

DEPARTMENT OF ZOOLOGY

1.	Name of the department	ZOOLOGY			
2.	Year of Establishment	1945			
3.	Names of Programmes / M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,	•	B.Sc. : CBZ, CZBt, CBBt		
4.	Names of Interdisciplinary departments/units involv		NIL		
5.	Annual/ semester/choice (programme wise)	Semester System: Prior to 2014 – 15 Choice Based Credit system: 2014 – 15 onwards			
6.	Participation of the departy by other departments	ed NIL			
7.	Courses in collaboration industries, foreign institu	NIL			
8.	Details of courses/programwith reasons	nil			
	Number of teaching posts				
9.	Designation	Sanctioned	Filled		
	Professors	NIL	NIL		
	Associate Professors	2	2		
	Asst. Professors	2	2		



10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specializa tion	No. of years experien ce	No. of Ph.D./M.Phil students guided for the last 4 years
M.J.H.Shafi	M.Sc., M.Phil	Associate Professor	Genetics	31	Nil
Dr. Vinutha	M.Sc., M.Phil., Ph.D	Associate Professor	Comparati ve Animal Physiology	27	01 Ph.D and 03 M.Phil
Dhanalaksh mi. N.	M.Sc.,	Assistant Professor	Reproducti ve Physiology	14	Nil
Dr. B K Chakrapani	M.Sc., Ph.D	Assistant Professor	Fishery Biology	14	Nil

11.	Dr. M J Sundar Ram Dr. Prabhakar Ghai Dr. G M NIJAGUNA, Associate Professors of Zoology, Vijaya College, Bengaluru		· Ghai UNA, fessors of	
12.	Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty	ses handled (programme wise) by temporary NIL		
13.	. Student -Teacher Ratio (programme wise) 42 : 1		:1	
14.	Number of academic support staff Sanctioned Filled 2 2		Filled 2	
15.	Qualifications of teaching faculty with D Sc/ D.Litt. / Ph.D. / MPhil / PG	Ph.D M.Phil. PG	02 01 01	



16.	Number of faculty with ongoing projects from	01
	National Funding Agency	01
	International Funding Agency	NIL
	Grants Received	Rs.1,80,000=00 from UGC
	Title of the Project : The Study on Distribution, Haemocytes, Chromosom of Spiders in selected Areas of Bo	
17.	Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received.	NIL
1.	Research Centre /facility recognized by the University	NIL
2.	Publications	6
	Publication per faculty	1.5
	Number of papers published in peer reviewed journals	
	National Journals	00
	International Journals	06
	Books Edited	02
	a. Title : BIOLOGY 1st Year PU Text Co-Author : Md. Jawad Hussain Shafi Published by : Cengage Learning India Pv Number of Editions : Three from 2010 -2012.	
	b. Title : II PUC BIOLOGY Practic Author : M. J. H. Shafi	al Manual



Published by : Biology Teachers Forus First Edition : September,2013. Second Edition : July, 2014.	m, Bangalore.
Books Edited with ISBN Numbers	NIL
Impact factor	3.81
h – index	NIL

Details of Paper Publications in Peer reviewed journals

a. Publications in International Journals

Sl. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	Year	IMPACT FACTOR	CITATIONS
1	Dr. C Vinutha	"EFFECT OF CHLOROCHOLINE CHLORIDE(CCC) ON PLANT HEIGHT, LEAF AREA AND PROTEIN CONTENT OF PAPAYA (Carica papaya)"	International Journal of Current Research (in press)	2015		
2	Dr. C Vinutha	"Effect of hormones on invitro growth of Papaya (Carica papaya)".	International Journal of Current Research(in press)	2015		
3	Dr. C Vinutha	Study on Sexual size dimorphism (SSD) and morphometric analysis of Argiope anasuja (Signature spider) of south Bengaluru, Karnataka.	International Journal of Current Research Vol.6 pp.6059- 6063. April 2014	2014	3.1	



Sl. No.	Name of the Faculty	TITLE OF THE PAPER	JOURNAL	Year	IMPACT FACTOR	CITATIONS
4	Dr. C Vinutha	"Morphometry & Principle Component Analysis (PCA) of red house spider Nesticodesrufipes of south Bangalore, Karnataka"	International Journal of ScientificRese arch .Vol 9 pp 35-40. Nov. 2014	2014	1.1	
5	Dr. B K Chakrapani	Length Weight relationships of Cynoglossus lida (Bleeker)	Indian Journal of Fisheries, 28; Nos. 1 & 2, Pp. 249-253, 1981.	2014	6.2	
6	Dr. B K Chakrapani	A Morphometric comparison of the Malabar sole, C. semifasciatus Day from different centres of the West Coast.	Journal of Marine Biological Association of India. 24 (1&2), Pp.72- 79, 1982.	2014	4.84	

Average Impact Factor: 3.81

18.	Areas of consultancy and income generated		
	 Generation of study material to teachers of Bangalore University on request basis Distribution of study material to students of other institutions on request basis Main beneficiaries: Students of Kanakapura Rural College, Kanakapura Students and teachers of Govt. First Grade College, Channapatna Faculty of VV Puram Science College, VV Puram, Bangalore 		
19.	Faculty as members in		



	a. National Committees	NIL
	b. International Committees	NIL
	c. Editorial Boards	NIL
	All the faculty members are members of Bangalore U Forum	niversity Zoology Teachers'
20.	Student projects	
	a) Percentage of students who have done in-house projects including inter departmental/programme	19%
	b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies	NIL

Details of In - House Student Projects conducted

Project Title	Names of Students
A survey of Municipal Solid Waste Management in a Few Wards of Bengaluru.	Chinmayee, Pruthvi
Biomedical Waste Management: A study of biomedical waste management practices in selected hospitals in the Bangalore Metropolitan Area	Anisa Husna , Bhavya , Sushmitha and Divyajala
Biomedical Waste Management: A study of biomedical waste management practices in selected hospitals in the Bangalore Metropolitan Area	Miss. Anisa Husna
Environmental Health of Selected Land Fill Areas in Bengaluru City	Subhashini M, Chaitra Bhat Shreedar, Tejaswini K Rao, Harika, Anupama and Harshini, Nadig. S
Survey of the Present Environmental Health Status and Utility of few Wetland Habitats in the Bangalore Metropolitan Regions.	Hemanth Kumar C. M, Rajaram Kini. B, Sreenidhi V, Priyadharsini. S, Nikitha. P, Divya G and Dhanush S.



21.	Awards / Recognitions received by faculty and students			
	AnisaHusna, Bhavya, Sushmitha and Divyajala of IV Semester (2014 – 15)B.Sc.(CBZ) students		have received best poster presentation for the poster 'A study of biomedical waste management practices in selected hospitals in the Bangalore Metropolitan Area' in the National Conference on Integrated Urban Waste Management and Environmental Health (IUWMEH) held at Vijaya College on 27-28 September, 2013.	
	Smitha B Rao, a CZBt stud	ent	has secured VII Rank in Bangalore University B.Sc., examinations in 2011	
	Bindushree, a CBZ studen	t	has secured X Rank in Bangalore University B.Sc., examinations in 2014.	
22.	List of eminent academicians and scientists / visitors to the department			
a.	Dr. Hoysall Chanakya	Professor, CST ASTRA, Indian Institute of Science, Bangalore		
b.	Dr. Alagappa Mosses	Head, Dept. of Environmental Sciences, Bishop Helper College, Tiruchirapalli.		
C.	Dr. R. Nagendran Murthy	Expert Member, National Green Tribunal, Chennai.		
d.	Dr. Sadhan K. Ghosh		nd Head, Dept. of Mechanical , Jadavpur University, Kolkata	
e.	Dr. H. A. Ranganath	Vice Chancellor, Bangalore University and Young Scientist Awardee		
f.	Dr. S. Ravichandra Reddy	Professor of Fisheries (Retd), Department of Zoology, Bangalore University.		
g.	Dr. S.R. Anantharayana	Professor of Zoology and Director CDC, Bangalore University.		
h.	Dr. Shakunthala Katre	Professor of Zoology (Retd), Bangalore University.		



i.	Dr. Ramachandra Mohan	Professor of Zoology, Bangalore University.	
j.	Dr. Jayaprakash	Professor of Zoology, Bangalore University.	
k.	Dr. Ashadevi	Professor of Zoology, Bangalore University.	
l.	Dr. M.R.N. Murthy,	Professor, Molecular Bio – Physics Unit, Indian Institute of Science, , Bangalore University.	
m.	Dr. T.V.Ramachandra	Professor, Center for Ecological Sciences, Indian Institute of Science	
n.	Dr. Meenakshi Bharath	Gynecologist and Environmentalist	
0.	Dr. Adil Sadiq, M.S. M.Ch, FMIS	Robotic cardiothoracic surgeon , Senior Cardiothoracic and Vascular Surgeon, Head, Adult Cardiothoracic Surgery, Sakra World Hospitals, Marathalli, Bangalore.	
p.	Dr. Mamatha Hunumappa B.S., M.S., Ph.D	Science writer and GWAS (Genome-wide association	
q.	Dr. Mitesh Shetty MBBS, M.Sc. (UK), Ph.D. Consultant, Clinical Geneticist, Manipal Hospitals		
23.	Seminars/ Conferences/Workshops organized & the source of funding		

i. Organized

Activity	Year	Funding
One day workshop on Practical		BHS Higher Education
Curriculum: Alternative to Dissection	July 07,2012	Society
Two day Work shop for	February 01-	BHS Higher Education
Teachers (UG), Bangalore	02, 2013	Society



University on Revised		
Curriculum of VI Semester		
Zoology Practicals.		
Two day National Conference		BHS Higher Education
on Integrated Urban Waste	September 27-	Society and
management and Environment	28, 2013	Private sponsors
Health		

ii. Attended

a. International Conferences

Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)
M.J.H.Shafi	4 th International Conference on Solid Waste Management	28-30 th Jan 2014	Acharya N. G Ranga Agricultural University, Hyderabad

b. National Conferences

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
1	Prof. M. J. H. Shafi	Impact of urbanization on Biota and the Role of Govt. and Non- Govt. Organisations in their conservation.	1 st August 2014	Govt. Science College, Bangalore	
2	Dr. B.K. Chakrapani	Impact of urbanization on Biota and the Role of Govt. and Non- Govt. Organisations in their conservation.	1 st August 2014	Govt. Science College, Bangalore	
3	Dr. C. Vinutha	World heritage status to the western ghats. A multi dimensional approach	3 rd sept.2013	M.E.S College' B'lore	



Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Date	Organized by (Name of the institution or university)	Title of the paper presented
4	Dhanalakshmi, N	World heritage status to the western ghats. A multi dimensional approach	3 rd sept. 2013	M.E.S College' B'lore	YA COLLEC
5	Dr. B.K.Chakrapani	Nat. Conf. on Integrated Urban Waste Management and Environmental Health (IUWMEH), Bengaluru.	23 rd 24 th Sept. 2013	Vijaya College, Bangalore	Gottigere lake, an example of pathetic mismanagement of urban wetland ecosystem health – Bengaluru metropolis. (Individual).

c. Regional Conferences

Sl. No.	Name of the faculty	Title of the Workshop/ Seminar/ Conference	Indicate Regional level/ State level	Date	Organized by (Name of the institution or university)	Title of the paper presented
1	Dhanalakshmi. N.	Workshop on Separation techniques of biomolecules	State	26-27th Aug 2011	M.L.A, College,B'lore	

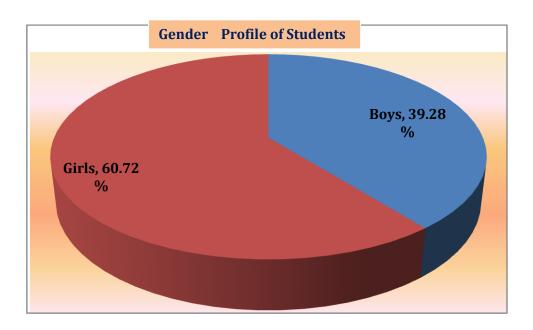
26. Student Profile Programmes:

Year	Name of the Course /	Applications	Salacted	Selected	Soloctod		Enrolled in I Year		Pass Percentage
Teal	Programme	Received	Selected	Male	Female	All Years	(outgoing students)		
2010 - 11		74	74	29	45	178	90.24%		
2011 - 12		49	49	16	33	179	90.32%		
2012 - 13	B.Sc.	33	33	19	14	143	90.00%		
2013 - 14		44	44	17	27	135	92.31%		
2014 - 15		59	59	24	35	154			



Gender Profile of Students

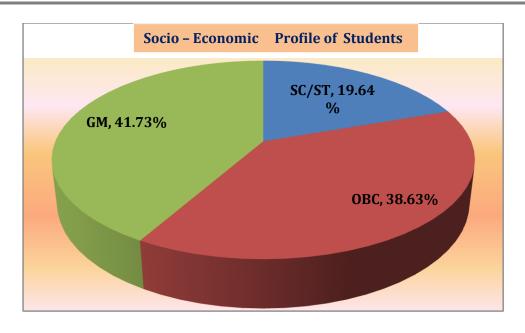
Academic Year	Boys	Girls	Total
2011 – 12	75	104	179
2012 – 13	53	90	143
2013 – 14	50	85	135
2014 – 15	62	92	154
Average Percentage	39.28%	60.72%	



Socio - economic profile of students

Academic Year	SC/ST	OBC	GM	Total
2011 – 12	32	55	92	179
2012 – 13	26	60	57	143
2013 – 14	26	64	45	135
2014 – 15	36	57	61	154
Average Percentage	19.64%	38.63%	41.73%	





27. Diversity of Students

Name of the	% of students	% of students	% of students
Course	from the state	from other state	from Abroad
CBZ	100	Nil	Nil
CZBt	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

No Data Available

29. Student progression

Student progression	Against % enrolled			
	Year	No. enrolled	Total No.	%age
	2010 - 11	25	42	59.5%
	2011 - 12	38	67	56.7%
UG to PG (Zoology)	2012 - 13	55	72	76.7%
	2013 - 14	15	37	40.5%
	Average	33.3	54.5	58.4%



PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed Campus selection	Data provided under student support services from placement cell
 Other than campus recruitment 	No data Available
Entrepreneurship/Self-employment	NIL

30.	Details of Infrastructural facilities					
a.	LIBRARY					
	Books Main Library	3726 Books				
	Department Library	300 Books				
b.	Internet facilities for Staff & Students	Available				
C.	Class rooms with ICT facility	02 Class rooms and Laboratory				
d.	Laboratories	02				
	Area of the Laboratory	2352 sq.ft.				
	Museum with large number of specimen collections (01)	1456 sq.ft.				
31.	Number of students receiving financial assistance from college, university, Government or other agencies	Data furnished under student support services				
32.	Details of Student Enrichment Programmes					
	 BIO- REAP: Seven students of B.Sc. (CBZ) during the years 2011 – 13 enrolled and successfully completed a 2 year course (Bio reap) conducted by 					



Indian Institute of Science, Bangalore with a scholarship of Rs. 5000/-per student.

Date	Name	Enrichment Programme		
	Dr. Mitesh Shetty MBBS, M.Sc.,	Guest Lecture		
21 00 2014	Ph.D.	Topic: Overview of Clinical Genetics.		
21.08.2014	Consultant, Clinical Geneticist.	(Jointly organized by Dept. of Zoology and		
	Manipal Hospitals.	Genetics)		
	Dr. Meenakshi Bharath MBBS,			
18.08.2014	MD	Topic: Save Nature and nurture nature.		
	Naturalist and Gynecologist.			
	Dr.Mamatha Hunumappa B.S.,			
	M.S.,Ph.D			
28.08.2013	Science writer and GWAS	Guest Lecture : 'Roots and Branches: A Local		
20.00.2013	(Genome-wide association	Biologist's Journey in Science'		
	studies) curator, NexBio, Santa			
	Clara, California, USA.			
	Dr. Saravanan Ph.D.			
17.01.2013	Prof. in Biotechnology and	Guest Lecture : Anticancer Properties of		
17.01.2013	Research Co-ordinator,	Green Tea		
	Dr. MGR University, Chennai.			
	Dr. Adil Sadiq			
17 00 2012	Senior Consultant CTVS,	Cuest Lestune, Wey and Very Heart		
17. 09.2012	Apollo Hospitals,	Guest Lecture : 'You and Your Heart'.		
	Banneraghatta Rd, Bangalore.			
	Dr. Ravichandra Reddi Ph.D.			
18.08.2012	Former Professor of Zoology,	Guest Lecture: Biodiversity in India.		
	Bangalore University			
	Dr. Ravi Kumar Ph.D.			
10.00.0040	Dept. of Molecular	Topic : Biotechnological Applications in		
10.08.2012	Neurobiology, New york	Pharmaceutical Industries.		
	University, USA			



Date	Name	Enrichment Programme		
		3 day Exhibition on Environmental Issues		
15 th -17 th		by Life Science students.		
	Exhibition	Number of Visitor: 4000 (From BHS high		
August 2012		school, Vijaya PU College and Vijaya		
		College)		
	Prof M.R.N. Murthy,			
21.07.2012.	Professor, Molecular Bio –	Guest Lecture: 'Uncommon Common		
21.07.2012.	Physics Unit, Indian Institute	Sense'		
	of Science, Bangalore			
30.06.2012	Dr. Shivamallu, National	Topic: 'Environment and its importance'		
30.00.2012	College, Bangalore	Topic: Environment and its importance		
	Dr. Niranjanaradhya Ph.D.			
26.07.2011	Siddaganga Science, Arts and	Topic: Climate Change: Global Warming.		
20.07.2011	Commerce College for Boys,	Topic. Chimate Change. Global Warming.		
	Tumkur.			
	Dr. Rahamath Ataz Ph.D.			
11. 01.2010	HOD, Dept. of Zoology,	Topic: Myths and Facts of Snakes.		
	Al-Ameen Degree College, B.lore			
	An Exhibition on specimen collected during the field visit			
11th - 13th	J			
February,	Invitees: Students and Staff of the College and the	" Marine Biodiversity of Coastal Karnataka"		
2015	Neighbouring Institutions.			
	No. of Visitors: 3000.			

33. Teaching methods adopted to improve student learning

- Chalk and talk method
- ICT Methodology with PPT Presentations and Youtube presentations
- Question bank / Assignment
- Remedial class



- Student Seminars
- Visual Charts and Educational DVDs
- ❖ ICT with Smart Board in Laboratory
- Permanent Slides
- Protozoan culture from collected water samples

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities:

	3 day Exhibition on Environmental Issues by Life Science
15 -17 th	students.
August 2012	Number of Visitors: 4000 (From BHS high school, Vijaya PU
	College and Vijaya College)
	One week Tour to Tamilnadu:
First Week of	Natural Science girl students of Vijaya College performed Street
March, 2013	plays to highlight the atrocities on Women to create awareness
	among Public.

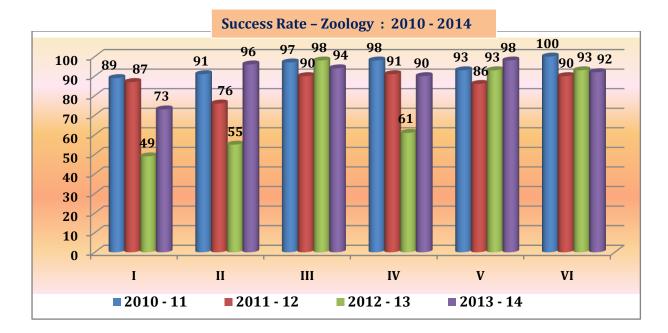
Life Science Students of Vijaya College Performing a Play in Madurai to create awareness and to highlight the atrocities on Women for Public during their education trip to Tamilnadu (March-2013).





I. Trends in Success Rate of Students

Sem	2010 - 11	2011 - 12	2012 - 13	2013 - 14	
I	89	87	49	73	
II	91	76	55	96	
III	97	90	98	94	
IV	98	91	61	90	
V	93	86	93	98	
VI	100	90	93	92	

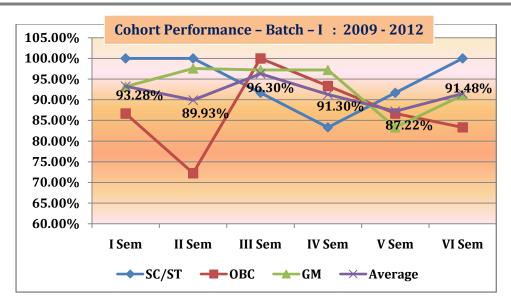


II. Cohort Performance of Students: 2010 - 2014

Batch - I: 2009 - 12

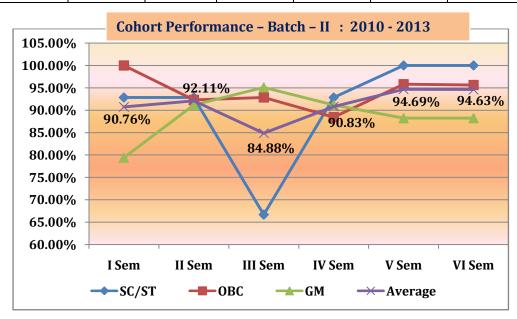
Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	100.00%	100.00%	91.67%	83.33%	91.67%	100.00%
ОВС	86.67%	72.22%	100.00%	93.33%	86.67%	83.33%
GM	93.18%	97.56%	97.22%	97.22%	83.33%	91.11%
Average	93.28%	89.93%	96.30%	91.30%	87.22%	91.48%





Batch - II: 2010 - 13

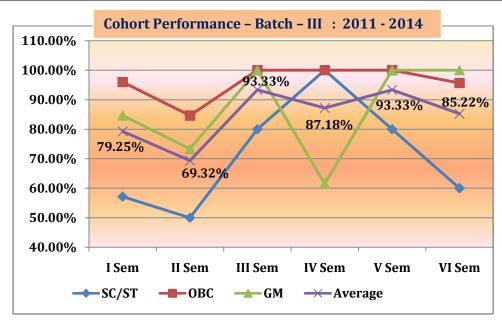
Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	92.86%	92.86%	66.67%	92.86%	100.00%	100.00%
ОВС	100.00%	92.31%	92.86%	88.46%	95.83%	95.65%
GM	79.41%	91.18%	95.12%	91.18%	88.24%	88.24%
Average	90.76%	92.11%	84.88%	90.83%	94.69%	94.63%





Batch - III : 2011 - 14

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem
SC/ST	57.14%	50.00%	80.00%	100.00%	80.00%	60.00%
ОВС	96.00%	84.62%	100.00%	100.00%	100.00%	95.65%
GM	84.62%	73.33%	100.00%	61.54%	100.00%	100.00%
Average	79.25%	69.32%	93.33%	87.18%	93.33%	85.22%



35. **SWOC Analysis and Future Plans**:

Strengths

- Dedicated teaching.
- Motivational skills to develop experiential learning in the subject.
- Adequate physical infrastructure and laboratory equipment.
- Academic planning and implementation.
- Highly efficient internal coordinating mechanism.
- Good peer support.

Weaknesses

- Accessibility to rural student because of factors like traffic jams
- Class Timings



Opportunities

- Minor and major research projects funded by UGC.
- MOUs with Research labs.
- Creating awareness Programmes by holding guest lectures on health, environmental issues, study tours etc.

Challenges

- Improving the results of low performing students.
- Bringing the Socially and Economically backward group students to mainstream.

Future Plans:

- Acquiring state of art equipment and modernizing the laboratories
- Setting up study room for students in the department
- Starting Post graduation course in Zoology
- Utilizing the services of all retired teachers of the department to take Remedial coaching classes.
