

Minor Degree in Electrical and Electronics Engineering, & Electronics and 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
1	Course	Analog Communication	From the minor degree Scheme of Electronics & Electrical Engineering Analog and digital communication (BTELE-504C-18)
	Course for	Minor degree	
	Semester	5	
	Prerequisites	Familiarity with signals and systems	
	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 ,t53,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T53,"/preview	
2	Course	Digital Circuits	From the minor degree Scheme of Electrical & Electronics Engineering Analog electronics (BTEEE-302-18/BTEE-302-18)
	Course for	Minor degree	
	Semester	3	
	Prerequisites	Basic electronics	
	Type	Core	
	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 ,t47,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T47,"/preview	
3	Course	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	From the minor degree Scheme of Electrical & Electronics Engineering Computer architecture (BTEEE-504D-18)
	Course for	Minor degree	
	Semester	3	
	Prerequisites	Fundamentals of Laplace, and Fourier transform, basics of control systems	
	Type	Elective	
	Duration	12 weeks	
	Enrollment ends	As per SWAYAM portal/link	
	Start date	21 July 2025	
	End date	10 Oct 2025	
	Exam date	26 Oct 2025	
	Level	UG	
	Link	<a ,t35,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T35,"/preview	
4	Course	Optimization Theory and Algorithms	From the minor degree Scheme of Electrical & Electronics Engineering Optimization techniques (BTEEE-702D-18)
	Course for	Minor Degree	
	Semester	5	
	Prerequisites	Basic understanding of differential and integral calculus, programming using Matlab (preferable)	
	Type	Elective	
	Duration	12 Weeks	
	Enrollment ends	As per SWAYAM portal/link	
	Start date	21 July 2025	
	End date	10 Oct 2025	
	Exam date	26 Oct 2025	
	Level	UG	
	Link	<a ,t58,"="" href="https://onlinecourses.nptel.ac.in/" preview"="">https://onlinecourses.nptel.ac.in/",T58,"/preview	