



Integral University, Lucknow
Department of Electrical Engg.
Study and Evaluation Scheme (w.e.f. 2025-26)

Program: M. Tech. in Electrical Engineering
Specialization in (Power System & Drives / Artificial Intelligence & Control System/ Renewable Energy & Electric Vehicle)
Semester I

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme							Sub. Total	Credit	Total Credits	Attributes							
				L	T	P	CT		TA		Total	TE	PE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
							Th	P	Th	P														
1	EE402	Introduction to Soft Computing	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√	√					
2	EE407	Fundamentals of AI in Electrical Engineering	PCC	3	0	0	50	-	25	-	75	75	-	150	3:0:0	3	√	√	√					
3	EE461	Introduction to Research Methodology	PCC	3	1	0	50	-	25	-	75	75	-	150	3:1:0	4	√	√	√					
4		DE- I	PEC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4								
5		DE-II	PEC	3	1	0	50	-	25	-	100	75	-	150	3:1:0	4								
6	EE501	Advance Electrical Engg. Lab	PCC	0	0	3	-	15		10	25		25	50	0:0:3	2	√	√	√					
Total				15	1	8	360		165		475	375	100	900		21								

Elective- I					
Power System & Drive		Artificial Intelligence & Control		Renewable Energy & Electric Vehicles	
Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
EE401	Introduction to Robotics	EE401	Introduction to Robotics	EE401	Introduction to Robotics
EE404	Power Electronics Based Converter Design	EE403	Industrial Automation	EE405	Renewable Energy System & Grid Integration
	MOOC		MOOC		MOOC

Elective- II					
Power System & Drive		Artificial Intelligence & Control		Renewable Energy & Electric Vehicles	
Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
EE519	Advance Relaying & Protection	EE519	Advance Relaying & Protection	EE441	Solar Photovoltaic Technology
EE517	Power System Dynamics & Control	EE531	Sensor Networks and Data Acquisition	EE443	Introductions to Electric Vehicle
EE523	Advance Electric Drive	EE532	Control Techniques in Power Electronics	EE533	Distributed & Dispersed Generation
EE535	Smart Energy Management System	EE535	Smart Energy Management System	EE532	Control Techniques in Power Electronics
	MOOC		MOOC		MOOC



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Semester II

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme							Sub. Total	Credit	Total Credits	Attributes							
				L	T	P	CT		TA		Total	TE	PE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
							Th	P	Th	P														
1	EE408	Introduction to IoT in Electrical System	PCC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√	√					
2	EE462	Optimization Techniques	PCC	3	1	0	50		25		75	75		150	3:1:0	4	√	√	√					
PS&D	EE463	Advance Power System Analysis	PCC	3	1	0	50		25		75	75		150	3:1:0	4	√	√	√					
AI&C	EE465	Advance Control System															√	√	√					
RE&EV	EE464	Advance Power Electronics															√	√	√					
4		DE- III	PEC	3	0	2	50	15	25	10	100	75	25	200	3:0:2	4	√	√	√					
5		DE- IV	PEC	3	1	0	50		25		75	75		150	3:1:0	4	√	√	√	√	√		√	
6	EE503	Research Seminar & Technical Report Writing	IPC	0	0	2				50	50			50	0:0:2	1	√	√	√	√	√		√	
Total				15	3	6	280		195		475	375	50	900		21								

Elective- III					
Power System & Drive			Artificial Intelligence & Control		
Course Code	Course Name		Course Code	Course Name	
EE409	Modern Power System		EE410	Process Instrumentation	
	MOOC			MOOC	
Course Code	Course Name		Course Code	Course Name	
EE411	Wind and Small Hydro Energy Systems			MOOC	

Elective- IV					
Power System & Drive			Artificial Intelligence & Control		
Course Code	Course Name		Course Code	Course Name	
EE412	Restructured Power System		EE504	Intelligent Control	
EE415	FACT Devices & HVDC Transmission		EE505	Digital Control & State Variable Concept	
	MOOC			MOOC	
Course Code	Course Name		Course Code	Course Name	
EE442	Energy Storage Technologies			MOOC	