

List of Subjects for Acquiring Minor Degree

Department: Computer Engineering/I.T.

Platform: NPTEL/SWAYAM

Sr.No	Subject	Teaching Scheme	Course Name at NPTEL (SME Name)	Resource Person	Institute	Duration	Credits	URL/ Link
1.	Programming In C	4Hrs/week	Problem solving through Programming In C	Prof. Anupam Basu	IIT KGP	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc21_cs54/preview
2.	Data Structure	4Hrs/week	Data Structure and algorithms using Java	Prof. Debasis Samanta	IIT KGP	12 Weeks	4	
3.	Data Base Management System	4Hrs/week	Introduction To Database Systems	Prof. Sreenivasa Kumar	IIT Madras	12 weeks	4	https://onlinecourses.nptel.ac.in/noc21_cs58/preview
4.	Operating Systems	4Hrs/week	Operating System Fundamentals	Prof. Santanu Chattopadhyay	IIT Kharagpur	12 weeks	4	https://onlinecourses.nptel.ac.in/noc21_cs88/preview
5.	Software Engineering	4Hrs/week	Software Engineering	Prof. Rajib Mall	IIT KGP	12 weeks	4	https://onlinecourses.nptel.ac.in/noc21_cs65/preview

Sr.No	Subject	Teaching Scheme	Course Name at NPTEL (SME Name)	Resource Person	Institute	Duration	Credits	URL/ Link
6	The Joy of Computing using Python	4Hrs/week	Python	Prof. Sudarshan Iyengar. Prof. Yayati Gupta	IITM	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc21_cs75/preview
7	Programming, Data Structures And Algorithms Using Python	3Hrs/week	Data structure & Python	Prof. Madhavan Mukund	IITM	8 Weeks	4	https://onlinecourses.nptel.ac.in/noc21_cs21/
8.A & 8.B (Both)	Java Programming & Software Fundamental	4 hrs/week	Java	Coursera- Duke University	Coursera	2 Week	4	https://www.coursera.org/learn/java-programming?specialization=java-programming#syllabus
	Object Oriented Programming in Java	4 hrs/week	Java	Coursera-Duke University		6 Week		https://www.coursera.org/learn/object-oriented-java#syllabus
9.A & 9 B (Both)	Programming for Everybody(Getting Started with Python)	4 hrs/week	Python	Coursera		4 week	4	https://www.coursera.org/learn/python?specialization=python#syllabus
	The Complete Data Structure and Algorithm Course in Python	4 hrs/week	Python	Udemy		4 Week		https://www.udemy.com/share/103zNM/

The Students who are willing to acquire minor degree in Computer Engineering/IT are from the branches like Electrical/E&TC/Mechanical Engineering etc.

The Main objective of these students to go for Minor degree in Computer Engineering/IT is to get placed in Multinational software companies. The recruitment process of software companies includes a Technical test on the subjects Data Structure, Database Management systems, software Engineering etc. Along with these subjects, programming skills in C, C++, Java & Python are also evaluated.

To increase the placement opportunities of Non Computer Engineering/IT students in software companies the following subjects are recommended to be added & out of 9 courses students has to complete any five courses.