

Course Scheme
Examination Scheme
&
Syllabus
of
First, Second, Third & Fourth Semester
Choice Based Credit System (CBCS)
of
Master of Technology (M.Tech)
In
Mechanical Engineering Design (MED)
Priyadarshini College of Engineering

Scheme of Examination of M.Tech MED
Semester Pattern
I Semester M.Tech MED

Sr. No.	Course Code	Course	L	P	Credits	Maximum. Marks			ESE Duration (Hrs)
						Continues Assessment	End Sem Exam	Total	
1	23PME101T	Dynamics of Machinery	4	0	4	40	60	100	3
2	23PME101P	Laboratory -I Dynamics of Machinery	0	2	1	25	25	50	-
3	23PME102T	Mechanical Vibrations	4	0	4	40	60	100	3
4	23PME102P	Laboratory -II Mechanical Vibrations	0	2	1	25	25	50	-
5	23PME103T	Research Methodology and IPR	2	0	2	40	60	100	2
6	23PME11XT	Program Elective-I	3	0	3	40	60	100	3
7	23PME12XT	Program Elective-II	3	0	3	40	60	100	3
8	23PME13XA	Audit Course Pedagogy Studies	2	0	-	-	-	-	-
		Total	18	4	18	250	350	600	

Course Code	Program Elective I
23PME111T	Computer Aided Mechanical Design
23PME112T	Reliability, Maintainability & wear
23PME113T	Machine Tool Design

Course Code	Program Elective II
23PME121T	Robotics
23PME122T	Mechanization In Food Processing
23PME123T	Artificial Intelligence

Course Code	Audit Courses
23PME131A	English for Research Paper Writing
23PME132A	Disaster Management
23PME133A	Value Education

II Semester M.Tech MED

Sr. No.	Course Code	Course	L	P	Credits	Maximum. Marks			ESE Duration (Hrs)
						Continues Assessment	End Sem Exam	Total	
1	23PME201T	Advanced Mechanisms	4	0	4	40	60	100	3
2	23PME202T	Advanced Mechanical Drives	4	0	4	40	60	100	3
3	23PME203T	Stress Analysis	4	0	4	40	60	100	3
4	23PME203P	Laboratory -I Stress Analysis	0	2	1	25	25	50	
5	23PME204P	Laboratory -II Finite Element Analysis	0	2	1	25	25	50	
6	23PME21XT	Program Elective-III	3	0	3	40	60	100	3
7	23PME22XT	Program Elective-IV	3	0	3	40	60	100	3
8	23PME23XA	Audit Course	2	0	0	---	--	--	--
		Total	20	4	20	250	350	600	

Course Code	Program Elective III
23PME211T	Tribology and Bearing Design
23PME212T	Design of Hydraulic and Pneumatic Systems
23PME213T	Plastic Engineering

Course Code	Program Elective IV
23PME221T	Finite Element Analysis
23PME222T	Optimization In Engineering Design
23PME223T	Rapid Prototyping

Course Code	Audit Courses
23PME231A	Pedagogy Studies
23PME232A	Stress Management by Yoga
23PME233A	Personality Development through Life Enlightenment Skills

III Semester M.Tech MED

Sr. No.	Course Code	Course	L	P	Credits	Maximum. Marks			ESE Exam Duration
						Continues Assessment	End Sem Exam	Total	
1	23PME301P	Project- Phase-I	0	16	8	100	--	100	--
2	23PME31XT	Program Elective -V	3	0	3	40	60	100	3
3	23PME32XT	Open Elective	3	0	3	40	60	100	3
3									
		Total	6	16	14	180	120	300	

Course Code	Program Elective V
23PME311T	Design of Mechanical Handling System
23PME312T	Vibration based condition Monitoring
23PME313T	Modelling & Simulation

Course Code	Open Elective
23PME321T	Business Analytics
23PME322T	Industrial Safety
23PME323T	Operations Research

IV Semester M.Tech MED

Sr. No.	Course Code	Course	L	P	Credits	Maximum. Marks			ESE Duration
						Continues Assessment	End Sem Exam	Total	
1	23PME401P	Project- Phase-II	-	32	16	150	150	300	--
		Total		32	16	150	150	300	