



संगणक विज्ञान एवं अभियांत्रिकी विभाग  
 Department of Computer Science & Engineering  
 भारतीय प्रौद्योगिकी संस्थान जोधपुर  
 Indian Institute of Technology Jodhpur  
 एन. एच. 62, नागौर रोड़, करवर, जोधपुर - 342030  
 N.H. 62, Nagaur Road, Karwar, Jodhpur-342030

दूरभाष संख्या: +91 291 2801252 ईमेल: [office\\_cse@iitj.ac.in](mailto:office_cse@iitj.ac.in)

वेबसाइट <https://iitj.ac.in/computer-science-engineering/>

CSProposed Curriculum  
**M.Tech. CSE**

Course Number, Course Title	L-T-P	Credits	Course Number, Course Title	L-T-P	Credits				
<b>I Semester</b>			<b>II Semester</b>						
CSL7xx0	Mathematical Foundations for Computer Science	3-0-0	3	C	CSL7xx0	Software & Data Engineering	3-0-0	3	
C	CSL7xx0	Advanced Data Structures and Algorithms	3-0-0	3	E	XXX7XX0	Elective	3-0-0	3
C	CSL7xx0	Advanced Architecture and OS	3-0-0	3	E	XXX7XX0	Elective	3-0-0	3
E	XXX7XX0	Elective	3-0-0	3	E	XXX7XX0	Elective	3-0-0	3
NG1	HSN7XX0	Non-Graded I	1-0-0	S/X	NG2	HSN7XX0	Non-Graded II	1-0-0	S/X
Total			12	Total			12		
<b>III Semester</b>			<b>IV Semester</b>						
T	MET8XXo	Thesis	16	T	MET8XX0	Thesis	16		
Total			16	Total			16		

**Reduced Electives CS**

S.No.	Course Number	Course Title	L-T-P	Credits
1	CSL7XXX	Cybersecurity	3-0-0	3
2	CSL7XXX	Complexity Theory	3-0-0	3
3	CSL7XXX	Advanced Algorithms	3-0-0	3
4	CSL7XXX	Emerging Network Technologies	3-0-0	3
5	CSL7XXX	Blockchain Technologies	3-0-0	3
6	CSL7XXX	Computer Vision	3-0-0	3
7	CSL7XXX	Distributed Database Systems	3-0-0	3
8	CSL7XXX	Virtualization and Cloud Computing	3-0-0	3
9	CSL7XX0	Machine Learning	3-0-0	3
10	CSL7XX0	Mobile and Pervasive Computing	3-0-0	3
11	CSL7XX0	Natural Language Understanding	3-0-0	3
12	CSL7XX0	High Performance Computing Architectures	3-0-0	3

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S. No	Category	Course Category Title	Total Courses	Total Credits
1	C	COMPULSORY	4	12
2	E	ELECTIVES	4	12
3	NG	Non-Graded	2	0
3	T	Thesis	<b>2 (16+16)</b>	32
<i>Total</i>				<b>56</b>

Note: 1. The department should retain only the relevant courses as electives for the M.Tech. program. The courses that are either irrelevant or not attracting more than 10 students should be removed from the PG booklet.

#### Course (Credit) Requirements for PhD students

S.No	Ph.D. in	With	Minimum courses required
1.	Engineering discipline	M.Tech., M.E. or M.Sc. (Engineering) in an Engineering discipline	4 Compulsory
		M.Sc. degree in a Science discipline	4 Compulsory (Same as M.Tech. Compulsory) + 4 Electives
		B.Tech., B.S., B.E. or B.Sc. (Engineering) in an Engineering discipline	4 Compulsory (Same as M.Tech. Compulsory) + 4 Electives
2.	Science, Humanities or Social Science discipline	M.Sc., M.A. and M.Phil. degree in a Science, Humanities or Social Science discipline	4 Compulsory
3.	Management, Design	As per approved norms after 2 years of Masters degree in appropriate discipline	4 Compulsory

#### Note:

1. Departments can design various sets of compulsory courses based on their research themes. These courses can either be existing ones or new courses introduced by the department.
2. The four compulsory courses account for a minimum of 12 credits as per the current regulations.
3. Direct Ph.D. students holding a B.Tech. degree can choose to pursue an additional M.Tech. degree by fulfilling the M.Tech. thesis requirements. The M.Tech. thesis work must be separate from the Ph.D. thesis. The additional degree will be awarded alongside the Ph.D. degree only upon the completion of the Ph.D. program.