

M.Tech in Chemical Engineering

Semester I			
Course Code	Course Name	L-T-P	Credits
CM621	Advanced Reaction Engineering	3-0-0	3
CM631	Advanced Thermodynamics	3-0-0	3
ME610	Mathematical Methods	3-0-0	3
CMxxx	Elective – I	3-0-0	3
CMxxx	Energy Applications Lab	0-0-3	2
		12-0-3	14

Semester II			
Course Code	Course Name	L-T-P	Credits
CM607	Transport Phenomena	3-0-0	3
CMxxx	Elective – II	3-0-0	3
CMxxx	Elective – III	3-0-0	3
CMxxx	Elective – IV	3-0-0	3
HS600	Research communications, ethics and methods	3-0-0	3
		15-0-0	15

Semester III			
Course Code	Course Name	L-T-P	Credits
CM699	M. Tech Thesis	0-0-12	12
		0-0-12	12

Semester IV			
Code	Course Name	L-T-P	Credits
CM699	M. Tech Thesis	0-0-12	12
		0-0-12	12

List of Courses:

List of program core courses

1. CM607 - Transport Phenomena
2. CM621 - Advanced Reaction Engineering
3. CM631 - Advanced Thermodynamics
4. ME610 - Mathematical Methods

Institute core course

1. HS600 - Research communications, ethics and methods

List of elective courses

1. CM603 - Science and technology of colloids
2. CM604 - Nanomaterials characterization, properties, and applications
3. CM605 - Structures and Properties of Materials
4. CM608 - Advanced Transport Processes
5. CM610 - Principles and applications of electrochemistry
6. CM611 - Fundamentals of Green Ammonia: Technologies, Applications and Sustainability
7. CM612 - Fuel Cell Technology
8. CM613 - Battery Technology

List of Lab and M.Tech thesis courses:

1. CM660 - Energy Applications Lab
2. CM699 - M.Tech Thesis

For more information, visit: <https://iitgoa.ac.in/m-tech-cme/>