



## MAHATMA GANDHI UNIVERSITY, KERALA

### Abstract

Bachelor of Science (Honours) Biological Techniques and Specimen Preparation - Fourth Semester  
- Modifications to the Course Outcomes, Course Content and Mode of Assessment - Approved -  
Orders Issued.

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### ACA 16

No. 340/ACA 16/2026/MGU

Priyadarsini Hills, Dated: 12.01.2026

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

2. Minutes of the meeting of the Expert Committee on Zoology (UG)

3. Orders of the Vice Chancellor under Section 10 (17), Chapter III of the Mahatma Gandhi University Act 1985, dated 09.01.2026.

### ORDER

The syllabi of various Honours 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), deliberated on modifying the **Course Outcomes, Course Content and Mode of Assessment of DSC,DSE, SEC and VAC** type courses in the **Fourth Semester syllabus of Bachelor of Science (Honours) Biological Techniques and Specimen Preparation** programme and has submitted recommendations, vide paper read as (2) above. **(Recommendations are attached as Annexure).**

Considering the urgency of the matter, sanction has been accorded by the Vice Chancellor, in exercise of the powers of the Academic Council vested upon him under Section 10(17), Chapter III of the Mahatma Gandhi University Act 1985, vide paper read as (3) above, to approve the aforementioned recommendations.

Hence, the **Course Outcomes, Course Content and Mode of Assessment of the said courses** in the **Fourth Semester syllabus of Bachelor of Science (Honours) Biological Techniques and Specimen Preparation** programme stands modified to this extent.

Orders are issued accordingly.

SUDHA MENON J

ASSISTANT REGISTRAR III  
(ACADEMIC)  
For REGISTRAR

Copy To

1. PS to VC
2. PA to Registrar/CE
3. Convenor, Expert Committee, Zoology (UG)
4. JR 2 (Admin)/DR 2, AR 3 (Academic)
5. Tabulation/Academic Sections concerned
6. JR/DR/AR (Exam)
7. AC C1/AC C2 Sections
8. IT Cell 3/OQPM1Sections
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File No. 86896/AC A16-1/2025/AC A16

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Section Officer

**ANNEXURE**  
**SEMESTER IV**

**Course Name : Genetic Engineering and Plant Tissue Culture**

**Course Code : MG4DSCBTS200**

**Course Content**

**Content for Classroom transaction (Units)**

Module	Unit	Course Description	Hours	CO.No (Modified)	Page No.
1	1.2	No Change	No Change	2	59,60
2	2.1			1	
	2.2			1	
	2.3			2	
	2.5			4	
3	3.1			5	
	3.2			7	
	3.3			8	
4	4.1			6	

**Course Name : Enzymology**  
**Course Code : MG4DSEBTS200**

**Mode of Assessment**

<b>Assessment Type</b>	<b>B. End Semester Examination (Modified)</b>			<b>Page No.</b>
	<b>Theory</b>			<b>69</b>
	<b>Total Marks = 70</b>		<b>Duration- 2 hrs</b>	
	Type of Questions	No. of Questions to be Answered	Total Marks	
	Multiple Choice Questions	10 out of 10	10 x 1 = 10	
	Short Questions	10 out of 12	10 x 3 = 30	
	Short Essay	6 out of 8	6 x 5 = 30	

**Course Name : Research Methodology and Biostatistics**  
**Course Code : MG4DSEBTS201**

**Mode of Assessment**

<b>Assessment Type</b>	<b>B. End Semester Examination (Modified)</b>			<b>Page No.</b>
	<b>Theory</b>			<b>73</b>
	<b>Total Marks = 70,</b>		<b>Duration- 2 hrs</b>	
	Type of Questions	No. of Questions to be Answered	Total Marks	
	Multiple Choice Questions	10 out of 10	10 x 1 = 10	
	Short Questions	10 out of 12	10 x 3 = 30	
	Short Essay	6 out of 8	6 x 5 = 30	

**Course Code : MG4DSCBTS202**

**Course Name : Human Rights and Gender Equality**

**Course Code : MG4VACBTS200**

<b>Programme Name</b>	<b>BSc (Hons) Biological Techniques and Specimen Preparation</b>	<b>Page No. 80</b>
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### **Course Content**

#### **Content for Classroom Transaction (Units)**

<b>Module</b>	<b>Units (Modified)</b>	<b>Course Description</b>	<b>Hours</b>	<b>CO.No</b>	<b>Page No.</b>
1	1.1	No Change	No Change	No Change	81
	1.2				
	1.3				
	1.4				

**Course Name : Basic Molecular Techniques**

**Course Code : MG4SECBTS200**

<b>Programme Name</b>	<b>BSc (Hons) Biological Techniques and Specimen Preparation</b>	<b>Page No. 83</b>
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### **Course Outcomes (CO)**

<b>CO.No</b>	<b>Expected Course Outcome</b>	<b>Learning Domains</b>	<b>PO.No (Modified)</b>	<b>Page No.</b>
3	No Change	No Change	1,2,3	83
4			1,2,3	

### **Course Content**

#### **Content for Classroom Transaction (Units)**

<b>Module</b>	<b>Units</b>	<b>Course Description</b>	<b>Hours (Modified)</b>	<b>CO.No</b>	<b>Page No.</b>
3	No Change	No Change	10	No Change	83, 84