

**Bachelor of Engineering (Chemical Engineering)
Recommended Semester Schedule for A-level Students (AY2024/2025 Intake)**

Semester 1	Unit	Semester 2	Unit
CN1101A Chemical Engineering Principles and Practice I	4	CN2102 Chemical Engineering Principles and Practice II	4
CE2407A Engineering Uncertainty Analysis	2	CS1010E Programming Methodology	4
DTK1234 Design Thinking	4	EG1311 Design and Make	4
GEA1000 Quantitative Reasoning with Data	4	MA1511 Engineering Calculus	2
MA1513 Linear Algebra with Differential Equations	2	MA1512 Differential Equations for Engineering	2
PF1101 Fundamentals of Project Management	4	GE/UE	4
Sub-total	20	Sub-total	20
Semester 3		Semester 4	
CN2103 Mass & Energy Balances	4	CN2105 Reaction Engineering	4
CN2104 Chemical Engineering Thermodynamics	4	CN2106 Fluid Mechanics & Heat Transfer	4
CDE2501 Liveable Cities	4	ES2631 Critique and Communication of Thinking and Design	4
EE2211 Introduction to Machine Learning	4	IE2141 Systems Thinking and Dynamics	4
GE/UE	4	GE/UE	4
Sub-total	20	Sub-total	20
Semester 5[#]		Semester 6[#]	
CN3103 Mass Transfer and Separation Processes	4	EG3611A Industrial Attachment	10
CN3104 Computer-Aided Chemical Process Simulation	4	GE/UE	4
CDE2000 Creating Narratives	4	GE/UE	4
EG2401A Engineering Professionalism	2		
GE/UE	4		
GE/UE	4		
Sub-total	22	Sub-total	18
Semester 7		Semester 8	
CN4119 Final Year Design Project (Part 1) OR CN4118 B.Eng. Dissertation (Part 1)	4	CN4119 Final Year Design Project (Part 2) OR CN4118 B.Eng. Dissertation (Part 2)	4
CN4101 Process Control and Safety	4	CN4102 Chemical Engineering Lab	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
Sub-total	20	Sub-total	20

#Courses scheduled in Semesters 5 and 6 can be swapped, thus students can also choose to go on IA in Semester 5.