

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	Week No (if applicable)	Course Repo of past courses (https://nptel.ac.in/course.html)
III	Engineering Mathematics-III	Module 1:Laplace Transforms	Laplace Transform, Introduction to Methods of Applied Mathematics	https://onlinecourses.nptel.ac.in/noc20_ma43/preview	Week 2, 3, 4	https://nptel.ac.in/courses/111/105/111105134/ , https://nptel.ac.in/courses/111/105/111105123/
		Module 2 :Inverse Laplace Transf		https://onlinecourses.nptel.ac.in/noc20_ma49/preview	Week 5, 6	https://nptel.ac.in/courses/111/105/111105134/ , https://nptel.ac.in/courses/111/105/111105123/
		Module 3:Fourier Series	Introduction to Methods of Applied Mathematics	https://onlinecourses.nptel.ac.in/noc20_ma49/preview	Week 7, 8	https://nptel.ac.in/courses/111/105/111105134/ , https://nptel.ac.in/courses/111/105/111105123/
		Module 4:Complex Variables	Complex Analysis	https://onlinecourses.nptel.ac.in/noc20_ma50/preview	Week 3, 4	https://nptel.ac.in/courses/111/105/111105134/ , https://nptel.ac.in/courses/111/107/111107119/
		Module 5:Statistical Techniques	Regression Analysis	https://onlinecourses.nptel.ac.in/noc20_ma30/preview	Week 1, 2	https://nptel.ac.in/courses/111/104/111104098/
		Module 6: Probability	Essential Mathematics for Machine Learning	https://onlinecourses.nptel.ac.in/noc20_ma35/preview	Week 7	https://nptel.ac.in/courses/111/107/111107137/ , https://nptel.ac.in/courses/111/107/111107119/
	Database Management Systems		Database Management Systems	https://onlinecourses.nptel.ac.in/noc20_cs60/preview		https://nptel.ac.in/courses/106/106/106106220/ , https://nptel.ac.in/courses/106/106/106106095/ , https://nptel.ac.in/courses/106/106/106106093/
	Paradigms and Computer Programming Fundamentals Java Lab (SBL)	Data Abstraction in Object Orientation	Programming in C++	https://onlinecourses.nptel.ac.in/noc20_cs57/preview	1,3,4,5,6	https://nptel.ac.in/courses/106/101/106101208/ , https://nptel.ac.in/courses/106/105/106105151/
		Functional Programming	Introduction To Haskell Programming	https://onlinecourses.nptel.ac.in/noc20_cs79/preview	1,2,3,5	https://nptel.ac.in/courses/106/106/106106137/
		Concurrency	Programming in Java	https://onlinecourses.nptel.ac.in/noc20_cs58/preview	6,7	https://nptel.ac.in/courses/106/105/106105191/
	Java Lab (SBL)	Programming in Java	https://onlinecourses.nptel.ac.in/noc20_cs58/preview			

Second Year (EvenSemester)

Semster	Subject	Chapter (if applicable)	Course Name	Current Semster Course home Page link	Week No (if applicable)	Course Repo of past courses (https://nptel.ac.in/course.html)
IV	Engineering Mathematics-IV					
	Computer Network and Network Design		Computer Networks and Internet Protocol	https://onlinecourses.nptel.ac.in/noc21_cs18/preview		https://nptel.ac.in/courses/106/105/106105183/
	Operating System		Operating System Fundamentals	https://onlinecourses.nptel.ac.in/noc21_cs88/preview		https://nptel.ac.in/courses/106/105/106105214/
	Automata Theory		Introduction to Automata, Languages and Computation	https://onlinecourses.nptel.ac.in/noc21_cs19/preview		https://nptel.ac.in/courses/106/106/106106049/
Computer Organization and Architecture		Computer architecture and organization	https://onlinecourses.nptel.ac.in/noc21_cs61/preview		https://nptel.ac.in/courses/106/105/106105163/	

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	Computer Network Security		Cryptography and Network Security	https://onlinecourses.nptel.ac.in/noc21_cs16/preview		https://nptel.ac.in/courses/106/105/106105162/
	Entrepreneurship and E business					
	Professional Communication & Ethics-II	Intellectual Property Rights	Intellectual Property Rights	https://onlinecourses.nptel.ac.in/noc21_hs08/preview		https://nptel.ac.in/courses/110/105/110105139/
		Interpersonal Skills	Enhancing Soft Skills and Personality	https://onlinecourses.nptel.ac.in/noc21_hs02/preview		https://nptel.ac.in/courses/109/107/109107155/
	Dept Elective : ADS and AOA		Introduction to algorithms and analysis	https://onlinecourses.nptel.ac.in/noc20_cs93/preview		
			Design and analysis of algorithms	https://onlinecourses.nptel.ac.in/noc20_cs71/preview		https://nptel.ac.in/courses/106/105/106105164/

Third Year (Even 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)
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VI	Cryptography and network security	-	-	-	https://nptel.ac.in/courses/106/105/106105162/ https://nptel.ac.in/courses/106/105/106105031/
	Data Mining & Business Intelligence		Data Mining	https://onlinecourses.nptel.ac.in/noc21_cs06/preview	https://nptel.ac.in/courses/106/105/106105174/

Final year (Odd Semster)

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	Artificial Intelligence		Fundamentals of Artificial Intelligence	https://onlinecourses.nptel.ac.in/noc20_me88/preview		https://nptel.ac.in/courses/112/103/112103280/
	Dept Elective : Software Testing and Quality Assurance 1 div		Software Testing	https://onlinecourses.nptel.ac.in/noc20_cs77/preview		https://nptel.ac.in/courses/106/101/106101163/
	Institute Level Optional Course I MIS		Management Information Systems	https://onlinecourses.nptel.ac.in/noc20_mg60/preview		
	Institute Level Optional Course I OR		Operation Research	https://onlinecourses.nptel.ac.in/noc20_ma45/preview		https://nptel.ac.in/courses/111/107/111107128/