

## CSE: Minor and Secondary Major Curricula

**CSE Minor Program Curriculum:** The following minor curriculum is applicable for students in non-CSE departments who started their B Tech in the Aug 2014 semester or later.

Requirements: Any 12 out of the 35 credits listed in the table below, starting from 4<sup>th</sup> semester of the student from other department. The student should ensure that the appropriate prerequisites are met. It is up to the student to choose the courses and manage his/her schedule along with the courses in his/her home department.

**CSE Secondary major curriculum:** The following curriculum for obtaining CS as the additional major is applicable for students in non-CSE departments who started their B Tech in the Aug 2014 semester or later.

Requirements: Any 24 out of the 35 credits listed in the table below, starting from 4<sup>th</sup> semester of the student from other department. The student should ensure that the appropriate prerequisites are met. It is up to the student to choose the courses and manage his/her schedule along with the courses in his/her home department.

### **Remarks:**

- The minor and secondary major students should enroll with the application process, which will be announced at an appropriate time before the 4th semester. The announcement will be through email, and it is the interested student's responsibility to apply before the announced deadline. Note that this application process is different from the registration on the AIMS portal.
- The seats for the minor and secondary major in CSE are limited to 10% of the CSE BTech program intake. The CGPA from the first and second semesters of the students would be used as a tiebreaker if there are more applicants than the number of seats available.
- For every course in the table, the corresponding lab course (with same 3-digit prefix) is automatically considered a co-requisite.

**Minor, secondary major basket:**

<b>Course ID</b>	<b>Course Name</b>	<b>Semester</b>	<b>Pre-requisites</b>	<b>#Credits</b>
CS1330	Programming in C/C++	4	ID1300	1
CS1331	Programming in C/C++ lab	4		2
CS1350	Introduction to Data Structures	4	CS1330	2
CS1351	Introduction to Data Structures Lab	4		2
CS2230	Data Structures	5	CS1350	2
CS2231	Data Structures Lab	5		2
EE2110	Digital Systems and Design	5		2
CS2400	Principles of programming languages I	5	CS2230	1
CS2401	POPL I lab	5		1
CS3303	Software Technologies	6	CS1350	2
CS2440	Algorithms I	6	CS2230	2
CS2323	Computer Architecture	6	ID1300, EE2110	2
CS3510	Operating Systems I	7	CS1350, CS2323	1
CS3511	Operating Systems I lab	7		1
CS3520	Operating Systems II	7	CS3510, CS2230	2
CS3521	Operating Systems II Lab	7		2
CS3530	Computer networks I	8	CS1350	1
CS3531	Computer networks I lab	8		1
CS3550	Introduction to database management systems I	8	CS3510	1
CS3551	Introduction to DBMS I lab	8		1
CS3560	Introduction to DBMS II	8	CS3510, CS3550	2
CS3561	Introduction to DBMS II Lab	8		2
	<b>Total</b>			<b>35</b>