

Minor Degree in Electrical Engineering

Table-1

On-Line SWAYAM/MOOCs courses (August December 2025 session) for Minor Degree, Subject to changes made by host Institute/SWAYAM portal			Name of professional core and professional elective course/code (chosen from the minor degree scheme of Electrical Engineering)
1	Course	Advances in UHV Transmission and Distribution	High voltage engineering (BTEE-604A-18)
	Course for	Minor Degree	
	Semester	7	
	Prerequisites	Basic Electrical Engg	
	Type	Elective	
	Duration	8 weeks	
	Enrollment ends	As per SWAYAM portal/link	
	Start date	21 July 2025	
	End date	12 Sep 2025	
	Exam date	21 Sep 2025	
	Level	UG	
	Link	https://onlinecourses.nptel.ac.in/T62/ "/preview	
2	Course	Applied Electromagnetics for Engineers	Electromagnetic fields (BTEE-304-18)
	Course for	Minor Degree	
	Semester	3	
	Prerequisites	Electricity and magnetism at the level of high school, vector analysis, differential and integral calculus, programming using Matlab (preferable)	
	Type	Core	
	Duration	12 weeks	
	Enrollment ends	As per SWAYAM portal/link	
	Start date	21 July 2025	
	End date	10 Oct 2025	
	Exam date	1 Nov 2025	

	Level	UG	
	Link	<a ,t69,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T69,"/preview	
3	Course	Control and Tuning Methods in Switched Mode Power Converters	Line-commutated and active PWM rectifiers (BTEE-604C-18)
	Course for	Minor Degree	
	Semester	7	
	Prerequisites	Fundamentals in power electronics; Operating analysis of DC-DC, AC-DC and DC-AC power converters	
	Type	Elective	
	Duration	12 weeks	
	Enrollment ends	As per SWAYAM portal/link	
	Start date	21 July 2025	
	End date	10 Oct 2025	
	Exam date	2 Nov 2025	
	Level	UG	
	Link	<a ,t83,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T83,"/preview	
4	Course	Electrical Equipment and Machines: Finite Element Analysis	Electrical machine-I (BTEE-303-18)
	Course for	Minor Degree	
	Semester	5	
	Prerequisites	Classification and fundamentals of electrical equipments and machines.	
	Type	Elective	
	Duration	8 weeks	
	Enrollment ends	As per SWAYAM portal/link	
	Start date	21 July 2025	
	End date	12 Sep 2025	
	Exam date	21 Sep 2025	
	Level	UG	
	Link	<a ,t68,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T68,"/preview	