

BACHELOR OF ENGINEERING (HONOURS) CHEMICAL ENGINEERING (Updated 13 April 2021)

Course Code	Course Description	2019			2020			2021			Pre-requisite(s)	Remarks:
		Jan	May	Oct	Jan	May	Oct	Jan	May	Oct		
UEME1343	Material Science and Engineering		√			√			√		-	For May 2018 intake and onwards, started from May 2018
UEME1122	Material Science		√			√			√		-	For Jan 2018 intake and before, last offer in May 2018
UEME1323	Statics		√			√			√		-	For May 2018 intake and onwards, started from May 2018
UEME1132	Statics		√			√			√		-	For Jan 2018 intake and before, last offer in May 2018
UEME1253	Engineering Drawing & CAD		√			√			√		-	For May 2018 intake and onwards, started from May 2018
UEME1252	Engineering Drawing & CAD		√			√			√		-	For Jan 2018 intake and before, last offer in May 2018
UEME1112	Engineering Thermodynamics		√			√			√		-	For Jan 2018 intake and before
UECM1653	Mathematics for Engineering I	√	√		√	√		√	√		-	
UECM1713	Mathematics for Engineering II	√	√		√	√		√	√		UECM1653	
UEMK1103	Introduction to Process Design and Electrical System	√	√		√	√		√	√		-	
UEMK1522	Mass Transfer	√	√		√	√		√	√		-	For Oct 2017 intake and onwards, started from Jan 2019
UEMK1013	Chemistry for Engineering		√			√			√		-	
UEMK1203	Material and Energy Balances	√	√		√	√		√	√		-	
UECS1643	Fundamentals of Programming	√	√		√	√		√	√		-	
UECM2623	Numerical Methods and Statistics	√	√		√	√		√	√		UECM1653	
UEME2123	Fluid Mechanics I	√	√		√	√		√	√		-	
UEMK2113	Chemical Engineering Thermodynamics	√	√		√	√		√	√		-	
UEMK2551	Process Engineering Laboratory I		√	√		√	√		√	√	UEMK1522	For Oct 2017 intake and onwards, started from May 2019
UEMK2032	Instrumental Analysis		√			√			√		-	For Oct 2017 intake and onwards, started from May 2019
UEMK2023	Instrumental Analysis	√	√		√	√		√	√		-	For May 2017 intake and before, last offer in Jan 2019 (conditional)
UEMK2323	Separation Processes		√			√			√		UEMK1522	For Oct 2017 intake and onwards, started from May 2019
UEMK3213	Unit Operation		√			√			√		UEMK1203	For May 2017 intake and before
UEMK3143	Chemical Reaction Engineering I		√			√			√		UEMK1203	
UEME3112	Fluid Mechanics II		√			√			√		UEME2123	For May 2017 intake and before
UEMT3113	Operations Research and Optimization	√	√		√	√		√	√		UECM2623	For May 2017 intake and onwards, started from Jan 2019
UEMM3243	Engineering Analysis		√			√			√		UECM2623	For Jan 2017 intake and before, equivalent to UEMT3113
UEMK3543	Heat Transfer Processes		√			√			√		-	For Oct 2017 intake and onwards, starts from May 2020
UEME3213	Heat and Mass Transfer	√	√		√	√		√	√		UEME2123	For May 2017 intake and before
UEMK3551	Process Engineering Laboratory II		√			√			√		UEMK2032; UEMK3143; UEMK2323	For Oct 2017 intake and onwards, starts from May 2020
UEMK2411	Chemical Engineering Laboratory I	√	√		√	√		√	√		UEMK3213	For May 2017 intake and before, last offer in Jan 2020. Will be replaced by UEMK3551. Please check with FGO for course registration after Jan 2020.
UEMK3313	Chemical Process Control and Instrumentation	√	√		√	√		√	√		UEMK3143	
UEMX3613	Environmental Science and Engineering	√	√		√	√		√	√		-	
UEMK3153	Chemical Reaction Engineering II		√			√			√		UEMK3143	
UEMK3223	Particle Technology		√			√			√		-	
UEMK3233	Bioprocess Engineering	√	√		√	√		√	√		-	
UEMK3113	Process Safety and Management		√			√			√		-	
UEGE3116	Industrial Training		√			√			√		Earned 60 credit hours	For May 2018 intake and onwards, starts from Oct 2020
UEGE3114	Industrial Training		√			√			√		Earned 60 credit hours	For Jan 2018 intake and before
UEMK4551	Process Engineering Laboratory III		√			√			√		UEMK3543; UEMK3313	For Oct 2017 intake and onwards, starts from Jan 2021
UEMK3431	Chemical Engineering Laboratory II		√			√			√		UEMK3313	For May 2017 intake and before, last offer in May 2020. Will be replaced by UEMK4551. Please check with FGO for course registration after May 2020.
UEMK4333	Process Optimization and Simulation	√	√		√	√		√	√		UEMK3143; UEMK2323	
UEME4253	Project Management		√			√			√		-	For Oct 2017 intake and onwards, starts from May 2020
UEMK4114	Plant Design I		√			√			√		Earned 90 credit hours	For May 2018 intake and onwards
UEMK4324	Process and Plant Design I	√	√		√	√		√	√		Earned 90 credit hours	For Jan 2018 intake and before
UEMK4124	Plant Design II		√			√			√		UEMK4324	For May 2018 intake and onwards
UEMK4354	Process and Plant Design II	√	√		√	√		√	√		UEMK4114	For Jan 2018 intake and before
UEGE4118	Project		√			√			√		Earned 90 credit hours	For May 2018 intake and onwards
UEGE4116	Project	√	√		√	√		√	√		Earned 90 credit hours	For Jan 2018 intake and before

