoid organs of Clarias batrachus. World Journal of Pharmaceutical Research, 3(7): 892-906. 4860-4870. RGJF-0.18

2015

14. Mishra, P. and Gupta, S (2015): Hematinic activity of Eclipta alba on Clarias gariepinus (Burchell) 1822. World Journal of Pharmaceutical Research, 4(12): 2015

2016

- 15. Damle, K.L., Gupta, S. and Sharma, M. (2016): Biodiversity of mites in poultry dust at Rajnandgaon district of Chhattisgarh, India. Research Journal of Animal, Veterinary and Fisheries Science, 4(5): 7-9.
- 16. Mishra, Preeti and Gupta, Seema (2016): Effect of root of *Eclipta alba* on biochemical parameters of *Clarias batrachus*. World Journal of Pharmaceutical Research, 5(7): 1935-1941

- 17. Mishra, P. and Seema Gupta. (2017): Comparative effect of Eclipta alba on haematological parameters of Asian catfish, C. batrachus. Indian Journal of Scientific Research, 12(2): 099-106. ISSN: 0976-2876
- Devendra Singh Porte and Seema Gupta (2017): Nesting behavior of Indian Pond Heron, Ardeolagrayii (sykes, 1832) at Ratanpur, district Bilaspur, Chhattisgarh, India. IndianJournal of Applied and pure Biology, 32(1): 31-42. 0970-2091
- 19. Devendra Singh Porte and Seema Gupta (2017): Assessment of distribution pattern of wetland birds between unpolluted and polluted ponds at Ratanpur, district Bilaspur, Chhattisgarh, India. Indian Journal of Scientific Research, 12(2): 204-215.
- 20. Devendra Singh Porte, Seema Gupta, Shrutika Kankariya (2018): Temporal pattern in foraging behaviour of the Indian pond heron, Ardeolagrayii at Ratanpur, Chhattisgarh, India. Biological Rhythm Research, https://doi.org/10.1080/09291016.2018.1424768

- 21. P. Mishra and S. Gupta (2018):Effect of Eclipta alba on non-specific immune response of catfish. J. Exp. Zool. India, 21(1):483-490
- 22. Devendra Singh Porte and Seema Gupta (2018): Status and diversity of wetland birds at ancient township Ratanpur of Chhattisgarh, Ambient Science India.National Cave Research and Protection organization,India . 5(2)
- 23. Devendra Singh Porte and Seema Gupta (2018): A chronological assessment of foraging activities of the cotton Pigmy Goose, *Nettapus coromandelianus* Gmelin, 1789 at Dulahara pond, Ratanpur, Chhattisgarh, India. Biological Rhythm Research, DOI:10.1080/09291016.2018.1484807
- 24. Devendra Singh Porte, Seema Gupta, Shrutika Kankariya (2018): Temporal pattern in foraging activities of the cotton pigmy goose, Nettapus coromandelianus Gmelin, 1789 at Dulahara pond Ratanpur, Chhattisgarh, Biological Rhythm Research, https: //www.tandfonline.com/loi/nbrr20

CONFERENCES/SEMINAR ATTENDED

2013-14

- 1. Symposium on Role of bioinformatics in Medicine. Department of Biochemistry, Pt. J.L.M. Medical College, Raipur. July 25th, 2013
- National conference on" Traditional knowledge and biotechnology" SOS Biotechnology, Pt.RSU. Raipur Chhattisgarh, India, 22-24 Nov. 2013

2014-2015

- 1. Symposium on digital Medicine. Department of Biochemistry, Pt. J.N.M. Medical College, Raipur. July 25th, 2014
- National conference on "Prospects of Life Science for human welfare with special reference to Chhattisgarh" & first Chhattisgarh congress of ZSC, Department of Zoology, Govt. V.Y.T. P.G. College Durg.7th- 8th Feb, 2015.
- 3. National Conference on "Recent advances in medicinal plant research and its application in human health". Department of Zoology, Bhilai Mahila Mahavidhyalaya, Bhilai 2-3 March2015.

- 1. National symposium on role of quality control in healthcare management Department of Biochemistry, Pt. J.L.M. Medical College, Raipur. July 25th, 2015.
- 2. National seminar on Enhancement strategies in quality education and research, IQAC, Govt. NPG College of Science, Raipur. November 27-28, 2015.
- 3. Interdisciplinary international seminar on "Rationalizing the utilization of available natural resources through appropriate technological intervention". Swami Shri Swaroopanand Saraswati Mahavidyalya, Hudco, Bhilai, September-22-24, 2015.

2016-2017

 National Symposium on Genetic basis of haematological disorders with special emphasis on Sickle cell disease. Department of Biochemistry, Pt. J.L.M. Medical College, Raipur. July 25-26, 2016

2017-2018

- 1. National Symposium on Genetic basis of haematological disorders with special emphasis on Sickle cell disease. Department of Biochemistry, Pt. J.L.M. Medical College, Raipur. July 25, 2017.
- 2. International conference on "Frontier in Pharmaceutical Sciences and Research" organized by Columbia Institute of Pharmacy, Raipur, C.G., India, 23 rd&24th September, 2017.
- National conference of Zoological society of Chhattisgarh on "Prospects of Innovation in Life Sciences and Socio-Economic Challenges" organized by Deptt. Of Zoology, C. M. D. P.G. College, Bilaspur in collaboration of Bilaspur Vishwavidyalaya 2-3 December 2017

Workshop attended

2013-14

1. National workshop on application of remote sensing and GIS in Geology. Department of geology, Govt. NPG College of Science, Raipur, 30-31st January, 2014.

- Rusa sponsored workshop on "Quality Education " Govt. Nagarjuna P.G. College of Science, Raipur on 22rd June, 2015
- Rusa sponsored workshop on "Quality Education " Govt. Nagarjuna P.G. College of Science, Raipur on 23rd June, 2015
- 3. Rusa sponsored workshop on "Governance, Leadership &management" Govt. Nagarjuna P.G. College of Science, Raipur on 24th June, 2015
- 4. Rusa sponsored workshop on "Examination reforms" Govt. Nagarjuna P.G. College of Science, Raipur on 25th June, 2015
- 5. Rusa sponsored workshop on "Strategies development and deployment to achieve access equity and excellence in higher education system" Govt. Nagarjuna P.G. College of Science, Raipur on 26th June, 2015
- 6. Rusa sponsored workshop on "Career Guidance" Govt. Nagarjuna P.G. College of Science, Raipur on 27th June, 2015

2017-2018

 National workshop on Plagiarism and IPR: A prime concern for academia: Jointly Organized by Pt. Sunderlal Sharma Library, SoS in Library & Info. Science, Pt. Ravishankar Shukla University, Raipur (C.G.) & Govt. Nagarjuna Post graduate college, Raipur (C.G.) 02-03 June, 2018

2. DR. RENU MAHESHWARI

PUBLICATION

2014-15

1. Gupta S., **Maheshwari R.** and Ramtake A. (2015). Assessment of Chronotype, Body Mass Index and its Relation with Peak Expiratory Flow Rate. International Journal of Pharmacology and Biological Sciences, Volume: 9, No. 1&2. ISSN 0973-6808.

2015-16

2. Maheshwari R (2015). Impact of Landfill Waste on Health: An Overview. IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402, p-ISSN: 2319-2399. Volume. 1 Issue. 4, PP 17-23, Sept. 2015 www.iosrjournals.org.

3.Tandon H., Maheshwari R (2015). Avifaunal diversity of Pt. Ravishankar Shukla University Campus, Raipur (Chhattisgarh). IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399. Volume. 1 Issue 6, PP 41-44, Sept., 2015 www.iosrjournals.org

2016-17

4. Kavita Das, Renu Maheshwari and Indu Mandrik. (2017): Some behavioural observations of the Indian *Robin, Saxicoloides Fulicata*. Indian J. Sci. Res. 12 (2): 107-110, 2017 ISSN 0976-2876 (Print) ISSN: 2250-0138(Online).

2017-18

5. Renu Maheshwari, Kavita Das and Shashi Gupta (2018): Toxic waste, health issue and waste management: an overview. Ambient Science 5(sp2): online

CONFERENCES ATTENDED

2013-14

- 1. **"Role of Bioimformatics in Medicine"** Pt. Deendayal Upadhyay Centre for Genetic Disease and Molecular Biology, Department of Biochemistry, Pt. J.N. Medical College, Raipur (C.G.). 25th July, 2013
- 2. International Conference on Comparative Endocrinology and Physiology. Suraburdi Meadows, Nagpur, Maharashtra, India. 21-23 October, 2013.
- National Seminar on "Library Initiatives in Digital Era" Jointly organized by Pt. Sundarlal Sharma Library, Pt. Ravishankar Shukla University, Raipur & Govt. Nagarjuna P.G. College of Science, Raipur (C.G.). 26th-27th October 2013.

2014-15

- 4.Symposium on "Digital Medicine", Pt. Deendayal Upadhyay Centre for Genetic Disease and Molecular Biology, Dept. of Biochemistry.Pt. J.N.M. College Raipur. 25th July, 2014.
- 5.International Colloquium on Endocrinology and Physiology. Dept. of Zoology, Govt. D.B.G.P.G. Autonomous College, Raipur, (C.G.), 29 30 September, 2014.

6.National Conference on Prospects of Life Sciences for Human Welfare with Special Reference to Chhattisgarh. Jointly organized by Zoological Society of Chhattisgarh and Dept. of Zoology, V.Y.T. P.G. Autonomous College, Durg 7-8 Feburary, 2015.

2015-16

- National Symposium on "Role of Quality control in Health Care management" Pt. Deendayal Upadhyay Centre for Genetic Disease and Molecular Biology, Department of Biochemistry, Pt. J.N.M. Medical College, Raipur (C.G.). 25th July, 2015.
- 2. National Seminar on "Conservation of Plant Biodiversity: Global Issues". Dr. Radhabai Govt. Naveen Kanya College, Raipur, (C.G.). 7th August, 2015. *Abs. Publ.: Human Impact on Conservation of Plant Diversity.*
- Interdisciplinary International Seminar on "Rationalizing the utilization of available natural resources through appropriate technological intervention" Dept. of Zoology and Microbiology, Swami Shri Swaroopanand Saraswati Mahavidyalya, Hodco, Bhilai (C.G.). 22nd Sept. to 24th Sept. 2015
- National Seminar on "Enhancement Strategies in Quality Education and Research" Internal Quality Assurance Cell (IQAC), Govt. N.P.G. College of Science, Raipur, (C.G.). 27th- 28th November, 2015.
- 5. **National Conference on** "Modern Life Sciences-Perspective and Prospects" Govt. College Bhakhara, Dist. Dhamtari, (C.G.). 04-05 December, 2015.
- 6. National Conference on "Prospects in Life Sciences: Paradigm Shift in Teaching and Research in Zoological Sciences". Dept. of Zoology, Govt. N.P.G. College of Science, Raipur, (C.G.). March 02 03, 2016. Organizing Secretary/Editor of the Souvenir

2016-17-

- National Symposium on "Genetic basis of Hematological disorders with special emphasis on Sickle Cell Disease. Organized by Pt. Deendayal Upadhayay Center for Genetic Diseases & Molecular Biology, Dept. of Biochemistry, Pt. J.N.M. College Raipur on 25th & 26th July, 2016.
- 2. Interdisciplinary National Seminar on "Behavioral Impact of Animals and Microorganisms on human life and their Environment" organized by Department of Zoology, Govt. Dr. W.W. Patankar Girls' P.G. College, Durg (C.G.) on 3rd& 4th February, 2017.

3. National CME "Stem cell & it's application. Organized by Department of Anatomy, Raipur Institute of Medical Sciences, Raipur (C.G.). 12th April, 2017.

2017-18-

- National Symposium on "Quality management in laboratory investigation and haematological disorders. Organized by Pt. Deendayal Upadhayay Center for Genetic Diseases & Molecular Biology, Dept. of Biochemistry, Pt. J.N.M. College Raipur on 25th& 26th July, 2017.
- 2. 3rd National conference of Zoological Society of Chhattisgarh on "Prospects of Innovation in Life Sciences and Socio-Econoic Challages" Organized by Department of Zoology, C.M.D. Post Graduate College, Bilaspur in collaboration with Bilaspur Vishwavidyalaya. 02-03 December, 2017
- **3.**National Seminar on "Recent trends in Library Services" Jointly Organized by Pt. Sunderlal Sharma Library, SoS in Library & Info. Science, Pt. Ravishankar Shukla University, Raipur (C.G.) & Govt. Nagarjuna Post graduate college, Raipur (C.G.) 01 June, 2018
- **4.** International Colloquium on Ambient Science to Strengthen the Green Economy. Organized by National Cave Research and Protection Organization. Co-sponsored by C.G. Cost and India SERB.

Workshop attended

2014-15

Rusa Sponsored: organized by Govt. N.P.G. College of Science, Raipur.

- 1. "Quality education" 23rd June, 2015. As Co-convener & Prepared a Questioner.
- 2. "Governance, Leadership & Management". 24th June, 2015.
- 3. "Examination Reforms". 25th June, 2015.
- 4. "Strategies development and deployment to achieve access, equity and excellence in higher system". 26th June, 2015.
- 5. "Carrier Guidance". 27th June, 2015.

Workshops Participation

- 1. "Food Pesticides and Consequent Health Hazards" Dr. Radhabai Govt. Naveen Kanya College Raipur, (C.G.). 8th August, 2015.
- 2. State level workshop on "Enhancement in work efficiency of Office and Technical staff". Organized by Swami Shri Swaroopanand Saraswati Mahaviddyalya, Hudco, Bhilai from 21st to 23rd June 2016.
- 3. Capacity –Bulding Workshop on "Laboratory Techniques & Maintenance". Organized by Govt. N.P.G. College of Science, Raipur. 18th-20th November, 2016.

2016-17

- 1. Bird Watching Workshop, Organized by Bird Count India, 06.11.16
- 2. Nikon School Workshop for BASIC D-SLR. Organized by Nikon India Pvt. Ltd. on 10.12.2016.
- 3. Nikon School Workshop for PHOTO WALK, Organized by Nikon India Pvt. Ltd. on 11. 12. 2016.
- 4. National workshop on "Alternatives of dissections and animal experimentation in Zoology", Organized by Department of Zoology, Bhilai Mahila Mahavidhyalaya, Bhilai Nagar (C.G.) on 27th January to 02nd February. Abstract and (Invited talk) on, Is animal necessary for the Zoological studies? (30.01.2017) and also member of advisory committee.
- 5. Strategies and Challenges in Implementing Extension of Higher Education and Improvement in Quality of Higher Education. Organized by Govt. N.P.G. College of Science, Raipur. 20th June, 2017. Rusa Sponsored.
- 6. Road Map of Quality Enhancement. Organized by Govt. N.P.G. College of Science, Raipur. 21st June, 2017. Rusa Sponsored.
- 7. Examination Reform. Organized by Govt. N. P. G. College of Science, Raipur. 22nd June, 2017. Rusa Sponsored.
- Strategies and Challenges in Implementing Semester System and Choice based Credit (CBCS) system. Organized by Govt. N. P.G. College of Science, Raipur. 23rd June, 2017. Rusa Sponsored.
- Collection of Data, Analysis and Report Preparation. Organized by Govt. N.P.G. College of Science, Raipur. 2ndJune, 2017. Rusa Sponsored.

 National workshop on "Capacity Building in Higher Education: Use of Library resources. Organized by Govt. N.P.G. College of Science, Raipur. 27thJune, 2017. Rusa Sponsored.

2017-18

- National workshop on "Enzymology and its application (Isolation, Purification and Immbobalization of Enzymes-Amylase and Lipase"). Organized Dept. of Biotechnology and Micrbiology, Bhilai Mahila Mahavidyalaya, Bhilai 12-18 January, 2018.
 - National workshop on "Plagiarism and IPR: A Prime concern for Academia". Jointly Organized by Pt. Sunderlal Sharma Library, SoS in Library & Info. Science, Pt. Ravishankar Shukla University, Raipur (C.G.) & Govt. Nagarjuna Post graduate college, Raipur (C.G.) 02-03 June, 2018

3. DR. PREETI MISHRA

PUBLICATION

- Jurry, R., Gupta, S. and Mishra, P. (2013): Preliminary phytochemical screening of A. aspara L. Asian J. of Chem. and Environ. Res., 6(1-2), 105-110.
- Jurry, R., Gupta, S. and Mishra, P. (2013): Phytochemical screening of C.dactylon. Asian J. of Chem. and Environ. Res., 6(1-2): 17-21.
- 3. Mishra, P. and Gupta, S. (2013): Effect of leaf extract of E. alba on haematology of C. batrachus. Asian J. of Animal Science, 8(2), 73-80.
- 4. Preeti Mishra and Seema Gupta (2013): Blood booster plant and Fishes: A review. Research front Vol.III, 71-76.
- Preeti Mishra and Seema Gupta (2013): Phytochemical screening of Ecliptaalba. Asian J. of Animal Science, 8(2), 112-114.
- Mishra, P., Gupta, S. and Jurry, R. (2013): Haematopoietic effect of stem extract of E. alba on C. batrachus. Asian J. of Chem. and Environ. Res., 6: 73-79.

2014

7. Gupta, S. and Mishra, P. (2014): Effect of leaf extract of Eclipta alba on haematology of C. gariepinus (Burchell, 1852). World Journal of Pharmaceutical Research, 3(3): 4860-4870. RGJF-0.18

8. Mishra, P. and Gupta, S. (2014): Efficacy of stem extract of Eclipta alba on biochemical parameters of Clarias batrachus. Indo American Journal of Pharmaceutical Research, 4(6): 2780-2784. JF- 4.587 2231-6876

- Jurry, R., Gupta, S. and Mishra, P. (2014): Investigation of hemapoietic effect of Cynodon dactylon (L.) on Indian walking catfish, Clarias batrachus (Linnaeus, 1758). Journal of Experimental Zoology, 17(2): 519-524. ISSN -0972-0030 Nasa rating- 5.1
 - 10. Mishra, P. and Gupta, S. (2014): Haematological evaluation of Eclipta alba root extract in catfish Clarias batrachus (Linnaeus, 1758). Journal of Pharmaceutical Scientific Innovation, 3(3): 240-244. ISSN- 2277-4572
 - 11. Mishra, P. and Gupta, S. (2014): Modulatory effect of Eclipta alba on biochemical parameters of catfish, C. batrachus. World Journal of Pharmaceutical Research, 3(4): 1223-1233. 4860-4870. RGJF-0.18
 - Mishra, P., Gupta, S. and Jurry, R. (2014): Effect of Cynodon dactylon on free radical load of lymphoid organs of Clarias batrachus. World Journal of Pharmaceutical Research, 3(7): 892-906. 4860-4870. RGJF-0.18

2015

13. Mishra, P. and Gupta, (2015): Hematinic activity of *Eclipta alba* on *Clarias gariepinus* (Burchell) 1822. World Journal of Pharmaceutical Research, 4(12): 2015

2016-

- 14. Mishra, Preeti and Gupta Seema (2016): Effect of root of *Eclipta alba* on biochemical parameters of *Clarias batrachus*. World Journal of Pharmaceutical Research, 5(7): 1935-1941
- **15.** Mishra, P. and Gupta, S. (2017): Comparative effect of Eclipta alba on haematological parameters of Asian catfish *C. batrachus*. Indian J. sci.res, 12 (2):2017 ISSN :0976-2876(print), ISSN: 2250-0138(on line)

2017-

16. P. Mishra and S. Gupta (2018) Effect of *Eclipa alba* on nonspecific immune response of catfishes. Journal of Experimental Zoology, 21: (1), 483-490

CONFERENCES ATTENDED

2013-14

1. **"Role of Bioimformatics in Medicine"** Pt. Deendayal Upadhyay Centre for Genetic Disease and Molecular Biology, Department of Biochemistry, Pt. J.N. Medical College, Raipur (C.G.). 25th July, 2013

2014-15

1. International colloquium on endocrinology and Physiology. Dept. of Zoology, Govt. D. B .Girls College, Raipur, 29-30 sept 2014

2. National conference on "Prospects of life sciences for human welfare with special reference to Chhattisgarh" Deptt of Zoology, Govt. V.Y.P.T. Science College, Durg 7-8 Feb

2015 -16

1. National conference on "Recent advances in medicinal, plant research and its application in human health" Dept of Zoology, Bhilai Mahila Mahavidyalaya during 2-3rd March, 2015

2015-16-

1. National symposium on "Role of quality in the health Management on 25th July 2015, Organized by Pt. J.N.M. Medical College, Raipur

2. National seminar on "Enhancement Strategies in Quality Education and Research on. 27-28 November 2015 organized by Govt. N.P.G. College of Science, Raipur

3. National conference on " Prospects in Life Science: Paradigm shift in Teaching and Research in Zoological Science on 2-3 March 2016 organized by Dept. of Zoology, Govt. N.P.G. College of Science, Raipur

2016-17

1. National symposium on "Genetic basis of hematological disorders with special emphasis on Sickle cell disease." 25-26th July, 2016 Organized by Pt. J.N.M. Medical College, Raipur

2. Interdisciplinary National seminar on "Behavioral impact of animals and microorganisms on human life and their environment" organized by Dept. of Zoology, Govt. Dr. W.W.Patankar Girls PG College, Durg, 3-4 Feb 2017

3.National CME on "Stem cell and its application" Organized by Department of anatomy, Raipur Institute of medical sciences, Raipur CG 12 April 2017

1. National symposium on "Quality Management in laboratory investigations and hematological disorders on 25th July 2017 Organized by Pt. Deendayal Upadhyay Centre for genetic diseases and molecular biology, Dept. of Biochemistry, Pt. J.N.M. Medical College, Raipur

2. International Conference on "Frontier in Pharmaceutical Sciences and Research with the theme "Advances in development delivery system and clinical monitoring of drugs helon 23rd& 24th September 2017 organized by Columbia Institute of Pharmacy, Raipur, CG, India.

3. National conference of Zoological society of Chhattisgarh on "Prospects of Innovation in Life Sciences and Socio-Economic Challenges" organized by Deptt. Of Zoology, C. M. D. P.G. College, Bilaspur in collaboration of Bilaspur Vishwavidyalaya 2-3 December 2017.

4. National seminar on "Recent trend in library services" held at Govt. N.P. G. College of Science, Raipur on 01 June 2018.

Workshop attended (5)

2014-15

1. RUSA sponsored workshop on "Quality Education" organized on 23.6.15 by Govt. N.P.G. College of Science, Raipur

2. RUSA sponsored workshop on "Governance, Leadership & Management" organized on 24.6.15 by Govt. N.P.G. College of Science, Raipur

3. RUSA sponsored workshop on "Examination Reforms" organized on 25.6.15 by Govt. N.P.G. College of Science, Raipur

4. RUSA sponsored workshop on "Strategies & deployment to achieve access, equity and excellence in higher system" organized on 26.15 by Govt. N.P.G. College of Science, Raipur

5. RUSA sponsored workshop on "Career Guidance" organized on 27.6.15 by Govt. N.P.G. College of Science, Raipur 2015

2016-17

1. National workshop on "Alternatives of Dissections and Animal experimentation in Zoology" organized by Deptt. of zoology, Bhilai Mahila Mahavidyalaya, Bhilai, 27 Jan-2 Feb 2017

2. RUSA sponsored workshop on "Strategies and challenges in implementing semester system and choice based credit (CBCS) system" organized on 23rd June 2017 by Govt. N.P.G. College of Science, Raipur

3. RUSA sponsored workshop on "collection of data. Analysis and report preparation" organized on 24th June 2017 by Govt. N.P.G. College of Science, Raipur

4. RUSA sponsored workshop on "capacity building in higher education: use of library resources on 27th June 2017 "held at Govt. N.P.G. College of Science, Raipur

2017-18

1. National workshop on Plagiarism and IPR: A prime concern for academia: 2-3 June 2018

3. PROF. INDU MANDRIK

PUBLICATION

2016-17-

 Kavita Das, Renu Maheshwari and InduMandric (2017)Some behavioral observations of the Indian Robin *Saxicoloides fulicata*.. Indian journal of scientific research 12(2): 107-110, 2017. Issn :0976-2876(print), ISSN: 2250-0138(on line)

CONFERENCE ATTENDED

2014-15

1. National symposium on "Digital Medicine" 25.7.2014, Pt. J. N. M. Medical college Raipur.

2. International Colloquium on "Endocrinology and Physiology"; 29th -30th September, 2014, Govt. D. B. Girls' P.G. College, Raipur

2015-16

1. National symposium on "Role of quality control in Health Care Management" 25.7.2015, Pt. J.N.M. Medical college Raipur

2. National Conference on "Prospects in life sciences: Paradigm Shift in Teaching and Research in zoological science" 02-03 March, 2016; Govt. Nagarjuna P.G. College of Science, Raipur

1. National symposium on "Genetic Basis of haematological disorders with special emphasis on sickle cell disease" 25-26 July,2016; Pt. J.N.M. Medical college Raipur

2. Interdisciplinary National Seminar on "Behavioral impact of animals and microorganisms on Human life and their environment"; 3-4 Feb 2017, Govt. Dr. W. W. Patankar Girls'P.G. College, Durg

2017-18

1. National symposium on Quality management in laboratory investigations and Haematological disordes. 25th July 2017, disease 25- 26 july 2016. Pt DDU Center for genetics diseases and molecular biology, Deptt. Of Biochemistry, Pt. J.N.M. medical college, Raipur, C.G.

2. National seminar-2018, Recent trend in Library sciences.Pt. Sunderlal Sharma library and SOS in library and Info science **1 June2018-**, Pt R.S.U., Raipur(C.G.) and Govt. N.PG. college of science.

Workshop attended

2014-15

- 1. .Workshop on "Quality Education", 23-06-15, Govt. Nagarjuna P.G. College of Science, Raipur.
- Workshop on "Governance, Leadership and Management", 24-06-15, Govt.Nagarjuna P. G. College of Science, Raipur
- 3. Workshop on "Examination Reforms", 25-06-15, Govt. NagarjunaP. G. College of Science, Raipur
- 4. Workshop on "Strategies Development and deployement to achieve, access, equity and excellence in higher system", 26-06-15, Govt. Nagarjuna P. G. College of Science, Raipur
- 5. Workshop on "Career Guidance", 27-06-15, Govt. Nagarjuna P.G. College of Science, Raipur

2016-17

- 1. National workshop on "Alternatives of dissections and animal experimentation in zoology"; 27th Jan-02nd Feb, 2017; Bhilai Mahila Mahavidyalaya, Bhilai
- 2. Workshop on "Strategies and challenges in implementing extention of higher education and improvement in quality of higher education." ; 20th June, 2017, Govt N. P. G College of Science.

- 3. Workshop on "Examination Reforms"; 22nd June, 2017, Govt. N. P. G. College of Science
- 4. Workshop on "Strategies and challenges in implementing semester system and choice based credit system."; 23rd June, 2017, Govt N. P. G College of Science.
- Workshop on "Collection of data, analysis and report preparation"; 24th June, 2017, Govt. N. P. G. College of Science.
- 6. National workshop on "Capacity building in higher education : Use of library resources" ; 27th June, 2017, Govt. N. P. G. College of Science

1. National workshop on Plagiarism and IPR: A prime concern for academia: 2-3 June 2018

DR.KAVITA DAS

PUBLICATION

2015-16

- 1.Maheshwari R., Gupta S., Das K. (2015): Impact of landfill waste on health: An overview IQSR Journal of Environmental Sciences. Toxicology and food technology (IQSR. JESTFT) e-Issn: 2319-2402p-ISSN 2319-2399 pp-08-14 www.iossjournals. Sep 2015.
- Aganiwanshi, S., Ratre, M. Karanggawanker, P. Das K.(2015): Effect of constant light and dark on packed cell volume in *Clarias batracus*. IQSR journal of Environmental Sciences. Toxicology and food technology (IQSR. JESTFT) e-Issn: 2319-2402 p-ISSN 2319-2399 pp-08-14 www.iossjournals. Sep 2015.vol 1 issue 5, pp 50-53

2017-18

1. Kavita Das, Renu Maheshwari and Indu Mandrik (2017):Some behavioral observations of the Indian Robin *Saxicoloides fulicata*.. Indian journal of scientific research 12(2): 107-110, 2017. Issn :0976-2876(print), ISSN: 2250-0138(on line)

CONFERENCES ATTENDED

2014-15

- 1. Symposium on Digital medicines, Pt DDU Center for genetics diseases and molecular biology, Deptt. Of Biochemistry, Pt. J.N.M. medical college, Raipur, C.G.
- **2. International colloquium on endocrinology and** physiology 29-30 September 2014, Department of zoology Govt. D.B. girls P.G. Autonomous College , Raipur.
- 3. National CME biochemical aspects of inborn error of metabolism 17 Jan Deptt. Of Biochemistry LA M Medical college Raigarh CG
- 4. National conference on prospects of life science for human welfare with special reference to Chhattisgarh & first Chhattisgarh Congress pf ZSC. 7-8 Feb 2015 Dept of Zoology Govt. V.Y.T.P.G Autonomous College, Durg.

2015-16

- National symposium on Role of quality control in health management 25July 2015.Pt. D.D.U. Center for Genetic diseases and molecular biology, Deptt. of Biochemistry, Pt. J.N.M. Medical college, Raipur, C.G.
- **2.** Interdisciplinary **International seminar**, 22-24Sep2015 Swami Shri Swaroopa nand Saraswati Mmahavidyalaya Bhilai
- **3.** National conference on prospects in life science, paradigm shift in teaching and research in zoological sciences under ZSC 2-3 March 2016 by Deptt. Of Zoology Govt.N.P.G.College of Science, Raipur.

2016-17

- 1. National symposium on Genetic basis of haematological disorders with special emphasis on sickle cell disease 25- 26 July 2016. Pt. D.D.U. Center for genetics diseases and molecular biology, Deptt. Of Biochemistry, Pt. J.N.M. Medical college, Raipur, C.G.
- Interdisciplinary national seminar, "Behavioral impact of animal and microorganisms on human life and their environment". Deptt. Of Zoology Govt. Dr, W.W. Patenker girls P.G, college Durg.3-4-F february 2017

- **3.** National conference on "Tribal health and their nutritional status in Chhattisgarh New vistas". 20-21 January 2017. By Deptt. Of Zoology Govt. N.C.J. Arts Science and Commerce college Dali Rajhara, Dist. Balod C.G.
- **4.** National CME on stem cell and its application on 12thapril 2017. Deptt. Of Anatomy Raipur, Institute of medical sciences.(RIMS)

- National symposium on "Quality Management in laboratory investigations and hematological disorders" on 25th July 2017 Organized by Pt. Deendayal Upadhyay Centre for genetic diseases and molecular biology, Dept. of Biochemistry, Pt. J.N.M. Medical College, Raipur
- National conference of Zoological society of Chhattisgarh on "Prospects of Innovation in Life Sciences and Socio-Economic Challenges" organized by Deptt. Of Zoology, C. M. D. P.G. College, Bilaspur in collaboration of Bilaspur Vishwavidyalaya 2-3 December 2017
- **3** National seminar, on "Recent trend in Library sciences". Pt. Sunder lal Sharma library and SOS in Library and Info science, Pt R.S.U., Raipur (C.G.) and Govt. N.PG. college of Science **June2018-**.
- 4 . International Colloquium on "Ambient Science to strengthen the Green economy". National Cave research and protection organization, India.7 -10 June 2018

Workshop attended

2014-15

- 1. Bioinformatics in medical sciences. **26-31 july 2014** Dept.of Biochemistry, Pt. J.N.M. Medical College, Raipur (C.G.)
- 2. Five one day workshop of rusa 23-27 june 2015 of RUSA Govt NPG college of science . Raipur CG
- "Quality education" **23rd June, 2015.**
- Governance, Leadership & Management".24th June, 2015.
- "Examination Reforms". **25th June, 2015.**
- "Strategies development and deployment to achieve access, equity and excellence in higher system". 26th June, 2015.
- "Carrier Guidance". 27th**June, 2015.**

2016-17

1. Bird watching workshop, held on urja park, Raipur, 6.11 2016, Organized by bird count India.

- 2. Nikon school workshop for basic D-SLR on 10-12 2016.
- 3. Nikon school workshop for Photowalk 11.12. 2016.
- National workshop on Alternative of dissections and animall experimentation in Zoology. Sponsored by UGC, CRO, Bhopal By, Bhilai mahila Mahavidyalaya, Bhilai nagar. 27January 2017 to 2nd February 2017.

6 one day work shop20- 27 2017- of RUSA Govt NPG college of science . Raipur CG

1. Strategies and challenges in implement Extention of Higher education and improvement in Quality of higher education. 20th june

- 2. Road map of Quality Enhancement. 21stjune
- 3. Examination Reforms. 22ndjune-
- 4. Strategies and challenges in implementing semester system and choice based credit (CBCS) system. 23rdjune
- 5. Collection of data, analysis and report preparation. 24thjune
- 6. Capacity building in higher education: use of library resources. 27 june

2017-18

1. State level Workshop on-Science and technology for Harnessing Natural Resources towards sustainable Development.Dr. Radhabai Govt. Navin Kanya Mahavidyalaya Raipur, C.G. Poster presentation- Rain water harwesting. March 10, 2018

2. National sickle cell update and workshop- Sickle cell center Department of medicine and biochemistry, CIMS, Bilaspur In collaboration with Dr. G. bose memorial sickle care center Bilaspur (c.g). 25th march 2018

3. National workshop-2018. Plagarism and IPR: A prime concern for academia. Pt. Sunderlal Sharma library and SOS in library and Info science, Pt R.S.U., Raipur(C.G.) and Govt. N.PG. college of science. 2-3june 2018

5. DR. SHASHI GUPTA

PUBLICATION

2014-15

1.Gupta S., Maheshwari R. and Ramtake A. (2015). Assessment of Chronotype, Body Mass Index and its Relation with Peak Expiratory Flow Rate. International Journal Of Pharmacology and Biological Sciences, Volume: 9, No. 1&2. ISSN 0973-6808.

2015-16

 Shashi Gupta (2015): Impact of Landfill Waste on Health: An Overview. IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399. Volume. 1 Issue. 4, PP 17-23, Sept. 2015 www.iosrjournals.org.

CONFERENCE ATTENDED

2014-15

- 1. International Colloquium on Endocrinology and Physiology. Dept. of Zoology, Govt. D.B.G.P.G. Autonomous College, Raipur, (C.G.), 29 30 September, 2014.
- 2. National Conference on Prospects of Life Sciences for Human Welfare with Special Reference to Chhattisgarh. Jointly organized by Zoological Society of Chhattisgarh and Dept. of Zoology, V.Y.T. P.G. Autonomous College, Durg 7-8 Feburary, 2015.

2015-16

- 1. National Symposium on "Quality Control in health care management: Alternative roles" Organized by Pt. JNM Medical College, Raipur. Date 25 July, 2015.
- 2. Human Impact on conservation of Plant Diversity on "Conservation of Plant Diversity: Global Issues" organized by Dr. Radhabai Navin Kanya Mahavidyalaya. 7th August 2015
- National Seminar on Trend of voting behavior in Indian Democratic System. Organized by Minimata Girls College Baloda Bazar-Bhatapara. Date 20-21 September, 20154.4.Interdisciplinary International Seminar "Impact of Landfill waste on health, an overview". Organized by Swami Shri Swaroopananad Saraswati Mahavidyalya Hodco Bhilai, C.G. 22-24 September 2015
 - National conference of "Prospects in Life Sciences : Paradigm Shift in Teaching and Research in Zoological Sciences". Organized by Department of Zoology, Govt. Nagarjuna P.G. College of Science, Raipur (Chhattisgarh) 02-03 March 2016.

2016-17

1. National Symposium on "Genetic basis of Haematological disorders with special emphasis on Sickle Cell Disease. Organized by Pt. Deendayal Upadhayay Center for

Genetic Diseases & Molecular Biology, Dept. of Biochemistry, Pt. J.N.M. College Raipur on 25th & 26th July, 2016. Awarded by 04 Credit hours

2. National CME "Stem cell & it's application. Organized by Department of Anatomy, Raipur Institute of Medical Sciences, Raipur (C.G.). 12th April, 2017. (Chairperson for one session)

2017-18

- National symposium on "Quality Management in laboratory investigations and hematological disorders on 25th July 2017 Organized by Pt. Deendayal Upadhyay Centre for genetic diseases and molecular biology, Dept. of Biochemistry, Pt. J.N.M. Medical College, Raipur
- 2 June 2018- National seminar-2018, Recent trend in Library sciences. Pt. Sunderlal Sharma library and SOS in library and Info science, Pt R.S.U., Raipur (C.G.) and Govt. N.PG. college of science.
- 3. International Colloquium on Ambient Science to Strengthen the Green Economy. Organized by National Cave Research and Protection Organization. Co-sponsored by C.G. Cost and India SERB.

DR, PALLAVI SINHA

PUBLICATION

- Maximizing power generation from dark fermentation effluents in microbial fuel cell by selective enrichment of exoelectrogens and optimization of anodic operational parameters. Jhansi L. Varanasi, Pallavi Sinha, Debabrata Das. Biotechnology Letters (ISSN: 0141-5492) (2017).
- 2. Improvement in energy recovery by dark fermentative biohydrogen followed by biobutanol production process using obligate anaerobes Romit Mitra, G. Balachandar, Vaishali Singh,Pallavi Sinha, Debabrata Das. International Journal of Hydrogen Energy Volume 42, (2017) Impact Factor-3.548.

Annexure 3

Details of Co-Curricular activities

2013-2014

Excursion tour to Fish Farm Tirga

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हि राजीत गंधी मूळ्य गंगा का भ्रमन के महाली पालन के लरीके एवं
- इनके लाभ की जानना। यहां महली की प्रजनन, वाभ
उत्पादन सहा इनके विकास की जिमिन्न झतरहाकी के लारे
में भागा । तिष्मिन्न उह सालाती में से रोड, कतला , भाल
क्रमांगा सहार सहस्य मखलीयों के तिनिम्न कातत्याकी ज
- निर्दित कराया गया निरुद्धी पालन के तिमिन्न पहलुको
- मान महान की की दीना नरीरी रथानातरण, तालाका
में रहाानांतरुग, रघुरहाा, रखरखादा लघा इनमें होने वाली विमारिये
के वारे में बताया गया तथा मछली एम्देरियन या निरीवाठा
काशा गया। मार्गदर्शकः - रांधालक, राम्रील गांही मत्स्य गंगा हेमार खं
मागदर्शाकः - रनचालके, यात्रावा गांधा महाय निमाग
ितिसय हम
हि नया मुस्ति हेन्द्र आगर्छकरा पर व्याख्यानः - लिल्कु कुमार साह
(एम एन स्ती प्रधाम हारा)
्रिमिया प्रदेश कार्य कार्य कार्य स्वार्य स्वार्य मनीवासा हि काल विवाह रोक्वाम के प्रति आगरूहता पर स्वति राज रे
(3) जाल गया द महानम लाने (एम: एस, सी: अंतिम डारा)
गोवगाम - देसर, जिला-छमतरी एका गरे
कायक्रम रुघल - आह उठ माह तिशास्य देमार, (धमवरी)
अपिद्यति :- समस्त खात्र - हायर सेक्रिड्यी (गावीं, 12 वीं)
- प्राचार्य एवं सिहार गण - साहिउठ माठ तिव हेमार
पाहरायक गण- आह नागानून रनाव तिसातः महा व्ययपुर ए छन्छा.
करन कातरपर पर बाल विवाह एवं नेमा मुक्ति आगरकता
के गोश्टर प्राठी भारत विद्याग द्वारा विद्यालय के प्रवान
- Coll 121
प्रायोनक - C.P.E. (आगेनाइनेखान झाफ केंग्पेन फॉर
सोहाल नहीं)
पाली सास्त्र विष्ठाम
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पर्यावरण प्रयूलन के दुरुप्रधाती के पति आवाककताह - रिक्त पटेल एत पटना नेताम् (एम प्रा क्वी क्वी मार्ग) हारा त्या त्या नग क दीहिक के डाला हीने तर प्रायम के करणितान के प्रति आ मामको स्वापति स्वयाप्र याहरा र मने कि कि मेरी के दुष्प्र रिगाम के प्रति आगल्ड्सा - बिल्क कुमार साह र हम स्वो B SKI CETTERIA @ फैचुआ य्यार लगाने की तिहिए एवं इसके लाख :- लिल्फ इमार माह एवं भूपेन्द्र रगाह (एम एम पूर्व) होरा ह्या ख्यान सामाग्ला छारता क तन जाठारकता गोरमामः न्हाम-पीठ, फीला- रायपुर (हात्वात) अयिक्रम रहाला - भाग्य मान तिद्यालय स्मार पाड. जिला न्यायपुर उपरिधति :- प्राधनिङाख्य विक्षाम प्राह्यपड मण सात्र - 35 (एम. स्स. सी. - पूर्व एवं इतिम) प्राचार्य मात्र मात तिद्यालय पीठ, , माम पंचायत के पदाचिहार् गण स्वयांच, उपसरपंच हरा यंचगण प्रधा उपरिधत लगभग 150 ग्रामील अन्य आमाजिक कार्य:- नद्या मुस्ति पर मुल्लेड नाटक का प्रदर्शन (एम. एस. सी- पूर्व द्वारा) उक्ते खिलयों के वीस्टर विद्यालय के प्रहान किया जया पौछारीपठा फलदास एवं कल ताले पाँछों छा किया गया रिगंचाई तथा राषाई के विकिन्न लामाग्री मेंसे वाल्टी, फावड़ा क्रादान का तितरण प्राणी शास्त्र विमाग हारा विद्यालय को प्रसान-छिया गया। उस अतरमर पर उपल्हित सामीनी ने पर्यातरण प्रदूषण रोडने , नेशान करने लधा विधारोपठा करने का निरुचटा किया ताक्सी में नंगरण पर्यटन रहाल का ख्रमण प्राणीशास्त्र निकांग इस फिया गया । ૾ૢ૱ૢૡૺૡૺૡૺૡૡ૱૱ૡૡૡૡૡૡૡૡૡૡ Signature Page No. Date





1. Excursion tour to Tirga

Context: Field tour serves as an opportunity for exploration, discovery and original experience of animal life.

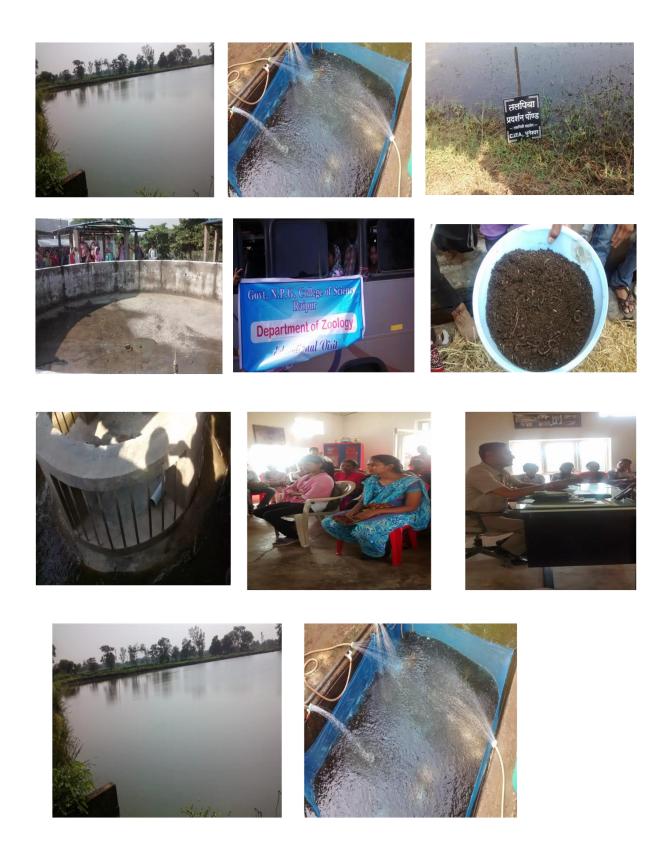
Aim: To gain the practical knowledge of the aquaculture and vermiculture in the field and aware the villagers to a number of social evils by the students.

Activity: M.Sc. students along with faculty members **Dr. Seema Gupta and Smt. Indu Mandrik** visited a **fish farm at, Tirga,** Dist. Durg on 17/10/2014 to study induced breeding, fish pond & its maintenance, identification of male & female fish and integrated farming, prawn culture and Vermiculture.

They performed Nukkad Natak against "Andh-vishwas" and also delivered lectures on different social issues like Nasha Mukti, Dahej Pratadana, Human Rights amongst the students of Govt. H.S. School of Tirga Village. Students participated in plantation with local school students.

Learning outcome -They learned about fresh water fish culture, Vermi culture, prawn culture and learn how to aware the villagers to various social evils.

Beneficiary- Approximately 46 M.Sc. Students and teaching staff and non-teaching staff



Guest Lectures:

a. Dr. A.K Pati (Professor of Bio-science, Pt. Ravi Shankar Shukla University, Raipur 492 010, India) delivered lecture (11.9.14) on "Academic output –How to Augment and measure"h-index. He stated that the *h*-index is an index that attempts to measure both

the productivity and citation impact of the published body of work of a scientist or scholar. The index is based on the set of the scientist's most cited papers and the number of citations that they have received in other publications. The index can also be applied to the productivity and impact of a scholarly journal as well as a group of scientists, such as a department or university or country. The index was suggested in 2005 by Jorge E. Hirsch, a physicist at UCSD, as a tool for determining theoretical physicists' relative quality and is sometimes called the *Hirsch index* or *Hirsch number*.

The index is based on the distribution of citations received by a given researcher's publications. Hirsch writes:

A scientist has index *h* if *h* of his/her N_p papers have at least *h* citations each, and the other $(N_p - h)$ papers have no more than *h* citations each.

In other words, a scholar with an index of h has published h papers each of which has been cited in other papers at least h times. Thus, the h-index reflects both the number of publications and the number of citations per publication. The index is designed to improve upon simpler measures such as the total number of citations or publications. The index works properly only for comparing scientists working in the same field; citation conventions differ widely among different fields.

The *h*-index serves as an alternative to more traditional journal impact factor metrics in the evaluation of the impact of the work of a particular researcher. Because only the most highly cited articles contribute to the *h*-index, its determination is a simpler process. Hirsch has demonstrated that *h* has high predictive value for whether a scientist has won honors like National Academy membership or the Nobel Prize. The *h*-index grows as citations accumulate and thus it depends on the "academic age" of a researcher.

b. Dr. V.K. Gupta(24.9.2014) delivered a lecture on Alternative to animal dissection

2015-16

Excursion Tour: Visit to Wildlife Sanctuary, Barnavapara,

Context: Study tours are important in many ways. It provides valuable educational opportunities away from the classroom, without using textbooks and other tools used in a normal course. Students will have a greater knowledge of how presently wildlife conservation and management relates to the economy and environment as well as in future.

Aim: Observed local animal and plant life in their natural habitat and learned to identify common wildlife species

Activity: M.Sc. students visited a Wildlife Sanctuary, Barnavapara, Dist. Mahasamund with teaching faculty Dr. Seema Gupta, Dr. Renu Maheshwari and Dr. Kavita Das and non-teaching staff on 05.04.2016. This sanctuary was established in 1976 under Wildlife Protection Act of 1972. The area of sanctuary is 245 sq km and is well known for its fauna and flora. This sanctuary is mainly comprised of Bamboo, Sal, Terminalia, Teak and many other varieties of trees. The rich flora supports a wide variety of wildlife. During the visit students got opportunity to interact with Ranger of Barnawapara Mr. Manoj Chandrakar and discussed about rules and regulation of forest. He explained how to identify the animals and how one shouldbehave in the Jungle. In addition he also discussed about wildlife conservation. During the visit we got opportunity to see Monkey, Bison, Neelgay (Male & Female), Deer, Bear and variety of birds like Peacock, Red vented Bulbul, Crow, Dove, Neelkanth, Sparrow etc.





. Guest lectures

a. . Dr. H.K Wardia delivered a lecture on fish culture in Chhattisgarh

Context: Fish production in the Chhattisgarh had registered a growth of more than 130 per cent over a period of a decade. With the increase in the production, Chhattisgarh had now placed in top six fish producing states in the country. "The state government encouraged the fish farming by giving numerous incentives to the fishermen and it had brought the required change..

Aim: There are numerous job opportunities in government and the private sector. Candidates can go for entrepreneurship or self-employed in their own fisheries-related business

Learning outcome: Fisheries in India is a very important economic activity and a flourishing sector with varied resources and potentials. Students learned about fish culture

Beneficiary: M.Sc. Students

b. . A lecture for NET Examination preparations was organized on 9.4.16 by Mr. Bhupendra Sahu





Guest Lectures

S.No	Date	Lecture Given By	Торіс	To Class
1.	4.10.16	Dr. A. K. Pati	Biological clock and	M.Sc. students
			Rhythm	
2.	6.10.16	Dr. Meetu Gupta	Wild life animal and Wild	
			life crime	
3.	7.11.16	Mr. Ramit Singal	Bird watching and	
			documentation	
4.	22.3.17	Dr. V. N. Mishra	Soil and water testing and	
			its concepts	

2017-2018

Guest lecturers:

a. Lecture of Dr. K.N. Bapat (Principal, Govt.N.P.G. College of Science, Raipur) on 28.7.17

Context: Leaving home and traveling to a new country can be a stressful experience, even though it may be something to have planned and prepared for. Many people are surprised when they experience the impact of culture shock, and it can be helpful to realize your

experience is actually quite normal. It includes the shock of a new environment, meeting lots of new people and learning the ways of a new country.

Aim: An overseas trip is an amazing opportunity for students to practice their language skills, especially the communicative skills of understanding and speaking and are more often than not the skills that students are generally most nervous about for end of exams. A trip to abroad gives them unique opportunity to get extensive practice.



Dr. K.N. Bapat shared his experiences about his trip to abroad

Outcome: Students got awareness on – language learning Opportunities, their culture, interaction with new friends having new ideas intended to motivation.

b. Dr. Lal Chandra delivered a lecture (Director and Professor, Deptt of Biochemistry, Maulana Azad Medical College, New Delhi) on 27.7.17. His talk was based on "Life style modification perception and belief".

Context: The positive effects of lifestyle intervention programmes might be enhanced when targeted to the health-related behavior of the users. The beliefs and attitudes regarding a healthy life style, influence on lifestyle behavioral change and the needs to support a healthy lifestyle in the local community.

Aim: Promoting healthy lifestyles

Outcome: Life-style modification based on behavior therapy is the most important and effective strategy to manage the healthy life.



Annexure 4

Extension activities done by the Department

2013-2014

Lecture given in Demar

- a. Lecture delivered on water pollution and its effect on animals
- b. Described harm of alcohol drinking and demonstration of vermicomposting in village Pond Lecture on Nasha Mukti, Baal vivaah

रिक पटिल प्रालक के कुप्रकाति के पति नावाय्वताहन पर्यावरता एम (सन पूरी अंतिम) 2.12 A dealed 611552 ala (2) JATELO 121 कि प्रति आगरकरा 3118 - बिल्ल फुलार of goulzer 2121 A. ELLESTIES SKI 101000 38 618 वानाने की तिहा छवं डर्मने A रमाह्न (एम एम पूर्व) द्वारा UNDIDAD Ph. 6121 (द्रात्वात) न्ह्राम-पीड, फिला ZIZIGX MILEETES जिला-चाराद्वर عادا معادي المحالم المحالي المحالي المحالي المحالي المحالي المحالي المحالي المحالي المحالي 913. तिद्यालय Farte 211030 710 জার্যক্তদ 2-5101 विक्षाग UTEZ RION CALLS. <u> রুবটিছানি</u> र्जी - पूर्त (XY) Pd 35 PH पदाधिक 3 क्रिंगलय पीड. 52121 TINT 1210 , HIC সাহায MIT SUPERIA 135 उपसरपंच हत ci=17101 27211-0 511710 130 नशा मुक्ति घर मुल्लेड नाटक कार्थ :-হনান্যজিত 57-21 (एम. एम. सी- पूर्व द्वारा) वीस्टर विद्यालय क प्रहान a उक्तेश्वित तिल्यो फलदार एवं कल ताले पाँही 51 8211 Sugar Suga जेहारीयग विकिन्न जामाग्ती र्जस्ते बातरी,फावड रनफाई छे रिनंचाई (131) प्राध्ति झास्त्र तिझाग विद्यालय EKT Parazor. 651 531217 प्रदान फिया STRIT ar रोडने पर्यातरण प्रदूषण 2 ग्रामांगा उपरिशत 17 अतरमर 324 निरुद्या िटा विकारीयका खरने ar 1315 करने . 1211 দাহারিচ विद्यार 13HE ਪੁਸ਼ੰਟਸ र्रात ar ने नार्यारण ताधरनी 21211 द्वारा MELT Signature Page No. Date के फायनि प्रत महिन्द्र मार्थने मार्थनेदामी कर

Nukadd Natak against "Andh-vishwas" and lectures on different social issues like Nasha Mukti, DahejPratadana, Human Rights amongst the students of Govt. H.S. School of Tirga Village

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