

Brief History of the Department of Zoology

The Department of Zoology has inherited a genius tradition from its inception. In addition to the basic objectives of education, the Department of Zoology has been continuously working for the overall development of the students by implementing new initiatives to brighten the innate qualities.

From the day of its inception in 1964, the department of Zoology made a conspicuous headway in the arena of imparting education to the promising youth who may soar to the acme of success. First preceding head of the department Prof. D. S. Jajurle played a role of progenitor for the generation who succeeded him. He also played a key role in the form of prominent positions in the RTM Nagpur University. During his incumbency as head, the Department of Zoology thrived and witnessed the halcyon days that produced the personalities who hold eminent positions today. He was the recipient of the best teacher award of Govt. of Maharashtra in 1982. He also held the position of chairmanship of Board of Studies and Maharashtra State Board of the Secondary and Higher Secondary Education. He also occupied the position of Dean, faculty of Science, RTM Nagpur University, Nagpur.

In 1965, Agricultural Entomology was attached to the Department, which was, later on, separated only to join the Agricultural University established in the year 1968-69. Our colleagues, appointed in the department on 20th June 1965 were Prof. M. A. Quazi and Prof. J. D. Mahajan to assist H. O. D. in shouldering the responsibility of the department. Prof. Shelgaonkar, who was then working with department, became Principal of the Agriculture College of our parent institute when separated in 1996.

Teachers training programs were organized in 1978, 79 and 80 for secondary and higher secondary school teachers of Chandrapur District to keep them abreast with the latest knowledge of the subjects. We feel proud that our department had organized a workshop under the COSIP for all the University teachers in 1979. It was presided over by Dr. Gopal Krishna, Dean, and Institute of Science. Maintaining the same tradition, the teachers of the department are involved in various curricular and co-curricular activities and organizing many conferences, workshop and symposia of national repute.

In 1998 Prof D. S. Jajurle retired and was succeeded by Prof M. A. Quazi from December 3, 1997 to April 30, 2001. Prof. J. D. Mahajan took the charge as H.O.D. on April 30, 2001 and efficiently steered the departmental activities till April 29, 2002. On April 29, 2002 Prof. V. M. Kalpande took additional charge of the Department until he handed over the strings of the Department to Dr. A. P. Sawane on March 19, 2004.

Faculties of the Department of Zoology are at the forefront of research work and are publishing research papers in national and international research journals.

Similarly, the teachers of the department are actively participating in national and international conferences by reading research papers. Teachers have also been actively involved in the creation of university curricula and textbooks are also being developed.

Postgraduate course in Zoology has been started from the session **2016-17** and higher education facility has been arranged for the students in rural areas.

Similarly, the launch of **Center for Higher Learning and Research** from **2019** will give impetus to research and enhance to the reputation of the department.

The creative faculties of the Department help others to take a deep in the ocean of knowledge.

Faculty Members:

S.N.	Name of Faculty	Educational Qualification	Designation	Subject Specialization	Area of Research
1	Arvind P. Sawane	M.Sc., Ph.D	Professor	Ichthyology	Ichthyology, Aquatic Biology, Arachnology
2.	Ramdas R. Kamdi	M.Sc., Ph.D	Professor	Aquaculture	Aquaculture and Environmental Biotechnology
3.	Sanyogita R. Verma	M.Sc., Ph.D	Assitt. Prof.	Entomology	Environmental Impact Assessment, Freshwater Biology, Toxicology, Bioremediation, Biodiversity
4.	Hemant B. Parchake	M.Sc., NET	Assitt. Prof.	Fish and Fisheries	
5.	Tilak A. Dhoblale	M.Sc., SET	Assitt. Prof.	Animal Physiology	

Support Staff:

S.N.	Name of Faculty	Educational Qualification	Designation
1.	Mr. B. K. Surywanshi	H.S.S.C.	Lab. Assistant
2.	Mr. S.M. Wasake	S.S.C.	Lab. Attendant
3.	Mr. P.N. Nagapure	B.A.	Lab. Attendant
4.	Mr. D.V. Amalpuriwar	S.S.C	Lab. Attendant

Projects and Grants Received

Project/Schme Title	Funding Agency	Grant Received	Duration	Teacher Incharge
Study on the spider diversity and its correlation with plant diversity in Chandrapur district of Maharashtra	University Grant Commission (UGC)	Rs. 3,17,000/-	2011 – 2014	Dr. M. C. Kale

GONDWANA UNIVERSITY, GADCHIROLI
CBCS (UG) SYLLABUS IN Zoology
SUBJECT OFFERED

SEMESTER-I	PAPER CODE	CORE PAPER	TITLE OF PAPER	CREDIT	MARKS		Practica I	TOTA L	Grand Total
					THEORY	INTERNAL			
	USCZOT01	I	NONCHORDATE - PROTOZOA TO ANNELIDA	02	50	10	-	60	150

	USCZOT02	II	CELL BIOLOGY	02	50	10	-	60	
	USCZOP01	PRACTICAL	Core paper I and II	02	-	-	30	30	
SEMESTER-II	USCZOT03	III	NONCHORDATE - ARTHOPODA TO HEMICHORDATA	02	50	10	-	60	150
	USCZOT04	IV	GENETICS & EVOLUTION	02	50	10	-	60	
	USCZOP02	PRACTICAL	CORE paper III & IV	02	-	-	30	30	

SEMESTER- III	PAPER CODE	CORE PAPER	TITLE OF PAPER	CREDI T	MARKS		Practica l	TOTA L	Gran d Total	Skill Enhancement Course (SEC)
					THEORY	INTERNAL				
	USCZOT05	V	ANIMAL DIVERSITY (CHORDATES) and COMPARATIVE ANATOMY	02	50	10	-	60	150	ENVIRONMENTAL STUDIES
	USCZOT06	VI	PHYSIOLOGY & BIOCHEMISTRY	02	50	10	-	60		
	USCZOP03	PRACTICAL	CORE Paper V & VI	02	-	-	30	30		
SEMESTER- IV	USCZOT07	VII	DEVELOPMENTAL BIOLOGY	02	50	10	-	60		ENVIRONMENTAL STUDIES
	USCZOT08	VIII	PHYSIOLOGY & BIOCHEMISTRY	02	50	10	-	60		
	USCZOP04	PRACTICAL	CORE Paper VII & VIII	02	-	-	30	30		

SEC (ANY ONE) DSE (ANY ONE)

SEMESTER -V	Skill Enhancement Courses SEC (ANY ONE)	Discipline Specific Electives DSE (ANY ONE)
	1. APICULTURE	1. PARASITOLOGY
	2. SERICULTURE	2. APPLIED ZOOLOGY

	3. VERMICULTURE & LAC CULTURE	3. INSECT VECTOR & DISEASE
	4. AQUATIC BIOLOGY	4. AQUARIUM FISH CULTURE
SEMESTER- VI	1. MEDICAL DIGNOSTICS	1. IMMUNOLOGY
	2. PUBLIC HEALTH AND HYGIENE	2. ANIMAL BIOTECHNOLOGY
	3. RESEARCH M)	3. MICROTECHNIQUE, BIOINFORMATICS & BIostatISTICS
	4. INSTRUMENTATION METHODOLOGY	4. REPRODUCTIVE BIOLOGY

SKILL ENHANCEMENT COURSES Approved by Gondwana University

Sr. No.	Course Name	Eligibility
1	Honey Production	X passed
2	Wild life Tourism	X passed

VALUE ADDED/ADD-ON COURSES/CERTIFICATE COURSE

Sr. No.	Course Name	Eligibility
1	Value added course "Campus to corporate-get future ready"	Under Graduate/Post Graduate
2	Certificate course "Wildlife tourism"	Under Graduate/Post Graduate
3		
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PERFORMANCE OF THE DEPARTMENT IN THE UNIVERSITY EXAMINATIONS(UG LEVEL)

Academic Year	University	No. of students appeared For Final Year Exam.	No. of students succeeded in Final Year Exam.	% Result
2017-18	Gondwana University, Gadchiroli	64	54	84.375
2018-19	Gondwana University, Gadchiroli	72	68	94.44
2019-20	Gondwana University, Gadchiroli	71	71	100

STUDENT PROGRESSION

Academic Year	No. of students admitted in First Year	No. of students reached to Final Year	% Student Progression	No. of students opted PG course	% Student Progression	No. of students opted Zoology PG course	% Student Progression
2017-18	102(2015-2016)	64	62.74	29	45.31	03	
2018-19	112(2016-2017)	72	64.28	37	48.61	14	
2019-20	125(2017-2018)	71	56.8	54	76.05	10	
2020-21	121(2018-2019)	108	89.25				

PERFORMANCE OF THE DEPARTMENT IN UNIVERSITY EXAMINATIONS (PG LEVEL)

Academic Year	University Examination	No. of students appeared for the	No. of students succeeded in the	% Result	1 st Class	Univ. Merit
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		Examination	Examination			
2017-2018	M. Sc. Semester IV	14	14	100	12	02
2018-2019	M. Sc. Semester IV	13	10	76.92	10	01 (3 rd Rank)
2019-2020	M. Sc. Semester IV	19	19	100		04(1 st , 3 rd , 4 th , 5 th)

RESEARCH GUIDANCE

Name of the Recognized Supervisor	Research Supervisor Registration Number	Year of Research Supervisor Recognition	Number of students obtained Ph. D.	Number of students registered for Ph. D.	Research Area
Dr. A.P Sawane	GUG/ Ph.D. Sup. Rec/161/2012	2012	02	01	Ichthyology, Aquatic Biology, Arachnology
Dr. R.R Kamdi	Subject Zoology: GUG/ Ph.D. Sup. Rec/166/2012	2012	02	05	Aquaculture and Environmental Biotechnology
	Subject Biotechnology: GUG/ Ph.D. Sup. Rec/264/2013	2013	-	-	
Dr S.R. Verma	GUG/Ph.D. Sup.	14/07/2020	-	01	Environmental Impact Assessment, Freshwater

	Rec./735/2020				Biology, Toxicology, Bioremediation, Biodiversity
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CONTINUOUS INTERNAL ASSESSMENT

Criteria adopted by the Department for Continuous Internal Evaluation (CIE) at UG level.

Head	Activity	Distribution of Internal Marks					
		Marks Allotted	Not attending	Attending but scoring less than 40% Marks	Scoring from 40 to 60% Marks	Scoring from 61 to 80% Marks	Scoring above 80% marks
Paper I	Test 01 (Unit I and II)	02	00	01	1.5	1.75	02
	Test 02 (Unit III and IV)	02	00	01	1.5	1.75	02
	Assignment /Prelims	02	00	01	1.5	1.75	02
Paper II	Test 01 (Unit I and II)	02	00	01	1.5	1.75	02
	Test 02 (Unit III and IV)	02	00	01	1.5	1.75	02
	/Prelims	02	00	01	1.5	1.75	02
Attendance	Online classes	02	00	01	1.5	1.75	02

Participation In	Departmental Curricular, Co-curricular and Extra-curricular Activities	02	00	01	1.5	1.75	02
TOTAL		20	00	10	15	17.5	20

Criteria adopted by the Department for Continuous Internal Evaluation (CIE) at PG level.

Head	Activity	Distribution of Internal Marks					
		Marks Allotted	Not attending	Scoring less than 40% Marks	Scoring from 40 to 60% Marks	Scoring from 61 to 80% Marks	Scoring above 80% marks
Each Theory Paper	Test 01 (Unit I)	02	00	02	03	3.5	04
	Test 02 (Unit II)	02	00	02	03	3.5	04
	Test 03 (Unit III)	02	00	02	03	3.5	04
	Test 04 (Unit IV)	02	00	02	03	3.5	04
	Prelims	04	00	02	03	3.5	04
Assignment	Paper I	02	00	01	1.5	1.75	02
	Paper II	02	00	01	1.5	1.75	02
Attendance	Theory classes	02	00	01	1.5	1.75	02
Participation In	Departmental Curricular, Co-curricular and Extra-curricular activities.	04	00	02	03	3.5	04
TOTAL		20	00	10	15	17.5	20
Each Practical Paper	Attendance	05	00	02	03	04	05
	Attentiveness	05	00	02	03	04	05
	Skillfulness	05	00	02	03	04	05
Participation In	Avishkar Research Competition/ Conference/Workshop	05	00	02 (College Level)	03 (University Level)	04 (State Level)	05 (Inter University Level)
TOTAL		20	00	09	13	17	20

ACTIVITIES

Curricular, Co-Curricular and Extra-curricular activities are organized by Department Faculty.

Academic Session 2017-18

Sr. No.	Activity Conducted	Resource Person/ Convener/Coordinator	Students Participated/Benefitted
01	University competition in "Instinct 2018" Seminar cum presentation competition organized by JB college of Science, Wardha on 12 th Mar, 2018	Dr. S.R Verma	02
02	On 7 th December, 2017 a one day tour of B.Sc students to National laboratories (NEERI and CSBR) at Nagpur was organized.	Dr. R.R Kamdi Dr. S.R Verma	
03	Long excursion was organized for	Dr. A. P. Sawane	

	M. Sc students from 18 th Jan, 2018 to 27 th Jan, 2018 to Karnatak-Goa	Dr. R.R Kamdi	
04	Department, in collaboration of Rotary Club organized to show a documentary award winning film "Nadi Wahate" on 5 th Feb, 2018		
05	Bridge Course	Dr S.R Verma	UG Sem I, III students

Academic Session 2018-19

Sr. No.	Activity Conducted	Resource Person/ Convener/Coordinator	Students Participated/Benefitted
1.	One day field visit to fish farm Shivani Bandh, Sakoli was arranged on 13 th July, 2018 for B.Sc III (Sem V)	Dr. R.R kamdi Dr. S.R Verma	45
2.	One day Workshop was conducted on "Apiculture Practices and Application" on 01 st Sept, 2018.The	Speaker, Dr. B.S Rahile And Mr. Jogi (Technical demonstration) Co-ordinator: Dr. S.R Verma	
3.	SavitribaiPhuleJayathi Celebration 03/01/2019	Co-Ordinator: Dr. S.R Verma	
4.	Participated in Intercollegiate Science Competition at Mahota Science College, Nagpur on 16/01/2019 and secured 2 nd consolation prize by B.Sc III students.	Dr S.R Verma	02 UG (CBZ), 04 PG
5.	One day " Sickle Cell Detection and Awareness Camp " was conducted by Department of Zoology on 23 rd January, 2019.	ShriKapilKadam, Lab Technician SitaRatan hospital Anandwan	Total 210 students and 17 staff participated
6.	Guest lecture on	Dr. Joshi	

	“Bioinformatics and Demonstration of data retrieval” on 08/02/2019.	Co-ordinator: Dr. S.R Verma	
7.	A Guest lecture on Biostatistics is scheduled on 20th Feb, 2019 at 10.00a.m	Dr. M.S Paingankar, Assistant Professor, Govt. Science College, Gadchiroli Co-ordinator: Dr. S.R Verma	
8.	One day University Level Workshop on The Scope of New CBCS Syllabus for Vth&VIth Semester B.Sc. III, Zoology Date:18th March 2019		
9.	Bridge Course	Dr. S.R Verma	UG Sem I, III students

Academic Session 2019 -20

Sr. No.	Activity Conducted	Resourse Person/ Convener/Coordinator	Students Participated/Benefitted
1.	One Day visit to “National Engineering Environmental Research Institute” for all faculties of Anand Niketan College, Anandwan was conducted on 16 th July 2019	Co-ordinator: Dr. S.R Verma	
2.	‘One day “Sickle Cell Detection and Awareness Camp” was conducted on 04 th September 2019.	Shri Kapil Kadam, Lab Technician Sita Ratan hospital Anandwan with his two colleagues carried the detection drive. Dr. Manish S. Bhoyar,	91 students and 12 staff participated

3.	A One day 'Air Quality Monitoring' Workshop was organized to celebrate "National Pollution and Control Day" on 28 December 2019	Dr. Ritesh Kamal Singh, Senior Chemist & Head of Environment Cell at Khaperkheda Co-ordinator: Dr. S.R Verma	B.Sc Sem (Vand VI) and M.Sc Students
4.	A one day Hands on training on Microtechniques was organized on 8 th January 2020..	Mr Sharad K. Sawale Director of Sawale Histology Works and Mr. Sagar S. Sawale Senior Laboratory Technician was invited for programme as a trainers Co-ordinator: Dr. S.R Verma	B.Sc Sem (Vand VI) and M.Sc Students
5.	Visit to Sai Hospital Pathological laboratory Anandwan on 11 th February, 2020		
6.	One day intercollegiate workshop on Legal Act for Women and Management of Educational Problems was conducted 3 rd January 2020, to mark Krantijyoti Savitribai phule Jayanti for.	Speaker : Ms. Monali P. Mohurle Clinical Psychologist from Indira Gandhi Government Medical College Co-ordinator: Dr. S.R Verma	B.Sc and M.Sc students
7.	Bridge Course	Dr. S.R Verma	UG Sem I, III students

Sr. No.	Activity Conducted	Resource Person/ Convener/Coordinator	Students Participated/Benefitted
1.	International General Awareness Quiz to Celebrate World Environment day on 5th June, 2020 organized by Department of Zoology In association Alumni Association of NEERI (AAN), Nagpur (05.06.2020)	Co-ordinator: Dr. S.R Verma	1223
2.	Anand Niketan College. In collaborative project between NCCS, IISER-Pune and Persistent Systems, funded by Department of Biotechnology, GOI and co-funded by Persistent Systems Ltd. On Topic: How to read Scientific Literature ? One of the initiatives run by Project Manav for college students is a - Webinar on "How to read Scientific literature" (26/06/2020)	Co-ordinator: Dr. S.R Verma	65 students attend (B.Sc and M.Sc)
3.	<i>International webinar on "Challenges of Young adults" (03.01.2021)</i>	<i>Resource person : Ms. Snehal Khandkar Ragalwar</i>	498
4.	UPSC and MPSC competitive Exams preparation strategies (14/09/2020)	Mr. Ram Wagh Co-Ordinator: Mr. H.B Parchake	252
5.	Strategies for Police Recruitment (05/02/2021)	Mr. Yogesh Pikal Mude Co-Ordinator: Mr. H.B Parchake	190
6.	How to develop right mind set and skill to crack anyCompetative exams (9.02.201)	Mr. Swapnil Tulaskar Co-Ordinator: Mr. H.B Parchake Mr. T.A. Dhoble	498
7.	Awarness Sparrow Day celebrated by installation of Water Pots for Birds in College	Dr. R.R Kamdi	Students, Faculties and Non-teaching staff

	campus And Hands on training for Bird House preparation (20th mar, 2021)		
8.	National Level One Day Webiner "Molecular Modelling in Biological Sciences" on 18.02.2021	Guest speaker: Dr. Bajrang Kumbhar (IIT-Bombay) Dr. S. R. Verma Mr. H. B. Parchake Mr. T. A. Dhoble	95 (UG and PG)
9.	UPSC AND MPSC GUIDANCE	Guest Speaker : Pradnyasheel Jumle (IRS) Joint Commissioner of GST,Goa Mr. Rahul Khandare Director, UPSC Academia, Pune	274 (UG and PG)
10.	<i>One day Workshop on "Computing Skills: MS-Excel and Powerpoint Presentation" (Students, teachers and Non-Teaching) on Organized by Department of Physics and Zoology in association with IQAC 29/06/2021</i>	Department of Chemistry (GVISH), Amravati Resource Person: Dr. SubodhBhandarkar and Dr. Poonam Prasad CSIR- NEERI, Nagpur	456
11.	<i>International Webinar on Career in Basketball</i>	Mr. H. B. Parchake Mr. T. A. Dhoble	90
12.	<i>National Webinar on Nanotechnology</i>	Dr. Shruti K. Patle Dr. Sangita Itankar Dr. R. R. Kamdi Mr. H. B. Parchake Mr. T. A. Dhoble	60
13.	<i>Value Added Course 'Campus to Corporate: Get Future</i>	Mr. H.B. Parchake Mr. T. A. Dhoble	121

Academic
2020 -21

	<i>Ready'</i>		
14.	Bridge Course	Dr. S.R Verma	UG Sem I, III V students

Session

E-Content (UG-Zoology)

Semester	Paper	Unit	Topic	Contributor	Links	
I	I	I	Phylum : Protozoa and Porifera	Dr S.R Verma		
		II	Phylum: Cnidaria	Dr S.R Verma		
		III	Phylum: Platyhelminthes and Nematelminthes			
		IV	Phylum: Annelida			
	II	I				
		II				
		III				
		IV				
Practical						
II	I	I	Phylum - Arthropoda	Dr S.R Verma	https://drive.google.com/file/d/1MuW7f4JJWYSNdgalb79axKGbQiHB_Sro/view?usp=sharing	
		II	Phylum - Mollusca	Dr S.R Verma	https://drive.google.com/file/d/1Oalj9TOgVedXtt7japUWew7vbAU-_b6h/view?usp=sharing	
		III	Phylum - Echinodermata			
		IV	Phylum - Hemichordata			
	II	I				
		II				
		III				
		IV				
Practical						
III	I	I	Ceplalochorrate Urochordate Osteichythes		https://drive.google.com/file/d/1gFovZ1Remyjxycecv52H9KGJ302nN5-a/view?usp=sharing https://drive.google.com/file/d/17TJNTd_sqFEI7Vu3_EMfTe5solVfc7BG/view?usp=sharing https://drive.google.com/file/d/1ouFn8hZyvSkt6JmCuKSU4MZQu2w2rJx6/view?usp=sharing	

		II			
		III			
		IV			
	II	I			
		II			
		III			
	IV				
	Practical				
IV	I	I	Early development	Dr S.R Verma	https://drive.google.com/file/d/1nkOXQ4PkuNRs1MdgH74HYoFB44UgcQTi/view?usp=sharing
		II	Frog and Chick embryology	Dr S.R Verma	https://drive.google.com/file/d/11V1FidWFkFUhNxVw24pmfF6zgC3sw153/view?usp=sharing
		III			
		IV			
	II	I			
		II			
		III			
		IV			
	Practical				
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		III			
		IV			
Practical					
VI		I	I		
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	III				

	II	IV			
		I			
		II			
		III			
		IV			
		Practical – VI			

List of Equipment

Sr. No.	Particulars	Quantity
1	Photography Enlarger	01
2	Rocking Microtome	01
3	Microscopes (Student)	75
4	Dissecting Microscope	12
5	Medical Microscopes	05
6	Research Binocular Microscopes	01
7	Dome Microscopes	03
8	Research Trinocular Microscopes	01
9	OHP	01
10	Field Binocular	01
11	Digital Glucometer	01
12	Refrigerator	01
13	Desktop Computer	02
14	Printer	02
15	Oven	01

16	Physical Balance	01
17	Digital Camera with Macro lance	01
18	Zoom Lense	01
19	SLR Camera	01
20	Aquarium	01
21	Bee Box with Bee Hive	01
22	Sphygmomanometer	01
23	LCD Projector	01
24	Laptop	01
25	GPS Garmin	01
26	Stereo Dissecting Microscope	01
27	pH meter	01
28	Centrifuge (table top)	01
29	Micro centrifuge	01
30	Ambient Fine Air sampler	01
31	Conductivity Meter	01
32	B.O.D Incubator	01

TEACHING STAFF



Dr. Arvind Sawane
Prof. and Head of the Department



Dr. R.R. Kamdi
Professor



Dr. S.R. Verma
Assistant Professor



Mr. Tilak A. Dhoble
Assistant Professor



Mr. Hemant B. Parchake
Assistant Professor

Non Teaching Staff

Lab. Assistant

Mr. Bhushan Suryavanshi

Lab. Attendant

Mr. D. V. Amalpurivar

Mr. Pramod Nagapure

Mr. Krishna Wasake

ZOOLOGY DEPARTMENT





HOD's Cabine



LABORATORY

DEPARTMENT MUSEUM



3D Model



SPECIMEN



ALL REQUIRED
CHEMICALS



GLASS WARES FOR PRACTICAL



DEPARTMENTAL LIBRARY

THEORY CLASSROOM



M.Sc.
Zoology

P.G. CLASS ROOM

