CHANDIGARH UNIVERSITY
Discover. Learn. Empower.

Program Schemes for M.E – Mechanical Engineering

Cluster: Engineering and Technology

Institute: UIE

Department: Mechanical Engineering

Type of Program: PG (ME301)

SEMESTER-1		
Course Name	**Course Category**	**Credits**
Research Methodology	PROGRAM CORE	3
Modelling and Simulations	PROGRAM CORE	4
Artificial Intelligence and Industry 4.0 for Manufacturing Systems	PROGRAM CORE	4
CAD/CAM	PROGRAM CORE	4
Advanced Machining	PROGRAM CORE	3
Computational Fluid Dynamics (CFD)	PROGRAM CORE	3
Project Part I	PROJECT	2

SEMESTER-2		
Course Name	**Course Category**	**Credits**
Material Science, Characterization and Testing	PROGRAM CORE	3
Numerical Analysis	PROGRAM CORE	4
Turbo Machinery	PROGRAM CORE	4
Program Elective I	PROGRAM ELECTIVE	3
Program Elective II	PROGRAM ELECTIVE	3
Program Elective III	PROGRAM ELECTIVE	3
Project Part II	PROJECT	2
Aptitude-I (For TPP)	Ability Enhancement	1
Soft Skills-I (For TPP)	Skill Enhancement	1
Quantitative Aptitude and Reasoning (For Non-TPP)	Ability Enhancement	1
Professional Skills Development (For Non-TPP)	Skill Enhancement	1

SEMESTER-3		
Course Name	**Course Category**	**Credits**
Dissertation Part I	Dissertation	10
Open Elective- I	Open Elective	3
Open Elective- II	Open Elective	3
Research Seminar	Ability Enhancement	2
Summer Internship	Internship	2
Aptitude-II (For TPP)	Ability Enhancement	1
Soft Skills-II (For TPP)	Skill Enhancement	1
RIE Track Course- 1 (For Non-TPP)*	Ability Enhancement	1
RIE Track Course- 2 (For Non-TPP)*	Skill Enhancement	1

SEMESTER-4		
Course Name	**Course Category**	**Credits**
Dissertation Part II	Dissertation	14

Program Electives			
Semester	**Course Name**	**Course Category**	**Credits**
2	Advanced Manufacturing Processes	Program Electives- I	3
2	Industrial Engineering and Modern Quality Practices	Program Electives- I	3
2	Manufacturing Planning and Control Systems	Program Electives- II	3
2	Advanced Heat Transfer and Multiphase Thermodynamics	Program Electives- II	3
2	Advanced Energy Conversion and Power Generation Systems	Program Electives- III	3
2	Thermal System Engineering	Program Electives- III	3

Note: Add more rows as applicable.