

29.	Prof. A. K. Pandey Department of Botany University of Delhi, Delhi	Species Diversity, Phylogeny and Phytogeography of Cucurbitacea	05.02.2014
30.	Dr. L.M.S. Palni GBPIHED, Almora	Innovative techniques useful for Flower production and Reproductive success in angiosperms	06.02.2014
31.	Prof. Purshotam Kaushik, Gurukul Kangri University Haridwar	Cyanobacteria: The novel sources of drugs and pharmaceuticals	06.02.2014
32.	Prof. B. P. Mishra, Department of Environmental Science. Mizoram University Aizawal	Ecological study in the sacred grove of Meghalaya, North-East India; Formulation of appropriate Conservation Strategies	06.02.2014
33.	Dr. S.S. Samant GBPIHED Himachal unit, Moahl-Kullu	Research needs for the Conservation and Management of Biodiversity in Trans, North Western Himalaya, India.	06.02.2014

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

- Chalk & Talk method
- Seminars
- Overhead projections
- Power point presentations
- Practicals
- Field Trips
- Extension activities etc

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

Following strategies are employed for monitoring the programme objectives & leaving outcomes:

- Theory test
- Practical test
- Organising seminars
- Organising debates and quiz competitions etc
- Regular short and long field tours.

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

The Head of the Department and other senior faculty members regularly encourage the students for participating in Cultural programmes, Sports activities, Society Development Programme, Organising debates etc.

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

- a. Students of M.Sc are regularly taken to long (10-15 days) and short (1-3 days) field trips every year across the Country.
- b. Active participation of faculty members in delivering lectures and interacting with high and secondary school students of different schools.
- c. Exposure of students of different classes to Botanical garden.
- d. Regular interaction of teachers and research scholars with locals on gaining traditional knowledge of plants and mushrooms for proper documentation.
- e. The entire faculty is involved in guiding the students with respect to their career options.

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

N.A

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

Department has been organising various activities such as National Symposia/Seminar/Conferences /Workshops/ Community Interaction Programmes, Refresher Courses etc. for University /College teachers and invited lecturers by eminent scientists for the benefit of the students.

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

Strengths- Well qualified and experienced Faculty

Well equipped Central Facility

Well maintained Library

Internet Facility

Botanical garden and Herbarium

Glass and Green Houses

Cactus Garden

Research Fellowship to every student enrolled in M.Phil/Ph.D

Weaknesses, Opportunities and Challenges (SWOC)

Requirement of additional infrastructure for molecular research.

Shortage of technical support staff

52. Future plans of the Department.

1. Successful and effective implementation of Choice Based Credit System
2. Equip the labs with modern facility required for molecular studies
3. Train the scholars in frontier areas of plant and microbial sciences using molecular and biochemical approaches
4. Ensure effective intranetworking between different streams in the Department
5. Encourage collaborative research with other Departments of the University of Jammu and other Universities and research institutions of the country
6. Improve research based communicative skills of all the stake holders
7. Undertake consultative short term projects with the local populace for improvement of Agriculture based policies and/or raw materials
8. Attempt innovations and their transfer to the society

EVALUATIVE REPORT OF THE DEPARTMENT

1. Name of the Department : Department of Environmental Sciences

2. Year of establishment : 1995

3. Is the Department part of a School/Faculty of the university?

Faculty of Life Sciences

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) PG, M. Phil, Ph. D

5. Interdisciplinary programmes and departments involved

Following are the open courses that are offered to students from other departments

1. Climate Change: Issues & Policies

2. Man & Environment: Issues & Policies

3. Computer Application

4. Environment Economics

5. Natural Resources: Conservation and Management

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

Nil

7. Details of programmes discontinued, if any, with reasons

No programme has been discontinued

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

Choice Based Credit System

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

Yes, open courses offered under CBCS

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

	Sanctioned	Filled	Under Career Advancement Scheme	Total
Professor	01	-	02	02
Associate Professors	01	01	02	02
Asst. Professors	05	05	-	02
Contractual	-	-	-	01

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

S.No.	Name of Faculty Member	Qualifications	Designation	Specialization	No. of years of Experience	No. of Ph. D/M. Phil students guided for the last 4 years
1.	Prof. Anil K. Raina	M.Phil, Ph.D.	Professor and Head	Limnology, Forest Ecology & Pollution	22	05/07
2.	Prof. Raj Kumar Rampal	M.Phil, Ph.D.	Professor	Ecology & Pollution	20	04/05
3.	Dr. Sanjay Sharma	Ph.D.	Assoc. Prof.	Remote Sensing	20	00/06
4.	Dr. Piyush Malaviya	Ph.D.	Assoc. Prof.	Environmental Microbiology, Water Pollution	14	02/07
5.	Dr. Deepika Slathia	Ph.D	Sr. Asstt. Professor	Limnology, Aquatic Microbiology and pollution Studies	11	00/05
6.	Mr. Rakesh Atri	M.Sc, M.Phil	Asstt. Professor	Air pollution	04	-

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

- | | | |
|-----|--------------------------|--|
| 1. | Dr. Jaswant Singh | Dr. R.M.L. Awadh University, Faizabad. |
| 2. | Prof. I. S. Thakur | School of Env. Sciences, JNU, New Delhi. |
| 3. | Prof. A. K. Thukral | Deptt. of Botanical & Env. Sciences, GNDU, Amritsar |
| 4. | Prof. K. K. Saxena | Deptt. of Zoology, Bareilly College, Bareilly |
| 5. | Prof. Dinesh Bhatt | Deptt. of Zoology & Env. Sciences, Gurukul Kangri University, Haridwar |
| 6. | Dr. Amarjeet Singh | Deptt. of Botanical & Env. Sciences, GNDU, Amritsar |
| 7. | Dr. Adarsh Pal Vij | Deptt. of Botanical & Env. Sciences, GNDU, Amritsar |
| 8. | Prof. G. A. Bhatt | Deptt. of Env. Sciences, University of Kashmir, Srinagar (J&K) |
| 9. | Prof. S. P. S. Khushwaha | Forestry & Ecology Div., IIRS, Dehradun |
| 10. | Prof. P. C. Joshi | Deptt. of Zoology & Env. Sciences, Gurukul Kangri University, Haridwar |
| 11. | Prof. R. Jindal | Deptt. of Zoology, Punjab University, Chandigarh |
| 12. | Prof. D. R. Khanna | Deptt. of Zoological & Env.Sc. Gurukul Kangri University, Haridwar |
| 13. | Prof. Azra. N. Kamili | Center of Research for Development, University of Kashmir, Srinagar |
| 14. | Prof. R. K. Kohli | Vice- Chancellor, Central University, Punjab |

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

M. Sc.

1st Sem. = 20%

2nd Sem. = 20%

3rd Sem. = 15%

4th Sem. = 20%

M. Phil - Nil

Ph. D - Nil

14. Programme-wise teacher Student Ratio

M. Sc. – 1:8

M. Phil – 1:1.5

Ph. D- As per UGC norms

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

Administrative Staff

	Sanctioned	Filled	Actual
Steno-typist	01	01	01
Senior Assistant	01	01	01
Junior Assistant	01	01	01
Computer Assistant	01	00	01
Lab. Attendant	02	02	02
Driver	01	01	01
Others			

16. Research thrust areas as recognized by major funding agencies

- Terrestrial Ecology
- Solid Waste Management
- Air and Water Monitoring and Management
- Phytodiversity and Natural Resource Monitoring and Management
- Waste water Treatment / Bioremediation
- EIA & EMP Studies and Limnology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (w.e.f. 1st June 2009 to 28th February 2015)

Number of faculty with ongoing projects **01**

S. No.	Project title	Funding agency	Grants received
1	Development of Mycoremediation Technology for Tannery Effluent Treatment by Indigenous Fungal Consortium	DBT	36 lac
2	Design upgradation of vertical sub-surface constructed wetland unit for treatment of dairy waste water (associated as Co-PI)	DBT	14 lac

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration b) International collaboration (w.e.f. 1st June 2009 to 28th February 2015)

UGC	Studies on the influence of UV- B radiations on cryptogamic flora (lichen and moss) of Himalayan region, India in collaboration with Department of Env. Sciences, Dr. R.M.L. Awadh University, Faizabad. Grants Received- Rs. 13,25,000/-
-----	--

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (w.e.f. 1st June 2009 to 28th February 2015)

S. No.	Funding Agency	Project Title	Grants Received
1	UGC-SAP	i. Biodiversity characterization of protected area network of Jammu province of Jammu & Kashmir [Western Himalayas] using remote sensing and GIS ii. Assessment of environmental pollution in and around Jammu	43,63,267/-

20. Research facility / centre with

- | | | |
|----|---------------------------|-----|
| a. | state recognition | Nil |
| b. | national recognition | Nil |
| c. | international recognition | Nil |

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

Nil

13. Publications: (w.e.f. 1st June 2009 to 28th February 2015)

- * Number of papers published in peer reviewed journals (national / international)
International = 37
National = 100
- * Monographs
- * Chapters in Books : 6
- * Edited Books

* Books with ISBN with details of publishers

1. Environmental Studies. Acme Learning Pvt. Ltd., New Delhi, India. 412 p. (ISBN: 978-93-80408-31-6) (Malaviya, P., Singh, P. and Singh, A. 2012).
2. Environmental Science & Ethics. Acme Learning Pvt. Ltd., New Delhi, India. 356 p. (ISBN: 978-93-80408-23-1)(Singh, A., Malaviya, P. and Singh, P. 2010).
3. Text Book of Environment & Ecology. Acme Learning Pvt. Ltd., New Delhi, India. 348 p. (ISBN: 978-81-907104-9-7) (Singh, P., Singh, A. and Malaviya, P. 2009).

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

* Citation Index – range / average *

SNIP

* SJR

* Impact Factor – range / average * 0.56 - 6.087 / 1.26

h-index

21. Details of patents and income generated (w.e.f. 1st June 2009 to 28th February 2015)

Nil

22. Areas of consultancy and income generated (w.e.f. 1st June 2009 to 28th February 2015)

Environmental Impact Assessment and Management Services

S. No.	Period	Name of the Work	Funding Agency	Amount (in Lacs)
1	August 2010	EIA & EMP for commissioning of passenger aerial ropeway at Jammu	J & K State Cable Car Corporation, Jammu	7.015
2	June 2009	EIA & EMP of Industrial Estate establishment at Ghatti, Kathua	SIDCO, Jammu	8.51
3	April 2008-Feb. 2009	EIA & EMP for commissioning of passenger aerial ropeway Km. 99 of NH 1A to village Sangote & to Patnitop	Patnitop development authority	3.72
4	August, 2014	EIA & EMP for H.E. project Kiru, Kishtwar Jammu	CVPP	26.68
5	August, 2014	EIA & EMP for H.E. project Kwar, Kishtwar Jammu	CVPP	18.90

23. Faculty selected Nationally/Internationally to visit other laboratories / institutions

a. industries in India and abroad (w.e.f. 1st June 2009 to 28th February 2015)

- Dr. Deepika Slathia –
 - National Institute of Hydrology Roorkee, at NIH Roorkee from 1st-3rd March, 2011.
 - Indian Council of Forestry, Research and Education(ICFRE), Dehradun from 4th to 8th October 2010.
 - Training in Remote Sensing and GIS in Forestry, Ecology, Wildlife and Environmental Sciences” at Indian Institute of Remote Sensing Dehradun from 5th April 2014 to 27th June 2014.
- Dr. Piyush Malaviya
 - Texas Technical University, Lubbock, Texas, USA (availed w.e.f. September 3, 2013 to March 9, 2014).
 - University of Warsaw, Poland (w.e.f. October 6, 2014 to March 30, 2015)

Faculty serving in

b) National committees b) International committees c) Editorial Boards d) any other (please specify)

Prof. A. K. Raina

- Member, State Advisory Committee, W.W.F. Nature-India, J&K Branch
- Member of Board of under Graduate Studies in the subject of Environment & Water Management (Vocational Subject) of The University of Kashmir
- Member, Adhoc Board of studies in Remote Sensing & GIS course, University of Jammu
- Convener, Board of Studies, Environmental Sciences, University of Jammu
- Member, Advisory Board, Environmental Conservation Journal
- Member, Editorial Board, J. Appl.& Nat. Sci

Prof. R.K. Rampal

- Member, UGC Expert Committee for final selection of fresh applications as well as mid-term evaluation of ongoing Research Projects in Environmental Science for XII Plan.
- Member, BOS, Environmental Sciences, Central University, Himachal Pradesh.
- Member Expert, Selection Committee for award of Common wealth scholarship 2015 nominated by Ministry of HRD

Dr. P. Malaviya

- International Journal of Chemical, Environmental and Biological Sciences [ISSN 2320 –4079 (Printed Version) ISSN 2320 –4087 (Online Version)]- Editorial Board Member.
- Current World Environment [ISSN: 0973-4929, Online ISSN: 2320-8031] Editorial Board Member

Expert Reviewer:

- a. International Journals e.g., Bio-resource Technology, Current Microbiology, Journal of Hazardous Materials, Water Research, Separation and Purification Technology, International Journal of Environment and Waste Management, Journal of Environmental Biology.
- DBT and DSIR funded Research Projects.

International Committees

- Programme Co-Chair, International Conference on Environmental Science and Development, February 14-15, 2015 (Amsterdam, Netherlands)
24. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

(w.e.f. 1st June 2009 to 28th February 2015)

Refresher Course organised by the Department

- Env. Sciences (ID) - 07 (2010-2015)
- Behavioral Sciences - 01 (2009)

25. Student projects (w.e.f. 1st June 2009 to 28th February 2015)

- a. percentage of students who have done in-house projects including inter-departmental projects 100% (Dissertation compulsory for M. Sc. Degree)
- b. percentage of students doing projects in collaboration with other universities
 - 1. industry / institute Nil

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

- a. Faculty (w.e.f. 1st June 2009 to 28th February 2015)

1. Goverdhan Singh Memorial Environmental Foundation Award	Gold Medal (01)	Prof. S.P.S. Dutta
2. Nature Conservators Paryavaran Award	Gold Medal (01)	Prof. S.P.S. Dutta

Doctoral / post doctoral fellows =

Dr. P. Malaviya

- Awarded “Raman Postdoctoral Research Fellowship”, University Grants Commission, Government of India to work at Texas Technical University, Lubbock, Texas, USA (availed w.e.f. September 3, 2013 to March 9, 2014).
- Awarded NAMASTE (Networking & Mobility Actions for Sustainable Technology & Environment in India) Post-doctoral Fellowship funded by European Union (EU), to work at University of Warsaw, Poland (w.e.f. October 6, 2014 to March 30, 2015).

27. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any. (w.e.f. 1st June 2009 to 28th February 2015)

Year	Description of Events	Source of funding
2012	<ul style="list-style-type: none"> • National Conference on “Environmental Issues and Challenges the Himalayan Perspective” at IME, Bhaderwah, 4-5 Oct., 2012 	University of Jammu PURSE, UGC
2014	<ul style="list-style-type: none"> • Conducted the Sectional Proceedings (Env. Sciences) of 101st Indian Science Congress held in Feb. 2014. • March, 2014 –Two days National Conference on “Environmental Issues, Concerns and Solutions (EICS-2014), 24th March- 25th - March 	UGC, PURSE & NEAC
2015	<ul style="list-style-type: none"> • One day workshop on Conservation of Gharana and its adjoining Wetlands in collaboration with WWF India J&K chapter on 19-01-2015 	WWF

28. Code of ethics for research followed by the departments **Yes**

29. Student profile programme-wise: (w.e.f. 1st June 2009 to 28th February 2015)

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M. Sc.					
2009	806	07	23	100	100
2010	880	08	23	100	100
2011	NA	07	24	100	100
2012	NA	04	27	100	100

2013	NA	02	22	100	100
2014	NA	06	24	100	100
M. Phil					
2009	25	2	2	100	100
2010	--	4	5	100	100
2011	--	6	5	100	100
2012	88	5	14	100	100
2013	57	01	06	100	100
2014	51	02	04	100	100
Ph. D					
2009	In continuation with M. Phil.	3	5	100	100
2010	In continuation with M. Phil	1	1	100	100
2011	In continuation with M. Phil	1	1	100	100
2012	36	4	5	100	100
2013	In continuation with M. Phil	9	11	100	100
2014	In continuation with M. Phil (05) 02	2	5	100	100

30. Diversity of students (w.e.f. 1st June 2009 to 28th February 2015)

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG	98.5	--	1.69	--
M. Phil	97.56	--	2.43	--
Ph. D	97.96	--	2.04	--

31. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. (w.e.f. 1st June 2009 to 28th February 2015)

Civil Services	-	09
Defence Services	-	06
NET/JRF	-	11
NET	—	25
SET	—	23

32. Student progression (w.e.f. 1st June 2009 to 28th February 2015)

Student progression	Percentage against enrolled
UG to PG	On the availability of seats
PG to M.Phil.	31.38%
PG to Ph.D.	41.46%
Ph.D. to Post-Doctoral	-----
Employed Campus selection Other than campus recruitment	
Entrepreneurs	

33. Diversity of staff

Percentage of faculty who are graduates	
Of the same University	05
From other University within the State	00
From University from other state	01
From University outside the Country	00

34. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (w.e.f. 1st June 2009 to 28th February 2015) 01

35. Present details of departmental infrastructural facilities with regard to

a. Library – Books- 2579, Journals - 1190

b. Internet facilities for staff and students – Yes

For all the staff members, research scholars and two computer systems with internet facility for students

- | | |
|----------------------------------|----|
| c. Total number of class rooms | 02 |
| d) Class rooms with ICT facility | 01 |
| e) Students' laboratories | 02 |
| f) Research laboratories | 02 |

36. List of doctoral, post-doctoral students and Research Associates (w.e.f. 1st June 2009 to 28th February 2015)

a. from the host institution/university

Ph. D. Scholars			
S. No.	Name of the Scholar	S. No.	Name of the Scholar
1	Jyoti Sharma	22	Shahima Akhtar
2	Shivali Sharma	23	Nazneen Khan
3	Akanksha Koushal	24	Israr Bukhari
4	Navita Sharma	25	Mamta Sharma
5	Assadullah Sheikh	26	Renu Sharma
6	Megha Gupta	27	Sumit Kotwal
7	Ranjan Sharma	28	Priyanka Sareen
8	Daleep Kumar	29	Sonia Choudhary
9	Barneet Kour	30	Mehak Gupta
10	Dinesh Singh	31	Vinod Sharma
11	Ravinder Kumar	32	R. S. Jasrotia
12	Junaid Ahmed	33	Harpreet Kour
13	Shehnaz Khan	34	Muzaffar Ahmed
14	Sachin Sharma	35	Adil Najeeb
15	Akrity Parihar	36	Pinki Manhas
16	Kirti Pandita	37	Nazia Rasool
17	Krishna Priya	38	Harmanmeet Kour
18	Anu Sharma	39	Sehrish Gazal
19	Abdul Hamid	40	Gurdeep Kumar
20	Deepika Sharma	41	Sheetu Dhar
21	Kulvinder Kour		

b. from other institutions/universities Nil

37. Number of post graduate students getting financial assistance from the university.

02

38. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. No new programme has been introduced

39. Does the department obtain feedback from

i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes

Revising and updating the curriculum every year, if required.

ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes- in updating & improving the teaching practices of the faculty as well as the curriculum

- iii. alumni and employers on the programmes offered and how does the department utilize the feedback?

No formal Alumni meets, but interaction with them helps to improve the activities and curriculum.

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

- | | |
|--------------------------|------------------------------------|
| 1. Mr. Charan Deep Singh | KAS Officer |
| 2. Ms. Manisha | KAS Officer |
| 3. Ms. Shagun Sharma | KAS Officer |
| 4. Mr. Sanjay Kotwal | KPS officer |
| 5. Mr. Vinay | KPS Officer |
| 6. Mr. Shahzaad Salaria | KPS Officer |
| 7. Dr. Deepika Slathia | Sr. Asstt. Prof. , Univ. of Jammu |
| 8. Dr. Neeraj Sharma | Asstt. Prof., IME , Univ. of Jammu |
| 9. Mr. Rakesh | Asstt. Prof. , Univ. of Jammu |
| 10. Mr. Sudesh | Asstt. Prof, College |

41. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (w.e.f. 1st June 2009 to 28th February 2015)

Year	Description of Events	External Expert
2009	One day seminar on “Your planet needs you – unite to combat climate change”, June 8, 2009	Dr. C.M. Seth, WWF
2010	Rain water harvesting & spring recharge, organized by CGWB, Ministry of water resources, Jammu, 10 Feb., 2010.	Mr. Vinod Sharma, Sr. Scientist
2011	One day seminar on “6 th World Migratory Birds Day: Land use changes from a birds eye view”, June 5, 2011	Mr. Pankaj Chandan, Director, WWF
2011	An extension lecture on “Role of women in environmental sustainability”, Sep. 20, 2011	Prof. Renu Bhardwaj, GNDU
2012	World Earth Day, 22 nd April, 2012	Mr. R. K. Khajuria, President AKKA
2013	World Environment Day Celebrations, 5 th June, 2013 Himalayan Day celebrations “ Save Himalayas- Save Self with agenda Himalayas: Past, Present and Future”, 9 th Sept., 2013 3rd Anniversary of “Tree Talk Campaign”, 19 th Dec.-2013	Prof. Shashi Kant Mr. Y.P Sharma Sh. O.P. Vidyarthi
2014	Two day’s National Conference on “Environmental Issues, Concerns and Solutions (EICS-2014), 24 th March - 25 th March, 2014	Prof. R. C. Gupta, Kurukshetra University Dr. Amarjit Singh, GNDU, Amritsar Dr. Adarsh Pal Vig, GNDU, Amritsar Prof. G.A. Bhat, Kashmir University

	Implications of eco-tourism on Jasrota Wildlife Sanctuary with Wildlife Department, 25 th April, 2014	Mr. Saleem, DFO Kathua
	One day seminar and plantation drive on World Environment Day, 5 th June, 2014	Sh. O.P. Vidyarathi
	Cleanliness and Awareness Drive during Navratras at River Tawi, 2 nd -3 rd Oct, 2014	Mr. R. K. Khajuria, President AKKA DISHA Students Chapter

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

1. Classroom teaching
2. Audio-visual methods (power point presentations, smart board)
3. Seminars
4. Practicals
5. Field visits
6. Project activity

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

Through regular assessment tests (2 per each subject per semester) and seminars

Through feedback forms

Examination after every semester

Timely completion of assessment

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

(w.e.f. 1st June 2009 to 28th February 2015)

Year	Description of Events	Source of funding
2012	<ul style="list-style-type: none"> • World Earth Day, 22nd April, 2012 • National Conference “Environmental Issues and Challenges the Himalayan Perspective” at IME, Bhaderwah, 4-5 Oct., 2012 	UGC-PURSE
2013	<ul style="list-style-type: none"> • World Environment Day Celebrations, 5th June, 2013 • Himalayan Day celebrations “ Save Himalayas- Save Self with agenda Himalayas: Past, Present and Future”, 9th Sept., 2013 • 3rd Anniversary of “Tree Talk Campaign” 19th Dec.-2013 	UGC

2014	<ul style="list-style-type: none"> • Refresher Course in Env. Sciences (Inter Disciplinary), 08th -28th Feb. 2014 • Sectional venue for Environmental Sciences Section of 101st Indian Science Congress, 3rd Feb., 2014 • Two day's National Conference on "Environmental Issues, Concerns and Solutions (EICS-2014), 24th March- 25th March, 2014 	UGC-PURSE
	<ul style="list-style-type: none"> • Implications of eco-tourism on Jasrota Wildlife Sanctuary with Wildlife Department, 25th April, 2014 • One day seminar and plantation drive on World Environment Day, 5th June, 2014 • Cleanliness and Awareness Drive during Navratras at River Tawi, 2nd-3rd Oct, 2014 	Department Fund, UGC

45. Give details of "beyond syllabus scholarly activities" of the department.

- Frequent organization of field trips
- Practical training in some subjects
- Dissertation on environment related topics and seminars.

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

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

- Regular Environmental Awareness campaigns in the rural and urban areas help to sensitize local people regarding various environmental problems and their solutions.
- Inventionization of flora and fauna of various protected areas of Jammu has been carried out by the department which is a ready reference for various state departments for planning further conservation strategies.
- Department has conducted EIA and EMP studies of a number of developmental projects within the state.

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

- Strength
- Well trained faculty
 - Well equipped scientific laboratory having advanced equipments like Ion chromatography, AAS, HPLC, BOD incubator, COD apparatus, Water analysing kit, Incubator and Air samplers etc. for carrying out latest research in the field of environmental sciences.

- Regular upgradation of syllabus to acquaint the students about the recent environmental issues/problems & techniques in environment.
 - High placement record
 - More than 150 students have qualified NET-JRF/NET/SET/GATE examination.
- Weakness
- Low student teacher ratio and lack of technical staff
 - Lack of infrastructure
- Opportunities
- As there are number of environmental issues prevailing in the state which need to be addressed immediately so the students equipped by the department have ample opportunity to get jobs in various government as well as private departments
 - Department also frequently collaborates with other allied departments in order to generate solutions to the real time environmental problems.
- Challenges
- To compete at national and international level with meagre resources in terms of infrastructure and adequate funds.

Future plans of the department.

- Introduction of new courses (e.g. Forestry, Wildlife etc.) according to the latest development in the field of Environmental Protection and Management. The department has already applied for P. G. Programme in Forestry.
- To provide advanced trainings to the scholars and faculty in various national international labs in order to impart high quality interdisciplinary knowledge to the future environmental scientists.
- Organization of mass awareness activities regarding local and national issues in urban as well as rural areas involving the stake holders and also to educate them regarding the latest developments in the field.

To Act as Resource Centre for various educational institutes and government departments and to encourage multifaceted programmes viz. Research, consultancy, skilled human resource generation and organization of more awareness campaigns that would lead to ecological sustainable development of the area.



EVALUATIVE REPORT OF THE DEPARTMENT

1. Name of the Department : Department of Zoology
2. Year of Establishment : Erstwhile Biosciences: 1971, Zoology: 1998
3. Is the Department part of a School/Faculty of the university?
Faculty of Life Sciences
4. Names of programmes offered
PG, M.Phil. & Ph.D.
5. Interdisciplinary programmes and departments involved
Human Genetics, Sericulture
6. Courses in collaboration with other universities, industries, foreign institutions, etc.
NA
7. Details of programmes discontinued, if any, with reasons : Nil
8. Examination System
Semester / Choice Based Credit System
9. Participation of the department in the courses offered by other departments : Nil
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled Under Direct Recruitment	Filled Under Career Advancement Scheme	Total Existing Faculty
Professor	02	02	02	04
Associate Professors	02	01	-	0
Asst. Professors	09	05	-	04
Others	-	-	-	-

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

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D/ M.Phil students guided 2009 onwards
Prof. K.K. Sharma	Ph.D.	Prof. & Dean	Environmental Biology, Aquatic Ecology/ Limnology	30	M.Phil. Awarded:10 M.Phil in progress:3 Ph. D. Awarded :19 Ph.D. submitted:0 Ph.D in progress:11
Prof. Roopma Gandotra	M.Phil., Ph.D.	Professor	Aquaculture, Fish Biology, Endocrinology and Microbiology	20	M.Phil. Awarded:7 M.Phil in progress:3 Ph. D. Awarded :5 Ph.D. submitted:1 Ph.D in progress:7
Prof. J.S. Tara	Ph.D.	Professor	Sericulture, Insect diversity & ecology of high altitude insects	20	M.Phil. Awarded:3 M.Phil in progress:2 Ph. D. Awarded :4 Ph.D. submitted:1 Ph.D in progress:6
Prof. Seema Langer	M.Phil., Ph.D.	Professor	Zooplankton/ prawn culture/ Diversity, Fish Nutrition	20	M.Phil. Awarded:7 M.Phil in progress:2 Ph. D. Awarded :5 Ph.D. submitted:1 Ph.D in progress:5
Dr. Sanjay Bhatia	M.Phil. Ph.D.	Sr. Asst. Prof.	Insect diversity/ ecology/ Invasion biology	17	M.Phil. Awarded:6 M.Phil in progress:0 Ph. D. Awarded :2 Ph.D. submitted:0 Ph.D in progress:3
Dr. Arti Sharma	Ph.D.	Asst. Professor	Aquatic Ecology, Aquaculture	4.5	M.Phil. Awarded:2 M.Phil in progress:1 Ph. D. Awarded :0 Ph.D. submitted:0 Ph.D in progress:5
Dr. Parvinder Kumar	Ph.D.	Asst. Professor	Human Genetics, Molecular Biology Medical/ clinical genetics Population genetic	4.5	M.Phil. Awarded:1 M.Phil in progress:2 Ph. D. Awarded :1 Ph.D. submitted:0 Ph.D in progress:6
Dr. Sarbjeet Kour	M.Phil., Ph.D.	Asst. Professor	Aquatic biology, Ecology, Limnology	3.5	M.Phil. Awarded:0 M.Phil in progress:2 Ph. D. Awarded :0 Ph.D. submitted:0 Ph.D in progress:5

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil
13. Percentage of classes taken by temporary faculty–programme-wise information: 10% in M.Sc. (Zoology)

14. Programme-wise Student Teacher Ratio : 10:1
15. Number of academic support staff (technical) and administrative staff
 1. Mr. Makhan Lal, Technical Officer
 2. Mr. Suresh Gupta, PA
 3. Mr. Roop Singh, Museum Keeper
 4. Mr. Manu Malhotra, Sr. Asst. Programmer
 5. Dr.Surinder Pal Sharma, Curator
 6. Mr. Pardeep Kumar, SA
 7. Field Biologist (vacant)
 8. Technical Assistant (vacant)
16. Research thrust areas as recognized by major funding agencies
 - i. Invertebrate diversity
 - ii. Fish diversity
 - iii. Diversity of terrestrial and aquatic invasive species
 - iv. Diversity of Pollinators and spiders
 - v. Pollution : status & monitoring
 - vi. Bioflox utilization
 - vii. Fish growth, Reproduction and Nutrition
 - viii. Shell life enhancement and value addition of edible fish
 - ix. Ornamental fish and Prawn Culture
 - x. Biology of Insect pests of Forestry and Horticulture crops
 - xi. Cytological and molecular diversity studies
 - xii. Molecular genetic diagnosis of Human Genetic disorder & cytogenetic analysis of Congenital Anomalies.
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (w.e.f. 1st June 2009 to 28th February 2015)

Prof. K.K. Sharma as Principal Investigator

Prof. Roopma Gandotra as Co-Investigator

Dr. Sarbjeet Kour as Co-Investigator

Ongoing/ Completed

S. No.	Project Title	Funding Agency	Period	Grant (Rs. in lacs)
1.	Ecological investigations of River Chenab with reference to the development of method for conservation of its fish diversity.	University Grants Commission, New Delhi.	2014 -17	12,50,000/-

Prof. Seema Langer

Ongoing/ completed

S. No.	Project Title	Funding Agency	Period	Grant (Rs. in lacs)
1.	Demonstration on Mono and Polyculture of Indian Major Carps and freshwater prawn in Jammu (J&K)	Council for Science and Technology, DST, Govt. of India	2007-10	11,77,500/-
2.	Culture of Giant fresh water Prawn (M. rosenbergii) in Jammu (J&K)	Council for Science and Technology, DST, Govt. of India	2014-17	10,90,880/-

Dr. Sanjay Bhatia

Ongoing/ Completed

S. No.	Project Title	Funding Agency	Period	Grant (Rs. in lacs)
1.	Global Pollination Project	GEF/UNED/FAD	2013-15	70 lacs

Dr. Parvinder Kumar

Ongoing/ Completed

S. No.	Project Title	Funding Agency	Period	Grant (Rs. in lacs)
1.	Analysis Of Genetic Determinants Of t2dm and their role in its susceptibility in some North West Indian Population	Department of Biotechnology, GOI, New Delhi	2008-2012	59.40 lacs

2.	Physico-chemical and Microbiological analysis of Under Water in and around Jammu region and Study of Genotoxic effect of different Pollutants (Co-Investigator)	J&K State Council for Science and Technology, J&K Govt.	2013-2016	9.41 lacs
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18. Inter-institutional collaborative projects and associated grants received : Nil

- a) National collaboration
- b) International collaboration

19. Departmental projects funded by UGC-SAP w.e.f. Sept. 2012 & DST-PURSE w.e.f. Sept. 2011.

1.

Project Title	Funding Agency	Amount Sanctioned
SAP -I Faunal diversity of Jammu division of J&K state and to asses the impact of change environment on Biodiversity	Uuniversity Grants Commission	Rs. 60.65 Lacs

2. DST PURSE

20. Research facility / centre with

- a. state recognition-Nil
- b. national recognition-Nil
- c. international recognition-Nil

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

22. Publications: (faculty wise) (w.e.f. 1st June 2009 to 28th February 2015)

Prof. K.K. Sharma:

- * Number of papers published in peer reviewed journals (national/international) : 26
- * Monographs : nil
- * Chapters in Books: 1
- * Edited Books: Nil

- * Books with ISBN with details of publishers: nil
- * Number listed in International Database (For *e.g.* Web of Science, Scopus,
- * Citation Index – range / average **1-27**
- * Impact Factor – range / average **0.352-5.114**

1. **(2015):** Sediment characterization of a sub-tropical pond of Birpur, Jammu (J&K) in relation to its macrobenthic and bacterial fauna. 2(2):241-246.
2. **(2014):** Toxic effects (By LC₅₀ Analysis) of Cypermethrin on a cyclopoid Copepod, *Mesocyclops leuckarti* (Claus, 1857). International Journal of Recent Scientific Research, Vol. 5(1) 215-217.
3. **(2014):** A Study on the diversity of a sub-tropical perennial pond of Jammu, J&K, India. Asian Academic Research Journal of Multidisciplinary, Vol. 1(19): (506-520).
4. **(2014):** Occurrence and abundance of Macro-benthic invertebrates inhabiting river Tawi Jammu (J&K) India. Asian Academic Research Journal of Multidisciplinary, Vol. 1(17): (212-221).
5. **(2013):** Limnological profile of Chennani Hydroelectric Reservoir, its connecting channel and River Tawi in Udhampur district of J & K India. International research Journal of Biological sciences, Vol. 2(3), 76-79, March, 2013.
6. **(2013):** Association of macroinvertebrates fauna with *Eichhornia crassipes* (Pontederiales pontederiaceae) in Gho-manhasan stream, Jammu J& K. International Journal of Lakes and rivers Vol. 6, no 1, 2013, pp 39-58.
7. **(2013):** Bacteriological quality assessment of a subtropical temple pond of Birpur, Jammu (J& K, India). IOSR Journal of environmental science, toxicology and food technology (IOSR-JESTET) Volume 3. Issue 4 (Mar- Apr 2013) pp 19-25
8. **(2013):** Sediment characterization of lower sections of a central Himalayan river, Tawi, Jammu (J&K), India. International research Journal of Environment Sciences Volume 2(3), March 2013 (1-5pp).
9. **(2013):** The hydrochemistry and macrobenthic invertebrates as indicators of water quality of a central Himalayan river, Tawi, Jammu (J&K, India) Global Journal of Applied Environmental Sciences. Volume 3 (1) 2013 (1-12pp).
10. **(2013):** Dynamics of migratory Waterfowl abundance at Lake Mansar (Ramsar site): A transient and wintering Site. International Journal of Current Life Sciences, Volume 3, Issue 2, 2013 (9-13pp)
11. **(2013):** Seasonal variation and diversity of zooplankton community structure in Chennani Hydroelectric Reservoir its connecting channel and River Tawi in Udhampur district of

- J & K India. International research Journal of Biological sciences, Vol. 2(4), 37-43, April (2013)
12. (2013): Zooplankton diversity and Physico-chemical conditions of a temple pond in Birpur (J&K, India), International research Journal of Environment Sciences, Vol. 2(5), pp. 1-5, 2013.
 13. (2013): Habitat preferences of rotifers inhabiting some waters of Jammu Province, J&K, India. Accepted in International research Journal of Biological Sciences, Vol 2(6): 35-38, 2013
 14. (2013): A new record of rotifer (Family: Dicranophoridae) from survey of some Pir panjal waters, J&K, India. International research Journal of Environment Sciences, Vol. 2(4), 2013, pp 1-5.
 15. Population structure of freshwater Crab *P. masoniana* (Henderson) in the lower reaches of Chenab River, J&K state India. International research Journal of fisheries and aquaculture sciences. ISSN 2248-9975 volume 3 no 1 –pp 1-6, 2013.
 16. (2013): Diversity and distribution of Mollusca in relation to the physico-chemical profile of Gho-manhasan stream, Jammu (J& K). International Journal of Biodiversity and Conservation, Vol. 5(4), 2013, pp 240-249.
 17. (2013): Biodiversity and abundance of benthic macro invertebrates community of Datte-da-Talab pond, Birpur (J&K) India International Multidisciplinary Research Journal, 2013, 3(1):13-17.
 18. (2013): Sediment characteristics as one environmental cue to influence Macrobenthic community composition of Lower Himalayan Lake Mansar (India). International Journal of Zoology and Research (IJZR), Vol. 3, Issue 1, Mar 2013, 17-26.
 19. (2013): Phytoplankton as a tool of Biomonitoring or Behlol Nullah, Jammu (J&K) India. International research Journal of Environment Sciences, Vol. 2(6): 54-60.
 20. (2013): Seasonal variations in physico-chemical parameters of sub-tropical pond of Jammu, J&K, India. Asian Academic Research Journal of Multidisciplinary, Vol. 1(10): 72-88 .
 21. (2013): Effects of some of the ecological parametrs on freshwater Crab abundance *Paratelphusa masoniana* (Henderson) inhabiting Gho-Manhasan stream, A tributary of River Chenab, Jammu, J&K. International Journal of Recent Scientific Research, Vol. 4(5): 640-644.
 22. (2013): Diversity of the macrobenthic invertebrates of a shallow freshwater pond under increasing environmental stress. Global Journal of Applied Environmental Sciences, Vol. 3 (1): 49-58.
 23. (2013): Evaluation of macrobenthic invertebrates in the longitudinal profile of a river (Tawi), originating from Shivalik Hills. Journal of Global Biosciences, Vol. 2(1): 31-39.

24. (2013): Diversity and Density variations in the community structure of Rotifera Fauna of Behlol Nullah, Jammu (J&K), India. Asian Academic Research Journal of Multidisciplinary, Vol. 1(14): (129-144).
25. (2013): Assessment of Physico-Chemical Characteristics of Sediments of a Lower Himalayan Lake, Mansar, INDIA, International Research Journal of Environment Sciences, Vol. 2(9), 16-22
26. (2013): Assessment Of Fluoride In Ground And Surface Water Bodies And Its Seasonal Variation At Bishnah Tehsil Of Jammu District, J&K: Correlation With Physico-Chemical Parameters. International Journal of Recent Scientific Research, Vol. 4(11).

Prof. Roopma Gandotra:

- * Number of papers published in peer reviewed journals (national/international) : 23
 - * Monographs : nil
 - * Chapters in Books: nil
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: nil
 - * Citation Index – range / average 1-15
 - * Impact Factor – range / average 0.52-5.66
1. (2015): Influence of steaming on the proximate and microbial quality of frozen muscle of *Cyprinus carpio*. *Global journal of multidisciplinary studies*.4(3).112-121.
 2. (2015): Impact of varied proportion of dietary protein on the growth performance of the juveniles of *Labeo rohita*(Ham). *International journal of multidisciplinary research and*.2(3):652-655.
 3. (2014): Studies on the effect of potassium sorbate treatment on fillets of silver carp (*Hypophthalmichthys molitrix*). *Biolife*, 2(2): 702-707.
 4. (2014): The Effect of Ascorbic Acid and Citric Acid Solution Treatment on the Flesh Quality of *Wallago attu*. *The International Journal Of Science & Technoledge*,2(6):110-115.
 5. (2014): Influence of ice glazing and long term storage on some quality parameters of rohu fillets during frozen storage. *Biolife*, 2(3):779-785.
 6. (2014): Effect of varying dietary protein levels on growth, feed conversion efficiency (fce) and feed conversion ratio (fcr) of *Catla catla* (Ham.) fry. *Journal of international academic research for multidisciplinary*.2(1): 28- 35.
 7. (2014): Changes in Biochemical and Microbiological Characteristics of Raw an Brined Tor tor during Frozen Storage. *Journal of Environmental Science, Computer Science and Engineering & Technology*. 3(3): 1152-1163.

8. (2014): The Quality Changes of Rohu (*Labeo rohita*) treated with Lemon gelatin during frozen storage (-120C). *International journal of research in pharmacy and life sciences*, 2(2):161-166.
9. (2014): "Effect of varying dietary protein levels on growth, feed conversion efficiency ratio of *Catla catla* fry. Vol. 2 (1), pp. 28-35 IF (1.393).
10. (2013): "Effect of Freezing on the proximate biochemical quality of fish muscle (*Tort or*). *International Journal Recent Scientific Research*. Vol. 4 (6), pp. 782-786. IF (1.136).
11. (2013): "Quality changes in the muscle of *Wallago attu* during frozen storage (-12 to $\pm 2^{\circ}\text{C}$) conditions. *Animal Veterinary and Fishery Sciences*. Vol. 1 (5), pp. 06-20.
12. (2013): "Nutritional and microbial quality changes in raw and brined frozen muscle of *Cyprinus carpio*. *Recent Scientific Research*. Vol. 4 (6), pp. 12-15. IF (0.755).
13. (2013): "Impact of ascorbic acid and citric acid treatment on the shelf life of silver carp (*Hypopthalmichthys molitrix*) pilltes in the frozen storage". 4 (7): pp. 1103-1108. IF (1.136).
14. (2013): Effect on the freezing of the proximate, biochemical and microbial quality fish muscle (*Tor tor*). *International Journal of .Recent Scientific*, 4(6): 782-786.
15. (2013): Impact of ascorbic acid and citric acid treatment on the shelf life of silver carp *Hypophthalmichthys molitrix* (silver carp) fillets in frozen stirage. *IJRSR* (Accepted)
16. (2013): Quality changes in the muscle of *Wallago attu* during frozen storage ($12\pm 2^{\circ}\text{C}$) condition. *Res. J. Animal, Veterinary and Fisheries Science*, 1 (5): 16-20.
17. (2013): Nutritional and microbial quality changes in raw and and brined frozen muscle of *Cyprinus carpio* (Linn). *Asian J. of Scioence and technology*, 4 (6): 12-15.
18. (2012): Changes in proximate composition and microbial count by low temperature presaervation in fish muscle of *Labeo rohita* (Ham.) *IOSR J. of Pharmacy and Biological Science*. 2 (1): 13-15.
19. (2012): Effect of chilling and freezing on fish muscle. *IOSR J. of Pharmacy and Biological Science*. 2 (5): 5-9.
20. (2010): Growth response and feeding conversion efficiency of *Tor putitora* (Ham.) fry at varying dietry protein levels. *Pakistan Jour. Nutrition*, 9 (1): 86-90.
21. (2010): Effects of photoperiod on Growth, Feed Conversion Efficiency and survival of Fry and fingerlings of Mahseer, *To putitora* *The Israeli Journal of Aquaculture*. Bamidgeh, 62 (4): pp. 266-271 2010.
22. (2009): Studies on fecundity of snow trout *Schizothorax richardsonii* (Gray) from the lotic bodies of Rajouri district (J&K). *Current World Environment*, 4(1): 127-132.

23. (2009): Length-weight relationship and condition factor in different age groups of *Aspidoparia morar* (Ham.) inhabiting river Tawi and its tributaries. *Biosciences, Biotechnology Research Asia*, 6(2): 767-772 .

Prof. J.S. Tara:

- * Number of papers published in peer reviewed journals (national/international) : 37
 - * Monographs : nil
 - * Chapters in Books: 1
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: nil
 - * Citation Index – range / average 1-5
 - * Impact Factor – range / average 0.5-2.5
1. (2015): Staphylinidae, Scarabaeidae, Dermestidae and Curculionidae (Insecta: Coleoptera) first record, from Kargil (Ladakh), J&K-India. *Mun.Ent.Zool.* Vol 10, No 1, January 2015.
 2. (2015): Staphylinidae, Scarabaeidae, and curculianidae (Insecta: coleopteran) first record from Kargil (Ladakh), J&K India *Mun. Ent. Zool.* Vol.10, No.1, Jan 15.
 3. (2015): Biology and morphometry of spodoptera *Litura fabricus*, A serious defoliator of mango (*Mangifera Indica*) in Jammu Region (J&K) *Mun. Ent. Zool.* Vol.10, No.1, Jan.15.
 4. (2015): Biology and Morphometry of *Spodoptera litura* Fabricus, a serious defoliator of mango (*Mangifera indica*) in Jammu Region (J & K). *Mun. Ent. Zool.* Vol 10, No 1, January 2015.
 5. (2014): Biology of hyposidra *Talaca walker* (Lepidoptera: Geometridae), A Major Defoliating pest of teak (*Teclona Grandis*) in Jammu, (J&K) *J. Env. Bio-Sci*, 2014; vol 28(2): 183-186.
 6. (2014): Record of some hemipteran insect pests of *litchi chinensis* from jammu district (j&k), india. *Mun. Ent. Zool.* 9(2): 819-821.
 7. (2014): Biology & Morphometric studies of Aquatic bug *Sphenoderma molestrum* (Hemiptera: Belostomatidae) from Jammu (J&K, India). *Journal of Entomology and Zoology studies*, 2(2): 82-85.
 8. (2014): Hymenopteran Insect Pollinators on Apple Bloom in District Rajouri, Jammu (Jammu and Kashmir), India. *International Journal of Interdisciplinary and Multidisciplinary Studies (IJIMS)*, Vol 1, No 8, 168-171.
 9. (2014): Record of some Hemipteran Insect Pests of *Litchi Chinensis* From Jammu District (J& K), India, *Mun. Ent. Zool.* Vol 9, No 2, June 2014.
 10. (2014): Biology of *Hyposidra talaca* walker (Lepidoptera: Geometridae), A major defoliating Pest of Teak (*Tectona grandis*) in Jammu,(J &K) *Journal. Env. Bio-Sci.*, Vol 28(2):183-186, 2014.

11. **(2014):** Record of Some Hemipteran Insect Pests of Mango (*Mangifera indica*) From Jammu Region of Jammu and Kashmir State. *International Journal of Interdisciplinary and Multidisciplinary Studies (IJIMS)*, Vol 1, No.8, 19-29, 2014.
12. **(2013):** Seasonal abundance and effect of abiotic factors on mango leaf hopper *Amritodus atkinsoni* (Leth.) population on wild and different cultivars of mango in Jammu region. *Environment conservation journal* 14(3): 161-168. (2013).
13. **(2012):** Bionomics Of *Alcidodes Affaber* Aurivillius (Coleoptera: Curculionidae: Alcidodinae), a serious pest of bhendi, *Abelmoschus Esculentus* (L.) Moench. *Mun. Ent. Zool.* 7(1): 259-266.
14. **(2012):** Bionomics Of *Alcidodes Signatus* Boheman (Coleoptera: Curculionidae), a serious pest of green bean, *Phaseolus vulgaris* (L.) from Udhampur district of Jammu (J&K, India). *Mun. Ent. Zool.* 7(2): 1079-1088.
15. **(2012):** Bionomics Of *Diaphorina Citri* Kuwayama (Hemiptera: Psyllidae), On *Citrus Sinensis* In Jammu Region Of J & K State. *Mun. Ent. Zool.* 7(1): 304-308.
16. **(2012):** Bionomics of *Hyblea purea* (Lepidoptera: Hyblaeidae), a serious pest of Teak (*Tectona grandis*) from Jammu (India). *Mun. Ent. Zool.* 8(1): 139-147.
17. **(2011):** Studies on the occurrence and seasonal abundance of aquatic Coleoptera in relation to some physicochemical parameters of water of Gharana wetland reserve Jammu (J&K). *The Bioscan* 6(2):257-261.
18. **(2011):** A record of Aquatic hemiptera of Gharana wetland, Jammu. *The Bioscan* 6(4):649-655.
19. **(2011):** Infestation dynamics of *Phyllocnistis citrella* Stainton (Lepidoptera: Phyllocnistidae) on Mosambi (*Citrus sinensis*) and its relation with important weather factors in Jammu, India. *Acta Entomologica Sinica*, 54(3): 327-332.
20. **(2010):** Bionomics of *Odoiporus longicollis* Oliver (Coleoptera: Rhynchophoridae), on Banana plant (*Musa paradisiaca*). *Munis Entomology and Zoology*, 5 (2): 627-635.
21. **(2010):** Ground and Darkling Beetles (Coleoptera: Carabidae, Tenebrionidae) from Kargil, J&K". *The Bioscan* 5(4):573-577.
22. **(2010):** Records of Hemipteran insect pest diversity on *Murraya koenigii* (L.) Sprengel (Curry leaf), a medicinally important plant from jammu region of J&K State. *The Bioscan* 5(1): 71-74.
23. **(2010):** A record of weevil (Coleoptera:Curculionidae) diversity from district Samba (J&K). *The Bioscan* 5(3):391-394.
24. **(2010):** Survey of Insect pest diversity on economically important plant, *Murraya koenigii* (L.) Sprengel in Jammu, J&K. *Journal of entomological research*, 34(3): 265-270.

25. (2009): Biology and Morphometric Studies of Lemon butterfly, *Papilio demoleus* Linn. Lepidoptera Papilionidae, a Serious Pest of *Citrus reticulata* var. Kinnow in Jammu. *Biodiversity & Environmental Management*, APH Publishing Corporation, New Delhi, 94-100.
26. (2009): Diversity, Distribution and Relative Abundance of Insect visitors on *Brassica campestris* Var. Sarson (J&K). *Biodiversity & Environmental Management*, APH Publishing Corporation, New Delhi, 15-21.
27. (2009): Studies on some Lepidopteran Pests of Guava *Psidium guajava* Linn. In Jammu Region of J&K State. *Biodiversity & Environmental Management*, APH Publishing Corporation, New Delhi, 101-106.
28. (2009): A study on *Aeolesthes holosericea* Fab., an important pest of apple plantations (*Malus domestica* Borkh.) in Jammu region. *The Asian Journal of Animal Science*, 3(2): 222-224, (Dec. 2008- May. 2009).
29. (2009): Influence of foraging time, flight activity patterns and duration of a foraging trip of *Apis* species (Order: Hymenoptera) on *Brassica campestris* var. Sarson. *Halteres*, 1(1): 57-65.
30. (2009): Comparative Evaluation of reeling parameters of bivoltine silkworm *Bombyx mori* race SH6 when fed on different mulberry varieties of Jammu Division. *Uttar Pradesh Journal of Zoology*, 29(2): 167-172.
31. (2009): Bionomics of *Hypolixus truncatulus* Faust. (Coleoptera: Curculionidae: Lixinae: Lixini), a major pest of *Amaranthus caudatus* (L.). *Munis Entomology & Zoology*, 4 (2): 510-518.
32. (2009): Bionomics of weevil *Xanthochelus faunus*, a pest of medicinal plant (snow lotus) *Saussurea heteromalla*. *Indian Journal of Agriculture Sciences*, 79(12): 1050-1053.
33. (2009): Bionomics of leaf defoliator *Papilio polytes* Romulus Cramer (Lepidoptera: Papilionidae) on *Murraya koenigii* (L.) Sprengel in Jammu. *The Bioscan*, 4(3): 429-432.
34. (2009): *Reduvius delicatula* Distant, 1909 (Hemiptera: Reduviidae)- an emerging new pest of apple plantations (*Malus* sp.) in district Doda of J & K. *The Bioscan*, 4(3): 523-524.
35. (2009): Ladybird Beetles (Coleoptera: Coccinellidae) from Kargil (J&K)". *The Bioscan*, 4(4): 683-688.
36. (2009): Bionomics of *Alcidodes signatus* Boheman (Coleoptera: Curculionidae), a serious pest of red kidney bean, *Phaseolus vulgaris* L. *Pest Management in Horticulture Ecosystem*, 15(2): 93-98.
37. (2009): Bionomics of *Cionus hortulans* Jeoffroy, a major pest of a medicinal plant, *Verbascum thapsus*, hairy mullein. *Indian Journal of Entomology*.

Prof. Seema Langer:

- * Number of papers published in peer reviewed journals (national/international) : 39
 - * Monographs : Nil
 - * Chapters in Books: Nil
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: Nil
 - * Citation Index – range / average 1-8
 - * Impact Factor – range / average 0.35-5.11
 - * h-index 4
1. **(2014):** Comparative study of population structure of Golden Mahseer (*Tor putitora*) in Baba Dansar and Jhajjar stream, two major tributaries of river Chenab (Jammu), J. of Harmonized Research. Appl. Sci. 2 (1) pp. 86-90 .
 2. **(2014):** The Nature and cause of cyclomorphosis in a species of Daphnia from a perennial pond in Jammu region. Asia Acad. Res. J. Multidisciplinary . 1 (20) 301-313. IF (0.5) .
 3. **(2014):** Comparative study of population structure of golden mahseer (*Tor putitora*) in Baba Dansar stream and Jhajjar stream, two major tributaries of river Chenab. Journal of harmonized research 2(1);86-89 .
 4. **(2014):** Length weight relationship and condition factor of *Tor putitora* from Jhajjar stream. International journal of scientific and engineering research 5(2);567-572 .
 5. **(2014):** Preliminary studies of condition factor (K) and relative condition Factor (Kn) of *Tor putitora* from Jhajjar stream, tributary of river Chenab. Journal of international academic research for multidisciplinary 2(1);368-373 .
 6. **(2014):** Effect of starvation on the cortisol level of fish *Garra gotyla gotyla* . International Journal of Advanced Biological Research. Vol. 4(1);24-26 .
 7. **(2013):** Population abundance of *D. similis* in relation to physico-chemical parameters of a pond at Kot-Balwal, Jammu (J&K). Int. J. Rec. Sci. Res. 4 (10). Pp. 1602-1604. IF (3.1).
 8. **(2013):** A survey on physico-chemical parameters in relation to abundance distribution of freshwater crab (*Paratelphusa masoniana*) in Gho-Manhasan stream of Jammu region. Ind. Res. J. Ani. Vet Fish. Sci. 1 (9).
 9. **(2013):** Study of population abundance of *Tor putitora* and ecological parameters of Jhajjar Stream, a tributary of River Chenab, Jammu. Asian Academic Research Journal of Multidisciplinary. 1(16).

10. (2013): Seasonal variations in hematological parameters of hill stream fish *Garra gotyla gotyla* from Jhajjar stream of Jammu region, India. International Journal of Fisheries and Aquaculture Sciences. Vol 3(1);63-70.
11. (2013): Effects of some of the ecobiological parameters on freshwater crab abundance *Paratelphusa masoniana* inhabiting (Henderson) Gho-manhasan stream, a tributary of river Chenab, Jammu, J&K. International Journal of Recent Scientific Research. 4(4)
12. (2013): Breeding cycle and fecundity of the freshwater crab, *Paratelphusa masoniana* from Gho-manhasan stream, a tributary of river Chenab, Jammu, India. Asian academic research associate. Vol 1(16).
13. (2013): Morphometric and meristic study of Golden Mahseer *T. putitora* from Jhajjar stream (J&K), India, Research Journal of Animal Veterinary and Fishery Sciences. Research Journal of Animal, Veterinary and Fishery Sciences. Vol 1(7);1-4.
14. (2013): Status of Golden Mahseer (*Tor putitora*) in Jammu region (J&K). International Journal of Recent Scientific Research. Vol 4(7);1154-1156.
15. (2013): Biochemical composition and caloric content of *Paratelphusa masoniana* (Henderson), a local freshwater crab from Jammu waters. International journal of recent scientific research. Vol 4(5);658-661.
16. (2013): Preliminary studies on water and protein distribution pattern in *Paratelphusa masoniana* (Henderson), female a local freshwater crab from Jammu region of J&K state, India. Research journal of animal, veterinary and fishery sciences. Vol 1(5);5-9.
17. (2013): Studies on the seasonal fluctuations in the proximate body composition of *Paratelphusa masoniana* (Henderson) (female), a local freshwater crab from Jammu region. Advanced Journal of food Science and Technology. 5(8);986-990.
18. (2013): Effects of some of the ecological parameters on fresh water crab abundance *Paratelphusa masoniana* (Handerson) inhabiting Gho-manhasan stream, a tributary of river Chenab, Jammu. J&K. International Journal of Recent Scientific Research.
19. (2013): Phytoplankton as a tool of biomonitoring of behlol nullah. Jammu (J&K) International journal of Environmental sciences. Vol 2960;54-60.
20. (2012): Studies on the food preferences of *Macrobrachium dayanum* and *Labeo rohita* under laboratory conditions. International Journal of Fisheries and Aquaculture Sciences. Vol 2(3);199-206.
21. (2012): Diversity and distribution of ichthyofauna of behlol nullah, a tributary of river Tawi, Jammu, J&K, India. International journal of environment engineering and management. 3(2): 107-119.
22. (2012): Effect of Different Stocking Densities on the Growth and Survival of Freshwater Prawn, *Macrobrachium Rosenbergii* under Laboratory Conditions in Jammu. International Journal of Fisheries and Aquaculture Sciences. 1(1): 19-25.

23. (2012): Growth, survival and proximate body composition of *Labeo rohita* larvae fed artificial food and natural food organisms under laboratory conditions. International Journal of Fisheries and Aquaculture Vol. 3 (6);114-117.
24. (2012): A new species of fish parasite belonging to the genus *Allocreadium* Looss,1900 from a new host *Tor putitora* Proceedings of the Zoological Society of India: Parasitology.
25. (2011): Water quality and macrobenthic invertiverate fauna of behlol nullah, Jammu (J&K).
26. (2011): Studies on the Seasonal Variation in Lipid Composition of Muscles, Hepatopancreas and Ovary of Freshwater Prawn, *Macrobrachium dayanum* (Henderson) during Reproductive Cycle. Advance Journal of Food Science and Technology.
27. (2011): Preliminary Studies on the Feeding of Freshwater Prawn, *Macrobrachium dayanum* (Henderson). International Journal of Fisheries and Aquaculture.Vol.1(1):27-33.
28. (2011): Effect of physico-chemical parameters on the metazoan parasite population of fishes from Poonch river, J & K state.Biospectra. Vol.6 (1).
29. (2011): Macrobenthic fauna of a local stream, Ghomanhasan (Jammu). Current World Environment.6 (1),159-163.
30. (2010): Effect of alternate starvation and refeeding cycles on Compensatory growth response in Carpio ant *Cirrhmus mrigala* : A comparative study.Inland Fisheries Society of India, 42(1),2010.
31. (2010): Effect of feed cycling on specific growth rate and food conversion ratio in *Cirrhinus mrigala*. Utter Pradesh J. Zool. 30(1): 77-82.
32. (2010): Replacement of fishmeal with locally available ingredients in diet composition of *Macrobrachium dayanum*. African Journal of Agricultural Research. Volume 5 (1) 2010.
33. (2009): Effect of different feeds on the growth and survival of post larvae of fresh water prawn *Macrobrachium rosenbergii* in Jammu .National Journal of Life Science Volume 06 (2) (187-192).
34. (2009): The effect of Feed cycling and Ration level on Compensatory growth response in *Cyprinus carpio*. National Journal of Life Sciences,6 (3), (251-255).
35. (2009): Studies on the optimum dietary protein requirement of *Macrobrachium dayanum* (Herndersen) larvae. Journal of Aquatic Biology,Volume 24 (2),(142-147).
36. (2009): The effect of feed cycling and ration level on the compensatory growth response in *cirrhinus mrigala* (Hamilton, 1822). Journal of Aquatic Biology, Volume 24 (1), 2009.

37. (2009): Growth, Survival and proximate body composition of *M. dayanum* larvae fed artificial food and natural food organisms under laboratory conditions. ***International Journal of Biotechnology & Biochemistry (IJBB)* 5(3), 213-221.**
38. (2009): Studies on the morphometry of *Macrobrachium dayanum* (Decapoda, Palaemonidae) *Biosciences Biotechnology Research Asia*, Vol. 6(1): 131-138.
39. (2009): Effect of eye- stalk ablation in female prawn *Macrobrachium dayanum*. *Biomedical and Pharmacology Journal* Vol.2(2):417-421.

Dr. Sanjay Bhatia:

- * Number of papers published in peer reviewed journals (national/international) : 18
 - * Monographs : Nil
 - * Chapters in Books: Nil
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: Nil
 - * Citation Index – range / average 1-5
 - * Impact Factor – range / average 0.5 - 6.22
1. (2014). Diversity of invasive alien species of Jammu district (Jammu and Kashmir) *International Journal of Interdisciplinary and Multidisciplinary Studies*, 1 (6), 214- 222. ISSN No. 2348-0343. Impact Factor : 1.95
 2. (2014). Biology of *hyposidra talaca* walker (lepidoptera: geometridae), a major defoliating pest of teak (*tectona grandis*) in Jammu, (J&K). *Journal of Environment and Bio-Sciences*, 28 (2) : 183 -186. ISSN No. 0973-6913, Impact Factor : NASS rating for this journal is 4.20 on a scale of 1 to 10.
 3. (2014). Documentation of Aquatic Invasive Alien species of Jammu region, (J&K). India. *IJIMS*, 1,(7), 90-96. ISSN No. 2348-0343. Impact Factor : 1.95
 4. (2014). Nile Tilapia (*Oreochromis niloticus*) a successful biological invader in Jammu (J&K) and its impacts on native ecosystem. *International Journal of Interdisciplinary and Multidisciplinary Studies* 1(10), 1- 5. ISSN No. 2348-0343. Impact Factor : 1.95.
 5. (2014). Invasive alien species of Kishtwar district (north-west Himalayas), Jammu and Kashmir, India. *Journal of Global Biosciences* (3), 651-659. ISSN No. 2320-1355. Impact Factor : 1.115
 6. (2014). *Alligator weed (Alternanthera philoxeroides)* a potential invader in *gharana wetland jammu*, J&K, india *International Journal of Interdisciplinary and Multidisciplinary Studies* 2(6), 1- 5. ISSN No. 2348-0343. Impact Factor : 1.95

7. (2014). Diversity and impact of invasive alien species of family Asteraceae and its impact on native faunal biodiversity in Jammu (J & K), India. International Journal of Interdisciplinary Research, 1(8), 51-62. ISSN No. 2348-0343. Impact Factor : 1.95. (2013): Bionomics of *hyblaea puera* (lepidoptera: hyblaeidae), a serious pest of teak (*tectona grandis*) from Jammu (India) Munis Entomology and Zoology, 8(1) 48 -51
8. (2013): First record of *paracoccus marginatus* (hemiptera: pseudococcidae), an invasive alien species on papaya (*carica papaya* L.) in Jammu (J&K), India. Journal of Economic Entomology. 8(2) : 21-23.
9. (2013): Documentation of invasive alien species of family asteraceae from Kishtwar (Jand K), India and their impact on native biodiversity. International journal of interdisciplinary studies 2 (2) 49-54
10. (2013): Entomological studies of *Chaetoprocta Odata*, an important pest on walnut trees (*Juglans regia* L.) in Kashmir valley, Journal of Industrial Research 2 (6) : 86 – 91.

Dr. Arti Sharma:

- * Number of papers published in peer reviewed journals (national/international) : 25
 - * Monographs : Nil
 - * Chapters in Books: 1
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: Nil
 - * Impact Factor – Range 0.35 - 5.62
1. (2015): Influence of pilgrimage on Macrobenthic invertebrate biodiversity of stream Ban Ganga, Katra, J&K, India . Indian Journal of APPLIED research.vol 5 issue 1 pp.41-43.
 2. (2015): Composition of Macrobenthic Invertebrates associated with Macrophytes in a subtropical stream Gho Manhasan, J&K (India). ISSN: 2320-5083, vol.3, Issue 2, March 2015, Journal of International Academic Research for Multidisciplinary (JIARM).
 3. (2014): “Occurrence and abundance of macro-benthic invertebrates inhabiting river Tawi, Jammu (J&K), India”. Asia. Acad. Research J. of Multi. Disci. Vol. 1 (17).
 4. (2014): Co-relations between abiotic and biotic variables of stream Ban-Ganga, Katra, Reasi Journal of Chemical, Biological and Physical Sciences .vol.4,no.1, pp.897-903.
 5. (2014): Impact of Regulation on the Physico-chemical features and zooplanktonic diversity of central Himalayan river Tawi in Udhampur (J&K) India International Multidisciplinary Research Journal vol.4(1), pp.6-15.

6. (2013): Limnological profile of Chenani Hydroelectric Reservoir, its connecting channel Tawi in Udhampur district of J&K India, International Research Journal of Biological Sciences Vol. 2(3), 76-79.
7. (2013): Association of macroinvertebrates fauna with Eichhornia crassipes (Pontederiales; Pontederiaceae) in Gho-manhasan stream, Jammu J&K, International Journal of Lakes And Rivers. Vol,6,no 1,pp.39-58,
8. (2013): Bacteriological quality assessment of a subtropical temple pond of Birpur, Jammu (J&K, India) IOSR Journal of Environmental science,toxicology and food technology.Volume 3.Issue 4 pp.19-25.
9. (2013): Characterization of lower sections of a central Himalayan river, Tawi , Jammu (J&K), India International research Journal of environmental sciences. Volume 2(3), pp.1-5.
10. (2013): Zooplankton diversity and Physico-chemical conditions of a temple Pond in Birpur (J&K, India) International Research Journal of environmental sciences., Vol.2(5),pp.1-5.
11. (2013): Seasonal variation and diversity of zooplankton community in Chennani Hydroelectric Reservoir its feeding channel and River Tawi, Udhampur, J&K, India. International Research Journal of Biological Sciences Vol.2(4),37-43.
12. (2013): The Study of Ichthyofaunal diversity of Chenani hydroelectric reservoir, Udhampur (J&K) India. International research Journal of environmental sciences. 2(6):8-12.
13. (2013): Seasonal variations in physic-chemical parameters of sub-tropical Pond of Jammu, J&K, India.Asian Academic Research Journal of Multidisciplinary Vol.1 (10):72-88.
14. (2013): Diversity of macro benthic invertebrates of a shallow freshwater pond under increasing environmental stressesGlobal Journal of Applied Environmental Sciences. Vol.3 (1):49-58.
15. (2013): Assessment of fluoride in ground and surface water bodies and its seasonal variations at Bishnah Tehsil of Jammu district, (J&K) Correlation with physico-chemical parameters. Int. J. Recent Sci. Research Vol. 4(11) 1743-1747.
16. (2013): “The Hydrochemistry and macrobenthic invertebrates as indicators of water quality of a Central Himalayan river, Tawi, Jammu (J&K), India. Global J. of Appl. Environ. Sci.. Vol. 3 (1) pp. 1-12.
17. (2013): “Sediments characterization of lower sections of a Central Himalayan River, Tawi, Jammu (J&K), India”. Int. J. of Recent Sci Research. Vol. 4 (6). Pp. 862-868.
18. (2013): “Effect of physico-chemical characteristics of sediments on the distribution of macrobenthic invertebrates in river Tawi of Jammu region (J&K) India”. International Journal of Env. Sci. Vol. 2 (3). Pp 1-5.

19. (2013): "Correlation between abiotic and Biotic variables of stream Ban-Ganga, Katra, Reasi (J&K)". J. Chem, Phy.& Biol. Sci. Vol. 4 (1): 897-903.
20. (2012): Temporal changes in the occurrence and migration trends of water birds at Gharana Wetland Reserve, Jammu , J&K State of India International Journal of Lakes And Rivers..vol.5, no.1,pp.47-62.
21. (2012): Spatio-temporal variations in the community structure of macrobenthic invertebrate fauna of Gharana Wetland (Reserve), Jammu (J&K) International Journal of Applied Environmental Sciences , Volume 7, number 2, pp 155-180.
22. (2011): Community structure of macrobenthic invertebrates inhabiting a central Himalayan river Tawi. International Journal of Lakes And Rivers. 4(1):133-143.
23. (2010): Non-stripping induced breeding of grass carp *Ctenopharyngodon idella* (vol).in Circular Chinese Hatchery using ovatide. inland Fisheries society of India Vol. 42(1).
24. (2010): Malacofaunal diversity of river Chenab fed stream (Gho-manhasan).The Bioscan vol.6 (2); 267-269.
25. (2010): Effect of different Hormones on the gonads of adults of *Puntius sophore*.J.Aquatic Biology 24(2)239-244.

Dr. Parvinder Kumar :

- * Number of papers published in peer reviewed journals (national/international) : 17
 - * Monographs : Nil
 - * Chapters in Books: Nil
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: Nil
 - * Impact Factor – range / average 0.37 - 5.114
1. (2015): Impact of Urbanisation on water Supply wells in and around Jammu City, District Jammu, J&K, India. International research Journal of Natural and Applied Science, Vol-2, Issue-3 (March 2015) ISSN: (2349-4077) P 164-189
 2. (2015): Meiotic Chromosomes And Karyotype Of *Puntius Ticto* (Cyprinidae) From Kathua Region (J&K), India. International Journal of Recent Scientific Research, Vol. 6, Issue, 2, pp.2863-2866, February, 2015.
 3. (2015): To Study The Determination of Median Tolerance Limit (LC50) of *Clarias* *Batrachus* for Zinc sulphate and Copper sulphate. World Journal of Pharmaceutical Research, Volume 4, Issue 2, 496-501. Research Article ISSN 2277– 7105, 2015 Impact Factor 5.045

4. **(2014):** The Gly482SerVariant in the Peroxisome Proliferator Activated Receptor Co Activator 1 (PGC 1) Augments with Impaired Glucose Tolerance in Three Ethnic Groups (Brahmins, Khattris and Guptas) of Jammu Region of J&K State. International Journal of Molecular Genetics. ISSN 2249-4227 Volume 5, Number 1 **(2014)**, pp. 17-25
5. **(2014) :** Genetic variation of genes in lipid metabolism (LPL), endothelial dysfunction (PLAT) and cholesterol metabolism (PGC1?): their interaction with basic lifestyle changes in patients vis-a-vis role in pathophysiology of type 2 diabetes with cardiovascular complications: A cross sectional study from J&K. The Journal of Human Disease. Photon 113 (2014) 176-189. Original Research Article. ISJN: 3357-6238: Impact Index: 4.31
6. **(2014):** The Gly482SerVariant in the Peroxisome Proliferator Activated Receptor Co Activator 1 (PGC 1) Augments with Impaired Glucose Tolerance in Three Ethnic Groups (Brahmins, Khattris and Guptas) of Jammu Region of J&K State. International Journal of Molecular Genetics. ISSN 2249-4227 Volume 5, Number 1 pp. 17-25
7. **(2014):** Genetic variation of genes in lipid metabolism (LPL), endothelial dysfunction (PLAT) and cholesterol metabolism (PGC1?): their interaction with basic lifestyle changes in patients vis-a-vis role in pathophysiology of type 2 diabetes with cardiovascular complications: A cross sectional study from J&K. The Journal of Human Disease. Photon 113 (2014) 176-189. Original Research Article. ISJN: 3357-6238: Impact Index: 4.31
8. **(2013):** Study of Genetic Variation of Alu CD4, LPL PvuII and ESR1-PvuII in Different Population Groups of Jammu Region (J&K) International Journal of Biological and Biomedical sciences, vol.1 No.8 Sept. 2013.
9. **(2013):** Multiple Xy Syndrome: A Case Study: Impact: International Journal of Research in Applied, Natural and Social Sciences (IMPACT: IJRANSS) ISSN 2321-8851 Vol. 1, Issue 3, Aug 2013, 87-90
10. **(2013):** Association of insertion/deletion polymorphism of *Alu* angiotensin converting enzyme insertion/deletion genotype with type 2 diabetes mellitus and hypertension in J&K population: A case control study. Journal of Medical Genetics and Genomics Vol. 4(2), pp. 25 - 28, Feb 2013.
11. **(2012):** A preliminary study of Impact of Black top Road on the wildlife along the Mugal Road (Jammu & Kashmir) Heritage and Cultural Routes: An Anthology "Global Cultural Routes:Tourism and Socio-Economic Viability" 2012.
12. **(2012):** Human- specific *Alu* Insertion/Deletion Polymorphisms in Various Population Groups of Jammu Region. Int J Hum Genet, 12(4): 311-317 (2012).
13. **(2012):** Androgen Insensitivity Syndrome (Testicular Feminization) A Case Report. The Journal of Obstetrics and Gynecology of India. Springer Publishers. Jan., 2012.
14. **(2011):** Study of Association of Non Genetic Risk Factors with Type 2 Diabetes Mellitus of Jammu Region in "Journal of Human Ecology" **Vol.** 36(3): 217-221 (2011).

15. (2010): Human-specific Alu insertion/deletion polymorphisms in Gujjar population of Jammu region of (J&K) state in **Biomedical & Pharmacology Journal** Vol. 03 No. 01, 2010.
16. (2010): Clinical & Cytogenetic Analysis of Human Anemias from Jammu Region of J & K State in **Asian Journal of Hematology and Blood Transfusion Medicine**, Vol. 4 Issue 2, July 2010.
17. (2010): Chromosomal anomalies in referred cases with suspected Genetic Disorder: A report from Jammu & Kashmir (J&K) in **International Journal of Human Genetics**, 2010.

Dr. Sarbjeet Kour:

- * Number of papers published in peer reviewed journals (national/international) : 13
 - * Monographs : Nil
 - * Chapters in Books: Nil
 - * Edited Books: Nil
 - * Books with ISBN with details of publishers: Nil
 - * Impact Factor – Range 0.45 - 5.72
1. (2015): Seasonality of Invertebrate fauna inhabiting lower shiwalik stream, philodinavus Paradoxus – the first report. **GRT**, ISSN: 2231-5063, vol.4, Issue 7, Jan. 2015.
 2. (2015): Diversity of Zooplankton and Macrobenthic invertibrates of two perennial ponds in Jammu Region, **Journal of Global Biosciences**, ISSN: 2320-1355, vol.4, No.2, 2015.
 3. (2014): A Study on the diversity of a sub-tropical perennial pond of Jammu, J&K, India. *Asian Academic Research Journal of Multidisciplinary*, Vol. 1(19): (506-520).
 4. (2014): Habitat preference of Rotifers in some subtropical waters of lower shivaliks. *Journal of International academic research for multidisciplinary*. ISSN 2320-5083, vol. 2(8), 2014.
 5. (2014): Spatial distribution of invertebrate fauna in a lower shiwalik stream, J&K. *Journal of International academic research for multidisciplinary*. ISSN 2320-5083, vol. 2(8), 2014.
 6. (2014): Devi Arti and Chowdhary Samita (2014). A Study on the diversity of a sub-tropical perennial pond of Jammu, J&K, India. *Asian Academic Research Journal of Multidisciplinary*, Vol. 1(19): (506-520).
 7. (2014): Seasonal variations in Physicio-chemical parameters of subtropical waters of lower shivaliks of Jammu region. *Journal of International academic research for multidisciplinary*. ISSN 2320-5083, vol. 2(8), 2014.

8. (2014): Comparative diversity of Rotifers inhabiting some waters of shivalik foothills. *Journal of Science ISSN 2277-3282, vol.4(8) 2014.*
9. (2013): Seasonal variations in Physico chemical parameters of subtropical pond of Jammu, J&K, India. *Vol.1, (10) 2013. AARJMD.*
10. (2013): Biodiversity and Abundance of Benthic Macro Invertebrates Community of Datte-Da-Talab Pond, Birpur (J&K) India. *ISSN 2231-6302, (3)(1) 2013. International Multidisciplinary Research Journal.*
11. (2013): Bacteriological quality assessment of a subtropical temple pond of Birpur, Jammu (J&K) India., *IOSR-JESTFT, e-ISSN: 2319-2402, vol.4(4) 2013.*
12. (2013): A new record of rotifer (Family: Dicranophoridae) from survey of some Pir panjal waters, J&K, India. *International research Journal of Environment Sciences, Vol. 2(4), 2013, pp 1-5.*
13. (2013): Habitat Preference of Rotifers Inhabiting some Waters of Jammu province, J&K, India. *International Research Journal of Biological Sciences, ISSN 2278-3202, vol.2(6) June 2013.*
23. Details of patents and income generated (w.e.f. 1st June 2009 to 28th February 2015) : Nil
24. Areas of consultancy and income generated (w.e.f. 1st June 2009 to 28th February 2015) : Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad (w.e.f. 1st June 2009 to 28th February 2015) : Nil
26. Faculty serving in
 - a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Prof. K.K. Sharma,

- Member, Board of Research Studies in Biosciences of H.P. University, Shimla.
- Member, Board of Research Studies in Zoology of North East Hill University, (NEHU) Shillong.
- Member Board of Research Studies in Zoology and Environment Science of Gurukul Kangri University, Haridwar.
- Member, Board of Research Studies in Environmental Sciences, Agra University.
- Member, Board of Research Studies in Zoology in Meerut University.
- Member, Board of Studies in Environment Sciences Kashmir University, Srinagar.

- Member, Dissertation Monitoring Committee in Zoology of Guru Nanak Dev University Amritsar.
- Member, Board of Research Studies in Zoology of Guru Nanak Dev University Amritsar.
- Member, Board of Studies in Rahulkhand University Bareilly.
- Member, Dissection Monitoring Committee in Zoology of Guru Nanak Dev University Amritsa.
- Member, Academic Council, University of Jammu, 2012-15.
- Member, University Syndicate, University of Jammu, 2012-15.
- Convenor, Board of Studies of under graduate and post graduate in Zoology, University of Jammu.
- Convenor, Board of Studies of under graduate and post graduate in Sericulture, University of Jammu.
- Convenor, Board of Studies in undergraduate and post graduate in Fish and Fisheries of University of Jammu.
- Convenor, Board of Studies of Post graduate in Human Genetics, University of Jammu.
- Convenor, Departmental Research Committee in Human Genetics, University of Jammu.
- Membership of Statutory Committees of University.
- Membership of the Board of Studies/Research studies of other Universities.
- Membership of the UGC /NAAC Committees.
- Elected member of Indian Science Congress, J&K Chapter 2008-2014.
- Elected Convenor (President) Indian Science Congress, J&K Chapter.

Prof. J.S. Tara:

- Member of Regional Research Advisory Committee, Central Silk Board, Ministry of textiles, GOI, RSRS, Miran Sahab, Jammu.
- Dr. Sanjay Bhatia :
One of the National partner of International Project sponsored by GEF/UNEP/FAO/GBPIHED and member National Steering Committee.

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). (w.e.f. 1st June 2009 to 28th February 2015)

Three faculty members namely Dr. Arti Sharma, Dr. Parvinder Kumar & Dr. Sarbjeet Kour attended Orientation Course organized by UGC Academic Staff College, University of Jammu from 17.6.14-21.7.2014.

28. Student projects (w.e.f. 1st June 2009 to 28th February 2015) : N.A.
29. Awards / recognitions received at the national and international level by Faculty (w.e.f. 1st June 2009 to 28th February 2015)
- Prof. K.K. Sharma received a Gold Medal as Fellowship Award in International Conference on 'Harmony with Nature', Lucknow, March 6, 2014.
 - Dr. Parvinder Kumar, Asst. Professor, received Young Scientist Award (J&K State Council for Science and Technology, Govt. of J&K) in 9th JK Science Congress held in University of Kashmir in October 2012.
 - Dr. Sarbjeet Kour, Asst. Professor, received Best Poster presentation award in International Conference on 'Harmony with Nature', Lucknow, March 6, 2014.
 - Dr. Shvetambri Jasrotia & Dr. Rakesh Panjalia got Fast Track Projects of Young Scientists Scheme under Science and Engineer Research Board of Department of Science & Technology of Govt. of India.
30. Seminars/ Conferences/Workshops organized and the source of funding (national/ International) with details of outstanding participants, if any. (w.e.f. 1st June 2009 to 28th February 2015)

Seminars/Conferences/Workshops attended by Prof. K.K. Sharma

S. No.	Title of the paper/poster presented	Title of Conference/ Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	<ul style="list-style-type: none"> • Ecological Impact of Chenani Hydroelectric Reservoir on Physio Chemical Parameters and Fish fauna of river Tawi's (Udhampur J&K) India. • A study of biochemical changes in the freshwater fish channa punctatus exposed to various concentration of copper sulphate. 	Environmental Issues, Toxicology and Exposure Science	September 20, 2013	Jaipur	National Conference

2.	<ul style="list-style-type: none"> • Impact of Sewage on water quality and benthic macro invertebrate fauna of river Tawi, Jammu (J&K). 	Harmony with Nature	November 11, 2013	Gorakhpur	International Conference
3.	<ul style="list-style-type: none"> • Water quality assessment of a sub-tropical perennial pond of Jammu (J&K) with special reference to its macrobenthic and bacterial fauna. • Preliminary survey of ichthyofauna of some lotic waterbodies of R.S. Pura tehsil, Jammu. 	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	National Science Congress
4.	<ul style="list-style-type: none"> • Groundwater quality: Focus on fluoride concentration in R.S. Pura tehsil of Jammu district, J&K. • Acute toxicity of chlorpyrifos on adult cyclopoid copepod, mesocyclops leuckarti (Claus 1857). 	National Seminar on 'Biodiversity Sustainable Development and its Conservation'	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar
5.	<ul style="list-style-type: none"> • Impact of ongoing construction of a barrage on some physio-chemical parameters of river Tawi. Diversity and distribution of macrobenthic invertebrate fauna in behlol nullah (A tributary of river Tawi) in Jammu. 	International Conferences on 'Harmony with Nature'	March 6, 2014	Lucknow	International Conferences

6.	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change	25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar
7.	-	One day workshop on Patent Designs, Trademarks and Intellectual Property Rights	24 th Feb. 2015	Dept. of Zoology, University of Jammu and J&K State Council for Science and Technology, Govt. of J&K	Workshop
8.	<ul style="list-style-type: none"> The impact of ZnSO_4 on serum proteins and glucose levels of fish <i>channa punctatus</i>. 	“Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress
9.	<ul style="list-style-type: none"> Studies on altitudinal variation in the distribution of crustacean in Freshwater of Jammu province. 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar

Seminars/Conferences/Workshops attended by Prof. Roopma Gandotra

S. No.	Title of the paper/poster presented	Title of Conference/Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	<ul style="list-style-type: none"> • Lepidological studies of fishes from Jammu region. • Fish diversity and assemblage structure at sai stream- A tributary of river Tawi, Jammu (J&K). • Altitudinal differences in ichthyofaunal diversity of river Tawi and its tributaries. 	101 st Indian Science Congress	February 3 rd -7 th , 2014	University of Jammu	National Science Congress
2.	<ul style="list-style-type: none"> • Effect of feeding levels on the growth of <i>tor putitora</i> at fry and fingerling stage. • Effect of replacement of fishmeal with slaughter house waste in the formulated diets with varying protein levels for the optimum growth of <i>Labeo rohita</i> (Ham.) fingerlings. • Assessment of heavy metal pollution in river tawi. 	National Seminar on 'Biodiversity Sustainable Development and its Conservation'	March 6 th - 7 th , 2014.	Department of Zoology, University of Jammu	National Seminar
3.	-	Patent Designs, Trademarks and Intellectual Property Rights	24 th Feb. 2015	Dept. of Zoology, University of Jammu and J&K State Council for Science and Technology, Govt. of J&K	Workshop

4.	<ul style="list-style-type: none"> • Comparative Assessment of proximate composition and microbial quality of raw and value added fish product of wallage attu at -12⁰ c 	“Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress
5.	<ul style="list-style-type: none"> • Assessment of Heavy Metal Pollution in River Tawi 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
6.	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

Seminars/Conferences/Workshops attended by Prof. J.S. Tara

S. No.	Title of the paper/poster presented	Title of Conference/Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	<ul style="list-style-type: none"> Life cycle of papilio polytes reported from Jammu. 	Environmental Issues, Toxicology and Exposure Science	September 20, 2013	Jaipur	National Conference
2.	<ul style="list-style-type: none"> A study on the life cycle of paramecops farinose (Wiedemann) (Coleoptera: Curculionidae), A serious pest of calotropis procera (AIT) R.BR. in Jammu region (J&K). 	Harmony with Nature	November 11, 2013	Gorakhpur	International Conference
3.	<ul style="list-style-type: none"> Morphological studies of some coccinellidae (Ladybirds) collected from Kargil (Ladakh). Management of apple tree borer, aeolesthes holosericea fabricius on apple trees (Malus domestica borkh). In Jammu province, Jammu and Kashmir state. 	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	National Science Congress
4.	<ul style="list-style-type: none"> Biology and morphometric studies of aquatic bug, sphaerodema molestrum (Hemiptera: Belostomatidae), from Jammu (J&K), India. Effect of abiotic factors on mango leaf hopper, idioscopus clypealis leth. Population on wild and different cultivars of mango in Jammu region. 	National Seminar on 'Biodiversity Sustainable Development and its Conservation	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar

5.	-	Patent Designs, Trademarks and Intellectual Property Rights	24 th Feb. 2015	Dept. of Zoology, University of Jammu and J&K State Council for Science and Technology, Govt. of J&K	Workshop
6.	<ul style="list-style-type: none"> Report of culicinae diversity from various urban sites of Jammu District, J&K 	Science & Technology for Inclusive Development: A Way Forward	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress
7.	<ul style="list-style-type: none"> Studies of weevils belonging to family Rhynchophoridae (Insecta: coleopteran) in Poonch district, Jammu Region, J&K, India 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
8.	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17 th - 19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

Seminars/Conferences/Workshops attended by Prof. Seema Langer

S. No.	Title of the paper/poster presented	Title of Conference/ Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	<ul style="list-style-type: none"> Effect of Manganese on the Haemopoietic organs of <i>Garra gotyla gotyla</i>. Study of physio-chemical parameters and ichthyogaunal diversity of Ranjit Sagar Reservoir 	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	National Science Congress
2.	<ul style="list-style-type: none"> Inventory on the diversity of fresh water crabs in some water bodies of Jammu (J&K) North India. Impact of ongoing construction of a barrage on some physio-chemical parameters of river Tawi. Diversity and distribution of macrobenthic invertebrate fauna in behlol nullah (A tributary of river Tawi) in Jammu. 	National Seminar on 'Biodiversity Sustainable Development and its Conservation'	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar
3.	-	"Patent Designs, Trademarks and Intellectual Property Rights"	24 th February, 2015	Department of Zoology, University of Jammu, Jammu and J&K State Council for Science & Technology, Govt. of J&K	Workshop

4.	<ul style="list-style-type: none"> • Inventory in Tor Putitora from Jammu region. 	on “Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress
5.	<ul style="list-style-type: none"> • Diversity of fresh H₂O previous in Jammu waters. 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
6.	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

Seminars/ Conferences/ Workshops attended by Dr. Sanjay Bhatia

S. No.	Title of the paper/poster presented	Title of Conference/ Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	<ul style="list-style-type: none"> • National Workshop on National Reproductive Biology for Biodiversity conservation, • Diversity of insect pests on Juglans Regia L. in Kashmir 		November, 2013	Department of Botany, University of Jammu	National Workshop
2.	<ul style="list-style-type: none"> • First records on the diversity and natural history of giant crab spiders (Araneaf: Sparasidae) from Jammu region of J&K, India 	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	National Science Congress
3.	<ul style="list-style-type: none"> • Diversity and documentation of invasive alien species of Kishtwar district (J&K). • Diversity and impact of invasive alien species on the biodiversity of Jammu 	National Seminar on 'Biodiversity Sustainable Development and its Conservation	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar
4.	-	Patent Designs, Trademarks and Intellectual Property Rights	24 th Feb. 2015	Dept. of Zoology, University of Jammu and J&K State Council for Science and Technology, Govt. of J&K	Workshop

5.	<ul style="list-style-type: none"> • AFOLESTHES SARTA (Cerambycidae: Coleoptera), Major pest, A potential threat to walnut plantations (Juglans Region L.) in Kashmir valley. 	“Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress
6.	<ul style="list-style-type: none"> • First record of invasive alien plant species of family convolvulaceae from the district Jammu (J&K, India) 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
7.	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

Seminars /Conferences/Workshops attended by Dr. Arti Sharma

S. No.	Title of the paper/poster presented	Title of Conference/ Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	• Workshop on 'Biofloc Technology: An ecofriendly Technology for intensive production of Fish and Prawn		13-16 September 2011	Department of Zoology, University of Delhi, Delhi	Workshop
2.	• Impact of Sewage on water quality and benthic macro invertebrate fauna of river Tawi, Jammu (J&K).		September 20, 2013	Jaipur	National Conference
3.	• Ecological Impact of Chenani Hydroelectric Reservoir on Physio Chemical Parameters and Fish fauna of river Tawi's (Udhampur J&K) India	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	National Science Congress
4.	• Preliminary survey of ichthyofauna of some lotic waterbodies of R.S. Pura tehsil, Jammu	National Seminar on 'Biodiversity Sustainable Development and its Conservation	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar
5.	• Effect of pilgrimage on water quality of steam Ban-Ganga, Katra, J&K	Harmony with Nature	November 11, 2013	Gorakhpur	International Conference

6.	• Macro-benthos – as bioindicator of a stream of lower Shiwaliks.	International Conferences on ‘Harmony with Nature’	March 6, 2014	Lucknow	International Conferences
7.	-	Patent Designs, Trademarks and Intellectual Property Rights	24 th Feb. 2015	Dept. of Zoology, University of Jammu and J&K State Council for Science and Technology, Govt. of J&K	Workshop
8.	-	Bioinformatics Approaches in the “Omics” era	10-11 March 2015	School of Biotechnology, SMVDU Katra	Workshop
9.	• Growth response of Indian Major Corp., Labeo Rohita Reared on Bioflex system.	“Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress

10	<ul style="list-style-type: none"> Assessment of Benthic macroinvertebrates and Aquatic insects as water quality indicator in Basantar stream of Samba District. 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
11	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

Seminars /Conferences/Workshops attended by Dr. Parvinder Kumar

S. No.	Title of the paper/poster presented	Title of Conference/Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	<ul style="list-style-type: none"> • High prevalence of HPV-18 cervical tissue of women from Jammu region of J&K India. • Clinical implications of genetic diversity in cardiovascular diseases. • ‘Human Chromosome & Human Genetic Diseases’, in 21 days Training Course on “Recent Trends in Optimizations of livestock Health and Production with Special Emphasis to Hilly Areas” organized by Faculty of Veterinary Sciences and Animal Husbandry, SKUAST-J, R.S.Pura, Jammu on December 13, 2013. 	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	National Science Congress
2.	<ul style="list-style-type: none"> • Angiotensin converting enzyme (Ace) Gene diversity in hypertension. • Genetic diversity of pick gene and its association with diabetes mellitus in three population groups of Jammu. 	National Seminar on ‘Biodiversity Sustainable Development and its Conservation	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar

	<ul style="list-style-type: none"> • ‘Human Genetic Disorders’ in 2nd J&K Women Congress organized by Govt. College for Women, Parade Ground, Jammu, sponsored by J&K State Council for Science and Technology J&K Govt., November 5-7, 2013. • ‘Human Chromosomes & Human Genetic Disorders’ as resource person in 6 days Regional Level Science Congress, organized by Jawahar Navodaya Vidyalaya, Ministry of Human Resource Development (Department of School Education & Literacy), GOI, Nud, Distt. Samba (J&K). 				
3.	-	Patent Designs, Trademarks and Intellectual Property Rights	24 th Feb. 2015	Dept. of Zoology, University of Jammu and J&K State Council for Science and Technology, Govt. of J&K	Workshop
4.	-	Bioinformatics Approaches in the “Omics” era	10-11 March 2015	School of Biotechnology, SMVDU Katra	Workshop
5.	<ul style="list-style-type: none"> • Assessment of Role of PGCIX Gene in the progression of obesity in diabetic patients of J&K state. 	“Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress

6.	<ul style="list-style-type: none"> A study on Association of KCNJII (E23K) Gene polymorphism with type 2 diabetes Mellitus in Jammu Region (J&K) 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
7.	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

Seminars/Conferences/Workshops attended by Dr. Sarbjeet Kour

S. No.	Title of the paper/poster presented	Title of Conference/ Seminar etc.	Date(s) of the event	Organised by	Whether International /National/ State/ Regional/ University or college level
1.	• Vegetation as a key factor for rotifer inhabitation in two nearby running streams of Udhampur district, J&K.		September 20, 2013	Jaipur	National Conference
2.		Harmony with Nature	November 11, 2013	Gorakhpur	International Conference
3.	• Diversity of inhabitants of a Shivalik stream, J&K	101 st Indian Science Congress	February 3-7, 2014	University of Jammu	
4.	• Water quality assessment of a sub-tropical perennial pond of Jammu (J&K) with special reference to its macrobenthic and bacterial fauna	National Seminar on 'Biodiversity Sustainable Development and its Conservation	March 6-7, 2014.	Department of Zoology, University of Jammu	National Seminar
5.	• Rotifera: a comparative study on distribution and abundance in some waters of lower Shivaliks, J&K.	International Conferences on 'Harmony with Nature'	March 6, 2014	Lucknow	International Conferences

6.	-	Bioinformatics Approaches in the “Omics” era	10-11 March 2015	School of Biotechnology, SMVDU Katra	Workshop
7.	-	“Patent Designs, Trademarks and Intellectual Property Rights”	24 th February, 2015	Department of Zoology, University of Jammu, Jammu and J&K State Council for Science & Technology, Govt. of J&K	Workshop
8.	<ul style="list-style-type: none"> • Faunal Diversity of Rotifers of Botanical garden, Pond, University of Jammu (J&K) India. 	on “Science & Technology for Inclusive Development: A Way Forward”	March 14-16, 2015	University of Jammu & J&K State Council for Science and Technology	10 th JK Science Congress
9.	<ul style="list-style-type: none"> • Distribution of fluoride ions in some drinking water sources of Jammu district. 	“Science and Technology for Human Development and SAP (UGC) Workshop on “Biodiversity and Conservation: Present Status and Future Perspective in collaboration with The Indian Science Congress Association, Kolkata and Jammu Chapter, ISCA	25 th - 27 th March, 2015	Department of Zoology, University of Jammu	National Seminar
10	-	“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and climate change and 25 th All India Congress of Zoology	17-19 th November, 2014	Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar	National Seminar

31. Code of ethics for research followed by the departments

- Departmental Ethical Committee has been constituted to strictly follow the code of ethics in research while dealing with animals.

32. Student profile programme-wise:

Name of the Prog. (refer to question no. 4)	Applications received			Selected						Pass percentage					
				Male			Female			Male			Female		
	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D
2009-10	950	65	16	12	05	6	21	05	10	83%	100%		92%	100%	
2010-11	820	60	15	09	03	02	25	07	12	100%	100%		94%	100%	
2011-12	900	54	18	08	03	7	23	07	11	90%	100%		90%	100%	
2012-13	1050	63	18	09	02	05	27	09	08	90%	100%		84%	100%	
2013-14	800	65	08	02	03	-	28	05	05	100%	100%		91%	100%	
2014-15	885	60	16	09	01	04	21	07	08	90%	100%		96%	100%	

33. Diversity of students

Name of the Programme (refer to question no. 4)	% of students from the same university			% of students from other universities within the state			% of students from universities outside the state			% of students from other countries		
	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D
2009-10	97%	90%	90%	3%	10%	10%	-	-	-	-	-	-
2010-11	97%	100%	100%	3%	-	-	-	-	-	-	-	-
2011-12	100%	100%	100%	-	-	-	-	-	-	-	-	-
2012-13	94%	90%	90%	6%	10%	10%	-	-	-	-	-	-
2013-14	100%	90%	90%	-	10%	10%	-	-	-	-	-	-
2014-15	100%	100%	100%	-	-	-	-	-	-	-	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. (w.e.f. 1st June 2009 to 28th February 2015)

NET Qualified=21, KAS = 30, SET = 14

S. No.	Name of the student	Year	NET, JRF, SET, GATE	Placement
1.	Kunal Sharma	2014	NET-JRF	Ph.D.
2.	Palaq	2014	NET-JRF	Ph.D.
3.	Reetika Singh	2014	NET	Govt. Dept.
4.	Sonia Raj	2014	NET	M.Phil.
5.	Sloni Gupta	2014	NET	Govt. Job
6.	Neha Antal	2013	NET	Ph.D.
7.	Irfan Ahmed Noorani	2013	NET-JRF	Ph.D.
8.	Mumtaz Choudhary	2013	NET	Govt. Job
9.	Abrar Ahed	2013	NET-JRF	KAS
10.	Shavinder Singh	2013	NET	Govt. Job
11.	Ritika Anthal	2013	NET	Ph.D.
12.	Mohd. Shafait	2012	NET-JRF	KAS
13.	Sunil Kumar	2012	NET-JRF	Ph.D.
14.	Rupinder Kaur	2011	NET	Ph.D.
15.	Stanzin Yangot	2011	NET-JRF	M.Phil.
16.	Bhawandeep Kaur	2011	NET	Ph.D.
17.	Rakesh Gupta	2011	NET-JRF	Ph.D.
18.	Waseen Rashid	2011	NET	KAS
19.	Anita Kumari	2011	NET-JRF	Ph.D.
20.	Rohit Bhardwaj	2010	NET	Ph.D.
21.	Neha Sharma	2010	NET	Ph.D.
22.	Rubeena Kouser	2014	NET	KAS
23.	Qadeer Charak	2014	-	KAS
24.	Rupinder Kour	2014	-	KAS
25.	Inzar Rana	2014	-	KAS
26.	Adil Husdsain	2014	-	KAS
27.	Aditi Sharma	2014	-	KAS
28.	Saba Noor	2014	-	KAS

29.	Surbhi Raina	2011	-	KAS
30.	Rehana Tabassum	2011	-	KAS
31.	Naveed Anjum	2011	-	KAS
32.	Mohd. Nawaz	2010	-	KAS
33.	Sheezan Bhat	2010	-	KAS
34.	Sajad Choudhary	2010	-	KAS
35.	Devinder Bandral	2010	-	KAS
36.	Ravi Shanker	2011	-	KAS
37.	Sandeep Kumar	2011	-	KAS
38.	Rashi Dutta	2011	-	KAS
39.	Narinder Raina	2011	-	KAS
40.	Aarti Phonsa	2010	-	KAS
41.	Amreena Mughal	2010	-	KAS
42.	Tariq Malik	2011	-	KAS
43.	Sukhdeep Singh	2011	-	KAS
44.	Ravdeep Kaur	2011	-	KAS
45.	Anuradha Thakur	2011	-	KAS
46.	Mohd. Shafait	2011	-	KAS
47.	Auqil Nuvaaid	2011	-	KAS
48.	Aamir Rather	2011		KAS

Set Qualified

49.	Irfan Ahmed Noorani	2013		Ph.D.
50.	Sonia Raj	2013		M.Phil.
51.	Monika Sharma	2013		M.Phil
52.	Chandni	2013		Govt Job
53.	Rakesh Rometra	2013		Govt Job
54.	Pryati Sharma	2013		-
55.	Inzar Rana	2013		KAS
56.	Ashima Anthal	2013		Pursuing Ph.D.

57.	Surbhi Raina	2011		KAS
58.	Rehana Tabassum	2011		KAS
59.	Neelam Saba	2010		Govt Job
60.	Vaini Gupta	2010		Ph.D.
61.	Waseen Rasheed	2010		KAS
62.	Komal Bangotra	2010		Govt Job

35. Student progression (w.e.f. 1st June 2009 to 28th February 2015)

Student progression	Percentage against enrolled
UG to PG	N.A.
PG to M.Phil.	25%
PG to Ph.D.	25%
Ph.D. to Post-Doctoral	Less than 1%
Employed	
■ Campus selection	N.A.
■ Other than campus recruitment	90% - 100%
Entrepreneurs	Less than 10%

36. Diversity of staff

Percentage of faculty who are graduates of the same University	90%
from other universities within the State	8/9
from universities from other States	1/9
from universities outside the country	—

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (w.e.f. 1st June 2009 to 28th February 2015)

N.A.

38. Present details of departmental infrastructural facilities with regard to

a. Library Books	:	3046
b. International Journals	:	06
c. Indian Journals	:	04
d. Internet facilities for staff and students	:	25

- e. Total number of class rooms : 02
- f. Class rooms with ICT facility : 02
- g. Students' laboratories : 02
- h. Research laboratories : 05

39. List of doctoral, post-doctoral students and Research Associates (w.e.f. 1st June 2009 to 28th February 2015)

1. from the host institution/university
2. from other institutions/universities

S.No.	Name of the scholar	Name of Supervisor	Awarded
1.	Rajinder Singh	Prof. M.K. Jyoti	30.07.09
2.	Medhya Shafiq	Prof. M.K. Jyoti	17.12.09
3.	Mushtaq Ahmad Bhat	Prof. S.C. Gupta	07.09.09
4.	Ajaz Ahmed	Prof. D.N. Sahi	07.09.09
5.	Rukhsana Kouser	Dr. Sanjay Bhatia	30.11.10
6.	Rajni Choudhary	Dr. Sanjay Bhatia	27.12.10
7.	Preeti Verma	Prof. K.K. Sharma	08.06.10
8.	Monika Chhetry	Prof. J.S. Tara	26.08.10
9.	Hina	Prof. Roopma Gandotra	30.11.10
10.	Anurag Dubey	Prof. N.K. Tripathi	08.06.10
11.	Naseem Javaid Choudhary	Prof. D.N. Sahi	30.11.10
12.	Shakti Sagar	Prof. Roopma Gandotra	27.12.10
13.	Jyoti Sharma	Prof. K.K. Sharma	12.07.11
14.	Rahul Kait	Prof. D.N. Sahi	30.08.11
15.	Shvetambri	Prof. K.K. Sharma	Dec.2011
16.	Rakesh Kumar	Prof. Subash Gupta	28.12.11
17.	Samiriti Aggarwal	Prof. D.N. Sahi	30.08.11
18.	Roopali Fotra	Prof. S.C. Gupta	26.12.12
19.	Poonam Sambyal	Prof. D.N. Sahi	25.01.12

20.	Deepti Kotwal	Prof. D.N. Sahi	04.12.12
21.	Sheetu Raina	Prof. Kadambri Gupta	28.08.12
22.	Samita Choudhary	Prof. K.K. Sharma	29.02.12
23.	Anupriya Sachar	Prof. Kadambri Gupta	28.08.12
24.	Krishma Gupta	Prof. Kadambri Gupta	04.12.12
25.	Anurangzeb Anjum	Prof. Kadambri Gupta	21.06.12
26.	Upma	Prof. Subash Gupta	25.01.12
27.	Chanderakiran	Prof. K.K. Sharma	31.05.12
28.	Alpana Vohra	Prof. Kadambri Gupta	22.03.12
29.	Ruchi Gupta	Prof. J.S. Tara	04.03.13
30.	Fareed Ahmed	Prof. D.N. Sahi	01.08.13
31.	Surbhi Sethi	Prof. Subash Gupta & Prof. A.J.S. Bhanwar	29.04.13
32.	Ruchi Sharma	Prof. K.K. Sharma & Prof. Seema Langer	01.08.13
33.	Poonam	Prof. N.K. Tripathi	01.08.13
34.	Shakha Sharma	Prof. J.S. Tara	27.06.14
35.	Kapil Dev	Prof. D.N. Sahi	27.06.14
36.	Sanjay Kotwal	Prof. K.K. Sharma	27.06.14
37.	Sunil Raina	Prof. S.C. Gupta & Prof. N.K. Tripathi	19.03.14
38.	Ramnik Kour	Prof. J.S. Tara	19.05.14
39.	Madhu Sudan	Prof. J.S. Tara	19.05.14
40.	Pritpal Kour	Prof. N.K. Tripathi	31.10.14
41.	Jyoti Sharma	Prof. Kadambri Gupta & Prof. Seema Langer	18.06.14
42.	Sumita Sharma	Dr. Sanjay Bhatia	11.07.14
43.	Tsewang Motup	Prof. D.N. Sahi	17.01.14
44.	Neelam Saba	Prof. N.K. Tripathi	17.01.14
45.	Sanjeev Kumar Karlopia	Prof. Seema Langer	05.01.15

46.	Sajad Ahmad Khan	Prof. N.K. Tripathi	05.01.15
47.	Pallavi Jamwal	Prof. N.K. Tripathi	08.04.15
		M.Phil.	
48.	Chhavi Sharma		16.01.15
49.	Ajaz Ahmed Noori		24.11.14
50.	Pallavi Shrikhandia		04.02.14
51.	N aila Zaffar		28.05.14
52.	Neha Sharma		01.07.14
53.	Hiteshi Jamwal		26.05.14
54.	Amandeep Kour		26.05.14
55.	Dalbir Singh Parihar		20.03.14
56.	Harsimransingh		20.03.14
57.	Sapana Jangral		20.03.14
58.	Neha Antal		21.05.13
59.	Meenakshi Bhagat		21.05.13
60.	Pawandeep Kour		27.02.13
61.	Shalini Sharma		10.12.13
62.	Minakshi Koul		18.10.12
63.	Rakesh Kumar Gupta		30.08.12
64.	Azra Zeenat		30.08.12
65.	Ashima Anthal		11.07.12
66.	Ruchika Bhutyal		20.07.12
67.	Surbhi Raina		11.05.12
68.	Rohit Bhardwaj		03.02.12
69.	Lokesh Jalpuri		22.07.10
70.	Anuradha Parihar		14.11.11
71.	Sarit Andotra		14.11.11
72.	Bhawandeep Kour		04.11.10
73.	Monika Sharma		14.09.09

74.	Chetna Sharma		29.09.09
75.	Madhusudan		27.01.09
76.	Deep Naval Kour		18.08.09
77.	Kritika Raina		18.08.09
78.	Arun Kumar Bhadyal		18.08.09
79.	Meenakshi Saini		12.10.09
80.	Rachna Gupta		30.06.09
81.	Sumita Rao		24.03.09
82.	Pauri		24.03.09
83.	Archana Kumari		20.01.09

40. Number of post graduate students getting financial assistance from the university : 02
(01 for Merit scholarship and 01 for Merit-cum-means scholarship) @Rs.200/- p.m. per student every year.
41. Was any need assessment exercise undertaken before the development of new programme(s)?
If so, highlight the methodology. N.A.
42. Does the department obtain feedback from
1. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
 - Yes, the feedback is generally gathered from the students during seminars and practical classes and while framing the curriculum, suggestions are taken care of.
 2. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
 - The Department seeks regular feedback from the students at the end of each semesters and suggestions, if any, are incorporated.
 3. Alumni and employers on the programmes offered and how does the department utilize the feedback?
 - Our department regularly organises Alumni interactive meets.

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

1. Prof. H.S. Sehgal - Director Research, Punjab University, Ludhiana, Presently HOD, Environmental Sciences, Central University, Jammu.
2. Prof. Kadambri Gupta - Former HOD, Zoology, University of Jammu.
3. Prof. N.K. Tripathi - Controller of Examinations, ASCOMS, Batra.
4. Mr. Arun Gandotra - Deputy General Manager, J&K Bank
5. Mr. Shakeel Ahmed Beig - DIG, Jammu
6. Mr. Rajesh Dogra - Director, J&K, Fisheries.
7. Ms. Ravinder Kour - Working in Police Department
8. Mr. Anil Gupta - Additional Secretariat Higher Education, J&K Govt.
9. Mr. Neeraj Gupta - Deputy Secretary, Accounts Dept.
10. Dr. Chander Kiran - South West University, USA
11. Mr. Adil - SSP, Jammu
12. Mr. Sandeep Sharma - SDM Bhawan, Shri Mata Vaishno Devi Shrine Board

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (w.e.f. 1st June 2009 to 28th February 2015):

As part of students enrichment programmes, our department organizes various special lectures/ workshops/ seminar involving external experts with an aim to expose them to recent development in the field of Science and Technology and impart them skilled training in the field of Biological Applied Science. See Question 30 for more details.

Special lectures delivered by the external experts during last five years.

S.No.	Name of the External Experts	Department/University
1.	Prof. A.R. Yousuf	Director, CORD, Kashmir University
2.	Prof. Shah	Head, Dept. of Zoology, University of K
3.	Prof. B.D. Joshi	Ex. Head & Dean, Dept. of Zoology & Env. Sciences, Gurukul Kanagri University, Haridwar (Uttarakhand).
4.	Prof. Neeta Sehgal	HOD, Zoology, Delhi University
5.	Prof. Neelima Gupta	HOD Zoology, Bareilly University
6.	Prof. P.C. Joshi	Head, Dept. of Env. Sciences & Zoology, Gurukul Kangri University, Haridwar
7.	Prof. M.M. Saxena	Head, Dept. of Environmental Sciences, Bikaner University, Bikaner

45. List the teaching methods adopted by the faculty for different programmes.
- Smart Board
 - Computers
 - LCD Projectors
 - Overhead Projectors etc.
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
- Due to the constant interactions with students the objectives of various projects are met and process of learning outcomes are monitored in learning in informal interactions with students and scholars.
47. Highlight the participation of students and faculty in extension activities. (w.e.f. 1st June 2009 to 28th February 2015):

M.Sc. students are taken to short as well as long field trips every year to acquaint them various faunastic diversity of different terrestrial and Aquatic ecosystems within and outside the state.

In research programmes, our Ph.D. and M.Phil scholars periodically interact with the villagers, farmers and other stakeholders in the field of Fisheries, Aquaculture, Apiculture and Sericulture. During interactions they teach them necessary scientific skills and knowhow in their respective fields. Our endeavour is also to pass on the beneficial outcome in various research studies from lab to the field with an aim to help the farmers to boost their production, which therein enhances their socio economic conditions.

The scholars of wildlife lab are always keen to interact with the villagers and they are instrumental in creating awareness about the destruction of habitats and protection of endangered species.

Our scholars working in the field of Cytogenetic and Human Genetics are playing an important role regarding awareness about various genetic diseases in society and their management.

M.Sc. Sericulture was the first degree course introduced in Poonch Campus, University of Jammu during the session 2012-13 with Department of Zoology, University of Jammu as a Nodal Department. By developing scientific temperament among P.G. students through various Training Programmes/Courses particularly through “On Job Skill Training Programme” of 4-6 weeks duration at Regional Sericultural Research Station, Central Silk Board, Miran Sahab Jammu, the students were equipped with thorough knowledge about various aspects of Sericulture like Mulberry Cultivation, Silkworm Rearing, Mullberry Crop Protection, Silkworm Crop Protection etc. The students have been sent in field to impart knowledge to farmers about scientific methods/ skills for silkworm rearing. The knowledge of the farmers has been upgraded with recent developments in the field of Sericulture through extension education by the students. The counseling of the students/farmers has also been done through Employment Fairs organized by District Employment Officer of District Poonch, where P.G.

Department of Sericulture, Poonch Campus participated actively with the slogan “Milk and Silk Go Together”.

48. Give details of “beyond syllabus scholarly activities” of the department.
- As already discussed above in question no. 47 the students, scholars alongwith the faculty members are rigourously involved in field and other extension activities which are part of the curricula as well as outside the curriculum designed for PG & Research programme.
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NA
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- The department has contributed in new knowledge generation in the form of research papers & article publications in books and newspapers by the faculty members and scholars. Also our faculty members are contributing by being part of various Editorial Boards of Research Journals.
 - As discussed in point no. 47, the department is running various research programmes in five different specializations fields which are mostly applied in nature.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

- UGC-SAP & PURSE programme
- Students qualify NET & SLET, GATE
- Good number of students in administrative services both at state and national level.
- Research projects being funded by ICAR, UGC, DST
- Facilities for aquatic science experimentations
- The students have opportunities to excel in Administrative exams. They are having opportunities to join National and International Research institutes. The students are usually interacted with the experts in the various fields.

Weakness:

- Animal museum to be improved
- Funding for Research and teaching need enhancement

Opportunities:

- Our syllabi are designed keeping in view to provide opportunities to compete for various administrative services both at National as well as State level.
- Our endeavour is to provide opportunities to acquire new techniques and skills to our scholars by encouraging them to visit various other reputed Universities and Institutes and to participate in Workshops and Seminars.

Challenges:

- To develop state of the art infrastructure for innovative research and academic related programmes in the field of Zoology.
- Setting up of state of the art Repository & Museum.

52. Future plans of the department.

1. The department is planning to revamp the museum of department with state of art facilities for animal diversity.
2. The infrastructure will be created, smart class rooms, state of art laboratories.
3. Some new vocational courses for skill development will be introduced.
4. Consultancy services will be initiated for generation of funds.
5. Implementation of the various tools as a substitute of dissertation for affiliated colleges.

Evaluative Report of the Department

1. Name of the Department : Human Genetics
2. Year of Establishment : 2008
3. Is the Department part of a School/Faculty of the university?
Faculty of Life Sciences
4. Names of programmes offered : PG & Ph.D.
5. Interdisciplinary programmes and departments involved:- Nil
6. Courses in collaboration with other universities, industries, foreign institutions, etc.
Students of IV semester visit various National Medical Institutes and Research Centres for Dissertation/Project work.
7. Details of programmes discontinued, if any, with reasons : Nil
8. Examination System:-
Semester System and Choice Based Credit System
9. Participation of the department in the courses offered by other departments :
NA
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :- No permanent faculty
Only 2 contractual faculty members

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

S.No.	Name	Address	Session
1.	Dr. Shama Razdan	Prof. & Head Dept. of Anatomy, GMC Jammu	2010-11
2.	Dr. Neru Gupta	Prof. & Head Dept. of Physiology, GMC Jammu	2010-11
3.	Dr. Suresh Rao	Deptt. Of computer centre, Univ. of Jammu	2011-12
4.	Dr. Sunanda	Deptt. Of Anatomy Govt. Medical College	2011-12
5.	Dr. Sunanda	Deptt. Of Anatomy Govt. Medical College	2012-13
6.	Mr. Mohit Sharma	Dept. of Bioinformatics , School of Biotechnology Univ. of Jammu	2013-14
7.	Ms. Neha Kumari	Deptt. Of Statistics Univ. of Jammu	2013-14
8.	Mr. Mohit Sharma	Dept. of Bioinformatics , School of Biotechnology Univ. of Jammu	2014-15
9.	Ms. Neha Kumari	Deptt. Of Statistics Univ. of Jammu	2014-15
10.	Dr. Roopali	Deptt. Of Human Genetics Univ. of Jammu	w.e.f.2010 to till date
11.	Dr. Upma	Deptt. Of Human Genetics Univ. of Jammu	w.e.f.2011 to till date

12. Percentage of classes taken by temporary faculty–programme-wise information : **100%**

13. Programme-wise Student Teacher Ratio :

Ms. Sc. (Human Genetics) 1:4

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

15. Research thrust areas as recognized by major funding agencies

- i) Investigating the incidence of Human Congenital anomalies.
- ii) Human Genetic diseases and their molecular characterisation.
- iii) Molecular Genetics studies for CVO.

16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (w.e.f. 1st June 2009 to 28th February 2015)

17. Inter-institutional collaborative projects and associated grants received : Nil

- a) National collaboration: Guru Nanak Dev University & Govt. Medical College, Jammu.
- b) International collaboration - Nil

18. Departmental projects funded by UGC-SAP w.e.f. Sept. 2012 & DST-PURSE w.e.f. Sept. 2011.
: No
19. Research facility / centre with
 - State recognition : In collaboration with Govt. Medical College, Jammu.
 - National recognition : GNDU, Amritsar
 - International recognition
20. Special research laboratories sponsored by / created by industry or corporate bodies :
⇒ Institution of Research Labs. through DST Sponsorship
21. Publications: (faculty wise) (w.e.f. 1st June 2009 to 28th February 2015): 17

Research Publication:

1. Parvinder Kumar, Ashma Gupta, Roopali Fotra, Upma, Sunil Raina, Surbhi Sethi, T.R Raina and Subash Gupta (2010). Chromosomal Anomalies in Referred Cases with Suspected Genetics Disorders: First Report from Jammu & Kashmir. *Int. J. Hum. Genet.* 10 (1-3): 41-47.
2. Roopali Fotra, Upms, Shashi Gupta, T.R. Raina and Subash Gupta (2011). Association of ABO and Rh Blood Group with the carcinoma of the cervix with special reference to Jammu region. *Bioscience Biotechnology Research Asia*, 8(1) :313-316.
3. Roopali Fotra, Upms, Shashi Gupta, T.R. Raina and Subash Gupta (2011). Study of the cytogenetic and non-cytogenetic factor in cervical carcinoma in Jammu region. *Journal of Cancer Research and Therapeutics*.7(11): 286-291.
4. Roopali Fotra, Shashi Gupta and Subash Gupta. Analysis of the chromosomal aneuploidy by Interphase Fluorescence in situ Hybridization (FISH) in Squamous cell carcinoma of the cervix in Jammu region of J& K State. *Journal of Cancer Research and Therapeutics*, 10 (2) : 317-323.
5. Roopali Fotra, Subash Gupta (2014). Socio-demographic risk factors for cervical cancer of Jammu region of J&K State: First ever report from Jammu, *Indian Journal of Scientific Research*, 9(1): 105-110, 2014.
6. Kumar P, Gupta A, Fotra R, Upma, Raina S, Sethi S, Raina TR and Gupta S. Chromosomal anomalies in referred cases with suspected genetic disorder: first report from Jammu and Kashmir, *Int J Hum Genet*, 10 (1-3): 41-47 (2010).
7. Upma, Kumar P, Raina TR, Sharma K and Gupta S. Clinical and cytogenetic analysis of human anemias from Jammu region of Jammu and Kashmir state. *Asian J Transf Sci*, 4 (2): 99-101 (2010).
8. Fotra R, Upma, Gupta S, Raina TR and Gupta S. Association of ABO and Rh blood group with the carcinoma of the cervix with special reference to Jammu region. *Biosci Biotech Res*

Asia, 8(1) : 313-316 (2011).

9. Surbhi Sethi, Rakesh K Panjaliya, Parvinder Kumar, Subash Gupta and AJS Bhanwer (2015). Comprehensive SNP Analysis of Genes in Cholesterol Metabolism (PGC 1 Alpha), Insulin Signaling (IRS1), Potassium Channel (KCNJ11) and Glucose Homeostasis (PI3K) in Three Diversified Groups. *Journal of Diabetes and Metabolism*, 6:5 <http://dx.doi.org/10.4172/2155-6156.100531>
10. Rakesh Kumar Panjaliya, Dhanak Gupta, Jyotdeep Kour Raina, Rohit Bhardwaj, Ashma Gupta and Parvinder Kumar “Study of Genetic Variation of Alu CD4, LPL PvuII and ESRI -PvuII in Different Population Groups of Jammu Region (J&K)” *International Journal of Biological Sciences*, Vo. 2, No. 9, PP. 026-030, September, 2013
11. Rakesh K. Panjaliya, Surbhi Sethi, Minakashee Sharma, Ravi Sharma, Parvinder Kumar and Subash Gupta, Association of insertion/deletion polymorphism of Alu insertion and hypertension in J&K population: A case control study. *Journal of Medical Genetics and Genomics* Vol. 5 (1), pp.1-5, February 2013
12. Rakesh Kumar Panjaliya, Vikas Dogra, Parvinder Kumar and Subash Gupta Human-specific Alu Insertion/Deletion Polymorphism in Various Population Groups of Jammu Region. *Int J Hum Genet*, 12(4): 311-317 (2012)
13. Parvinder Kour, Mohan Lal, Rakesh Panjaliya, Vikas Dogra and Subash Gupta. Study of risk factors associated with cervical cancer, *Biomedical and Pharmacology Journal*, 3(1), 179-182 (2010)
14. Rakesh Panjaliya, Parvinder Kumar, Vikas Dogra and Subash Gupta. “ Human specific Alu insertion/deletion polymorphism in Gujar population of Jammu region.” *Biomedical Research Asia*, 3(1), 179-182 (2010)
15. Parvinder Kour, Mohan Lal, Rakesh Panjaliya Vikas Dogra and Subash Gupta. “Study of chromosomal changes in cervical carcinoma.” *Biosciences, Biotechnology Researches Asia*, 7(1), 315-320 (2010)
16. Mohan Lal, Rakesh Panjaliya, Parvinder Kour, Vikas Dogra and Subash Gupta. “Human specific Alu insertion/deletion polymorphism in Jatt Sikh population of Jammu region.” Paper accepted in *Biosciences, Biotechnology Research Asia*.
17. Rohit Bhardwaj, Minakshi Bhagat, Rakesh Kumar Panjaliya, Kuldeep Kumar Sharma and Parvinder Kumar. “Isolation, Deletion and genotyping of HPV-16 and 18 strains in females of Jammu region” paper accepted in *Indian Journal of Applied Sciences*.
23. Details of patents and income generated : NA
24. Areas of consultancy and income generated : NA
25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad (w.e.f. 1st June 2009 to 28th February 2015) : **Nil**

26. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify) : **Nil**
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).
- (w.e.f. 1st June 2009 to 28th February 2015) :
28. Student projects (w.e.f. 1st June 2009 to 28th February 2015) : **Nil**
29. Awards / recognitions received at the national and international level by Faculty (w.e.f. 1st June 2009 to 28th February 2015) : **NA**
30. Seminars/ Conferences/Workshops organized and the source of funding (national/ International) with details of outstanding participants, if any. (w.e.f. 1st June 2009 to 28th February 2015): **Nil**
31. Code of ethics for research followed by the departments :
- Animal and Human Ethical Committee, University of Jammu.**
32. Student profile programme-wise:

Name of the Prog.	Applications received			Selected						Pass percentage					
				Male			Female			Male			Female		
	M.Sc	M.Phi l	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phi l	Ph. D	M.Sc	M.Phi l	Ph.D	M.Sc	M.Phil	Ph.D
2009-10	20	-	-	1	-	-	10	-	-	-	-	-	-		
2010-11	24	-	-	2	-	-	12	-	-	100%	-	-	100%		
2011-12	18	-	-	2	-	-	6	-	-	100%	-	-	100%		
2012-13	15	-	07	1	-	-	6	-	02	100%	-	-	100%		
2013-14	35	-	-	1	-	-	4	-	-	100%	-	-	100%		
2014-15	32	-	-	1	-	-	7	-	-	100%	-	-	100%		

- Only 02 scholars are pursuing Ph.D programme.

33. Diversity of students

Name of the Programme	% of students from the same university			% of students from other universities within the state			% of students from universities outside the state			% of students from other countries		
	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D	M.Sc	M.Phil	Ph.D
2009-10	73%	-	-	-	-	-	27%	-	-	-	-	-
2010-11	93%	-	-	-	-	-	7%	-	-	-	-	-
2011-12	100%	-	-	-	-	-	-	-	-	-	-	-
2012-13	100%	-	50%	-	-	-	-	-	50%	-	-	-
2013-14	40%	-	-	40%	-	-	20%	-	-	-	-	-
2014-15	80%	-	-	20%	-	-	-	-	-	-	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. (w.e.f. 1st June 2009 to 28th February 2015): 10

S. No.	Name of the student	Year	NET, JRF, SET, GATE	Placement/Progression
NET Qualified				
1.	Smriti Sharma	2008-09	NET (LS)	Pursuing Ph.D. from IIIM
2.	Itty Sethi	2009-10	NET (LS) Inspire	Pursuing Ph.D. from SMVDU
3.	Vaishali	2009-10		Pursuing Ph.D. from GNDU
4.	Manik Vohra	2011-12	Proj. JRF	Pursuing Ph.D. from Manipal
5.	Sukirti	2011-12		Pursuing Ph.D. from IIIM
6.	Anuradha	2012-13	Proj.JRF	Pursuing Ph.D. from Manipal
7.	Zakiya	2012-13	NET Inspire	Pursuing Ph.D. from SKIMS
8	Ekta	2012-13		Pursuing Ph.D. from SKUAST

35. Student progression (w.e.f. 1st June 2009 to 28th February 2015)

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	---
PG to Ph.D.	02
Ph.D. to Post-Doctoral	--
Employed Campus selection Other than campus recruitment	Nil
Entrepreneurs	

36. Diversity of staff: **No permanent staff**

Percentage of faculty who are graduates of	(Contractual Faculty)
the same	100%
from other universities within the State	
from universities from other States	
from universities outside the country	

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (w.e.f. 1st June 2009 to 28th February 2015) : Nil

38. Present details of departmental infrastructural facilities with regard to

a. Library Books	:	400
b. International Journals	:	Nil
c. Indian Journals	:	Nil
d. Internet facilities for staff and students	:	No
e. Total number of class rooms	:	02
f. Class rooms with ICT facility	:	02
g. Students' laboratories	:	02
h. Research laboratories	:	01

39. List of doctoral, post-doctoral students and Research Associates (w.e.f. 1st June 2009 to 28th February 2015)

- from the host institution/university : Nil
- from other institutions/universities Only 02 students have been registered w.e.f. 2012

40. Number of post graduate students getting financial assistance from the university : Nil

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

42. Does the department obtain feedback from

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- iii. alumni and employers on the programmes offered and how does the department utilize the feedback?

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

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. (w.e.f. 1st June 2009 to 28th February 2015): Special Lectures conducted

S.No.	Name	Address	Session
1..	Prof. A.J.S. Bhanwer	Dept. of Human Genetics, GNDU, Amritsar	2012-13
2.	Prof. A.K. Prouhit	Deptt. Of Zoology Jodhpur University (Rajasthan)	2014-15

45. List the teaching methods adopted by the faculty for different programmes: LCD & Overhead Projector alongwith Computer.

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

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

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

Our scholars and students are playing an important role regarding awareness about various genetics diseases in society.

Visit of the student to National Research Laboratories

S.No.	Name of the Institution
1.	Dept. of Medical Genetics Sanjay Gandhi Post Graduate Institute of Medical Sciences Lucknow (UP)
2.	Manipal Life Sciences Centre, Manipal University, Manipal
3.	Foundation of Research in Genetics and Endocrinology (FRIGE) House, Institute of Human Genetics, Ahmedabad
4.	Jawahar Lal Nehru Cancer Hospital and Research Centre, Bhopal, (MP)
5.	Indian Institute of Integrative Medicine, (IIIM) CSIR, Jammu
6.	Sir Ganga Ram Hospital, New Delhi

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

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

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

Strength: 1. Self Financing and self sustained Course.

2. Spacious Infrastructure.

3. Well equipment Laboratories alongwith latest scientific Instruments

Weaknesses : No Permanent Staff.

52. Future plans of the department.

To develop the Department of Human Genetics into a Centre of excellence.

Faculty of Mathematical Sciences

FOREWORD

FROM

DEAN, FACULTY OF MATHEMATICAL SCIENCES

Faculty of Mathematical Sciences comprising the Department of Mathematics, Statistics and Computer Science & Information Technology. came into existence during academic session 2009-2010, by bifurcating the erstwhile Faculty of Sciences.

The Department of Mathematics was established in 1966. The Department has a strong faculty base having their Ph.Ds from reputed Universities/institutes and publications in the journals of National and International repute. Several faculty members have been awarded prestigious Fellowships like Fulbright and Commonwealth Fellowships. The Department offers courses at the Masters, M.Phil and Ph.D level .The department has been marching ahead in the direction of excellence in teaching and research and is committed to move ahead towards this end. Thrust areas of research include functional analysis, complex analysis, algeberic geometry etc.

The Department of Statistics came into existence in the year 1988 with the aim of providing quality education in the field of Statistics; to develop the subject of Statistics with its application and usefulness to the society, to provide qualified and trained Statisticians for the economic, social, administrative planning and academic development of the society. Presently, the thrust areas of research includes Sample Survey, Reliability, Information Theory, Biostatistics and Statistical inference. The students undergoing Masters degree, M.Phil and Ph.D in Statistics have a bright future with a lot of employment opportunities available in public sectors like planning, administration, information technology and research and in private sectors like Quality Control, Actuarial Sciences and Management etc. The strength of the Department lies in its continual search for excellence and for its endeavor to adapt itself to the changing scenario of statistics as a subject and to keep abreast with the best in the emerging fields.

The Department of Computer Science & IT started in the year 1987 with the initiation of Diploma course in Computer Science and Application. The Department started 3 years MCA programme from the year 1995 and M.Tech programme in 2014. The department has grown in infrastructure in terms of space, hardware, software communications and manpower and is in the process of growth as per rapidly changing technological developments. The students of this department have been placed in the global market. The Department has undertaken research and is looking forward for the support from the co-workers located at different geographical locations in the field like scaffolding strategies in IT, modeling and simulation, visuals and geometric computing, distributed processing and algorithmic framework to education and learning. The Department is also looking forward towards policy makers for designing proper formats for data acquisition, which shall address the basic problems so that the growth of the young departments is automatically addressed. Department has made its mark on all fronts and stands firmly on the global IT map.

EVALUATIVE REPORT OF THE DEPARTMENT

1. Name of the Department: Computer Science and Information Technology
2. Year of establishment : 1988
3. Is the Department part of a School/Faculty of the university?
Faculty of Mathematical Science
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):
MCA (3 years), M. Tech. (Computer Sc.) (2 years), Ph.D.
5. Interdisciplinary programmes and departments involved:
Nil
6. Courses in collaboration with other universities, industries, foreign institutions, etc.:
Nil
7. Details of programmes discontinued, if any, with reasons:
Post Graduate diploma in Computer Applications, Primarily due to lack of demand
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:
Semester and Choice Based Credit System
9. Participation of the department in the courses offered by other departments:
Yes, Dept. of Environmental Science, Dept. of Remote Sensing & GIS, The Law School
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Posts	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	0	4
Associate Professors	2	0	0
Asst. Professors	6	6	2
Others	–	–	–

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

Name	Qualification	Designation	Specialization	No. of Years of Experience
Dr. Vibhakar Mansotra	M. Sc., M. Phil., PGDCA, M. Tech. (IIT, Delhi), Ph. D.	Professor	Computer Graphics, Graph Theory, Numerical Methods, E-Governance	23
Dr. Vinod Sharma	B. Sc., MCA, Ph.D	Professor & Head	Artificial Intelligence, Data Mining	21
Dr. Lalit Sen Sharma	MCA, M. Sc. (Math), B. Sc, Ph. D	Professor	Web Technology, Data Structures, Theory of Computation	18
Dr. Pawanesh Kumar Abrol	M. Tech. (C.I.S), MBA (HR)	Professor	Visualization Techniques, Texture Analysis and Synthesis, Compiler Design, Object Oriented Programming, C ++, Digital tampering / Digital Forgery	18
Sh. Jasbir Singh	MCA, NET	Senior Assistant Professor	Network Security, Theory of Computation, Algorithm Design & Analysis	10
Dr. Shubhnandan Jamwal	MCA, Ph.D.	Senior Assistant Professor	Web Technology, Application Programming	10

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil
13. Percentage of classes taken by temporary faculty - programme-wise information:
MCA - 50%, M. Tech. (C.S.) - 20%
14. Programme-wise Student Teacher Ratio:
MCA - 1:12, M. Tech.(C.S.) - 1:5

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

	Sanctioned	Actual
Technical Staff	4	3
Administrative Staff	3	3

16. Research thrust areas as recognized by major funding agencies.

Data Mining and Warehousing.

Information retrieval.

Natural language processing and Machine Translation

Software Engineering.

Visualization Techniques, Textural Synthesis, Texture Graphics.

Soft Computing.

Computer Simulation and Modeling.

Computer Networks and Application Security.

E-governance.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Name of Project	Principle Investigator/Co-investigator	Funding Agency	Duration	Rs. (Lakhs)
To Trace Vulnerabilities in Network Application	Dr. Lalit Sen Sharma (Principal Investigator)	University Grants Commission	Three Years	8.93 Lacs
Shallow Parser Tools for Indian Languages	Dr. Shubnandan S. Jamwal (Principal Investigator)	Dept. Of Electronics & Inf. Technology Govt. Of India	33 Months	36 Lacs

18. Inter-institutional collaborative projects and associated grants received

a) National Collaboration

The Department has set up an IMAGE VLSI and Embedded Systems Laboratory also called as IMAGE VLSI Lab in collaboration with Powai Labs Pvt. Ltd, Mumbai, which is an incubated company entity of IIT, Mumbai. This project has been sanctioned by the J&K State Govt. to boost academic and research in the area of VLSI and Embedded System in the State. The objective of the setting up of such a lab is to provide an in-depth training to the students community from the field of Computer Science and IT,

Electronics and Communication Engineering, Electrical Engineering etc. in the area of VLSI and Embedded systems.

- b) International Collaboration
Nil

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

20. Research facility / centre with

- state recognition
IMAGE VLSI and Embedded Systems Laboratory also called as IMAGE VLSI Lab in collaboration with Powai Labs Pvt. Ltd, Mumbai.
- national recognition
Nil
- international recognition
Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies IMAGE VLSI and Embedded Systems Laboratory also called as IMAGE VLSI Lab in collaboration with Powai Labs Pvt. Ltd, Mumbai.

22. Publications:

- * Number of papers published in peer reviewed journals (national / international) - 72
- * Monographs - NIL
- * Chapters in Books - Nil
- * Edited Books - Nil
- * Books with ISBN with details of publishers – 01
[(ISBN: 9-789332-525610, Pearson Dorling Kindersely (India) Pvt. Ltd)]

23. Details of patents and income generated - NIL

24. Areas of consultancy and income generated - NIL

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

26. Faculty serving in

- a) National committees
- b) International committees
- c) Editorial Boards
- d) any other (please specify)

Faculty members are life members of the following professional Societies

- National Academy of Sciences
 - Indian Science Congress
 - Computer Society of India
 - The Institution of Electronics and Telecommunication Engineers
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Assistant Professors and other faculty members are attending Refresher/Orientation courses as per the UGC guidelines.

28. Student projects
- percentage of students who have done in-house projects including inter-departmental projects : 60% (approx.)
 - percentage of students doing projects in collaboration with other universities / industry / institute : 40% (approx.)
29. Awards / recognitions received at the national and international level by
- Faculty

Prof. Vibhakar Mansotra

Amanded Best Professor in Information Technology by National Educational Leadership awards in collaboration with Stars of the Industry group.

- Doctoral / post doctoral fellows - Nil
- Students -

Mr. Sandeep Bhat

Indira Gandhi NSS National Award for the year 2011-12 by the President of India at Rashtrapati Bhawan.

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

Title	Source of funding
Two day workshop on Computer Networking & Routing Protocols in collaboration with Net Lab Project Consultants private Ltd., Chennai.	Self Financing
Short term course on VLSI & Embedded Systems for Computer Science and other Engineering disciplines	Self Financing
Short term training course on Computer Networks Management	Self Financing

31. Code of ethics for research followed by the departments

The faculty in the department are committed to undertaking research with scientific integrity and the students are encouraged to take up research on the current problems faced in the

field following the latest techniques and standard procedures. Also, the research is taken up in conformity with the accepted code of principles on Good Research Practices.

32. Student profile programme-wise:

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MCA	2125	141	102	110	76
M. Tech. (Comp. Sc.)	82	08	17	Yet to	Pass
Ph.D.	232	22	13	100	100

33. Diversity of students

Name of the Programme	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MCA	99	0.08	0.02	NIL
M. Tech. (Comp. Sc.)	80	20	NIL	NIL
Ph.D.	54	09	37	NIL

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. (2009 onwards)

Civil Services : 01

SET : 12

NET : 10 (OM-08, SC 01, ST JRF-01)

GATE : 01

35. Student progression

Student progression		Percentage against enrolled
UG to PG		NA
PG to M.Phil.		NA
PG to Ph.D.		18
Ph.D. to Post -Doctoral		NA
Employed		
	Campus selection	20
	Other than campus recruitment	14
Entrepreneurs		02

36. Diversity of staff

Student progression		Percentage against enrolled
UG to PG		NA
PG to M.Phil.		NA
PG to Ph.D.		18
Ph.D. to Post -Doctoral		NA
Employed		
	Campus selection	20
	Other than campus recruitment	14
Entrepreneurs		02

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 03

38. Present details of departmental infrastructural facilities with regard to

- a) Library - 01
- b) Internet facilities for staff and students - Yes
- c) Total number of class rooms - 04
- d) Class rooms with ICT facility - 01
- e) Students' laboratories - 03
- f) Research laboratories - 01

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university - 19

Mr. Sanjay Jamwal

Mr. Jyoti Mahajan

Mr. Kumar Sourabh

Ms. Namita Singh

Mr. Jasbir Singh

Mr. Jatinder Manhas

Mr. Suresh Kumar Sharma

Ms. Deepika Sharma

Mr. Bimal Goja
Mr. Anil Kumar
Mr. Abid Sarwar
Mr. Nitin Kumar kotwal
Mr. Rakesh Kumar
Ms. Minu Bala
Ms. Anjana Sharma
Mr. Parveen Singh
Mr. Amit Mahajan
Mr. Sunil Dutt
Mr. Mehboob ali

b) from other institutions/universities - 16

Mr. N. Suresh Rao
Mr. Shubhnandan Jamwal
Mr. Syed Mutahar Aaqib
Ms. Simmi Dutta
Ms. Bhawana Sharma
Ms. Deepti Malhotra
Ms. Deepshikha Jamwal
Ms. Bhawna Arora
Mr. Sanjay Manhas
Ms. Kusum
Mr. Anand Sharma
Mrs. Indu Gandotra
Mr. Nishant Gupta
Mr. Riaz Ahmed
Ms. Neha Jain
Ms. Sharifa Rajab

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

None

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

We consulted industry experts as well as academic experts from other Institutions before taking it up in the Board of Studies of Computer Science

42. Does the department obtain feedback from

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

Yes, to design good curriculum for the students.

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

Yes, for improving teaching methodology of faculty. Proper remedial measures have been taken and appropriately implemented.

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

Yes. The alumni and employers are regularly visiting the departments during workshops, seminars and meets. Their suggestions for the improvement of the department, faculty and students are well received and are used to improve the curriculum.

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

Jasbir Singh	Asstt. Professor, Dept. Of Comp. Sc. & IT, University of Jammu
Rajesh Sharma	Technical Head, IBM Noida
Makesh Daman	Senior Software Engineer, Mitel Inc., Chandler, AZ, USA
Anil Handoo	Enterprise Arch. Mgr., Microsoft Inc., New York City, New York, USA
Suneel Kaul	Senior Software Engineer, Infosys, USA
Rashmi Mahajan	Associate Engineer, KRIS Software Ltd. USA
Ketan Suri	Senior Consultant, PCS, USA
Suveni Kharu	Principal Consultant, Covansis, USA
Prayas Kad	Senior Consultant, Portal IDC Ness Technologies Ltd., USA
Razbir Pathania	Principle Consultant, TCS, Noida
Rame Ji Kachroo	Senior QA Engineer, Canon India, Noida

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

Special Lectures

Special Lectures on the current research trends were delivered by the following visiting faculty:

- Prof. R. K. Aggarwal, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi.
- Prof. Sanjay Tanwani, School of Computer Science & Information Technology, Devi Ahilya Vishwavidyalaya, Indore
- Prof. Maninder Singh, Centre of Information and Technology Management (CITM), Thapar University, Patiala
- Prof. S.K. Panday IIT Bombay, Mumbai.

Workshops/Seminars

- o Two day workshop on Computer Networking & Routing Protocols on 21st-22nd Nov. 2014 in collaboration with NetLab Project Consultants private Ltd., Chennai.
- o Short term course on VLSI & Embedded Systems for Computer Science and other Engineering disciplines.

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

The following teaching methods are incorporated:

- Lectures
- Power point presentations
- Practical Demonstrations
- Industrial Visits
- Expert Lectures
- Group Discussions
- Seminars
- Assignments
- Viva voce and tests.

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

The Department frequently holds the meeting of all faculty members to assess the progress of programme objectives. Beside this, group discussions, brain storming are also done for monitoring the learning outcome.

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

Workshops/Training programmes are organized. Regular participation of students in Programming Fests.

48. Give details of "beyond syllabus scholarly activities" of the department.

Special lectures are arranged to motivate research activities in the Department.

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

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

- With the purpose of promoting professional excellence and nourishing the resource oriented minds, the Department has been actively involved in promoting research programmes. Being on the path of continuous academic progress and achievements and for enhancing and encouraging the inquisitiveness, the Department has started a research programme in emerging areas of Computer Science in 2014-15 leading to M.Tech. Degree.
- Every year, workshops/seminars are conducted in the thrust areas of research
- Number of invited lectures are arranged for the benefit of students.
- The Department has produced number of PhDs in the recent past.

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

- Strengths:
 - o Very good infrastructure with well equipped Laboratories
 - o Highly qualified and expert Faculty members with multiple specialization
 - o Excellent research facility and freedom to work
 - o Alumni of the department are occupying very high position in India and abroad and their support to their alma-mater is highly commendable
 - o Student - Teacher relationship
- Weaknesses :
 - o Difficulty in arranging Industrial Visits for all the students, due to lack of industries in Jammu Region.
 - o Time allotted for extracurricular activities is not adequate
 - o Industrial exposure to the faculty

- Opportunities :
 - o A very good and enriched library to get the latest technological information
 - o A very good Alumni interaction
 - o Students are privileged to attend seminars in other universities
- Challenges :
 - o Cent percent campus placement.
 - o To provide the best industrial consultancy.
 - o To improve the infrastructure and space for academic expansion.

52. Future plans of the department.

- Establishment of Hardware & Networking Laboratory
- Virtual and Smart Classrooms.
- To make the Department of Technology as a QIP Centre for doing PG and Ph.D.

EVALUATIVE REPORT OF THE DEPARTMENT

1. Name of the Department : Department of Mathematics
2. Year of establishment : 1966
3. Is the Department part of a School/Faculty of the university?
Faculty of Mathetical Sciences
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) : PG, M.Phil., Ph.D.
5. Interdisciplinary programmes and departments involved : Nil
6. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil
7. Details of programmes discontinued, if any, with reasons : Nil
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System
Semester System/Choice Based Credit System
9. Participation of the department in the courses offered by other departments: Nil
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	03	01	-
Associate Professors	02	Nil	-
Asst. Professors	07	05	-
Contractual	-	-	-

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

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Prof. D.S.Jamwal	Ph.D	Professor & Head	Topology	28	Ph.D: 02 M.Phil: 03
Dr. Romesh Kumar	Ph.D	Associate Professor	Operatory Theory	22	Ph.D: 02 M.Phil: 06
Dr.Abdul Khaliq	Ph.D	Associate Professor	Variational Inequalities	22	Nil
Dr. K.S Charak	Ph.D	Associate Professor	Complex Analysis	18	Ph.D: 02 M.Phil: 03
Dr.Shallu Sharma	Ph.D	Assistant Professor	Functional Analysis and Operator Theory	07	Nil
Dr.Tirth Ram	Ph.D	Assistant Professor	Variational Inequalities	04	M.Phil: 03

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil

13. Percentage of classes taken by temporary faculty – programme-wise information : 10%

14. Programme-wise Student Teacher Ratio

M.Sc	M.Phil	Ph.D
16:1	2:1	4:1

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

Sanctioned	Filled	Actual
09	09	10

16. Research thrust areas as recognized by major funding agencies

1. Topology 2. Algebraic Topology 3. Complex Analysis 4. Functional Analysis 5. Operator Theory 6. Variational Inequalities

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. (w.e.f. 1st June 2009 to 28th February 2015)

Nil

18. Inter-institutional collaborative projects and associated grants received
- a) National collaboration : Nil
 - b) International collaboration : Nil
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (w.e.f. 1st June 2009 to 28th February 2015)
- None
20. Research facility / centre with
- a. state recognition : Nil
 - b. national recognition : Nil
 - c. international recognition : Nil
21. Special research laboratories sponsored by / created by industry or corporate bodies
- Nil
22. Publications: (w.e.f. 1st June 2009 to 28th February 2015)
- * Number of papers published in peer reviewed journals (national / international) : 33
 - * Monographs : Nil
 - * Chapters in Books: 01
 - * 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.) Nil
 - * Citation Index – range / average : 0.6
 - * SNIP : Nil
 - * SJR : Nil
 - * Impact Factor – range / average : NA
 - * h-index : NA
23. Details of patents and income generated: Nil
24. Areas of consultancy and income generated : Nil
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil