

National Institute of Technology (NIT), Mizoram

Syllabus for

M. Tech. [Computer Science & Engineering]

Duration: Four Semesters

Course Structure:

Semester	Core Theory Credits	Elective Theory Credits	Practical Credits	Project	Total
I	24	6	6	Nil	36
II	18	12	6	Nil	36
III	Nil	Nil	Nil	16	16
IV	Nil	Nil	Nil	24	24
Total	42	18	12	40	112

L-Lecture T-Tutorial P-practical

1 Lecture (1 Hour) = 2 CP, 1 Lab Class (1 hour) = 1 CP

Year I Semester I

Sl No.	Subject Code	Subject Name	L-T-P	CP
1	CSL 2101	<i>Advanced Data Structure and Algorithm</i>	3-0-0	6
2	CSL 2102	<i>Advanced Computer Architecture</i>	3-0-0	6
3	CSL 2103	<i>Distributed Systems</i>	3-0-0	6
4	CSL 2104	<i>Advanced Database System</i>	3-0-0	6
5	CSL 2XXX	<i>Elective</i>	3-0-0	6
6	CSP 2101	<i>Programming Lab</i>	0-0-3	3
7	CSP 2103	<i>Systems Lab</i>	0-0-3	3
Total			15-0-6	36

Year I Semester II

Sl No.	Subject Code	Subject Name	L-T-P	CP
1	CSL 2201	<i>Theory of Computing</i>	3-0-0	6
2	CSL 2202	<i>Data Mining</i>	3-0-0	6
3	CSL 2203	<i>Cloud Computing</i>	3-0-0	6
4	CSL 22XX	<i>Elective</i>	3-0-0	6
5	CSL 22XX	<i>Elective</i>	3-0-0	6
6	CSP 2203	<i>Cloud Computing Lab</i>	0-0-3	3
7	CSP 22XX	<i>Term Paper & Seminar</i>	0-0-3	3
Total			15-0-6	36

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Year II Semester III

Sl No.	Subject Code	Subject Name	L-T-P	CP
1	CSD 2301	<i>Project Phase-I</i>	0-0-16	16
Total			0-0-16	16

Year II Semester IV

Sl No.	Subject Code	Subject Name	L-T-P	CP
1	CSD 2401	<i>Project Phase-II</i>	0-0-24	24
Total			0-0-24	24

List of Electives:

Sl No.	Subject Code	Subject Name
1	CSL 2XXX	Natural Language Processing
2	CSL 2XXX	Pattern Recognition
3	CSL 2XXX	Software Engineering
4	CSL 2XXX	Big Data Analytics
5	CSL 2XXX	Data and Web Security
6	CSL 2XXX	Image Processing
7	CSL 2XXX	Cryptography & Network Security