

DAV UNIVERSITY, JALANDHAR

DAV UNIVERSITY JALANDHAR



Course Scheme & Syllabus

**Master of Technology
(Part Time)**

In

Computer Science Engineering

Session 2016–2017 (Onwards)

DAV UNIVERSITY, JALANDHAR

M Tech (Computer Science 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	CSE501	Advance Computer Networks & Simulation	4	0	0	4	Core
1	CSE507	Advance Computer Networks & Simulation- 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	CSE503	Data Mining & Warehousing	4	0	0	4	Core
2	CSE509	Data Mining & Warehousing-Lab	0	0	4	2	Core (Lab)
			8	0	4	10	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
3	CSE505	Parallel Computing & Architecture	4	0	0	4	Core
3	CSE502A	Digital Image Processing	3	0	0	3	Core
3		Discipline Specific Elective -1	4	0	0	4	DSE-1
3	CSE540	Digital Image Processing Lab	0	0	2	1	Core (Lab)
			11	0	2	12	
Semester	Course Code	Course Title	L	T	P	Cr	Nature of Course
4		Discipline Specific Elective -2	3	0	0	3	DSE-2
4		Discipline Specific Elective -3	4	0	0	4	DSE-3
4		Generic Elective -1	4	0	0	4	GE-2
4		Discipline Specific Elective -2 Lab	0	0	2	1	DSE-2-Lab
4	CSE526	Seminar	0	0	3	2	Seminar
			11	0	5	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		Generic Elective -2	4	0	0	4	GE-2
5	CSE613	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	CSE600	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
	CSE508	Information Security and risk management	4	0	0	4	Network & Security
	CSE504	Software Metrics and Quality Engineering	4	0	0	4	Software Engg.
	CSE530	Pattern Recognition & Analysis	4	0	0	4	Computer Vision & Image processing
	CSE552	Distributed Databases	4	0	0	4	Distributed Computing
	CSE554	Artificial Intelligence	4	0	0	4	Algorithms and AI

DSE-2	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	CSE506	Wireless Data Networks	4	0	0	4	Network & Security
	CSE534	Agile Software Development Approaches	4	0	0	4	Software Engg.
	CSE532	Bioinformatics	4	0	0	4	Computer Vision & Image processing
	CSE518	Distributed Computing Systems	4	0	0	4	Distributed Computing
	CSE528	Advanced Data Structure & Algorithms	4	0	0	4	Algorithms and AI

DSE-2 Lab	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	CSE524	Wireless Data Networks Lab	0	0	2	1	Network & Security
	CSE542	Agile Software Development Lab	0	0	2	1	Software Engg.
	CSE538	Bioinformatics Lab	0	0	2	1	Computer Vision & Image processing
	CSE548	Distributed Computing Systems lab	0	0	2	1	Distributed Computing
	CSE536	Advanced Data Structure & Algorithms Lab	0	0	2	1	Algorithms and AI

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DSE-3	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	CSE520	Network Security	4	0	0	4	Network & Security
	CSE542	Unified Software Configuration Management	4	0	0	4	Software Engg.
	CSE544	Machine Learning	4	0	0	4	Computer Vision & Image processing
	CSE546	Cloud Computing	4	0	0	4	Distributed Computing
	CSE550	Natural language and Processing	4	0	0	4	Algorithms and AI

DSE-4	Course Code	Course Title	L	T	P	Cr.	Area of Specialization
	CSE621	Network Intrusion Detection	4	0	0	4	Network & Security
	CSE603	Software Project Management	4	0	0	4	Software Engg.
	CSE617	Medical Image Analysis & Visualization	4	0	0	4	Computer Vision & Image processing
	CSE619	Grid Computing	4	0	0	4	Distributed Computing
	CSE601	Evolutionary Methods	4	0	0	4	Algorithms and AI

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