

DAV UNIVERSITY, JALANDHAR

DAV UNIVERSITY JALANDHAR



Course Scheme & Syllabus

**Master of Technology
(Part Time)**

In

Mechanical Engineering

Session 2016–2017 (Onwards)

DAV UNIVERSITY, JALANDHAR

M Tech (Mechanical Engineering)-Part Time

Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
1	MGT551	Research Methodology	4	0	0	4	Core
1	MEC503	Metal Cutting	4	0	0	4	Core
1	MEC513	Metal Cutting Lab	0	0	3	2	Core (Lab)
			8	0	3	10	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
2	MTH551A	Numerical Analysis	4	0	0	4	Core
2	MEC556	CAD/CAM	4	0	0	4	Core
2	MEC566	CAD/CAM Lab	0	0	4	2	Core (Lab)
			8	0	4	10	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
3	MEC502	Advance Design	4	0	0	4	Core
3	MEC505	Production Planning and Control	4	0	0	4	Core
3		Discipline Specific Elective -1	4	0	0	4	DSE-1
			12	0	0	12	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
4		Discipline Specific Elective -2	4	0	0	4	DSE-2
4		Discipline Specific Elective -3	4	0	0	4	DSE-3
4		Genric Elective -1	4	0	0	4	GE-2
4	MEC550	Seminar	0	0	3	2	Seminar
			12	0	3	14	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
5		Discipline Specific Elective -4	4	0	0	4	DSE-4
5		Genric Elective -2	4	0	0	4	GE-2
5	MEC600	Dissertation Part - 1	0	0	0	8	Dissertation Part - 1
			8	0	0	16	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
6	MEC700	Dissertation Part - 2	0	0	0	12	Dissertation Part - 2
			0	0	0	12	

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Discipline Specific Electives

DSE-1	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	MEC606	Industrial Tribology	4	0	0	4	Design
	MEC605	Metal Casting and Forming	4	0	0	4	Manufacturing
	MEC625	Hydro Dynamic Machine	4	0	0	4	Thermal
	MEC607	Quality Control and Reliability	4	0	0	4	Industrial

DSE-2	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	MEC626	Computational Fluid Dynamics	4	0	0	4	Design
	MEC555	Mechatronics	4	0	0	4	Manufacturing
	MEC621	Renewable Energy Sources	4	0	0	4	Thermal
	MEC609	Material Management	4	0	0	4	Industrial

DSE-3	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	MEC612	Finite Element Method	4	0	0	4	Design
	MEC608	Non-Destructive Testing	4	0	0	4	Manufacturing
	MEC623	IC Engine	4	0	0	4	Thermal
	MEC610	Supply Chain Management	4	0	0	4	Industrial

DSE-4	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	MEC554	Advance Materials	4	0	0	4	Design
	MEC601	Welding Technology	4	0	0	4	Manufacturing
	MEC624	Gas Turbines and Compressors	4	0	0	4	Thermal
	MEC611	Industrial and Organizational Psychology	4	0	0	4	Industrial

L: Lectures T: Tutorial P: Practical Cr: Credits

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Generic Electives

S. No	Course Code	Course Title	L	T	P	Cr.
1	ELE901	Renewable Energy Sources	4	0	0	4
2	ELE902	Energy Audit and Management	4	0	0	4
3	CHL901	Analytical Techniques	4	0	0	4
4	CHL902	Pollution Abatement and Control Equipment's	4	0	0	4
5	MEC901	Methods Engineering and Ergonomics	4	0	0	4
6	MEC902	Power Plant Engineering	4	0	0	4
7	CSE901	Soft Computing	4	0	0	4
8	CSE902	Mobile Communications	4	0	0	4
9	ECE901	Smart Sensors	4	0	0	4
10	ECE902	Silicon Chip Technology	4	0	0	4
11	CIV901	Transportation Engineering	4	0	0	4
12	CIV902	Water Resource Engineering	4	0	0	4
13	MGT051	Business Strategy	4	0	0	4
14	MGT052	Principles of Marketing	4	0	0	4