

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY



CIRCULAR NO.SU/Sci./M.Sc.Zoology/73/2022

It is hereby inform to all concerned that, the syllabus prepared by the Board of Studies in Zoology and recommended by the Dean, Faculty of Science & Technology the Hon'ble Vice-Chancellor has accepted the **Revised Syllabus of M.Sc. Zoology 1st semester for affiliated Colleges and University Department** in his emergency powers under section 12(7) of the Maharashtra Public Universities Act, 2016 on behalf of the Academic Council as appended herewith.

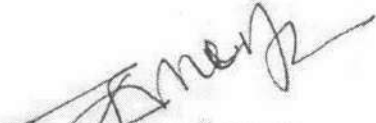
This shall be effective from the Academic Year 2021-22 and onwards.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO. SU/Sci/2022/6438
Date:- 07.01.2022.

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**Deputy Registrar,
Academic Section.**

Copy forwarded with compliments to :-

- 1] **The Principal of all concerned affiliated Colleges,**
Dr. Babasaheb Ambedkar Marathwada University,
- 2] **Head of the Department, Department of Zoology,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 3] **The Director, University Network & Information Centre, UNIC,**
with a request to upload this Circular on University Website.

Copy to :-

- 1] The Director, Board of Examinations & Evaluation, Dr. BAMU, A'bad.
- 2] The Section Officer, [M.Sc. Unit] Examination Branch, Dr. BAMU, A'bad.
- 3] The Programmer [Computer Unit-1] Examinations, Dr. BAMU, A'bad.
- 4] The Programmer [Computer Unit-2] Examinations, Dr. BAMU, A'bad.
- 5] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. BAMU, A'bad.
- 6] The Public Relation Officer, Dr. BAMU, A'bad.
- 7] The Record Keeper, Dr. BAMU, A'bad.

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad - 431 004

Choice Based Credit System [CBCS]



Curriculum of PG ZOOLOGY
For University Department and colleges.

M. S. Joshi
28/12/21
chairman,
BOS in zoology.


[Signature]
31/12/21
Dean
Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad Department of Zoology

M. Sc. First Year (Semester - I)

Course	Theory course					
	Paper code	Paper nomenclature	Credit	Work Load hrs		Max/Min Marks
				Per week	Per term	
Core Course	ZOO-101	Biosystematics and Animal Diversity	4	4	60	100/40
	ZOO-102	Biochemistry	4	4	60	100/40
	ZOO-103	Ecology : Principles and practices	4	4	60	100/40
Research component	ZOO-104	Research Methodology	2	2	30	50/20
Elective Courses (ANY ONE)	ZOO-105	Helminthology - I	4	4	60	100/40
	ZOO-106	Protozoology - I	4	4	60	100/40
	ZOO-107	Entomology - I	4	4	60	100/40
	ZOO-108	Endocrinology - I	4	4	60	100/40
Compulsory course		Constitution of India	2	2	30	50/20
		Total Credit	20	20	300	500/200
Practical course						
Paper code	Practical	Credit	Work Load hrs		Max./Min Mark	
			Per week	per Term		
ZOO -109	Practical based on ZOO-101	2	4	60	50/20	
ZOO-110	Practical based on ZOO-102	2	4	60	50/20	
ZOO-111	Practical based on ZOO-103	2	4	60	50/20	
ZOO-112	Practical based on ZOO- 105	2	4	60	50/20	
ZOO-113	Practical based on ZOO-106	2	4	60	50/20	
ZOO-114	Practical based on ZOO-107	2	4	60	50/20	
ZOO-115	Practical based on ZOO-108	2	4	60	50/20	
	Total Credit	8	16	240	200	

Maha
28/12/21
Chairman,
BOS in zoology


29/12/21

Dean
Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Department of Zoology
M. Sc. Ist Year Semester – II

Course	Theory course					
	Paper code	Paper nomenclature	Credit	Work Load hrs		Max/Min Marks
				Per week	Per term	
Core Course	ZOO-201	Genetics and Bioinformatics	4	4	60	100/40
	ZOO-202	Cell and Molecular Biology	4	4	60	100/40
	ZOO-203	Biophysics	4	4	60	100/40
Research Component	ZOO-204	Scientific Writing	2	2	30	50/20
Elective Courses (Any ONE)	ZOO-205	Helminthology – II	4	4	60	100/40
	ZOO-206	Protozoology – II	4	4	60	100/40
	ZOO-207	Entomology – II	4	4	60	100/40
	ZOO-208	Endocrinology - II	4	4	60	100/40
		Total Credit	18	18	270	450/180
Practical course						
Paper code	Practical	Credits	Work Load hrs		Max./Min Mark	
			Per week	Per Term		
ZOO-209	Practical based on ZOO-201	2	4	60	50/20	
ZOO-210	Practical based on ZOO-202	2	4	60	50/20	
ZOO-211	Practical based on ZOO-203	2	4	60	50/20	
ZOO-212	Practical based on ZOO-205	2	4	60	50/20	
ZOO-213	Practical based on ZOO-206	2	4	60	50/20	
ZOO-214	Practical based on ZOO-207	2	4	60	50/20	
ZOO-215	Practical based on ZOO-208	2	4	60	50/20	
Total Credit		8	16	240	200/80	

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28/11/21

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY



CIRCULAR NO.SU/Sci./M.Sc.Zoology/07/2022

It is hereby inform to all concerned that, the syllabus prepared by the Board of Studies in Zoology and recommended by the Dean, Faculty of Science & Technology the Hon'ble Vice-Chancellor has accepted the **Syllabus of M.Sc. Zoology Second Year (IIIrd & IVth semester) for affiliated Colleges and University Department** in his emergency powers under section 12(7) of the Maharashtra Public Universities Act, 2016 on behalf of the Academic Council as appended herewith.

This shall be effective from the Academic Year 2022-23 and onwards.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
REF.NO. SU/Sci/2022/5311-5317
Date:- 02.08.2022.

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[Signature]
**Deputy Registrar,
Academic Section.**

Copy forwarded with compliments to :-

- 1] **The Principal of all concerned affiliated Colleges,**
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- 2] **Head of the Department, Department of Zoology,**
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
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**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**



**Syllabus for
M.Sc. Zoology -Second Year (Semester –III and IV)**

w.e.f Academic Year 2022-23


**For University Department and Affiliated Post Graduate Colleges of
University**


Mali
27/7/2022


[Signature]
20/7/22
Dean
Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

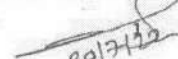
Dr. Babasheb Ambedkar Marathwada University, Aurangabad
Department of Zoology
M.Sc. Second Year (Semester -III)

Course	Code	Course Title	Hours/week	Total Hours/sem	Credit	Max/Min
Core	ZOO-301	Developmental Biology	4	60	4	100/40
	ZOO-302	Immunobiology	4	60	4	100/40
	ZOO-303	Applied Biotechnology I	4	60	4	100/40
Research component	ZOO-304	(a) Biostatistics	2	30	2	50/20
Compulsory subject		(b) Microbiology and Human welfare	2	30	2	50/20
Service course	ZOO-S305	Sericulture	2	30	2	50/20
	ZOO-S306	Apiculture	2	30	2	50/20
	ZOO-S307	Wild life and nature Interpretation	2	30	2	50/20
	ZOO-S308	Pisciculture	2	30	2	50/20
	ZOO-S309	Personality Development	2	30	2	50/20
Elective (any One)	ZOO-310	Applied Parasitology I	4	60	4	100/40
	ZOO-311	Animal Physiology I	4	60	4	100/40
	ZOO-312	Molecular Biology I	4	60	4	100/40
	ZOO-313	Fishery science I	4	60	4	100/40
		TOTAL CREDIT	22	330	22	550/220
		Practical course				
Paper Code	Practical		Credits	Work Load in hours		
				Per week	Per term	Max/Min
ZOO-314	Practical based on ZOO-301		2	4	60	50/20
ZOO-315	Practical based on ZOO-302		2	4	60	50/20


 Dean
 Dept. of Science & Technology
 Babasheb Ambedkar Marathwada University, Aurangabad
 Dr. J. D. Shaikh
 Chairman, BOS of Zoology


 Dr. B. S. Kharve
 HOD
 HOD Dept. of Zoology


 Dr. Deshpande A

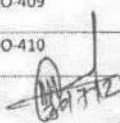

 20/7/22
 Mr. Jadhav T. J.

ZOO-316	Practical based on ZOO-304(a&3b) and ZOO-303	2	4	60	50/20
ZOO-317	Practical based on ZOO-310	2	4	60	50/20
ZOO-318	Practical based on ZOO-311	2	4	60	50/20
ZOO-319	Practical based on ZOO-312	2	4	60	50/20
ZOO-320	Practical Based on ZOO-313	2	4	60	50/20
		8	16	240	
Total Credit		30	20	300	250/80

Total Credit for Semester III = 30

M.Sc. Zoology -Second Year (Semester –IV)

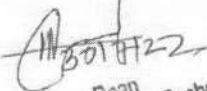
Course	Code	Course Title	Hours/week	Total Hours/sem	Credit	Max/Min
Core	ZOO-401	Evolution and Behavior	4	60	4	100/40
	ZOO-402	General and Comparative Physiology	4	60	4	100/40
	ZOO-403	Animal Biotechnology II	4	60	4	100/40
Research component	ZOO-404	(a) Animal Tissue Culture	2	30	2	50/20
Compulsory subject		(b) Virology and Epidemiology	2	30	2	50/20
Elective (any One)	ZOO-405	Applied Parasitology II	4	60	4	100/40
	ZOO-406	Animal Physiology II	4	60	4	100/40
	ZOO-407	Molecular Biology II	4	60	4	100/40
	ZOO-408	Fishery science II	4	60	4	100/40
		TOTAL CREDIT	20	300	20	500/200
		Practical Course				
Paper Code	Practical		Credits	Work Load in hours		
				Per week	Per term	Max/Min
ZOO-409		Practical based on ZOO-401	2	4	60	50/20
ZOO-410		Practical based on ZOO-402	2	4	60	50/20



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 Dr. Babasaheb Ambedkar Marathwada
 University, Aurangabad

ZOO-411	Practical based on ZOO-404 (a) and (b) and ZOO403	2	4	60	50/20
ZOO-412	Practical based on ZOO-405	2	4	60	50/20
ZOO-413	Practical based on ZOO-406	2	4	60	50/20
ZOO-414	Practical based on ZOO-407	2	4	60	50/20
ZOO-415	Practical based on ZOO-408	2	4	60	50/20
ZOO-416*	Research Project ZOO-409	4	4	60	100/40
Total Credit		12	20	300	300/120
Total Credit for Semester II = 32					

Research Project ZOO-416: The research project will commence from Semester III and the Final Dissertation should be submitted in the Semester IV Examination. The students have to defend their dissertation by means of open defense and viva -voce. The presentation should be with minimum 6-8slides


Dean
Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

REVISION OF A COURSE IN ZOOLOGY
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad