



On-line SWAYAM /MOOCs courses (January-May 2021) for Minor Degree/Honors Degree (Subject to changes made by host Institute/Swayam portal)		
1	Course	Signals and Systems In this course, the explanation will be in Hindi, but the scientific terms, assignments and exams will be in English.
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Mathematics at 10+2 level
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
Link	https://onlinecourses.swayam2.ac.in/nou21_ee01/preview	
2	Course	Electricity & Safety Measures
	Course for	Minor Degree
	Semester	4th
	Prerequisites	As per website
	Type	Elective/Core
	Duration	12 weeks
	Enrollment ends	As per website
	Start date	31st January 2021
	End Date	As per website
	Exam Date	As per website
	Level	Undergraduate
Link	https://onlinecourses.swayam2.ac.in/nou21_ee01/preview	
3	Course	Electrical Machines
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Basic Electrical Engineering, Circuit theory
	Type	Elective
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
Link	https://onlinecourses.nptel.ac.in/noc21_ee24/preview	
4	Course	Electrical Machines-II
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Basic Electrical Technology: Circuit analysis, principle of working of transformer and its equivalent circuit representation.
	Type	Elective
Duration	12 weeks	



	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee13/preview
5	Course	Basic Electronics
	Course for	Minor Degree
	Semester	4 th
	Prerequisites	A basic course in electrical engineering (KCL, KVL, network theorems, AC analysis)
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee55/preview
6	Course	Control Engineering
	Course for	Minor Degree
	Semester	4 th
	Prerequisites	Network and Circuits, Basic Engineering Mathematics. we suggest the NPTEL course on Networks and Systems by Dr.V.G.K.Murti. Content in Lectures 1 -6 and 20-29 will be relevant for this course.
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee05/preview
7	Course	Digital Electronic Circuits
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Basic understanding of diode, transistor operation. If this is not covered in 10+2 Board of the students then the same may be studied from Basic Electronics or Analog Electronic Circuits course.
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee10/preview



8	Course	Fuzzy Sets, Logic and Systems & Applications
	Course for	Minor Degree
	Semester	4th/6th
	Prerequisites	Nil
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
Link	https://onlinecourses.nptel.ac.in/noc21_ee49/preview	
9	Course	Fundamentals of Power Electronics
	Course for	Minor Degree
	Semester	4th/6th
	Prerequisites	Electrical and electronic circuits, network theory and basics of semiconductor physics.
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
Link	https://onlinecourses.nptel.ac.in/noc21_ee01/preview	
10	Course	Digital IC Design
	Course for	Minor Degree
	Semester	6th
	Prerequisites	A course on digital logic design is a must for doing this course.
	Type	Elective
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
Link	https://onlinecourses.nptel.ac.in/noc21_ee22/preview	
11	Course	Transmission lines and electromagnetic waves
	Course for	Honors Degree
	Semester	6th/8th
	Prerequisites	Nil
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
End Date	9th April 2021	
Exam Date	25th April 2021	



	Level	Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee53/preview
12	Course	Applied Linear Algebra
	Course for	Honors Degree
	<i>Semester</i>	6th/8th
	Prerequisites	Basic Calculus, should have done a basic (or a first) course in Linear Algebra
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate/Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee38/preview