

### 3. Evaluative report of the Department

1. Name of the Department

Department of Zoology

2. Year of establishment

1960

3. Is the department part of a School Faculty of the University?

Yes, Department of Zoology is a part of PG School of Life Sciences and Faculty of Science

4. Name of programmes offered (UG,PG, M. Phil., Ph.D. integrated Masters: Integrated Ph.D., D.Sc., D.Litt. etc)

Department offers UG (Pass) and (Hons.) courses in Zoology at two constituent colleges of this university while PG, Ph. D. and D.Sc. programmes are offered in the Department of Zoology itself.

UG - B.Sc. (Pass) & (Hons.) Courses

PG - M.Sc. in Zoology

M. Sc. Microbiology (Self finance course)

Ph. D. Zoology

D. Sc. Zoology

5. Interdisciplinary Programmes and departments Involved

Instrumentation and Research facilities available in this department are made available to the students of other departments in the university. Some of faculty members of this department are also participating in programmes run by CCT.

6. Courses in collaboration with other Universities, industries, foreign institutions etc.

No new courses have been developed in collaboration with Universities, industries, foreign institutions during past five years.

7. Details of programmes discontinued, if any with reasons

No programme has been discontinued in past five years

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

University has adopted annual scheme for UG exams in Zoology, semester system with choice based credit system for PG exams in Zoology. Department also runs one semester Pre Ph.D. course work in Zoology.

9. Participation of the department in courses offered by other departments

In addition to assigned work load in this department, faculty members also participate in courses offered by other departments. Instrumentation & Research facilities are made available to the students of other departments in the University as and when required. Several faculty members are involved in various programs run by CCT, University of Rajasthan.

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Following is the details of faculty in this department:

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	4	-	8
Associate Professor	8	-	10
Assistant Professor	42	21	-
Others	-	-	-

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

Following is the details of faculty in this department:

Name	Designation	Qualification	Specialization	No. of years of experience	No. of Ph.D. /M.Phil. students during the last 4 years
Prof. P.K. Goyal	Professor	M.Sc., Ph.D	Radiation & Cancer Biology	32years	6
Prof. J. D. Sharma	Professor	M.Sc., Ph.D	Reproductive Physiology	28years	3
Prof. S. Sharma	Professor	M.Sc., Ph.D	Parasitology	28years	1
Prof. J. Sharma	Professor	M.Sc., Ph.D	Radiation Biology	28years	1
Prof. S.C. Joshi	Professor	M.Sc., Ph.D	Reproductive Physiology	28years	9
Prof. R. Sisodia	Professor	M.Sc., Ph.D	Radiation Biology	28years	3
Dr. R.S. Gupta	Associate Professor	M.Sc., Ph.D	Reproductive Physiology	26years	2
Dr. M. Lowry	Associate	M.Sc., Ph.D	Environmental	26years	1

	Professor		Microbial Technology		
Dr. I.P. Soni	Associate Professor	M.Sc., Ph.D	Environmental Toxicology	15years	1
Dr. A.S. Ansari	Associate Professor	M.Sc., Ph.D	Reproductive Physiology	15years	-
Dr. A. Singh	Associate Professor	M.Sc., Ph.D	Biotechnology	15years	-
Dr. S. Srivastav	Associate Professor	M.Sc., Ph.D	Reproductive Physiology	15years	-
Dr. P.J. John	Associate Professor	M.Sc., Ph.D	Environmental Toxicology	15years	1
Dr. N. Mathur	Associate Professor	M.Sc., Ph.D	Environmental Toxicology	15years	1
Dr. N. Nair	Associate Professor	M.Sc., Ph.D	Cell Biology	15years	1
Dr. P.C. Mali	Associate Professor	M.Sc., Ph.D	Reproductive Physiology	15years	1
Dr. Awasthi, Anjali	Assistant Professor	M.Sc., Ph.D	-	-	
Dr. Bano, Habiba	Assistant Professor	M.Sc., Ph.D	-	-	
Dr. Charan, Santosh Kumar	Assistant Professor	M.Sc., Ph.D	-	-	
Dr. Choudhary, Ram Dayal	Assistant Professor	M.Sc.	-	-	
Dr. Chouhan, Bharti	Assistant Professor	M.Sc., Ph.D	-	-	
Ms. Jatav, Jayanti	Assistant Professor	M.Sc.	-	-	
Ms. Jatav, Jayanti	Assistant Professor	M.Sc.	-	-	
Mr. Kachhawa, Ghanshyam	Assistant Professor	M.Sc.	-	-	
Dr. Kachhawa, Neetu	Assistant Professor	M.Sc., Ph.D	-	-	
Dr. Meena, Geeta Devi	Assistant Professor	M.Sc., Ph.D	-	-	
Mr. Meena, Geeta Devi	Assistant Professor	M.Sc., Ph.D	-	-	
Mr. Meena, Mahesh Kumar	Assistant Professor	M.Sc.	-	-	
Dr. Meena, Priyadarshi	Assistant Professor	M.Sc., Ph.D	-	-	

Ms. Meena, Pushpa	Assistant Professor	M.Sc.	-	-	
Dr. Meena, Shashi	Assistant Professor	M.Sc., Ph.D	-	-	
Mr. Nirmal Naresh Kumar	Assistant Professor	M.Sc.	-	-	
Dr. Nunia, Vandana	Assistant Professor	M.Sc., Ph.D	-	-	
Dr. Patel, DevDutt	Assistant Professor	M.Sc., Ph.D	-	-	
Ms Rajwanshi, Meenakshi	Assistant Professor	M.Sc.	-	-	
Mr. Verma, Gajraj Singh	Assistant Professor	M.Sc.	-	-	
Dr. Verma, Rajbala	Assistant Professor	M.Sc., Ph.D	-	-	
Dr. Yadav, Ritu Kamal	Assistant Profes	M.Sc., Ph.D	-	-	
Prof. N.P. Singh	Professor (Retd.)	M.Sc., Ph.D	-	-	
Prof. G.C. Jain	Professor (Retd.)	M.Sc., Ph.D	-	-	

## 12. List of Senior visiting Fellows, adjunct faculty, emeritus professor

No senior Visiting Fellows, Adjunct Faculty, Emeritus Professors visited this department during 2009 – 15. However following eminent persons visited this department during past five years:

- Dr. Jensvasiow, Senior Scientist & Group Leader Germany and Dr. Dheer Singh Senior Scientist, Molecular Endocrinology Lab., Biochemistry Division, National Dairy Research Institute, Karnal , on February , 2009
- Dr. Sanjeev Kulshreshtha, Senior Bioinformatics Engineer and Scientist, Synthetic Genomics, San Diego, CA, USA on March, 9, 2009.
- Prof. R.K. Kale, Vice Chancellor, Gujarat Central University, Ahmadabad, on March 28, 2009
- Prof. Rakesh Bohra, Emeritus Professor, Chemistry Department, Rajasthan University, Jaipur on August 26, 2009.
- Dr. Toomas Neuman Professor Tallinn Technical University Estonia on Nov. 24,2009
- Dr. Kamlesh Astra, Tobacco Related Disease Res. Prog. University of California, Oakland USA Nov 24,2009
- Dr. Indira Hinduja, Inkush IVF Center, Mumbai on Feb.8,2010
- Dr. K.C. Gupta, Director, ITRC, Lucknow on March, 2013
- Prof. Rooplal, Delhi University, Delhi, on March,2013
- Prof. Ajay Sharma, Director, NIA, Jaipur

- Emeritus Scientist having Research Projects (ICMR) after Superannuation Prof. N. K. Lohiya
- Prof. Ashok Kumar, Vice –Chancellor, CSJMU, Kanpur ,on Nov. 18, 2013
- Prof. Parvez, Head , A.M.U., Aliga January 10, 2015
- Dr. Om Sharma, Director, Clinical Research and Drug Development, Johnson and Johnson, NJ(UKA), January 13,2015
- Dr. Shobha Bhargava, Associate Professor, Department of Zoology, CAS, Savitri Bhai Phule, Pune University, Pune
- Emeritus Scientist having Research Projects (UGC) after Superannuation Prof. G.C. Jain
- Emeritus Scientist having Research Projects (UGC) after Superannuation Prof. D.P. Jaroli

13. Percentage of classes taken by temporary faculty programme-wise information

Both UG and PG classes are being engaged by regular faculty members. No workload is assigned to any temporary faculty member.

14. Programme wise student Teacher Ratio

Following are the approximate Programmes-wise Students Teacher Ratios in different courses run by department:

UG	25:1
PG	03:1
Ph. D.	04:1

15. Number of academic support staff(technical ) and administrative staff: sanctioned, filled an actual

Following is the position of ministerial, technical staff and lab bearers

	Sanctioned	Filled	Actual working
<b>Ministerial</b>			
PS	One	-	1*
UDC	Two	2	2
LDC	One	1	-
Peon	Three	-	2*
Lit. Peon	One	-	-
Chowkidar	Three	1	1+2*
Sweeper	Two	1	1
<b>Technical Staff</b>			
Technical Assistant	Five	1	1
Museum Assistant	One	-	-
Micro Technician	one	-	
Photo Artiest	One	-	-
<b>Lab. Staff</b>			
Sr. Lab. Assistant	One	-	-

Lab. Assistant	One	1	1
Lab. Bearer	Four	4	4
Farrash	One	1	1
Animal care taker	Two	1	1
Book attendant	One	-	1*
<b>Academic support (Technical) staff</b>	17	-	7
<b>Administrative staff</b>	14	-	5

16. Research thrust areas as recognized by major funding agencies

Following are the thrust areas recognized by funding agencies:

- Study of medicinal potential of certain plants with special reference to Rajasthan.
- Evaluation of toxicological effects of environmental pollutants and their screening for Bioremediation.

17. Number of faculty with ongoing projects from

(a) National

14

(b) International funding agencies

14

(c) Total grants received.

Total research funds received by faculty: **Rs 28222846/-**

Give the name of the funding agencies, Project title and grants received project-wise.

**Research Grants Received**

1. Research project - Indian Council of Medical Research, New Delhi to Prof. N. K. Lohiya & Dr. A.S Ansari on the topic “Issues of Reproductive Health with Particular Emphasis on Functional Reversal and teratogenicity of RISUG Induced Intravasal Contraception”. Project No. 5/10/13/2008-RHN dated 05.05.2009, Amount Rs. 44,22,132/-
2. Preclinical investigations on reversal methods for RISUG vas-occlusion in langur monkey. A major project sanction by (ICMR) New Delhi Project No. 5/10/FR/22/2011-RHN dated 24.11.2011/29.02.2012; Amount Sanction: Rs. 51,02,580/- From 01.01.2015 to 31.12.2017 (As a Co-Principal Investigator; PI Prof. N. K. Lohiya)
3. Ultrasound technique for male contraception in rats and rabbits. A major project sanction by UGC, New Delhi Project No. MRP-MAJOR-ZOOL-2013-3517; Amount Sanction: Rs. 12,90,000/-
4. Research project -University Grants Commission, New Delhi, to Dr. Rashmi Sisodia on the topic “Radioprotective potential of indigenous Indian Fruits against microwave radiation induced alterations in cell renewal and non- cell renewal system of mice”. Ref. No. 37-472/2009 (SR), Amount Rs. 10,90,800/-

5. Research project - University Grants Commission, New Delhi to Dr. P. C. Mali on the topic "Reversible contraceptive efficacy and safety evaluations of with anolide – A in male rats: A biochemical and ultrastructural investigation". Ref. No. F No.36-288/2008(SR) dated March 26,2009, Amount Rs 4,08,800/-
6. Research project - Department of Science and Technology, Government of Rajasthan, Jaipur to Dr. P. C. Mali on the topic "Screening of spermicidal and reversible contraceptive activities of Cassia occidentalis in male rats". Vide No. F No.P7 (3) DST / R &D /2008 / 10678-89 dt 15.12.09, Amount Rs. 1,46,800/-
7. Research project - University Grants Commission, New Delhi to Dr. Subhashini Sharma on the "Ecotoxicological studies of commercial detergents on Fresh water fish in microcosms". Ref. No. 291/304068/08-09-CRO, Amount Rs. 2,90,000/-
8. Research project -University Grants Commission, New Delhi, to Dr. P.J. John & Dr. I.P. Soni "Toxicological evaluation of silver nano particles in Swiss Albino mice". (Sanction letter No.40-410/2011(SR)dated 4.7.2011 (July 2011 to June 2014) Rs.9,98,800/-
9. Research project University Grants Commission, New Delhi, to Dr. Nupur Mathur & Dr. A. Singh "Genotoxicity evaluation of waste water discharges from hospitals in Jaipur city" (Sanction Letter No. 40-113/2011(SR) CRO Dated 04.07.2011 (as Investigator). Rs.7,50,000
10. Research project University Grants Commission, New Delhi, to Dr. P.K. Goyal, Evaluation of anti-cancer, anti-oxidative and anti-mutagenic potential of flax/ linseed oil against chemical induced skin carcinogenesis. From 1<sup>st</sup> April, 2011 – 31<sup>st</sup> March, 2014. Rs. 7,22,800/-
11. Research project- Indian Council of Medical Research, New Delhi to Dr. P.K. Goyal "Evaluation of prophylactic and therapeutic potential of green tea catechin against heavy metal induced male reproductive dysfunctions". Major Research Project sanctioned by for three years, 1<sup>st</sup> October, 2011-30<sup>th</sup> September 2014. Rs.43,01,234/-
12. Evaluation of anticancer and antioxidative potential of *Carissa carandas* (an Indian Medicinal Plant) against chemical induced skin carcinogenesis in mammals. UGC-BSR One Time Grant for two years, 23 June 2014 -22 June 2016. Rs. 7,00,000/-
13. Research project -University Grants Commission, New Delhi, to Dr. S. C. Joshi on the topic "Development of Transdermal Patches of Herbal Origin for Hypolipidemic, Antiatherosclerotic and Antioxidant Activity". Ref. No. F.32-464/2006(SR) Dated 26th April, 2007, Amount Rs. 10,17100/-)
14. Research project -University Grants Commission, New Delhi, to Dr. S. C. Joshi Major Project entitled "Studies on optimization of herbal medicine based transdermal drug delivery system for Antidiabetic activity" [F.No.42-516/2013(SR)] dated 22 March 2013, Rs. 12,60,000 /-only.
15. Research project -University Grants Commission, New Delhi, to Dr. M. Lowry "Evaluation and enhancement of petroleum hydrocarbon degradation by the bacterial population isolation from various contaminates sites and plant growth promotion by them". Rs. 8, 82,800/-

16. Research project -University Grants Commission, New Delhi, to Dr. Rajender Kaushik & Prof. N.P. Singh Development of a Mosquito Vector control and surveillance system for urban and sub urban habitants of Rajasthan and of some novel methods of Mosquitos control Rs.5,89,800/-
17. Research project – Department of Science and Technology, Jaipur to Dr. Subhashini Sharma on the “Monitoring Ground water contamination in Industrial of Sanganer town by using animal model (Fish and Swiss Albino Mice) and its mitigation at House hold level Rs.6,49,200/-
18. UGC Start Up Grant (FRPS) Vide letter No. F. 30-91/2015(BSR) dated 30 March 2015 to following faculty Members of Zoology Department, University of Rajasthan, Jaipur
- Dr. Priyadarshi Meena, Assistant Professor
  - Dr. Dev Dutt Patel, Assistant Professor
  - Dr. Neetu Kachhwaha, Assistant Professor
  - 4.Dr. Pallavi Kaushik, Assistant Professor
  - Dr. Shashi Meena, Assistant Professor
  - Dr. Santosh Charan, Assistant Professor
- Sanction amount Rs. 6, 00, 000/- each.

18. Inter-Institutional collaborative projects and associated grants received

(a) National collaboration

No inter-institutional collaborative projects have been received by the department during past five years.

(b) International collaboration

No inter-institutional collaborative projects have been received by the department during past five years.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE;DBT,ICSSR,AICTE etc; total grants received

CAS- Phase –I (2005 to 2010)	Completed
CAS-phase –II (01.4.2012 to 31.3.2017)	Total Grant Rs.140.75 lacs
DST-FIST-2012	Total Grant Rs. 80.00lacs

20. Research facility /centre with

- State recognition  
NIL
- National recognition  
Centre of Advanced Studies in Zoology (UGC- CAS) DST-
- International recognition  
NIL

21. Special research laboratories sponsored by/created by industry or corporate bodies  
NIL

22. Publications:

- \* Number of papers published in peer reviewed journals (National /international )  
305
- \* Monograph  
NIL
- \* Chapters in Books  
One
- \* Edited Books  
NIL
- \* Books with ISBN with details of publishers  
NIL
- \* Number listed in international Database(for e.g. web of Science, Scopus, Humanities, International Complete, Dare Database –International Social Sciences Directory, EBSCO host, etc.)  
Details are not available at this Department
- \* Citation , Index-range/average  
29 to 1357 (Based on Google Scholar)
- \* SNIP  
NIL
- \* SJR  
NIL
- \* Impact Factor- range  
0.06 to 6.283
- \* h-index  
Highest h-index                    19 (Based on Google Scholar)

23. Details of patents and income generated

No patent has been registered by faculty members during past five years.

24. Areas of consultancy and income generated

Faculty members are not involved in any consultancy work during past five years.

25. Faculty selected nationally/internationally to visit other laboratories/Institution/industries in India and abroad

No faculty members have visited nay National and International Research Institutes in connection with collaborative research programs during past five years.

26. Faculty serving in

Following are the details of faculty members of this department involved in:

a) National Committees

NIL

b) International Committees

NIL

c) Editorial Boards

1. Prof. P.K. Goyal

- Indian Journal of Environmental Sciences
- Journal of Cell and Tissue research
- Journal of Cancer Biology
- Journal of Integrative oncology

2. Dr. A.S. Ansari

- Asian Journal of Scientific Research
- Pakistan Journal of Biological Sciences
- International Journal of Pharmacology'
- Research Journal of Medicinal Plant
- Journal of Pharmacology and Toxicology

d) Any other

NIL

27. Faculty recharging strategies (UGC/ASC, Refresher/orientation programs, workshop, training programs and similar programs)

Faculty members are regularly attending the refresher/orientation programs organized by UGC-ASC. Some members have attended the training programs /workshops at the various national institutes. Lectures have been delivered by many faculty members in Refresher courses /orientation course/UGC extension lectures series. Following recharging programmes were arranged during 2009-14:

- Refresher Course in Environmental Challenge in New Millennium from August 2, 2010 to August 21, 2010 by Course Coordinator Dr. Rashmi Sisodia and Course Co-coordinator Dr. Jaimala Sharma
- Refresher Course in Life Sciences- Challenges and Opportunities in Life Sciences (10 December- 29 December 2012). Course Co-coordinator Sisodia, R., Sharma, S.
- Refresher course in Life Sciences (Present Scenario in Life Sciences) (Academic Staff College, Jaipur) 2013. (11.11.2013 – 30.11.2013). Co-coordinator Nair, N.
- Refresher Course in Life Science on Emerging Trends in Biosciences and Environmental Challenges, 27 October, 2014 to 15 November, 2014 Organised by Prof. S. Sharma, Coordinator.

## 28. Student Project

- Percentage of students who have done in house projects including interdepartmental project  
Nearly 20% students M.Sc. IV semester Microbiology has completed their projects in house as per the requirement of the curriculum.
- Percentage of students doing projects in collaboration with other universities /industry /institute  
Nearly 80% students of M.Sc. IV semester Microbiology has completed their projects in collaboration with other universities/industry/ institute as per the requirement of the curriculum.

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

No national or international level award was received by faculty members of this department. However following recognitions were received by various faculty members of this department:

### **Faculty**

#### ➤ **Prof. P.K. Goyal**

- Best Poster presentation award received by one of the research students Ms. Priyanka Sharma on Research paper “Modulatory influence of Phyllanthusniruri on oxidative stress, antioxidant defense and chemically induced skin tumors” during 40th Annual Conference of SNMI at Jaipur, 3-6<sup>th</sup> December, 2009.
- Best Oral presentation award received by one of the research students Ms. Ranu Choudhary on Research paper Radiomodulation of hematological alterations by Trigonellafoenumgraecum seed extract during 15<sup>th</sup> Annual conference of Association of Medical Physicists of India (Northern Chapter), Agra, Dec. 6<sup>th</sup>& 7<sup>th</sup> Feb., 2010.
- Best Poster presentation award received by one of the research students Ms. Preeti Verma on Research paper “Prevention of Benzopyrene induced gastric cancer by Syzygiumcumini extract”, presented during International Conference on Prevention Diagnosis & Treatment in Female & Child Malignancies at Bhopal, 13-14<sup>th</sup> Feb. 2010.
- Rashtriya Gaurav Award, received for meritorious services, outstanding performance and remarkable role in Radiation and Cancer research, at New Delhi on 5<sup>th</sup> March, 2010.
- Excellence Research Award, received for significant contribution in Radiation Biology & Oncology, at Chennai on 15<sup>th</sup> Nov. 2010 during International Conference on Radiation Biology: Nanotechnology, Imaging and Stem Cell Research in Radiation Oncology.
- Life Time Achievement Award, received for outstanding contribution in Radiation & Cancer research, at Bikaner on 24<sup>th</sup> Jan. 2012, during International Conference on Emerging Frontiers &Challenges in Radiation Biology.

- **Dr. R.P Goyal**
  - Best poster award: - Gold medal - Toxic impact of sunset yellow on estrous cycle of female mice, *Mus musculus*. G. Sharma, A. Dixit, R. P. Goyal and D. Gautam.(2010)
- **Prof. S.C. Joshi**
  - Honoured by Vice-Chancellor, University of Rajasthan, Jaipur for Contribution in Research based on H – Index on Republic Day, 2009.
  - Bharat Jyoti Award by India International Friendship Society, New Delhi (Feb. 9, 2013)
  - Rajiv Gandhi Excellence Award by India International Friendship Society, New Delhi (Aug. 24, 2013)
  - Green Globe Award - 2014 by International Society for Biodiversity and Conservation, Bareilly (March 3, 2014)
- **Prof. A. Kumar**
  - Awarded Research Excellence Award by University of Rajasthan, Jaipur, Jan.26,2009
- **Prof. M.Kumar**
  - Awarded Best poster presentation in International Conference on “Advances in Free Radical Research: Natural Products, Antioxidants and Radioprotectors and ‘Eighth Annual Meeting of the Society of Free Radical Research-India’ held at C.S.M. Medical University, Lucknow, India & Era’s Lucknow Medical College, Lucknow, India from March 19-21, 2009. (Ambika Sharma and Madhu Kumar).
  - Awarded 2<sup>nd</sup> best oral presentation: The Third International Conference on Natural Products for Health Beauty held at Bangkok, Thailand. ( 16-18 March 2011)
- **Prof. N.Nair**
  - Best Poster Presentation Award/Certificate of Appreciation –Endemic Skeletal Fluorosis: A Burning Issue, UGC sponsored National Conference on Fluoride, Fluorosis and Mitigation, University Maharani’s College, University of Rajasthan, Jaipur 24<sup>th</sup> -26<sup>th</sup> February,2010.
- **Prof. J.D. Sharma**
  - Awarded Shiksha Vibhushan Samman 2009 on Teacher’s day, 5.9.09 by Rajasthan Yuva Sansthan, Jaipur
- **Dr. Ansari, A.S.**
  - Labhsetwar Award of the Drs. Anant and Lata Labhsetwar Charitable Trust, Nagpur and Labhsetwar Foundation, USA at the Indian Veterinary Research Institute, Izatnagar (Barielly) on February 6, 2014.

#### **Doctoral / Post-doctoral fellows**

- **Ambika Sharma**
  - Best Poster Award: International Conference on “Advances in Free Radical Research: Natural Products, Antioxidants and Radioprotectors and ‘held at C.S.M. Medical University, Lucknow
- **Dr. Shipra Goyal,**

- Prof. G. P. Talwar Young Scientist Award: University of Rajasthan, Jaipur in recognition of her outstanding contributions in the field of Reproductive Health The award conferred during the International Conference on Repromics-Omics in Reproduction and Development & 23<sup>rd</sup> Annual Meeting of the ISSRF February 7-9, 2013

### **Research Scholar**

- Best Poster Award: Ms. Priyanka Sharma “Modulatory influence of Phyllanthusniruri on oxidative stress, antioxidant defense and chemically induced skin tumors” during 40th Annual Conference of SNMI at Jaipur, 3-6<sup>th</sup> December, 2009.
- Best Oral Award: Ms. Ranu Choudhary, Radio modulation of hematological alterations by Trigonellafoenumgraecum seed extract during 15<sup>th</sup> Annual conference of Association of Medical Physicists of India (Northern Chapter), Agra, Dec. 6<sup>th</sup>& 7<sup>th</sup> Feb., 2010.
- Best Poster Award: Ms. Preeti Verma “Prevention of Benzopyrene induced gastric cancer by Syzygiumcumini extract”, International Conference on Prevention Diagnosis & Treatment in Female & Child Malignancies at Bhopal, 13-14<sup>th</sup> Feb. 2010.
- Best Poster Award: Gold medal -G. Sharma, A. Dixit, and D. Gautam : Toxic impact of sunset yellow on estrous cycle of female mice, Musmusculus.(2010) 90.
- Best Poster Award: Endemic Skeletal Fluorosis : A Burning Issue , Neena Nair, Deepa Kumari, Sangeeta Jaoshi, Manoj Kumar Singh - UGC sponsored National Conference on F;iprode, Fluorosis and Mitigation, University Maharani’s College, University of Rajasthan, Jaipur 24-26 February,2010
- Best Poster Award: Ms. Rajbala Verma, National Seminar on “Role of Toxicants in Environmental Pollution: Causes, Effects and Control”, February 3-4, 2010. Department of Zoology, Vedic Kanya PG College, Raja Park, Jaipur.
- Young Clinic Investigator Award 2011 - Dr. Rajnesh Gupta,, China
- Best Oral Award : Dr. Shipra Goyal -International Conference on Reproductive Health with emphasis on strategic for Family Planning (ISSRF) held at Indian Council of Medical Research New Delhi, February 19-21,2012
- Best Poster Award: Mr. Imtiyaz Alam- International Conference on Reproductive Health with Emphasis on Strategies for Family Planning (ISSRF) held at the ICMR, New Delhi February -19-21,2012
- Dr. K. R. Bhardwaj Young Scientist Award : Mr. Mubarik Hussain, on poster entitled “A long-term study on the RISUG induced contraception and its functional reversal by DMSO and NaHCO<sub>3</sub> in rats”
- Best oral presentation award: Mr. Ishwar Singh at National Conference on Effect of Radiation on Human Race: Precautionary in future (NCERHRPF), Sriganganagar, 1<sup>st</sup>& 2<sup>nd</sup> March, 2013.

- Best Poster presentation award: Ms. Tanuja Jain , Sanjay Singh, Anurag Tater at National Conference on Effect of Radiation on Human Race: Precautionary in future (NCERHRPF), Sriganganagar, 1<sup>st</sup>& 2<sup>nd</sup> March, 2013.
- Consolation prize Poster presentation: Aagosh Verma, National Conference on Bioremediation of various types of agricultural lignocellulosic waste through mushroom cultivation , Department of Zoology, University of Rajasthan, Jaipur
- Consolation prize Poster presentation: Ritu Chauhan & Kailash C. Saini Nation Conference on Spider as an efficient bio-control tool for pest population, Department of Zoology, University of Rajasthan, Jaipur
- First Prize for Best Poster Presentation received by Ms. Kiran Sevliya at National Seminar on Reproductive Health Awareness (RHA-2014) held at the Department of Zoology, The IIS University, Jaipur, September 12-13, 2014.
- Third Prize for Best Poster Presentation received by Ms. Pallavee Yadav at National Seminar on Reproductive Health Awareness (RHA-2014) held at the Department of Zoology, The IIS University, Jaipur, September 12-13, 2014.
- First Prize for Best Poster Presentation received by Ms. Kiran Sevliya at Symposium on AIDS: Awareness, Prevention and Challenges held at the Departments of Zoology, University of Rajasthan, Jaipur, December 1, 2014.
- Best Poster Presentation Award received by Tanuja Jain at National Conference on Mobile Phones and Electromagnetic Pollution Hazards: Challenges and Solutions (NCMER), Jaipur 20-21 December 2013.
- Best Poster Presentation Award received by Sanjay Singh at National Conference on Mobile Phones and Electromagnetic Pollution Hazards: Challenges and Solutions (NCMER), Jaipur 20-21 December 2013.
- Best Oral Presentation Award received by Priyanka Sharma at National Conference on Mobile Phones and Electromagnetic Pollution Hazards: Challenges and Solutions (NCMER), Jaipur 20-21 December 2013.
- Best Poster Presentation Award received by Jyoti Sharma at International Conference on Radiation Biology “Frontier in Radiobiology: Immunomodulation, countermeasures and therapeutics” at Institute of Nuclear Medicine and Allied Sciences, New Delhi, 11<sup>th</sup> -13<sup>th</sup> November 2014.
- Young Scientist Award for Best Oral Presentation Award received by Ritu Singh at International Conference on Radiation Biology “Frontier in Radiobiology: Immunomodulation, Countermeasures and Therapeutics” at Institute of Nuclear Medicine and Allied Sciences, New Delhi, 11<sup>th</sup> -13<sup>th</sup> November 2014.
- Best Poster award received by Utkarsh Kaushik in Symposium on AIDS: Awareness, Prevention and Challenges organized by Centre for Advanced Studies, University of Rajasthan, Jaipur, Jaipur, December 1, 2014.
- Best poster prize received by Aagosh Verma on the topic “Bioremediation of various types of Agriculture Lignocellulosic Waste through Mashroom cultivation” in National Conference on application of natural products for human health and

bioremediation of pollutants conducted by Department of Zoology on March 22-23, 2013.

- Second position in oral presentation received by Suchitra Sharma on the topic “Environment Impact assessment of mining procedures” in 35<sup>th</sup> Annual day International Seminar on “Advances in Mining and Beneficiation of Non-Ferrous Mineral industries” conducted by Indian Institute of Metals Khetri Nagar Chapter on January 17, 2015.
- Best Oral Presentation Award to Faiza Rifat at National Conference on Mobile Phones and Electromagnetic Pollution Hazards: Challenges and Solutions (NCMER), Jaipur 20-21 December 2013.
- Best Poster Award received by Diksha Bhatt, National symposium on AIDS: Awareness, Prevention and Challenges, Organized by Centre for Advanced Studies, Department of Zoology, University of Rajasthan, Jaipur, India on December 1, 2014. Phylogeny and host-specific adaptation of HIV.

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

Following conferences / seminars / workshops were organized by the department during 2009-15. These are:

- International Conference on Reproductive Health & 20<sup>th</sup> Annual Meeting of the Indian Society for the study of Reproduction & Fertility, February 8-10, 2010; Organizing Secretary – Dr. S.C. Joshi and Dr. A.S. Ansari
- International Conference on Multidisciplinary Approaches to Diabetes Research & Health, November 14- 16, 2010; Organizing Secretary -Dr. Hemant Pareek, Dr. Madhu Kumar and Dr.P.J. John
- XIX International Conference for Fluoride Research, December 2-5, 2010; Organizing Secretary –Dr. J. D.Sharma
- International Conference on Cancer Prevention, Diagnosis & Treatment (ICCPDT-2012) Jan.21-22, 2012 Organizing Secretary – Prof. P.K. Goyal
- National conference on AIDS: Current scenario and future challenges. University of Rajasthan, Jaipur, Dec. 1-3 2011 ; Organizing Secretary- by Dr. Rashmi Sisodia & Dr. A.S. Ansari
- “National Conference on Use of Animals and Alternatives in Biomedical Research with Emphasis on Drug Development (NUAAB-2012)” held at the Department of Zoology, University of Rajasthan, Jaipur, December 14-16, 2012. ; Organizing Secretary- Dr. A.S. Ansari
- “National conference of Applications of Natural Products for Human Health & Bioremediation of Pollutants” held at Department of Zoology, University of Rajasthan, Jaipur on 22-23, March 2013. Organizing Secretary- Dr. R.S. Gupta & Dr. (Mrs.) I.P. Soni.

- National Seminar on Reproductive Health Awareness (RHA-2014) held at the Department of Zoology, The IIS University, Jaipur, and September 12-13, 2014. As an Organizing Secretary- Ansari, A.S.
- Symposium on “AIDS : Awareness ,Prevention Challenges”,Dec.1,2014 organized by Department of Zoology, Center For Advanced Studies, University of Rajasthan, Jaipur. Organizing - Sisodia, R. and Joint Secretary Srivastava, S.
- Workshop conducted: National Workshop on Application of Computational Tools in Medicine and Biology (NWMB 2015), 24th January, 2015. Department of Zoology, Center for Advanced Studies, University of Rajasthan, Jaipur Organizing - Nair, N.and Srivastava, S.
- National Workshop on Biomedical Instruments and Technologie (NWBIT- 2015) organized by Department of Zoology, University of Rajasthan, Jaipur on 13-14, March, 2015 Organizing - Mali, P.C.

31. Code of ethics for research followed by the departments.

- Code of conducted for research are followed as per UGC and University of Rajasthan norms.
- Institutional ethical committee in accordance with guidelines of CPCSEA: Registration No. 1678/GO/a/12/CPCSEA

32. Students profile programme wise

Following is the programme wise student profile:

Name of the programme	Applications received	Selected		Pass parentage	
		Male	Female	Male	Female
<b>M.Sc. (Zoology)</b>					
M.Sc. (Zoology) 2009-2010 (Prev. & Final)	Through JET	26	30	100%	100%
M.Sc. (Zoology) 2010-2011 (Prev. & Final)	Through JET	23	30	100%	100%
M.Sc. (Zoology) 2011-2012 (Prev. & Final)	Centralized admission	30	26	100%	100%
M.Sc. (Zoology) 2012-2013 (Prev. & Final)	Centralized admission	17	31	100%	100%
M.Sc. (Zoology) 2013-2014 (Prev. & Final)	Centralized admission	13	35	100%	100%
M.Sc. (Zoology) 2014-2015 (Prev. & Final)	Centralized admission	16	41	100%	100%
<b>M.Sc. (Microbiology)</b>					
M.Sc. (Microbiology) 2009-2010 (Prev. & Final) (Self finance course)	Through JET	18	40	100%	100%

M.Sc. (Microbiology) 2010-2011 (Prev. & Final) (Self finance course)	Through JET	30	33	100%	100%
M.Sc. (Microbiology) 2011-2012 (Prev. & Final) (Self finance course)	Centralized admission	30	30	100%	100%
M.Sc. (Microbiology) 2012-2013 (Prev. & Final) (Self finance course)	Centralized admission	18	20	100%	100%
M.Sc. (Microbiology) 2013-2014 (Prev. & Final) (Self finance course)	Centralized admission	15	11	100%	100%
M.Sc. (Zoology) 2014-2015 (Prev. & Final)	Centralized admission	09	15	100%	100%

### 33. Diversity of Students

Following is the diversity of students:

Name of the programme	% of student from the same university	% of student from other universities within the state	% of student from universities outside the state	% of student from other countries
<b>M.Sc. Zoology</b>				
2014-15	85.7	14.3	-	Nil
2013-14	93%	4%	3%	Nil
2012-13	93	7%	-	Nil
<b>M.Sc. (Microbiology) Self finance course</b>				
2009-2010	86%	14%	8%	Nil
2010-2011	50%	46%	4%	Nil
2011-2012	56%	44%	-	-
2012-2013	69%	31%	-	-
2013-2014	93%	7%	-	-
2014-2015	100%	-	-	-

### 34. How many students have cleared Civil Services and Defense Service examination, NET, SET, GATE and other competitive examinations? Give details category –wise.

NET /SET Qualified students

As per available information in the department, following are the details of students have cleared different competitive examinations

UGC NET - 22 (2009-2013)

- **Administrative Services**
- Mr. Ashok Yogi, RAS
- Ms. Aditi, RPS,
- Ms. Pooja Sharma, RAS

- Mr. Om Prakash Saini, RAS
- Mrs. Priyanka Meena, RAS
- Mrs. Sudeep Kaur, IFS
- **College through RPSC**
  1. Dr. P.D. Meena, Govt. College, Tonk
  2. Dr. Mahesh Meena, Govt. College, Sikar
  3. Dr. Shashi Meena, Govt. College, Sikar
- **Research Students Visited Abroad**
  1. Dr. K.V. Sharma – South Africa-2010
  2. Dr. Alka Chouhan- Germany -2011
  3. Mr. Manish Soni, Canada- 2012
  4. Dr. Rajnish Gupta, China- 2011
- **Other Universities/ Same University**
  1. Dr. Abhishek Vashisht, Assistant Professor, MGS University, Bikaner
  2. Dr. Geeta Chaudhary, Dr. B.R. Ambedkar P.G. College, Mumbai
  3. Mr. Naresh Kumar Nirmal, Assistant Professor, Department of Zoology, UOR, Jaipur.
  4. Dr. Shashi Meena , Assistant Professor, Department of Zoology, UOR, Jaipur
  5. Dr. P.D. Meena, Assistant Professor, Department of Zoology, UOR, Jaipur
  6. Mr. Mahesh Meena, Assistant Professor, Department of Zoology, UOR,, Jaipur
  7. Dr. Rajbala Verma, Assistant Professor, Department of Zoology, UOR, Jaipur
  8. Dr. Ritu Kamal Yadav, Assistant Professor, Department of Zoology, UOR, Jaipur.
  9. Dr. Manoj Kumar Singh – Lecturer , Lucknow
  10. Ms. Kalpana Sharma Assistant Professor at Agrawal, P. G. College, Jaipur.
  11. Ms. Archana Yadav , Govt College, Kochi
  12. Nirmala Yadav, MJRP Jaipur
  13. Dr. Muktika Assistant Professor, Tagore PG College, Jaipur
- **Placement in different fields**
  1. Mr. Narain Bhoot- JSO, State Pollution control, Jaipur
  2. Ms. Sandhya Kothari, Patient Designer officer, Chennai
  3. Ms. Nidhi Jain, Forensic Science Lab, Jaipur
  4. Dr. Ajeet Kumar- Assistant Professor, MDS, University Rohatak
  5. Dr. Anju Sharma, PDF, ISER, Pune
  6. Dr. Kanti Prakash Sharma, Assistant Professor, Laxamangarh, Modi College, Laxamangarh
  7. Dr. Neha Sharma , Clinical Research, UK
  8. Dr. Ambica Prasad Jangid, District Epidemiologist, Sikar
  9. Dr. Manoj Garg, PDF, Singapore
  10. Dr. Hemant Kumar Vyas, PDF, USA
  11. Dr. R.M. Samarth, Assistant Professor, I CMR, Bhopal
  12. Dr. Ambika Sharma, PDF, Japan
  13. Dr. K.V. Sharma- PDF, South Africa
  14. Mr. Deepender Yadav- FCI, India

15. Ms. Divya Mathur- FCI, India
16. Ms. Sakshi Dhingra- FCI, India(Bikaner)
17. Ms. SeemaYadav- Kendriya Vidhyalay Sanghatan
18. Ms. Manish Meen – Bank PO, SBI, India
19. Ms. Tripti Dixit- Microbiologist, EHCC, Jaipur
20. Dr. Mubarik Hussain, Veterinary Type Culture Collection (VTCC)National Research Centre on Equines, Sirsa Road, Hisar-125 001 (Haryana) India
21. Dr. Sadi Rehan Khan, CEG Test House and Research Centre Pvt. Ltd., B-11 (G), Malviya Industrial Area, Jaipur – 302017, India
22. Dr. Shiram Dhakad, Working as PDF at AIIIMS, New Delhi
23. Dr. Ashish Ranjan Singh, Working as JTA (Biofuels Division), Ministry of New and Renewable Energy, GOI Block No. 14, CGO Complex, Lodi Road, New Delhi

35. Student progression

Following is the student's progression:

Student progression	Percentage against enrolled
UG to PG	30%
PG to M.Phil.	-
PG. to Ph.D	60%
Ph.D. to Post Doctoral	-
Employed	
• Campus Selection	-
• Other than campus recruitment	30
Entrepreneurs	

36. Diversity of staff

Following is the diversity of staff:

Percentage of faculty who are graduates	
Of the same University	23 (58.9%)
From other Universities with in state	8 (20.5%)
From universities from other states	8 (20.5%)
From university outside the country	-
Entrepreneurs	-

37. Number of faculty who were awarded M. Phil., Ph.D. D.Sc. and D. Litt. During the assessment period

No faculty members was awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

38. Present details of departmental infrastructural facilities with regard to

- a) Library  
The Department has its own Department Library which houses nearly 6000 books and 15 online Journals
- b) Internet facilities for staff and students  
Wi-Fi and LAN facilities are provided to all faculty members, research scholars and PG students through University INFONET centre.
- a) Total Numbers of class rooms  
Department has 10 class rooms.
- b) Class rooms with ICT facility  
Department has 01 class rooms with ICT faculty
- c) Students Laboratories  
Department has nine students laboratories for PG students
- c) Research Laboratories  
Department has 17 research laboratories 17 including individual Research labs of faculty members. Department also has common research facilities in Central Lab. Tissue Culture lab., HPLC lab. and AAS lab.

39. List of doctoral, Post doctoral students and Research Associates

Following are the details of doctoral, post-doctoral students and research Associates for department of Zoology

**Post Doctoral**

- Dr. (Ms.) Shweta Sharma
- Dr. Chaturbhuj Mudotiya
- Dr. Farah Syed
- Dr. Ambika Sharma
- Dr. Vinod Kumari
- Dr. Anjali Mathur
- Dr. Deepa Kumari

**Research Associate**

- Dr. (Mrs.) Shipra Goyal
- Dr. Chandra Shekhar Yadav
- Dr. Rajnish Gupta

**Doctoral**

- Ms. Alka Chauhan
- Mrs. Sonalika Kushwaha
- Ms. Anju Mutreja
- Ms. Princy Shakeet
- Ms. Sangeeta Joshi
- Mr. Manoj Kumar
- Ms. Anjana Kuldeep
- Ms Shivi Saini

- Ms. Ranu Chaudhary
- Ms. Geeta Chaudhary
- Ms. Uma Gupta
- Ms. Swafiya Jahan
- Ms. Priyanka Sharma
- Ms. Priyanka Sharma
- Ms. Jyoti Parmar
- Ms. Preeti Verma
- Ms. Annapurna Agrawal
- Ms. Geetanjali Chakravaty
- Ms. Dolly Gautam
- Ms. Gunjan Sharma
- Ms. HemaRehwani
- Mr. Dharmendra Singh
- Ms. Amita Sharma
- Mr. Rajnish Gupta
- Ms. Poonam Saxena
- Mr. Sameer Sharma
- Ms. Deepa Kumari
- Mr. Balvant Singh Khajja
- Ms. Nidhi Mathur
- Ms. Geeta Pandey
- Mr. Nitin Vyas
- Ms. Priyanka Yadav
- Ms. Anju Sharma
- Mr. Kanti Prakash Sharma
- Mr. Ambica Prasad Jangid
- Mr. Narain Bhoot
- Ms. Priya Tibrewal
- Ms. Kusum Jain
- Ms. Bhawna Bansal
- Mr. Babu Lal Mehra
- Mr. Gopal Lal
- Mr. Amit Khandelwal
- Ms. Sudeep Kaur
- Mr. Nakul Leshwar Dut Jasuja
- Mr. Gaurav Sharma
- Ms. Preeti Sharma
- Ms. Nidhi Sharma
- Mrs. Poonam Saini
- Ms. Savitri Poonia

- Mr. Manish Kumar
- Ms. Priya Bhardwaj:
- Mr. Aditya Kochar:
- Ms. Jinu Paul
- Ms. Prerna Johari
- Ms. Depali Sharma
- Mr. Shreemoe Chatterjee
- Mr. Priyadarshi Meena
- Mr. Om Prakash Saini
- Ms. Lavina Soni
- Ms. Anita Nareda
- Ms. Radhika Sharma
- Ms. Priyanka Arya
- Mr. Sunil Kumar Sharma
- Ms. Garima Sharma
- Ms. Deepti Dashora
- Ms. Vishavjeet Khairwal
- Dr. Pankaj Kumar Jain
- Mr. Shivram Dhakad
- Mr. Rajesh Chaudhary
- Mr. Ashish Ranjan Singh
- Miss Shivi Saini
- Ms. Pinky Agrawal
- Ms. Deepika Sohu
- Ms. Parul Jain
- Ms. Mamta Solanki
- Ms. Deepmala Solanki
- Mr. Pramod Kumar Sharma
- Ms. Aditi Pareek
- Ms. Shweta Singh
- Miss Sunita Bedwal
- Ms. Shashi Meena
- Mr. Dinesh Singh Senger
- Ms. Kalpana Sharma
- Ms. Nivedita Yadav
- Ms. Arti Sharma
- Mr. Krishna Vishnu Sharma
- Ms. Garima Sharma
- Ms. RajbalaVerma
- Mr. Sadi Rehan Khan
- Mr. Mubarik Hussain

- Mr. Sumit Agarwal
- Ms. Jyoti Parmar
- Ms. Alka
- Mr. Narain Bhoot
- Mr. Kumud Kant Awasthi
- Mr. Gaurav Sharma
- Ms. Aksha Sharma
- Ms. Geeta Singh
- Mr. Ashish Ranjan Singh
- Ms. Samiya Khan
- Mr. Anoop Paliwal
- Ms. Shivi Saini
- Ms Kapila Sengar
- Miss Anjana Kuldeep
- Ms. Priyanka Dhakar
- Ms. Archana Yadav
- Ms. Kalpana Sharma
- Ms. Nivedita Yadav
- Mr. Nirmala Yadav
- Ms. Ritu Chauhan
- Mr.Dinesh Singh Senger
- Ms. Garima Sharma
- Mr. Sanjay Kumar
- Ms. Rajbala Verma
- Ms. Manpreet Kour

40. Number of post graduate student getting financial assistance from the university

Following seven PG students are getting financial support from IPLS project

- Ms. Shika Saini
- Ms. Pooja
- Ms. Anita
- Ms. Kshama Jain
- Ms. SakshiDhingra
- Ms. KiramBhagour
- Ms.Maithili Agarwal

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, considering the need of revision of syllabus, revision of syllabus of UG and PG courses was undertaken during 2013-14. Suggestions were invited from the faculty members and on this basis annual scheme syllabus was revised into credit based semester system. New topics

were introduced as per the advancement in subject area and syllabus of NET in both theory and practical.

42. Does the department obtain feedback from

a. Faculty of curriculum as well as teaching learning evaluation? If yes how does the department utilize the feedback?

Yes, feedback from faculty is obtained through “Brain storming meeting on the revision of curriculum” conducted by the department. The revised syllabus was later approved by BOS and academic council and was implemented from session 2014-15.

b. Students on staff, curriculum and teaching learning evaluation and how does the department utilize the feedback?

Yes, department takes informal feedback from students through personal discussion with students and utilizes it in reforming the syllabus and other activities of the department.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Department has “Alumni Association” which provides suggestions on various issues time to time.

43. List the distinguished alumni of the department

Following are few distinguished alumni of the department

- Prof. P.N. Srivastava, Ex-Vice chancellor of Jawaharlal Nehru University, New Delhi,
- Prof. A. S. Kapoor, Ex-Vice Chancellor University of Rajasthan
- Prof. N. K. Lohiya, FNASc, FAMS, FIAES–UGC Career Awardee
- Prof. Ashok Kumar, Humboldt Fellow, Vice Chancellor, CSJMU, Kanpur, DDU Gorakhpur, UP
- Dr. Vinod Mathur, FRI, Dehradun
- Dr. Dilip Shivpuri, ITO
- Dr. Santosh Charles, IAS, Govt. Of Rajasthan, Jaipur
- Dr. T.C. Anand Kumar, AIIMS
- Dr. R.S. Sharma, Dy. Director General, ICMR
- Dr. P.D. Gupta, Additional Director, CCMB, Hyderabad

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

Following student enrichment programmes are undertaken by Department:

- Dr. Jensvasiow, Senior Scientist & Group Leader Germany and Dr. Dheer Singh Senior Scientist, Molecular Endocrinology Lab., Biochemistry Division National Dairy Research Institute, Karnal, On February, 2009
- Dr. Sanjeev Kulshreshtha, Senior Bioinformatics Engineer and Scientist, Synthetic Genomics, San Diego, CA, USA on March 9, 2009.

- Prof. R.K. Kale , Vice Chancellor , Gujarat Central University , Ahmadabad, on march 28, 2009
- Prof. Rakesh Bohra Emeritus Professor, Chemistry Department, Rajasthan University, Jaipur on August 26, 2009.
- Dr. Toomas Neuman Professor Tallinn Technical University Estonia on Nov. 24,2009
- Dr. Kamlesh Astra, Tobacco Related Disease Res. Prog. University of California, Oakland USA Nov. 24,2009
- Dr. Indira Hinduja, Inkush IVF Centre, Mumbai Feb. 8,2010
- Dr. K.C. Gupta, Director , ITRC, Lucknow, March, 2013
- Prof. Roolplal, Delhi University, Delhi , March ,2013
- Prof. Ajay Sharma, Director, NIA, Jaipur
- Prof. Ashok Kumar, Vice –Chancellor, CSJMU, Kanpur ,on Nov. 18, 2013
- Dr. Sunil Kumar, Scientist G, NIOH- Ahmadabad on 21.11.2014, Topic- Issues related to occupation health life style, environment and reproductive health.
- Prof. Parvez, Head, A.M.U., Aliga January 10, 2015, Topic-Salinity Challenges od diverse aquatic environment: A catfish models.
- Dr. Om Sharma, Director, Clinical Research and Drug Development, Johnson and Johnson, NJ (UKA), January 13, 2015 Topic – Drug Development in Diabetes.
- Prof. P.K. Goyal, Head , Department of Zoology, University of Rajasthan, Jaipur on 4<sup>th</sup> Feb., 2015 Topic – Cancer: Awareness, Risk factors, Prevention & Treatment.
- Dr. Shobha Bhargava, Associate Professor, Department of Zoology, CAS, Savitri Bhai Phule , Pune University, Pune on 12 Feb., 2015Topic – Techniques related to immunohisto chemical localization of peptides in different tissues. On 13 Feb., 2015 Topic – Role of Neutrotropins & growth factors in the pattern formation during early development of chick embryo.
- Prof. A. K. Shukla, Head of the Department, Department of Nuclear Medicine, SGPGIMS, Lucknow on 21<sup>st</sup> Feb., 2015 Topic- Recent Advances in Radiological Procedures in Diagnosis and Treatment.
- Dr Suresh Single, Principal Scientist, Animal Biotechnology Centre, Karnal Haryana on 9<sup>th</sup> May, 2015 Topic – Cloning for production of Buffaloes for better productivity. A revolutionary contribution in the field of animal biotechnology.

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

Faculty members normally adopt blackboard teaching method during their class room teaching. Several times they also apply power point presentation for better understanding. Allotment of home assignments to students is also a regular practice. Department also organizes tutorials, student seminars and group discussions for the benefit of students. In house Projects and mentoring program involving faculty of the department are the other methods adopted by faculty members for evaluating students' performance. Department also organizes field visits for PG students.

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

Objectives of the programmes are monitored by continuous evaluation and internal assessment in addition to the assessment of the performance of students in End- semester exams. Seminars and Viva-Voce exams on completion of project work.

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

Students regularly participate in the NSS and NCC activities at UG level, organizes cultural programs, sports activities at the Department and University level and participates in competitions organizes by other institutions. Students also participate in Excursion Tours & Environmental & insect collection organized by the department.

48. Give details of “beyond syllabus scholarly activities” of the department.

Student participates in various workshops, training programs symposia, workshop & conferences organized by the Department and other institutes.

49. State whether the programme/ department is accredited /graded by other agencies? If yes give details.

Yes, Department has been recognized by University Grants Commission as Centre for Advanced Studies (CAS) and by DST for FIST-2012.

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

Department is actively engaged in research disciplines like fertility regulation & anti-fertility, prophylactic & therapeutic management of radiation injuries and cancer, applied pest management and the use of medicinal plants in the prophylactic & therapeutic treatment of various diseases & Bioremediation

51. Detail five major strengths, weaknesses, opportunities and challenges (SWOC) of the department.

Following are major strengths, weakness, opportunities and challenges (SWOC) of the department:

**Strengths**

- UGC-CAS phase-II, DST-FIST, phase-II, extramural research grants in the form of Major and Minor project to the faculty members from various national agencies, large number of publications in peer reviewed journal with good impact factor, recognitions and awards, equipments, research labs and facility, etc. National and International collaboration in different research areas

**Weakness**

- Lack of adequate Non-teaching staff
- Lack of Technical staff for the maintenance of the existing instruments in the Department

### **Opportunities**

- Good teaching programmes,
- Creation of new research programme

### **Challenges**

- Need based curriculum
- Placements of student
- Identification of new research areas relevant to societal need

### 52. Future plans of the department.

Following are the future plans of this department:

- Revision of curriculum at UG and PG level
- Organization of conference in basic and applied areas.
- National Conference on Herbal Medicine.
- Brain storming meeting on curriculum revision.
- Department will make efforts to generate extramural grants from national funding agencies to enrich the infrastructure as well as to pursue active research.
- Department will explore the opportunities to have more interdisciplinary and collaborative research at national and international level.

**Details of H-index and Citation index of different faculty members:**

S.No.	Name	Designation	H-Index	Citation Index
	<b>Professor</b>			
1.	Goyal, P.K	Professor& Head	16	828
2.	Joshi, S.C.	Professor	19	1357
3.	Sharma J.	Professor	-	-
4.	Sharma S.	Professor	-	-
5.	Sharma J.D.	Professor	-	-
6.	Sisodia, R.	Professor	11	281
	<b>Associate Professor</b>			
7.	Ansari, A.S.	Associate Professor	09	334
8.	Gupta, R.S.	Associate Professor	18	1093
9.	John, P.J	Associate Professor	08	396
10.	Lowry,M.	Associate Professor	04	57
11.	Mali,P.C.	Associate Professor	05	110
12.	Mathur,N.	Associate Professor	07	272
13.	Nair, N.	Associate Professor	08	221
14.	Singh, A.	Associate Professor		-
15.	Soni, I.P.	Associate Professor	05	65
16.	Srivastava, S.	Associate Professor		-