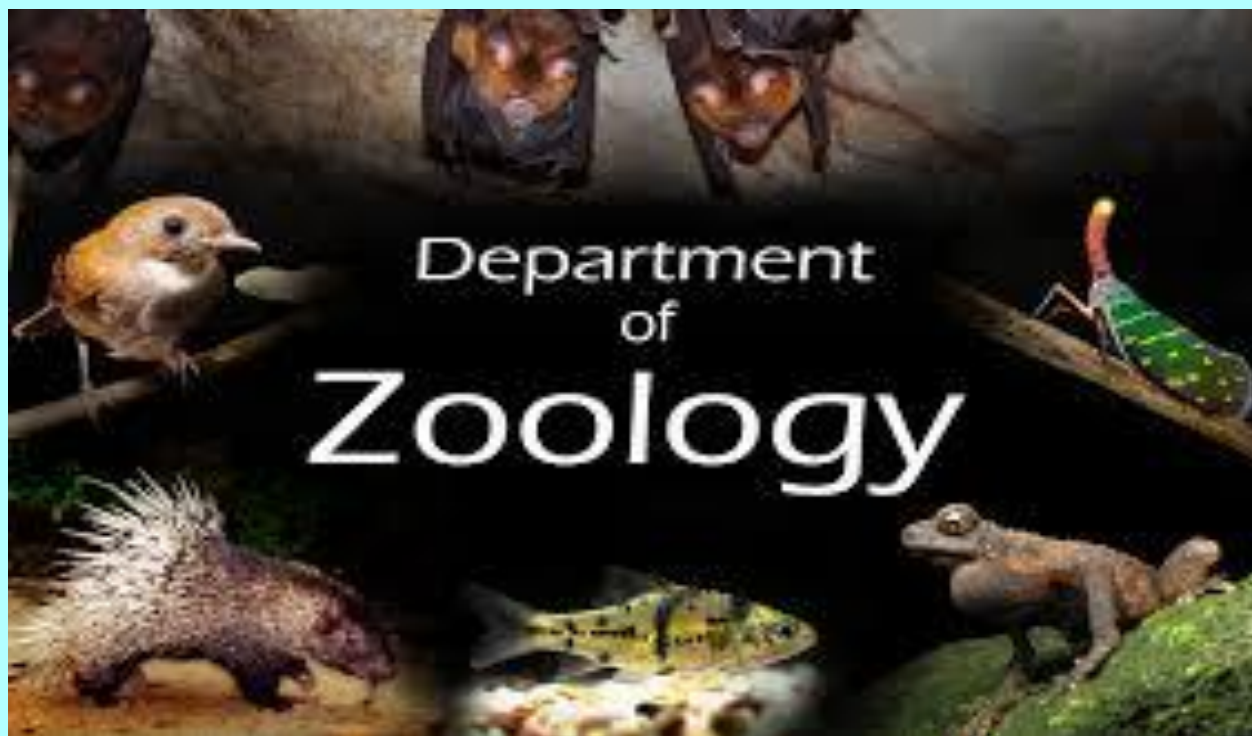


P.T.C. Education Society's
**S.S.M.M. ARTS, SCIENCE AND
COMMERCE COLLEGE, PACHORA
DIST. JALGAON**



DEPARTMENT OF ZOOLOGY



S.S.M.M. Arts, Science and Commerce College, Pachora
(Affiliated to North Maharashtra University, Jalgaon)
(Profile of the Department of Zoology)

1. Name of the department :- Zoology
2. Year of Establishment :- June 1971 (Gen)
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 UG Courses
 - 1) F.Y.B.Sc
 - 2) S.Y.B.Sc
4. Names of Interdisciplinary courses and the departments/units involved :
 - a. Environmental Studies
 - b. General Knowledge.
5. Annual/ semester/choice based credit system (programme wise):-
 - 1) F.Y.B.Sc :- Semester (60 +40) CGPA
 - 2) S.Y.B.Sc:- Semester (60 +40) CGPA

- 6 **Number of teaching posts – Total - 2**

Post	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	01	VACANT

6 Number of Non teaching posts

Post	Sanctioned	Filled
Lab Attendant	01	01

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

Name of the Faculty	Qualification	Designation	Specialization	Experience
Prof. Madhusudan P. Bauskar	M.Sc D.H.E M. Phil	Associate Prof.	Zoology (Physiology)	02 Yrs P.T. 33 Yrs F.T.

Departmental Work load

Year	Class	No of students	Theory Periods	Total Practical Periods	Total	Total Work load	Regular Work load	Additional Workload Per Week
2011-12	F.Y.B.Sc	074	03+03	20	26	42	18	24*
	S.Y.B.Sc	030	04+04	08	16			
2012-13	F.Y.B.Sc	075	03+03	20	26	46	18	28*
	S.Y.B.Sc	036	04+04	12	20			
2013-14	F.Y.B.Sc	129	03+03	36	42	66	18	48*
	S.Y.B.Sc	049	04+04	16	24			
2014-15	F.Y.B.Sc	078	03+03	20	26	62	18	44*
	S.Y.B.Sc	090	04+04	28	36			
2015-16	F.Y.B.Sc	090	03+03	24	30	54	18	36*
	S.Y.B.Sc	048	04+04	16	24			
2016-17	F.Y.B.Sc	105	03+03	28	34	58	18	40*
	S.Y.B.Sc	051	04+04	16	24			
2017-18	F.Y.B.Sc	101	03+03	28	34	62	18	44*
	S.Y.B.Sc	059	04+04	20	28			
2018-19	F.Y.B.Sc	102	03+03	28	34	62	18	44*
	S.Y.B.Sc	061	04+04	20	28			

F.Y.B.Sc -15 Students & S.Y.B.Sc -12 Students Practical Batches ,
Per Batch -4 Periods

Regular Workload – 18 Periods & Extra Workload – Prof .M.P.Bauskar *

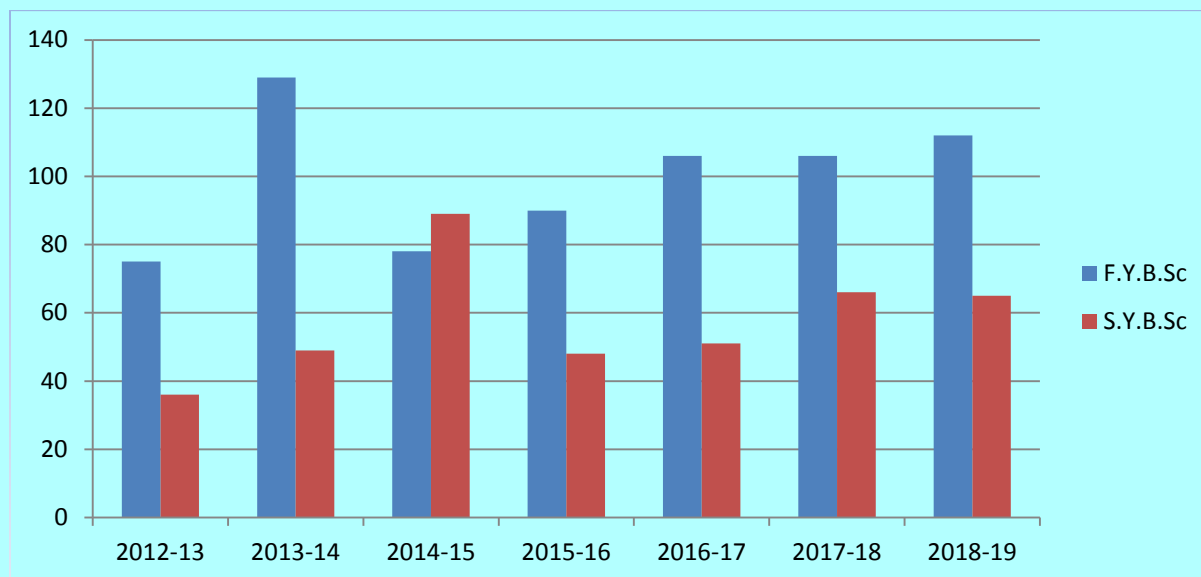
8. Strength of Students – (Programme wise):--

Sr. No.	Academic Year	F.Y.B.Sc Zoology	S.Y. B.Sc Zoology
1	2012-13	075	036
2	2013-14	129	049
3	2014-15	078	089
4	2015-16	090	048
5	2016-17	106	051
6	2017-18	106	066
7	2018-19	102	061

9. Student-Teacher Ratio:

Academic Year	Programme	Student-Teacher Ratio
2012-13	F.Y.B.Sc	75 : 01
	S.Y.B.Sc	36 : 01
2013-14	F.Y.B.Sc	129 : 01
	S.Y.B.Sc	49 : 01
2014-15	F.Y.B.Sc	78 : 01
	S.Y.B.Sc	89 : 01
2015-16	F.Y.B.Sc	90 : 01
	S.Y.B.Sc	48 : 01
2016-17	F.Y.B.Sc	106 : 01
	S.Y.B.Sc	51 : 01
2017-18	F.Y.B.Sc	106 : 01
	S.Y.B.Sc	66 : 01
2018-19	F.Y.B.Sc	112:01
	S.Y.B.Sc	65:01

Graphical presentation of Students Strength



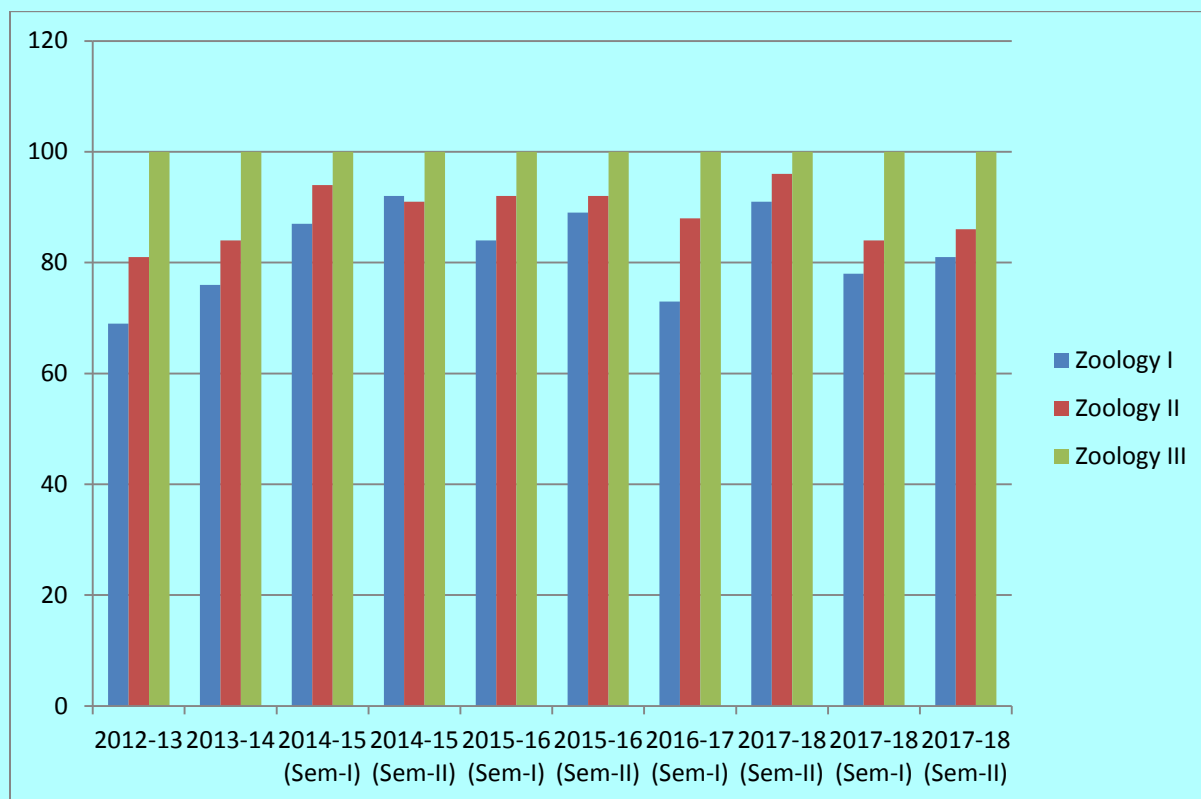
10. Success rate of students (Passing %)

RESULT SHEET – F.Y.B.Sc. ZOOLOGY DEPT

Sr. No.	Academic year		Zoology I	Zoology II	Zoology III
1	2012-13		69%	81%	100%
2	2013-14		76%	84%	100%
3	2014-15	Sem I	87%	94%	100%
		Sem II	92%	91%	100%
4	2015-16	Sem I	84%	92%	100%
		Sem II	89%	92%	100%
5	2016-17	Sem I	73%	88%	100%
		Sem II	91%	96%	100%
6	2017-18	Sem I	78%	84%	100%
		Sem II	81%	86%	100%

Graphical Representation

RESULT SHEET – F.Y.B.Sc. ZOOLOGY DEPT

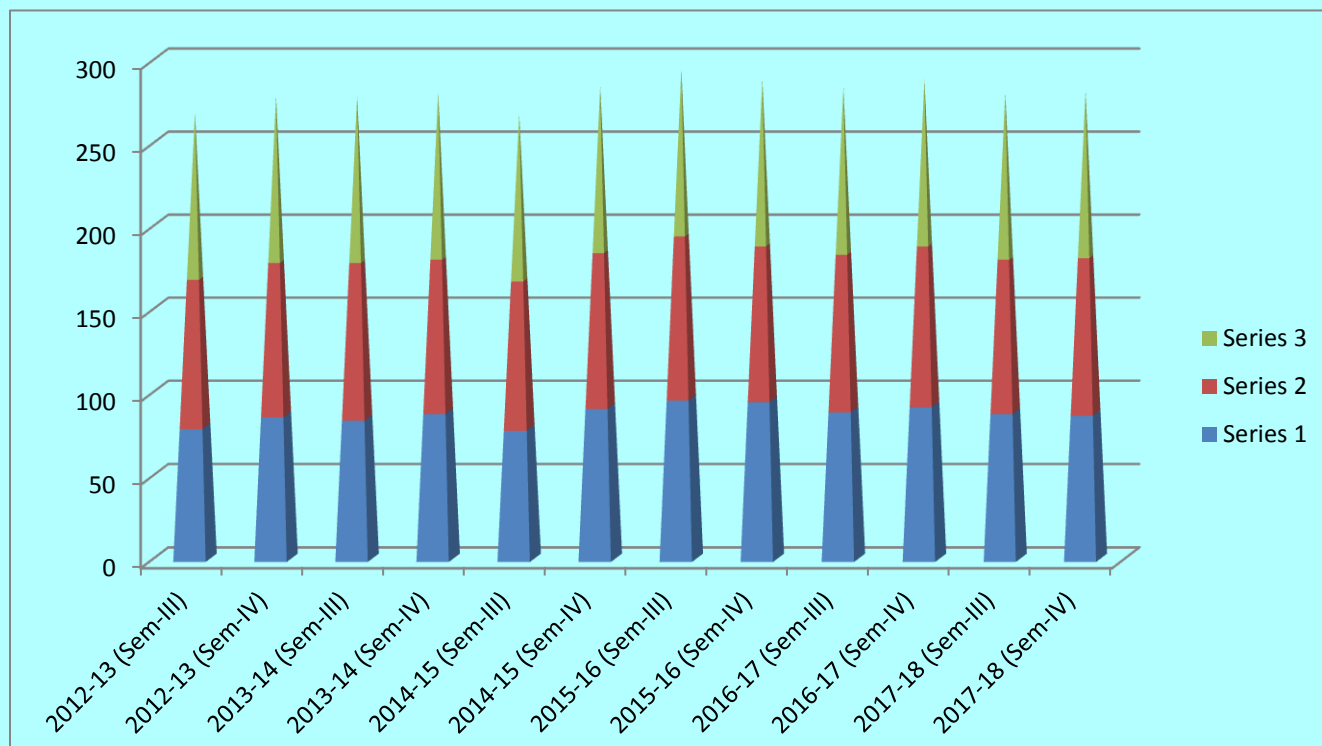


11. RESULT SHEET – S.Y.B.Sc. ZOOLOGY DEPT

Sr. No.	Academic year		Zoology I	Zoology II	Zoology III
1	2012-13	Sem III	79%	89%	100%
		Sem IV	86%	92%	100%
2	2013-14	Sem III	84%	94%	100%
		Sem IV	88%	92%	100%
3	2014-15	Sem III	78%	89%	100%
		Sem IV	91%	93%	100%
4	2015-16	Sem III	96%	98%	100%
		Sem IV	95%	93%	100%
5	2016-17	Sem III	89%	94%	100%
		Sem IV	92%	96%	100%
6	2017-18	Sem III	88%	92%	100%
		Sem IV	87%	94%	100%

Graphical Representation

RESULT SHEET – S.Y.B.Sc. ZOOLOGY DEPT



12. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ Mphil/ PG.

M.Phil-----01

Title : Studies on some aspects of Biology and Physiology of fresh water crab *Paratelphusa jacquemontii* – North Maharashtra University Jalgaon
Year of Passing : - **12 Oct. 1995**

13. Publications:

Books with ISBN/ISSN numbers with details of publishers:

Title : Text Book For S. Y.B.Sc Sem - III & IV

Class	Subject code	Title	Publication	ISBN No.
S.Y.B.Sc	Zoo-203	Zoology Practical Book	Vrinda Publication Jalgaon	-
S.Y.B.Sc Sem – III & IV	Zoo-233 & Zoo244	Zoology Practical Book	Academic Book Publication Jalgaon	ISBN – 978-93-85664-32-8
S.Y.B.Sc Sem-III	Zoo-231	Zoology – Non chordate – II	Vrinda Publication Jalgaon	ISBN - 978-93-85028-64-9
S.Y.B.Sc Sem-III	Zoo-231	Zoology – Non chordate – II	Academic Book Publication Jalgaon	ISBN – 978-93-85664-13-7
S. Y.B.Sc Sem -IV	Zoo-232	Applied Zoology II	Prashant Publication Jalgaon	ISBN – 978-93-82414-69-8
S.Y.B.Sc Sem - IV	Zoo-241	Chordate II	Academic Book Publication Jalgaon	ISBN – 978-93-85664-00-0

The area of Zoology Department

Zoology Lab 69.55 Sq.mt

Staff Room 17.25 Sq.Mt

B. Number of Books in the Central Library of College:

Sr. No.	Academic Year	No. of Reference Books		No. of Text Books		Total Number of Books	
		No.	Amt.	No.	Amt.	No.	Amt.
1	Upto 2012	488	79271	863	37748	1351	117019
2	2012-13	33	7486	180	9945	213	17431
3	2013-14	Nil	Nil	165	12720	165	12720
4	2014-15	61	21049	60	6121	121	27170
5	2015-16	16	4097	100	7760	116	11857
6	2016-17	19	5912	145	12941	164	18853
7	2017-18	Nil	Nil	10	880	10	880
8	2018-19						
	Total	617	117815	1523	88115	2140	205930

h. Language Proficiency:

The department offers all the courses in English medium. The proficiency of the students in English is average in the beginning but later they find themselves comfortable.

J. Trends in the success and drop-out rates of students

There is incremental growth in the pass percentage of the students in the last five years. Likewise the drop-out rate has also considerably come down below five percent.

k. Participation of teachers in academic and personal counseling of the students.

The staff is actively involved in personal counseling of the students in respect of their academic and extra-curricular activities such as participation in **Avishkar** with success. The faculty members regularly attend seminars and conferences.

L. Number of Books in the Departmental Library, if any (Previous Text Books): 160

The department offers all the courses in English medium. The proficiency of the students in English is average in the beginning but later they find themselves comfortable.

M. Placements records of the students and contribution of department to aid

student placement.

The department constantly encourage students for higher courses after the basic degree, competitive examinations and other such opportunities in the government, public and private sectors. Some of our past students holding worth positions in the public and private subdivisions

P. Plan of action of the Department for next five years.

1. To develop the departmental library
2. To prepare for research project.
3. To arrange National / State / University level seminars, workshops, conference etc.
4. To promote research activities and publications
5. To develop well equipped laboratory to carry out research work.
6. To short term applied coerces for the students.
7. To arrange handling of sophisticated instrument and training program for the students.

14. Number of students receiving financial assistance from college, university, Government or other agencies: 85%

15. Details on student enrichment programmers (special lectures / workshops /Seminar) with external experts: Seminar, Test Series

16. Teaching methods adopted to improve student **learning**:

Use of OHP, LCD Projector, Charts, Sheets, Manuals, Demonstrations of Experiments, field visit. Internet facility, In addition to the classical lecture method, the faculty members use teaching methods like seminar, tutorials, Test Series and interactive participation of students. They use LCDs, internet and other I.C.T resources for enriching their knowledge. They also visit different departments ,Industries and institutes to update themselves.

17. Faculty who have attended National and International seminar, workshop, conferences:

Prof. Madhusudan Puna Bauskar, Dept. of Zoology, Associate Prof. S.S.M.M. Arts, Science & Com College , Pachora				
Sr. No .	Date / Day	Title	Organized By College / University/ Other/ UGC Level / State Level	National / International Workshop / Seminar
1	3-7 th Jan 2012	Science & Technology for inclusive innovation – Role of Women	99 th Indian Science Congress, University, Bhubaneshwar	National
2	5-6 th Feb 2012	Recent Advances in Agro biotechnology for Sustainable Agricultural Practices	M.J.College,Jalgaon	National
3	10 th Feb 2012	F.Y.B.Sc. Zoology Syllabus framing Workshop	P.O. Nahata College, Bhusawal	Workshop
4	21 st July 2012	Mutual Learning in F.Y.B.Sc. Practical Workshop	S.G. Patil Arts, Science & Comm. College, Sakri	Workshop
5	24-5 th August 2012	Best Practices in the quality enhancement in higher Education Institutions	S.N .Arts ,D,J, Malpani Commerce & B.N .Sarda Science College, Sanganner	National
6	21 st Sept 2012	Examination Reforms in Higher Education	S.S.M.M. College, Pachora	Workshop
7	22-3 rd Dec 2012	Biodiversity & Environmental Impact NCBEI-2012	Arts, Science & Commerce College, Navapur	Conference
8	3-7 th Jan 2013	Science for shaping the future of India	100 th Indian Science Congress, Kolkata University, Chennai	National
9	12 th Jan 2013	S.Y.B.Sc. Zoology Theory Syllabus framing I & II	Coordinator – S.S.M.M .College ,Pachora	Workshop
10	5-6 th Feb 2013	Recent Advances in Agro biotechnology for Sustainable Agricultural Practices	M.J. College, Jalgaon	National
11	16 th July 2013	S.Y.B.Sc. Practical Syllabus framing	D.N. College ,Faizpur	Workshop

12	20-21 st Sept 2013	T.Y.B.Sc .Syllabus framing	G.D. Bendale Mahila College, Jalgaon	Workshop
13	19-2 nd Oct 2013	Proliferation, Differentiation & Apoptosis	Stem Cell & Cancer , Haffkine Institute, Parel [Mumbai]	4th International Conference
14	25.30 th Nov 2013	Animal Tissue Culture & its application	Moving academy, Medicine & Biomedicine,Pune	Workshop
15	11 th Dec 2013	T.Y.B.Sc. [Zoology] Syllabus framing – Animal Behavior	North Maharashtra University, Jalgaon	Workshop
16	3-7 th Feb 2014	Innovation in Science & Technology for inclusive Development	101 st Indian Science Congress, University of Jammu, Jammu	National
17	21 st Aug. 2014	T.Y.B.Sc. [Zoology] Practical Syllabus framing	S.S.V.P. College,Dhule	Workshop
18	10 th Dec 2014	F.Y.B.Sc., Syllabus framing workshop for Zoology	Dept. of Zoology, Nutan Maratha College Jalgaon	Workshop
19	13-14 th Dec 2014	Jagatiki Karanacha Marathi Bhasha & Sahitya Varil Prabhav	S.S.M.M.College, Pachora [Jalgaon]	National
20	3-7 th Jan 2015	Science and Technology for Human Development	102 nd Indian Science Congress, University of Mumbai, Mumbai	National
21	20-21 st Jan 2015	Recent Advances in Chemo &Biosciences	M.J.College,Jalgaon	National
22	20-21 st Feb 2015	Role of Higher Education in India	Satguru Society's College of Physical Education, Jalgaon.	2 nd International Conference
23	24 th July 2015	F.Y.B.Sc Zoology Practical Workshop	NanasY.N.Chavan College,Chaliskaon	Workshop
24	8 th Oct 2015	A Role of Goatary and Poultry farming for Rural Development	S.G.Patil Arts, Science & Commerce College, Sakri	Semisar
25	3-7 th Jan 2016	Science and Technology for Indigenous Development in India	103 rd Indian Science Congress, Mysore University,Mysuru	National
26	27 th June 2016	S.Y.B.Sc. Zoology Practical Workshop	S.S.M.M. College,Pachora	Workshop
27	17-18 th Sept 2016	Mararhi – State level Workshop	S.S.M.M. College, Pachora	Workshop

28	26 th Sept 2016	On Screen Evaluation of Answer Books	North Maharashtra University, Jalgaon	Workshop
29	3-7 th Jan 2017	Science and Technology for National Development	104 th Indian Science Congress, S.V. University, Tirupati	National
30	23 rd Feb 2017	Syllabus framing for T.Y.B.Sc. Zoology	Zulal Bhilajirao Patil College,Dhule	Workshop
31	22-23 rd Nov 2017	Short Term Course in Gender Budget & Climate Change	Vaikuntha Mehata National Institute C Management ,Pune	State level
32	4-7 th Dec 2017	Short Term Course in Gender Sensitization	RSTM Nagpur University, Nagpur	UGC-HRDC
33	21-22 nd Dec 2017	Innovation in Biological & Chemical Sciences	Dhanaji Nana Mahavidyalya, Faizpur	International Conference
34	30 th Jan 2018	Role of Biological Sciences in Sustainable life [SCRBSL – 2018]	Nutan Maratha College, Jalgaon	State level Conference
35	16-20 th Mar 2018	Reaching the unreached with Science & Technology	105 th Indian Science Congress, Manipur University, Imphal	National
36	10 th Oct 2018	Gender Sensitization & Gender equity	ASC College, Chopada	National
37	3-9 th Dec 2018	Short Term Course in Mathematics for Biological Science	T. C. College, Baramati	UGC – HRDC STC
38	10-12 th Dec 2018	Short Term Course in Gender Budget & Climate Change	Vaikuntha Mehata National Institute C Management ,Pune	National
39	3-7 th Jan 2019	Future India : Science and Technology	106 th Indian Science Congress, Lovely Professional University, Phagawara	National
40	6 th Feb 2019	Role of IQAC in revised NAAC Accreditation	KBCNMU, Jalgaon & ARB Garud ASC College ,Shendurni	Workshop
41	16 th Feb 2019	Importance of Soil Testing & Water analysis	K B C N M U, Jalgaon. S.M.M.ASC College, Pchora	State level Conference
42	11 th	Gender Sensitization : An Imperative	Smt P.K.Kotecha Mahila	National

	March 2019	Need of the Hour	ASC College, Bhusawal	
43	22 nd March 2019	S.Y.B.Sc.Zoology Theory Syllabus framing I & II	ASC College, Chopada	Workshop

18. Innovations/ Contributions in Teaching:

- **Design of Curriculum:** Actively participated in syllabus framing of F.Y., S.Y, and T.Y. B.Sc. Zoology subject of K.B.C. North Maharashtra University, Jalgaon.

Teaching Methods:

1. Lecture method
2. Use of visual charts and models
3. Use of overhead projector
4. Power point presentation using LCD projector

Laboratory Experiments:

1. Demonstration of Experiments
2. Providing laboratory manuals and sheets of observations and tables, formulae
3. Analysis of graphs and results

Evaluation Method:

1. Assignments such as tests and tutorials
2. Seminars
3. University Examinations (Theory and Practical)

Motivation to the students: Science quiz competition at state, college level, AVISHKAR at college and university level

Preparation of resource Materials including books Reading materials

Laboratory manuals

1. Preparation of short notes, laboratory Manuals and sheets for experiments

19. Remedial Teaching /Student Counseling (Academic):-

Counseling of F.Y.B.Sc. students is made to raise an academic interest in Science and Zoology so that students should find good interest in Zoology and Science at higher classes Accordingly the applied knowledge of Science and Zoology provided. Different methods are used to sustain an academic interest in Zoology so that large number of students should be attracted towards Zoology S.Y.B.Sc students are guided accordingly by which they preferred Zoology as principal subject at T.Y.B.Sc. level. Applied knowledge with technical background is given to students of higher classes.

1. Actively participated in college activities like Science Association, Avishkar, Annual social gathering, Tree plantation program, students welfare, relief activities for natural calamities, Environmental activities.

2. Worked as a member Grievances' Committee of women cell
3. Worked as Paper setters and examiners at S.Y.B.Sc. Zoology theory and practical NMU examination
4. Worked as Paper setters and examiners at T.Y.B.Sc. Zoology theory and practical NMU examination

20. Innovations/Contribution in teaching:

Conference /Symposium/Workshop Organized:

**Organized and worked as a convener of S.Y.B.Sc Zoology (Theory)
Syllabus framing workshop 12 Jan 2013**



Inauguration of S.Y.B.Sc Zoology Syllabus framing workshop of Zoology
Guidance by Management Person Prof. S. Z. Totala



Inauguration of S.Y.B.Sc Zoology Syllabus framing workshop
Guidance by BOS (Zoology) Chairman Dr. Nisar Patel

**21. Organized and worked as a coordinator of S.Y.B.Sc Zoology (Practical)
Syllabus framing workshop on 27 June 2016**



Introduction of Management and BOS Committee of Zoology by
Coordinator of S.Y.B.Sc Zoology Practical Workshop



Participants of various colleges attending S.Y.B.Sc Practical workshop of zoology
on 27 June 2016



Inauguration of S.Y.B.Sc Zoology Practical framing workshop Guided by
Chairman (Senior College) Mr. V. T. Joshi



Guidance for S.Y.B.Sc Zoology Workshop by Principal Dr. B. N. Patil

22. Poster Presentation - Indian Science Congress

Sr. No.	Place	Date	Title	Section	Page No.
01.	Bhubaneswar	03 to 07 Jan 2012,	Review on health status by clinical analysis of blood and urine of some people of Pimpalner region, Dist Dhule (MS)	Medical Science	151
02	Mysore University Mysure	03 to 07 Jan 2016	An overview of fishes of Dhule district, Maharashtra	Animal, Veterinary and Fishery Science	84
03	S. V. University Tirupati	03 to 07 Jan 2017	Studies on Stress enzyme activities on exposed earthworm (<i>Eisenia foetida</i>) to Cypermethrin and Oxyfluorfen	Environmental Science	160
04	Manipur University, Imphal	16 to 20 March 2018	Review on the Beetle world and human relationship	Agricultural and forestry	179

23. EXAMINATION DUTIES:-

Internal and external senior Supervisor for theory NMU Examination At various centers of NMU Jalgaon

- 1) In CAP at NMU-Jalgaon worked as Examiner/Moderator of F.Y.B.Sc/S.Y.B.Sc/T.Y.B.Sc Zoology every year and each semester
- 2) Worked as External Practical Examiner in Zoology F.Y./S.Y./T.Y.B.Sc. Zoology at different centers appointed by NMU Jalgaon

NMU EXAMINATION DUTIES:-

Worked as Flying Squad Member /Chairman of Squad Appointed by NMU Jalgaon. Internal Senior Supervisor as well as External senior supervisor at various centers and S. S. M. M. College Pachora.

24. OTHER ACTIVITIES :-

- 1) Worked as Presiding officer in election duties of National, State and Z. P., Panchayat Samiti as well as work as a counting of ballot papers.
- 2) Worked as a **Subject Expert in Zoology** at various colleges
- 3) Worked as a Referee in National Conference at M. J. College Jalgaon
- 4) Worked as a Judge in International School – Nirmal Expo 14 Date 21st Feb 14.
- 5) Worked as a coordinator Entry in Services.
- 6) Worked as a Co-Ordinator of Environmental study.
- 7) Member of department of General Knowledge.
- 8) Worked as a Chairman of Examination department.
- 9) Worked as a Chairman of Criteria –IV in NAAC committee of college
- 10) Worked as a Team Manager of Avishkar
- 11) Worked as a Chairman of Staff Academy
- 12) Member of IQAC Committee
- 13) Working as Director of S. S. M. M. Mahavidyalayin Karmchari Pathpedhi Pachora Dist Jalgaon
- 14) Promoted the Students for Competitive Examination
- 15) Actively participated in college activities Like, Science Association, Annual Social Gathering, Tree plantation programmed, Relief activities for natural calamities Etc.
- 16) Worked as a Member of Entry in Services (2016-18)
- 17) **Life member of Indian Science Congress – LM - 10015**
- 18) **Life member of Indian Association of Aquatic Biologist - LM - 460/2006**
- 19) **Life member of Bharat Krushak Samaj**

25 .SWOC analysis of the department and Future plans:

Students are motivated to offer Zoology subjects at special level by good laboratories and academically strong faculty members. Faculty and laboratory staff works whole heartedly throughout the day in the

department. Faculty is well equipped and laboratory staff is excellent and cooperative in their work. All laboratories are well equipped. The outcome shows good results of students.

Still department wants to improve further. The department is short of teaching and laboratory staff, by which due to overburden of work load, the staff gets exhausted. There is need of modernization of laboratories with increasing number so that a separate research laboratory can be developed.

Syllabus framing F.Y.B.Sc Practical workshop 3rd Aug. 2018.



STUDY TOUR – F. Y. / S. Y. B.Sc. Zoology Students



S.Y.B.Sc Zoology Study tour – Visit to Bar Coding Laboratory
Dr. Babasaheb Ambedkar Marathwada University Aurangabad



S.Y.B.Sc Zoology Study tour – Visit to Bar Coding Laboratory
Dr. Babasaheb Ambedkar Marathwada University Aurangabad





F.Y.B.Sc Zoology Study Tour at Padmalay





F.Y.B.Sc Zoology Study Tour at Padmalay

/29/2018

IMG_20180127_165009.jpg



Study tour - S.Y. B.Sc Zoology Students at Saputara (Gujrat)



Introduction of Chief Guest Principal Bildhikar in Science Association (2017-18)
by Prof. M. P. Bauskar



Introduction of Chief Guest Prof. A. T. Kalse in Science Association (2015-16)
by Prof. M. P. Bauskar

Students Seminar – S.Y.B.Sc. Zoology



Students Seminar – S.Y.B.Sc. Zoology

