

Department of Information Technology						
NPTEL courses Mapped to Curriculum						

Second Year ( Odd Semester)						
Semster	Subject	Chapter (if applicable)	Course Name	Current Semster Course home Page link (Current Semster)	Week No ( if applicable)	Course Repo of past courses (https://nptel.ac.in/course.html)
III	Applied Mathematics III	Module1:Laplace Transforms	Laplace Transform, Introduction to Methods of Applied Mathematics	<a href="https://onlinecourses.nptel.ac.in/noc20_ma43/preview">https://onlinecourses.nptel.ac.in/noc20_ma43/preview</a>	1,2	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/105/111105123/">https://nptel.ac.in/courses/111/105/111105123/</a>
		Module2:Inverse Laplace Transforms			3,4	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/105/111105123/">https://nptel.ac.in/courses/111/105/111105123/</a>
		Module3:Fourier Series	Introduction to Methods of Applied Mathematics	<a href="https://onlinecourses.nptel.ac.in/noc20_ma49/preview">https://onlinecourses.nptel.ac.in/noc20_ma49/preview</a>	7,8	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/105/111105123/">https://nptel.ac.in/courses/111/105/111105123/</a>
		Module4:Complex Variables	Complex Analysis	<a href="https://onlinecourses.nptel.ac.in/noc20_ma50/preview">https://onlinecourses.nptel.ac.in/noc20_ma50/preview</a>	3,4	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/107/111107119/">https://nptel.ac.in/courses/111/107/111107119/</a>
		Module5:Matrix Theory	Linear Algebra	<a href="https://onlinecourses.nptel.ac.in/noc20_ma54/preview">https://onlinecourses.nptel.ac.in/noc20_ma54/preview</a>	10,11	<a href="https://nptel.ac.in/courses/111/106/111106051/">https://nptel.ac.in/courses/111/106/111106051/</a>
		Module 6:Vector Differentiation and Integral	Calculus of Several Real Variables	<a href="https://onlinecourses.nptel.ac.in/noc20_ma27/preview">https://onlinecourses.nptel.ac.in/noc20_ma27/preview</a>	2,6,7,8	<a href="https://nptel.ac.in/courses/111/104/111104125/">https://nptel.ac.in/courses/111/104/111104125/</a>
		electronic devices and circuits I	Analog Electronic Circuits	<a href="https://onlinecourses.nptel.ac.in/noc21_ee89/preview">https://onlinecourses.nptel.ac.in/noc21_ee89/preview</a>	1 to 4 week	<a href="https://nptel.ac.in/courses/108/102/108102112/">https://nptel.ac.in/courses/108/102/108102112/</a>
		Digital logic circuit	Digital Circuits	<a href="https://onlinecourses.nptel.ac.in/noc21_ee75/preview">https://onlinecourses.nptel.ac.in/noc21_ee75/preview</a>	1 to 8 week	<a href="https://nptel.ac.in/courses/108/105/108105113/">https://nptel.ac.in/courses/108/105/108105113/</a>
		electrical network analysis and synthesis	Basic Electrical Circuits	<a href="https://onlinecourses.nptel.ac.in/noc21_ee99/preview">https://onlinecourses.nptel.ac.in/noc21_ee99/preview</a>		<a href="https://nptel.ac.in/courses/117/106/117106108/">https://nptel.ac.in/courses/117/106/117106108/</a>
			Electrical Measurement and Electronic Instrumentation	<a href="https://onlinecourses.nptel.ac.in/noc21_ee107/preview">https://onlinecourses.nptel.ac.in/noc21_ee107/preview</a>		<a href="https://nptel.ac.in/courses/108/105/108105153/">https://nptel.ac.in/courses/108/105/108105153/</a>
	Skill base Lab OOPM lab c++and java	Programming in Java	<a href="https://onlinecourses.nptel.ac.in/noc21_cs56/preview">https://onlinecourses.nptel.ac.in/noc21_cs56/preview</a>		<a href="https://nptel.ac.in/courses/106/105/106105151/">https://nptel.ac.in/courses/106/105/106105151/</a>	

Second Year ( Odd Semester)						
Semster	Subject	Chapter (if applicable)	Course Name	Current Semster Course home Page link (Current Semster)	Week No ( if applicable)	Course Repo of past courses (https://nptel.ac.in/course.html)
IV	Applied Mathematics IV	Module1:Complex Integration	Laplace Transform, Introduction to Methods of Applied Mathematics	<a href="https://onlinecourses.nptel.ac.in/noc20_ma43/preview">https://onlinecourses.nptel.ac.in/noc20_ma43/preview</a>	1,2	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/105/111105123/">https://nptel.ac.in/courses/111/105/111105123/</a>
		Module2:statistical Techniques			3,4	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/105/111105123/">https://nptel.ac.in/courses/111/105/111105123/</a>
		Module3:Probability Distributions	Introduction to Methods of Applied Mathematics	<a href="https://onlinecourses.nptel.ac.in/noc20_ma49/preview">https://onlinecourses.nptel.ac.in/noc20_ma49/preview</a>	7,8	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/105/111105123/">https://nptel.ac.in/courses/111/105/111105123/</a>
		Module4:Linear Algebra: Vector Spaces	Complex Analysis	<a href="https://onlinecourses.nptel.ac.in/noc20_ma50/preview">https://onlinecourses.nptel.ac.in/noc20_ma50/preview</a>	3,4	<a href="https://nptel.ac.in/courses/111/105/111105134/">https://nptel.ac.in/courses/111/105/111105134/</a> , <a href="https://nptel.ac.in/courses/111/107/111107119/">https://nptel.ac.in/courses/111/107/111107119/</a>
		Module5:Linear Algebra: Quadratic Forms	Linear Algebra	<a href="https://onlinecourses.nptel.ac.in/noc20_ma54/preview">https://onlinecourses.nptel.ac.in/noc20_ma54/preview</a>	10,11	<a href="https://nptel.ac.in/courses/111/106/111106051/">https://nptel.ac.in/courses/111/106/111106051/</a>
		Module 6: Calculus of Variations:	Calculus of Several Real Variables	<a href="https://onlinecourses.nptel.ac.in/noc20_ma27/preview">https://onlinecourses.nptel.ac.in/noc20_ma27/preview</a>	2,6,7,8	<a href="https://nptel.ac.in/courses/111/104/111104125/">https://nptel.ac.in/courses/111/104/111104125/</a>
		Electronic devices and circuits II	Analog Electronic Circuits	<a href="https://onlinecourses.nptel.ac.in/noc21_ee89/preview">https://onlinecourses.nptel.ac.in/noc21_ee89/preview</a>	5 to 12 week	<a href="https://nptel.ac.in/courses/108/102/108102112/">https://nptel.ac.in/courses/108/102/108102112/</a>
		Microcontroller Applications				
		Principles of Communication Engg	Analog communication	<a href="https://onlinecourses.nptel.ac.in/noc21_ee74/preview">https://onlinecourses.nptel.ac.in/noc21_ee74/preview</a>		<a href="https://nptel.ac.in/courses/117/105/117105143/">https://nptel.ac.in/courses/117/105/117105143/</a>
		Signals and Systems				
	Skill base Lab Python Programming	The Joy of Computing using Python	<a href="https://onlinecourses.nptel.ac.in/noc21_cs75/preview">https://onlinecourses.nptel.ac.in/noc21_cs75/preview</a>		<a href="https://nptel.ac.in/courses/106/105/106105151/">https://nptel.ac.in/courses/106/105/106105151/</a>	

Third Year ( Odd Semester)						
Semster	Subject	Chapter (if applicable)	Course Name	Course home Page link	Week No ( if applicable)	Course home Page link (https://nptel.ac.in/course.html)
V	Principles of Control System		Control engineering	<a href="https://onlinecourses.nptel.ac.in/noc21_ee67/preview">https://onlinecourses.nptel.ac.in/noc21_ee67/preview</a>	12 week	<a href="https://nptel.ac.in/courses/108/106/108106098/">https://nptel.ac.in/courses/108/106/108106098/</a>
	Digital Signal Processing					
	Linear Integrated Circuits		Op-Amp Practical Applications: Design, Simulation and Implementation	<a href="https://onlinecourses.nptel.ac.in/noc21_ee61/preview">https://onlinecourses.nptel.ac.in/noc21_ee61/preview</a>	all 12 week	<a href="https://nptel.ac.in/courses/108/108/108108114/">https://nptel.ac.in/courses/108/108/108108114/</a>
	Digital Communication					
			<b>Developing Soft Skills and Personality</b>	<a href="https://swayam.gov.in/nd1_noc19_hs32/preview">https://swayam.gov.in/nd1_noc19_hs32/preview</a>	8 Weeks	
	Professional Communication & Ethics-II		Intellectual Property Rights	Intellectual Property Rights		<a href="https://onlinecourses.nptel.ac.in/noc21_hs08/preview">https://onlinecourses.nptel.ac.in/noc21_hs08/preview</a>
			Interpersonal Skills	Enhancing Soft Skills and Personality		<a href="https://onlinecourses.nptel.ac.in/noc21_hs02/preview">https://onlinecourses.nptel.ac.in/noc21_hs02/preview</a>
	Dept Elective: Data Structures					
Dept Elective: Neural Network and Fuzzy Logic			Introduction to Fuzzy Set Theory, Arithmetic and	<a href="https://onlinecourses.nptel.ac.in/noc21_ma55/preview">https://onlinecourses.nptel.ac.in/noc21_ma55/preview</a>		<a href="https://nptel.ac.in/courses/111/102/111102130/">https://nptel.ac.in/courses/111/102/111102130/</a>
Dept Elective: Computer Organization Architecture				<a href="https://onlinecourses.nptel.ac.in/noc21_cs61/preview">https://onlinecourses.nptel.ac.in/noc21_cs61/preview</a>		<a href="https://nptel.ac.in/courses/106/105/106105163/">https://nptel.ac.in/courses/106/105/106105163/</a>

Third Year ( Odd Semester)						
Semster	Subject	Chapter (if applicable)	Course Name	Course home Page link	Week No ( if applicable)	Course home Page link (https://nptel.ac.in/course.html)
...	Basic VLSI Design					
	Electromagnetic Engineering	Laws of electromagnetic, Wave theory, Antenna, transmission line	Applied Electromagnetics For Engineers	<a href="https://onlinecourses.nptel.ac.in/noc21_ee82/preview">https://onlinecourses.nptel.ac.in/noc21_ee82/preview</a>	all 12 week	<a href="https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ee18">https://nptel.ac.in/noc/courses/noc17/SEM2/noc17-ee18</a>
			Electromagnetic Theory	<a href="https://onlinecourses.nptel.ac.in/noc21_ee83/preview">https://onlinecourses.nptel.ac.in/noc21_ee83/preview</a>		<a href="https://nptel.ac.in/courses/108/104/108104099/">https://nptel.ac.in/courses/108/104/108104099/</a>
	Computer Communication Networks					

VI	Embedded Systems and Real Time Operating Systems		Real-Time Systems	<a href="https://onlinecourses.nptel.ac.in/noc21_cs98/preview">https://onlinecourses.nptel.ac.in/noc21_cs98/preview</a>		
	Dept Elective: Digital Control System					
	Dept Elective: Digital Image Processing and Machine Vision		Digital Image Processing	<a href="https://onlinecourses.nptel.ac.in/noc21_ee78/preview">https://onlinecourses.nptel.ac.in/noc21_ee78/preview</a>		<a href="https://onlinecourses.nptel.ac.in/noc21_ee78/preview">https://onlinecourses.nptel.ac.in/noc21_ee78/preview</a>
	Dept Elective: Machine Learning					
<b>Final year ( Odd Semester)</b>						
Semster	Subject	Chapter (if applicable)	Course Name	Course home Page link	Week No ( if applicable)	Course home Page link (https://nptel.ac.in/course.html)
VII	Instrumentation system Design	Module 3	Control engineering	<a href="https://onlinecourses.nptel.ac.in/noc20_ee62/preview">https://onlinecourses.nptel.ac.in/noc20_ee62/preview</a>	Week 7	
	Power electronics					
	Digital signal processing					
	Dept Elective : robotics		Robotics	<a href="https://onlinecourses.nptel.ac.in/noc21_me76/preview">https://onlinecourses.nptel.ac.in/noc21_me76/preview</a>		<a href="https://nptel.ac.in/courses/112/105/112105249/">https://nptel.ac.in/courses/112/105/112105249/</a>
	Institute Level Optional Course I MIS		Management Information Systems	<a href="https://onlinecourses.nptel.ac.in/noc20_mg60/preview">https://onlinecourses.nptel.ac.in/noc20_mg60/preview</a>		
	Institute Level Optional Course I OR		Operation Research	<a href="https://onlinecourses.nptel.ac.in/noc20_ma45/preview">https://onlinecourses.nptel.ac.in/noc20_ma45/preview</a>		<a href="https://nptel.ac.in/courses/111/107/111107128/">https://nptel.ac.in/courses/111/107/111107128/</a>
	Institute Level Optional Course I Cyber security and laws					
dept elective: advanced networking technology						
Semster	Subject	Chapter (if applicable)	Course Name	Course home Page link	Week No ( if applicable)	Course home Page link (https://nptel.ac.in/course.html)
VIII	Internet of Things		Introduction to internet of things	<a href="https://onlinecourses.nptel.ac.in/noc21_cs63/preview">https://onlinecourses.nptel.ac.in/noc21_cs63/preview</a>		<a href="https://nptel.ac.in/courses/106/105/106105151/">https://nptel.ac.in/courses/106/105/106105151/</a>
	Analog and Mixed VLSI Design					
	MEMS Technology		Fabrication Techniques for MEMS-based sensors	<a href="https://onlinecourses.nptel.ac.in/noc21_ee60/preview">https://onlinecourses.nptel.ac.in/noc21_ee60/preview</a>		<a href="https://nptel.ac.in/courses/108/108/108108113/">https://nptel.ac.in/courses/108/108/108108113/</a>
	Digital Image Processing		Digital Image Processing	<a href="https://onlinecourses.nptel.ac.in/noc21_ee78/preview">https://onlinecourses.nptel.ac.in/noc21_ee78/preview</a>		<a href="https://nptel.ac.in/courses/117/105/117105135/">https://nptel.ac.in/courses/117/105/117105135/</a>