

**Meerut Institute of Engineering and Technology
Meerut**



EVALUATION SCHEME AND SYLLABI

For

**B.Tech – III & IV Sem
(*Chemical Engineering*)**

Effective from the Session: 2026-27

Affiliated With



Dr. A.P.J ABDUL KALAM TECHNICAL UNIVERSITY UTTAR PRADESH

Sec-11, Jankipuram Vistar, Lucknow - 226031, Uttar Pradesh, India

SEMESTER - III

S.NO.	Subject Code	Subject Name	Category	T/P	PERIODS			Evaluation Scheme						Total Marks	CREDIT
					L	T	P	Continuous Internal Assessment				End Semester			
								CT	TA	Total	PS	TE	PE		
1	MCH301	Chemical Engineering Fluid Mechanics	PCC	T	3	0	0	20	10	30		70		100	3
2	MCH302	Heat Transfer Operations	PCC	T	3	0	0	20	10	30		70		100	3
3	MCH303	Chemical Process Calculations	PCC	T	3	0	0	20	10	30		70		100	3
4	MAI301	Artificial Intelligence for Engineers	ESC	T	3	0	0	20	10	30		70		100	3
5	MAS302	Universal Human Value and Professional Ethics	HSMC	T	2	0	0	20	10	30		70		100	2
6	MAE301/ MAE302	Verbal Ability and Communication Skills/ Quantitative and Logical Reasoning *	AEC	T	2	0	0				50			50	2
7	MCH351	Chemical Engineering Fluid Mechanics Lab	PCC	P	0	0	2				50		50	100	1
8	MCH352	Heat Transfer Operations Lab	PCC	P	0	0	2				50		50	100	1
9	MCH354	Internship /Mini Project/Startup and Entrepreneurial Activity Assessment **	PR/INT	P	0	0	2				100			100	1
10	MSE356	MATLAB Programming I	SEC	P	0	0	2				50			50	1
11	MSE351	Artificial Intelligence Lab	SEC	P	0	0	2				50			50	1
12	MNC301	Environment Sciences ***	NC	T	2	0	0	20	10	30		70		100	0
		Total			18	0	10							950	21

*The subject will be evaluated by an external assessment agency

**The Mini Project or internship (4 weeks) will be done during summer break after 2nd Semester and will be assessed during III semester

*** Compulsory Qualifying Audit Course

Abbreviation Used:

PCC: Professional Core Courses

HSMC: Humanities & Social Sciences Course

ESC: Engineering Science Course

SEC: Skill Enhancement Course

AEC: Ability Enhancement

PR/INT: Project/Internship

TA: Teacher's Assessment

CT: Class Test

NC: Non-credit Course

SEMESTER - IV

S.N O.	Subject Code	Subject Name	Catego ry	T/P	PERIODS			Evaluation Scheme						Total Mar ks	CRED IT
					L	T	P	Continuous Internal Assessment				EndSeme ster			
								C T	T A	Tot al	PS	T E	PE		
1	MCH401	Chemical Reaction Engineering-I	PCC	T	3	0	0	20	10	30		70		100	3
2	MCH402	Mechanical Operations	PCC	T	3	0	0	20	10	30		70		100	3
3	MCH403	Chemical Engineering Thermodynamics	PCC	T	3	0	0	20	10	30		70		100	3
4	MAS403	Mathmatics-III	BSC	T	3	1	0	20	10	30		70		100	4
5	MCS404	Fundamentals of Cyber Security	ESC	T	2	0	0	20	10	30		70		100	2
6	MAE401 / MAE402	Verbal Ability and Communication Skills/ Quantitative and Logical Reasoning *	AEC	T	2	0	0				50			50	2
7	MCH451	Chemical Reaction Engineering Lab	PCC	P	0	0	2				50		50	100	1
8	MCH452	Mechanical Operations Lab	PCC	P	0	0	2				50		50	100	1
9	MCH454	Chemical Engineering Computing Lab	PCC	P	0	0	2				50		50	100	1
10	MSE452	MATLAB Programming II	SEC	P	0	0	2				50			50	1
11	MCS 454	Cyber Security Workshop	SEC	P	0	0	2				50			50	1
12	MNC402	Sports/ Yoga ***	NC	P	0	0	2				50			50	0
13		Minor Degree/Honors Degree MT-1/HT-1													
		Total			16	1	12							950	22

Abbreviation Used:

PCC: Professional Core Courses
BSC: Basic Science Course
ESC: Engineering Science Course
SEC: Skill Enhancement Course
AEC: Ability Enhancement
TA: Teacher's Assessment
CT: Class Test
NC: Non-credit Course