

Scheme and Syllabus
For
M.Tech. Programme
In
Computer Science & Engineering
of
Regular Programme



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

Priyadarshini College of Engineering Nagpur

Priyadarshini Campus, Digdoh Hills, Hingna Road, Nagpur-440019

(An Autonomous Institution Approved by A.I.C.T.E., New Delhi & Govt. Of Maharashtra, Affiliated to R.T.M. Nagpur University, Nagpur)

Master of Technology (Computer Science & Engineering) Semester I

Sl. No	Subject Code	Subject	Teaching Scheme				Scheme of Examination (Marks)			Duration of Exam. (Hours)	Minimum Passing Marks	
			L	T	P	Total Credits	EE	CA	Total Marks			
1.	23PCS101T	Advanced Data Structures and Algorithms	3	1		4	60	40	100	3	50	
2.	23PCS102T	Object Oriented Software Engineering	3	1		4	60	40	100	3	50	
3.	23PCS103T	Advanced Computer Architecture	3	1		4	60	40	100	3	50	
4.	23PCS104T	Program Elective-I	3			3	60	40	100	3	50	
5.	23PCS105T	Program Elective-II	3			3	60	40	100	3	50	
6.	23PCS101P	Laboratory I [Advanced Data Structures and Algorithms]			2	1	25	25	50	2	25	
7.	23PCS102P	Laboratory II [Object Oriented Software Engineering]			2	1	25	25	50	2	25	
Total Marks								350	250	600		
Load of the semester							22	Total credits in the semester			20	

Program Electives: PEI:

1. [23PCS111T] Software Requirements & Estimation
2. [23PCS112T] Cryptographic Foundation
3. [23PCS113T] AI and Expert Systems

Program Electives: PEII:

1. [23PCS121T] Embedded System
2. [23PCS122T] Modelling and Simulation
3. [23PCS123T] Data Science and Visualization

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Master of Technology (Computer Science & Engineering)

Semester II

Sl. No	Subject Code	Subject	Teaching Scheme				Scheme of Examination (Marks)			Duration of Exam.	Minimum Passing Marks	
			L	T	P	Total Credits	EE	CA	Total Marks			
1.	23PCS201T	Advanced Database Systems	3			3	60	40	100	3	50	
2.	23PCS202T	Advances in Operating System	3			3	60	40	100	3	50	
3.	23PCS203T	High Performance Networks	3			3	60	40	100	3	50	
4.	23PCS204T	Program Elective-III	3			3	60	40	100	3	50	
5.	23PCS205T	Program Elective-IV	3			3	60	40	100	3	50	
6.	23PCS206T	Foundation Course I Research Methodology and IPR	2			2	60	40	100	3	50	
7.	23PCS201P	Laboratory III [Advanced Database Systems]			2	1	25	25	50	2	25	
8.	23PCS202P	Laboratory IV[Advances in Operating System]			2	1	25	25	50	2	25	
Total Marks								360	290	650		
Load of the semester							21	Total credits in the semester			19	

Program Electives: PEIII:

1. [23PCS231T] Natural Language Processing
2. [23PCS232T] Web Analytics and Intelligence
3. [23PCS233T] Cyber Crime Investigations and Cyber Forensics

Program Electives: PEIV:

1. [23PCS241T] Social Network Analysis
2. [23PCS242T] Computational Intelligence
3. [23PCS243T] Real Time Systems

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Semester III

Sl. No	Subject Code	Subject	Teaching Scheme				Scheme of Examination (Marks)			Duration of Exam. (Hours)	Minimum Passing Marks
			L	T	P	Total Credits	EE	CA	Total Marks		
1.	23PCS301T	Elective V [Open]	3			3	60	40	100	3	50
2.	23PCS302T	Foundation Course II Project planning and Management	2			2	60	40	100	3	50
3.	23PCS303P	Project and Seminar			16	8		200	200	-	100
Total Marks							120	280	400		
Load of the semester						21	Total credits in the semester			13	

Open Elective V [OPEN]:

[23PCS351T] Fundamentals of Cyber Security

[23PCS352T] Multimedia

[23PCS353T] ERP

Semester IV

Sl. No	Subject Code	Subject	Teaching Scheme				Scheme of Examination (Marks)			Duration of Exam. (Hours)	Minimum Passing Marks
			L	T	P	Total Credits	EE	CA	Total Marks		
1.	23PCS401P	Industrial Project			32	16	200	200	400	-	200
Total Marks							200	200	400		
Load of the semester						32	Total credits in the			16	

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