



MAHATMA GANDHI UNIVERSITY, KERALA

Abstract

Bachelor of Science (Honours) Botany and Biotechnology (Double Major) - 2nd Semester- Modifications to the Course Outcomes, Course Outcome Number Mapping in the Course Content, Mode of Assessment and Rectification of typographical error in the Unit Number - Approved - Orders issued

ACA 16

No. 3998/ACA 16/2025/MGU

Priyadarsini Hills, Dated: 29.04.2025

Read:- 1. U.O. No. 5797/ACA 16/2024/MGU Dated 27.06.2024.

2. Orders of the Vice Chancellor under Section 10(17), Chapter III of the Mahatma Gandhi University Act 1985, dated. 26.04.2025.

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 Biotechnology (UG), deliberated on modifying the Course Outcomes, Course Outcome Number mapping in the Course Content and Mode of Assessment and rectifying the typographical error in the Unit Number of the course **MG2DSCBBT101**: Applied Biotechnology, and modifying the Course Outcome Number mapping in the Course Content and Mode of Assessment of **MG2MDCBBT101**: Tools and Techniques in Biotechnology, in the Second Semester syllabus of **Bachelor of Science (Honours) Botany and Biotechnology (Double Major)** programme and has submitted recommendations.

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 (2) above, to approve the said recommendations.

(Recommendations are attached as Annexure)

Hence, the Course Outcomes, Course Content and Mode of Assessment of the said courses in the Second Semester syllabus of **Bachelor of Science (Honours) Botany and Biotechnology (Double Major)** programme stands modified to this extent.

Orders are issued accordingly.

MANOJ G

ASSISTANT REGISTRAR III
(ACADEMIC)
For REGISTRAR

Copy To

1. PS TO VC
2. PA to Registrar/CE
3. JR 2 (ADMIN)/DR 2, AR 3 (ACADEMIC)
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8. IT Cell 3/OQPM1 Sections
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Section Officer

Annexure

Semester II

Course Name: Applied Biotechnology

Course Code: MG2DSCBBT101

COURSE OUTCOMES (CO)

CO No.	Expected Course Outcome (Modified)	Learning Domains (Modified)	PO No. (Modified)	Page No.
1	No Change			46
2	Ability to differentiate between the diverse domains of biotechnology and identify its industrial and environmental applications.	No Change	No Change	
3	Able to comprehend the opportunities in various biotechnological institutes and companies.	U	1,2,5,6	
4	Evaluate the recent advancements and products in biotechnology and its impacts on society.	A	1,2,6,8,10	
5	Able to handle laboratory wares and chemicals, prepare solutions and reagents and verify the quality of reagents.	S	1,2,3,5	
6	Deleted			

COURSE CONTENT

Content for Classroom Transaction (Units)

Module	Units	Course Description (Modified)	Hrs.	CO No (Modified)	Page No.
2	2.1			1	47,48
	2.2			No Change	
	2.3			No Change	
	2.4			4	
	2.5			4	

3	3.1	No Change	No Change	3	
	3.2			3	
	3.3			4	
	3.4			4	
	3.5 (Modified)			3	
4	4.1			5	
	4.2			5	
	4.3			5	
	4.4	Colorimetry/ Spectrophotometry-Demo		5	

MODE OF ASSESSMENT

A. Continuous Comprehensive Assessment (CCA)

Theory(Modified)	Page No.
20+5 (for Teacher Specific Content) = 25 marks.	49

B. End-Semester Evaluation (ESE)

1.Theory (Modified)			Page No.
Max.Marks- 50		Duration- 1.5 Hrs	49
Descriptive Type	Number of questions to be answered	Marks	
One word answer	10 out of 12	10 x 2 = 20	
Short Essay	5 out of 7	5 x 4 = 20	
Essay	1 out of 2	1 x 10 = 10	

2. Practical (Modified)	Page No.
Max.Marks -35 Duration- 3 Hrs	49

Course Name: Tools and Techniques in Biotechnology
Course Code: MG2MDCBBT101

COURSE CONTENT

Content for Classroom Transaction (Units)

Module	Units	Course Description	Hrs.	CO No (Modified)	Page no.
1	1.3	No change	No change	4	62
	1.4			1	
2	2.4			2	
3	3.1			4	

MODE OF ASSESSMENT

A. Continuous Comprehensive Assessment (CCA)

Theory(Modified)	Page No.
12+3 (teacher specific content)= 15 Marks	63

B. End-Semester Evaluation (ESE)

1.Theory(Modified)			Page No.
Max.Marks- 35		Duration- 1Hr	63
Descriptive Type	Number of questions to be answered	Marks	
One Word Answer	10 out of 12	10 x 1 = 10	
Short Essay	3 out of 5	3 x 5 = 15	
Essay	1 out of 2	1 x 10 = 10	

2. Practical (Modified)	Page No.
Max.Marks-35 Duration- 2 Hrs	63