



Study Plan 2023-24
Bachelor of Science in Chemical Engineering (BSCE)
DEPARTMENT OF CHEMICAL ENGINEERING



1st Year / 1st Sem							1st Year / 2nd Sem								
Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite
CHEM	101	General Chemistry I	3	3	4			PHY	102	General Physics II	3	3	4	MA 102	PHY 101
PHY	101	General Physics I	3	3	4	MA 101		MA	102	Calculus II	4	0	4		MA 101
MA	101	Calculus I	4	0	4			ESP	102	Introduction to Report Writing	3	0	3		ESP 101
ESP	101	Introduction to Academic Discourse	3	0	3			ARB	102	Objective Writing	2	0	2		ARB 101
ARB	101	Practical Grammar	2	0	2			ISL	101	Belief and Its Consequences	2	0	2		
HPE	101	Health and Physical Education	1	0	1			CSE	101	Introduction to Programming	1	3	2		
			16	6	18						15	6	17		
2nd Year / 1st Sem							2nd Year / 2nd Sem								
Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite
MA	201	Calculus III	3	0	3		MA 102	MA	203	Elements of Differential Equations	3	0	3		MA 102
MA	202	Probability and Statistics for Engineers	3	0	3		MA 102	CSE	201	Introduction to Data Science	3	0	3		CSE 101, MA 202
ESP	201	Academic and Professional Communication	3	0	3		ESP 102	CE	202	Materials Science	3	0	3		CHEM 211
ISL	201	Professional Ethics	2	0	2		ISL 101	CE	203	Introduction to Chemical Engineering Computing	1	0	1		CSE 101, CE 201
CHEM	211	General Chemistry II	3	0	3		CHEM 101	CE	204	Introduction to Chemical Engineering Computing Lab	0	3	1	CE 203	
CHEM	212	General Chemistry II Lab	0	3	1	CHEM 211		CE	205	Fluid Mechanics	3	0	3	MA 203	
CE	201	Principles of Chemical Engineering	3	0	3	CHEM 211	PHY 102	CE	206	Organic Chemistry	3	0	3		CHEM 211
								CE	207	Organic Chemistry Lab	0	3	1	CE 206	
			17	3	18						16	6	18		
3rd Year / 1st Sem							3rd Year / 2nd Sem								
Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite
MA	301	Numerical Methods for Engineers	3	0	3		CSE 101, MA 201	MS	301	Business and Entrepreneurship	2	0	2		ESP 201
CSE	301	Introduction to Artificial Intelligence	3	0	3		CSE 201	ISL	301	Human Right in Islam	2	0	2		ISL 201
ARB	201	Literary Styles	2	0	2		ARB 102	CE	304	Separation Processes	3	0	3		CE 301
CE	301	Chemical Engineering Thermodynamics	3	0	3		MA 202, CE 203	CE	305	Kinetics and Reactor Design	3	0	3	CE 307	MA 301
CE	302	Heat Transfer	3	0	3		CE 201, CE 205	CE	306	Chemical Engineering Lab I	0	6	2		ESP 201, CE 302, CE 303
CE	303	Mass Transfer	3	0	3		CE 205	CE	307	Physical Chemistry	3	0	3		CE 301
								CE	308	Physical Chemistry Lab	0	3	1	CE 307	
								CE	300	Design Project I	1	3	2		ESP 201, CE 301, CE 302, CE 303
			17	0	17						14	12	18		
4th Year / 1st Sem							4th Year / 2nd Sem								
Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite
CE	401	Process Dynamics and Control	3	0	3		MA 301, CE 304	CE	490	Internship	0	0	6		122 Credits Completion
CE	402	Plant Design and Economics	3	0	3		CE 305, CE 306								
CE	403	Chemical Engineering Lab II	0	6	2	CE 401	CE 305, CE 306								
CE	4XX	Chemical Engineering Elective I	3	0	3		CE 300								
CE	4XX	Chemical Engineering Elective II	3	0	3		CE 300								
CE	400	Design Project II	1	3	2		MS 301, CE 305, CE 300								
			13	9	16						0	0	6		
Electives							Electives								
Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co-requisite	Pre-requisite
CE	404	Polymer Technology	3	0	3		CE 300								
CE	405	Desalination	3	0	3		CE 300								
CE	406	Corrosion	3	0	3		CE 300								
CE	407	Process pollution control	3	0	3		CE 300								

	Head of Department	Head of Curriculum Dept.	DMD Education & Training Affairs	Managing Director (MD)	College Council
Name	Dr. Ahmed A. Al-Ghamdi	Dr. Mohammed Ahmed Mousa	Dr. Mansour Abdullah Al-Johani	Dr. Raed Abdulatif Alhomali	
Signature					
Date	21.06.2023	21/6/2023	21-6-2023	21/6/2023	

