



Lokmanya Tilak Jankalyan Shikshan Sanstha's

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)



SCHEME OF EXAMINATION w.e.f. 2023-24 onwards

I Semester M. Tech. Industrial Drives & Control (IDC) (CBCS)

Sr. No.	Course Code	Course Name	Contact Hours				Marks				Total Marks	ESE Duration
			L	T	P	Credits	Theory		Practical			
							CE	ESE	CE	ESE		
1	23PID101T	Advanced Power Electronics	3	0	0	3	40	60	-	-	100	3
2	23PID102T	DC Drives	3	0	0	3	40	60	-	-	100	3
3	23PID103T	Research Methodology and IPR	4	0	0	4	40	60	-	-	100	3
4	23PID11XT	Program Elective-I	3	0	0	3	40	60	-	-	100	3
5	23PID12XT	Program Elective –II	3	0	0	3	40	60	-	-	100	3
6	23PID13XA	Audit Course	2	0	0	-	-	-	-	-	-	-
7	23PID101P	Advanced Power Electronics Lab.	0	0	2	1	-	-	25	25	50	-
8	23PID102P	DC Drives Lab.	0	0	2	1	-	-	25	25	50	-
Total			18	0	4	18	200	300	50	50	600	-

Course Code	Program Elective - I
23PID111T	Analysis of Electrical Machines
23PID112T	Mathematical Modelling of Electrical Machines
23PID113T	Energy Management in Electrical System

Course Code	Program Elective - II
23PID121T	Advance Control Theory
23PID122T	Intelligent Control of Drives
23PID123T	Optimization Techniques

Course Code	Audit Courses
23PID131A	English for Research Paper Writing
23PID132A	Disaster Management
23PID133A	Value Education



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II Semester M. Tech. Industrial Drives & Control (IDC) (CBCS)

Sr. No.	Course Code	Course Name	Contact Hours				Marks				Total Marks	ESE Duration
			L	T	P	Credits	Theory		Practical			
							CE	ESE	CE	ESE		
1	23PID201T	Drives System Design	3	0	0	3	40	60	-	-	100	3
2	23PID202T	AC Drives	3	0	0	3	40	60	-	-	100	3
3	23PID203T	Electrical Transportation	3	0	0	3	40	60	-	-	100	3
4	23PID21XT	Program Elective –III	3	0	0	3	40	60	-	-	100	3
5	23PID22XT	Program Elective-IV	3	0	0	3	40	60	-	-	100	3
6	23PID23XA	Audit Course	2	0	0	-	-	-	-	-	-	-
7	23PID202P	AC Drives Lab.	0	0	2	1	-	-	25	25	50	-
8	23PID204P	Computer Aided Design Lab.	0	0	2	1	-	-	25	25	50	-
Total			17	0	4	17	200	300	50	50	600	-

Course Code	Program Elective III
23PID211T	Design of Synchronous and Asynchronous Machines
23PID212T	Switch Mode Power Converter and Applications
23PID213T	Converter for Renewable Energy Sources

Course Code	Program Elective IV
23PID221T	Advance Electrical Drives
23PID222T	Digital Control System
23PID223T	Industrial Automation

Course Code	Audit Courses
23PID231A	Pedagogy Studies
23PID232A	Stress Management by Yoga
23PID233A	Personality Development through Life Enlightenment Skills



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III Semester M. Tech. Industrial Drives & Control (IDC) (CBCS)

Sr. No.	Course Code	Course Name	Contact Hours				Marks				Total Marks	ESE Duration
			L	T	P	Credits	Theory		Practical			
							CE	ESE	CE	ESE		
1	23PID31XT	Program Elective-V	3	0	0	3	40	60		-	100	3
2	23PID33XT	Open Elective	3	0	0	3	40	60	-	-	100	3
3	23PID32XP	Program Elective Lab	0	0	2	1	-	-	25	25	50	-
4	23PID301P	Project-Phase-I	0	0	18	9	-	-	100	-	100	-
Total			6	0	20	16	80	120	125	25	350	-

Course Code	Program Elective V
23PID311T	Controllers for Electrical Drives
23PID312T	Special Electric Machines & Drives
23PID313T	Excitation of Synchronous Machines and their control

Course Code	Program Elective Lab
23PID321P	Controllers for Electrical Drives
23PID322P	Special Electric Machines & Drives

Course Code	Open Elective
23PID331A	Business Analytics
23PID332A	Industrial Safety
23PID333A	Operations Research
23PID334A	Cost Management of Engineering projects
23PID335A	Composite Materials
23PID336A	Waste to Energy.



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IV Semester M. Tech. Industrial Drives & Control (IDC) (CBCS)

Sr. No.	Course Code	Course Name	Contact Hours				Marks				Total Marks	ESE Duration
							Theory		Practical			
			L	T	P	Credits	CE	ESE	CE	ESE		
1	23PID401P	Project-Phase-II	0	0	34	17	0	0	200	200	400	-
Total			0	0	34	17	0	0	200	200	400	-