



MAHATMA GANDHI UNIVERSITY, KERALA

Abstract

Bachelor of Science (Honours) Zoology and Industrial Microbiology (Double Major) - Third Semester -Recommendations for modifications to the Course Outcomes, Course Content and End Semester Evaluation pattern - Academic Council Resolution - Orders issued

ACA 16

No. 7450/ACA 16/2025/MGU

Priyadarsini Hills,Dated: 11.08.2025

*Read:-*1. U.O. No. 5797/AC A16/2024/MGU, dated. 27.06.2024

2. Item No: 37/29756/AC A16 -1/2025, of the minutes of the meeting of the Academic Council held on 04.07.2025.

ORDER

The syllabi of various Under Graduate Programmes coming under the MGU-UGP (Honours) Regulations, 2024, have been approved vide paper read as (1) above and published on the website of the university.

The Expert Committee on Zoology (UG), at its meeting discussed the need to modify the **Course Outcomes, Course Content** and **End Semester Evaluation pattern** of various courses in the **Third Semester** syllabus of **Bachelor of Science (Honours) Zoology and Industrial Microbiology (Double Major)** programme and has submitted recommendations. (Recommendations are attached as Annexure)

These recommendations were placed before the Academic Council for consideration as per the orders of the Vice Chancellor on 07.04.2025.

The Academic Council meeting, vide paper read as (2) above, has resolved to approve the recommendations of the Expert Committee on Zoology (UG).

Hence, the **Course Outcomes, Course Content** and **End Semester Evaluation pattern** of the said courses in the **Third Semester** syllabus of **Bachelor of Science (Honours) Zoology and Industrial Microbiology (Double Major)** programme stands modified to this extent.

Orders are issued accordingly.

SUDHA MENON J

ASSISTANT REGISTRAR III
(ACADEMIC)

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10. ACTION TAKEN REPORT
11. Stock File/ File Copy

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Forwarded / By Order

Section Officer

ANNEXURE

SEMESTER III

Course Code : MG3DSCZIM200

**Course Name: Protistan Diversity and Animal Diversity-
Nonchordata – 1**

Course Outcomes

CO. No. (Modified)		Expected Course Outcome (Modified)	Learning Domains (Modified)	PO. No.	Page No.
Practicals		Identification of specimens (Genus and Species only) Mounting of Earthworm setae	U,S	No Change	48
Existing	Modified				
1	5				
2		Removed			

Course Content

(Content for Classroom Transaction (Units))

Module	Unit	Course description	Hours	CO. No. (Modified)	Page No.
3	3.2	No Change	No Change	1,4	50
	3.3			1,2	
4		Practicals			
		1. No Change		5	
		2. No Change			
		3. No Change			
		4. No Change			
		5. No Change			
		6. No Change			
	Activity	5			

Mode of Assessment

Assessment Type	B. End Semester Evaluation (Modified)			Page No.
	Theory			51
	Total Marks - 50		Duration - 1.5 hrs.	
	Type of Questions	No. of Questions to be Answered	Marks	
	Short Essays	4 out of 6	4 x 5= 20	
	Short Answer Questions	6 out of 8	6x 3 = 18	
	Multiple Choice Questions	12 out of 12	12x1 = 12	
	Practical			
	Total Marks - 35		Duration - 2 hrs.	
	Record - 10 Marks, Examination - 25 Marks: Spotter identifications: 1. Identification & classification – 8 Marks (4 specimens) (common name - 0.5 marks, Scientific name- 1.5 marks) 2. Identification of economically important parasitic protist – 5 Marks 3. Identification, sketch and labeling of section (any one) – 3 Marks 4. Identify and write notes on larval stage - 4 Marks 5. Mounting of setae - 5 Marks			

Course Code : MG3DSEZIM200

Course Name : Animal Diversity - Non Chordata II

Course Outcomes

CO. No. (Modified)	Expected Course Outcome (Modified)	Learning Domains (Modified)	PO. No.	Page No.
1	Explain salient features and classification of Phylum Onychophora, Arthropoda, and Minor Phyla	U	No Change	53
2	Discuss the type study of Prawn, and significance of Phylum Arthropoda	U		
3	Describe salient features and classification of Mollusca, Echinodermata and Hemichordata	U		
4	General identification, Scientific drawing, Mounting and Dissection	U,S		
5	Removed			

Course Content

Content for Classroom Transaction (Units)

Module	Unit	Course Description	Hours	CO. No. (Modified)	Page No.
1	1.1	No Change	No Change	1	54
	1.2			1	
3	3.1			3	55
	3.2				
	3.3				
	3.4				

4		Practicals			55
	2	No Change	No Change	4	
	3				
	4				
	5				
	6				
	7				56
	Teacher Specific Module				

Mode of Assessment

Assessment Type	B. End Semester Evaluation (Modified)			Page No.
	Theory			56
	Total Marks - 50		Duration - 1.5 hrs.	
	Type of Questions	No. of Questions to be Answered	Marks	
	Short Essays	4 out of 6	4x 5 =20	
	Short Answer Questions	6 out of 8	6 x 3 = 18	
	Multiple Choice Questions	12 out of 12	12 x 1= 12	
	Practical			
	Total Marks - 35		Duration - 2 hrs.	
	Record - 10 Marks, Examination - 25 Marks: Dissection- 10 marks, Mounting- 4 Marks Scientific Drawing- 5 marks Spotter Identification/ Taxonomic identification- 6 marks			

Course Code : MG3DSEZIM201
Course Name : Bioanalytical Techniques in Microbiology & Immunology

Mode of Assessment

Assessment Type	End Semester Evaluation (Modified)			Page No.
	Theory			60
	Total Marks -70		Duration - 2 hrs.	
	Type of Questions	No. of Questions to be Answered	Total Marks	
	Short Essay	6 out of 8	6 x5= 30	
	Short Questions	10 out of 12	10 x 3= 30	
	Fill in the Blanks	10 out of 10	10 x 1 = 10	

Course Code : MG3DSCZIM201
Course Name : Bacterial Physiology and Metabolism

Course Outcomes

CO. No.	Expected Course Outcome	Learning Domains	PO. No. (Modified)	Page No.
6	No Change		1	62

Course Code : MG3MDCZIM200

Course Name : Human Diseases & Their Management

Course Outcomes

CO. No.	Expected Course Outcome	Learning Domains (Modified)	PO. No.	Page No.
3	No Change	A	No Change	66

Course Content

(Content for Classroom Transaction (Units))

Module	Unit	Course Description	Hours	CO. No. (Modified)	Page No.
2	2.1	No Change	No Change	3	67
3	3.1			3	
	3.2			4	
4		Teacher Specific Module			

Mode of Assessment

Assessment Type	End Semester Evaluation (Modified)			Page No.
	Theory			68
	Total Marks - 50		Duration - 1.5 hrs.	
	Type of Questions	No. of Questions to be Answered	Total Marks	
	Short Essay	4 out of 6,	4 x5 =20	
	Short Questions	6 out of 8,	6 x 3 =18	
	Multiple Choice Questions	12 out of 12	12 x1 =12	

Course Code : MG3VACZIM200

Course Name : Bakery, Confectionary and Convenience Food Technology

Course Outcomes

CO. No.	Expected Course Outcome	Learning Domains	PO. No.	Page No.
6	Removed			69

