MAHATMA GANDHI UNIVERSITY, KERALA

Abstract

Industrial Chemistry (Minor) - Third Semester - Recommendations for modifications to the Course Outcomes, Course Content, Duration and pattern for End Semester Evaluation - Practical - Academic Council Resolution - Orders issued

ACA 16

No. 7508/ACA 16/2025/MGU Priyadarsini Hills,Dated: 12.08.2025

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

2. Item No: 61/43048/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 Chemistry (UG), at its meeting discussed the need to modify the **Course Outcomes**, **Course Content, duration and pattern of End Semester Evaluation - Practical** of DSC type course in the **Third Semester** syllabus of **Industrial Chemistry (Minor)** 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 15.05.2025.

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

Hence, the **Course Outcomes, Course Content, duration and pattern of End Semester Evaluation - Practical** of the said course in the **Third Semester** syllabus of **Industrial Chemistry (Minor)** stands modified to this extent.

Orders are issued accordingly.

SUDHA MENON J

ASSISTANT REGISTRAR III
(ACADEMIC)

For REGISTRAR

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1. PS to VC
2. PA to Registrar/CE
3. JR 2 (Admin)/DR 2, AR 3 (Academic)
4. JR/DR/AR (Exam)
5. Convenor, Expert Committee, Chemistry (UG)
6. Tabulation, Academic Sections Concerned
7. AC C1/ AC C2 Sections
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10. ACTION TAKEN REPORT
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File No: 43048/AC A16-1/2025/ACA 16

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Section Officer

ANNEXURE

SEMESTER III

Course Name : Functional Operations in Chemical Industry
Course Code : MG3DSCICH200

COURSE OUTCOMES (CO)

CO No.	Expected Course Outcome (Modified)	Learning Domains (Modified)	PO No. (Modified)	Page No.
1	Understand the principles of heat and mass transfer, fluid flow, evaporation and distillation in industrial operations.	U	1,2	14
2	Analyse the principles, stages, and techniques of crystallisation, and operate crystallisation equipment in industrial settings.	An	1,2,3	
3	Understand the principles of mixing and extraction techniques in chemical industries.	U	1,2	
4	Conduct chemical experiments including distillation, heat solution and crystallization with accurate yield recording in chemical industry settings.	S	1,2,10	

COURSE CONTENT
Content for Classroom Transaction (Units)

Module	Units	Course Description	Hours	CO No. (Modified)	Page No.
1	**Unit Operations in Industries**				15
	1.1	No Change	No Change	1	
	1.2			1	
	1.3			1	
	1.4			1	

2	**Crystallisation**				15
	2.1	No Change	No Change	2	
	2.2			2	
	2.3			2	
3	**Mixing and Extraction**				
	3.1	No Change	No Change	3	
	3.2			3	
	3.3			3	
4	**Functional operations in Chemical industry Practical**				16
	4	No Change	No Change	4	

Mode of Assessment

B. End Semester Evaluation (Modified)	**Page No.**
Practicals **Total Marks: 35** **Duration : 3 Hrs.**	
Lab report: 5 Marks Viva : 10 Marks Analysis and Procedure : 20 Marks	17