Curriculum of B.Tech. Program

in

Computer Science and Engineering

(from AY 2023-24 onwards)



Indian Institute of Technology Indore

Semester III			
Course Code	Course Name	Weekly Contact Hours L-T-P	Total Credits
ZZ 2XX	Course-I for Minor Program	X-X-X	3
MA 205	Complex Analysis	3-1-0 (1/2 semester)	2
MA 207	Differential Equations-II	3-1-0 (1/2 semester)	2
CS 201	Discrete Mathematical Structures	2-1-0	3
CS 203	Data Structures and Algorithms	2-1-0	3
CS 207	Database and Information Systems	2-1-0	3
CS 209	Logic Design	2-0-2	3
CS 253	Data Structures and Algorithms Lab	0-0-3	1.5
CS 257	Database and Information Systems Lab	0-0-3	1.5
CS 2XX	Department Elective I	Х-Х-Х	3
	Total	11-4-8 **	22/25

2nd Year B.Tech. (Computer Science and Engineering)

** Excluding minor programs and electives

Semester IV

Course Code	Course Name	Weekly Contact Hours L-T-P	Total Credits
ZZ 2XX	Course-II for Minor Program	x-x-x	3
MA 204N	Numerical Methods	2-0-2	3
CS 202	Automata Theory and Logic	2-1-0	3
CS 204	Design and Analysis of Algorithms	2-1-0	3
CS 210	Computer Architecture	2-1-0	3
CS 254	Design and Analysis of Algorithms Lab	0-0-3	1.5
CS 264	Computer Architecture Lab	0-0-3	1.5
CS 2XX	Department Elective II	x-x-x	3
ZZ 2XX	Institute Elective-I	х-х-х	3
	Total	8-3-8	21/24

Semester V			
Course Code	Course Name	Weekly Contact Hours L-T-P	Total Credits
ZZ 3XX	Course III - Minor Program	Х-Х-Х	3
CS 303	Operating Systems	2-1-0	3
CS 307	Optimization Algorithms and Techniques	2-1-0	3
CS 311	Parallel Computing	2-0-2	3
CS 313	Computer Networks	2-0-2	3
CS 353N	Operating Systems Lab	0-0-2	1
CS 357N	Optimization Algorithms and Techniques Lab	0-0-2	1
CS 3XX	Department Elective III	Х-Х-Х	3
ZZ 3XX	Institute Elective II	Х-Х-Х	3
	Total	8-2-8	20/23

3rd Year B.Tech. (Computer Science and Engineering)

Semester VI

Course Code	Course Name	Weekly Contact Hours L-T-P	Total Credits
ZZ 3XX	Course IV - Minor Program	Х-Х-Х	3
CS 302N	Computer Graphics and Visualization	2-0-2	3
CS 304N	Computational Intelligence	2-1-0	3
CS 308N	Compiler Techniques	2-0-2	3
CS 310	Software Engineering	2-0-2	3
CS 354N	Computational Intelligence Lab	0-0-3	1.5
CS 3XX	Departmental Elective IV	Х-Х-Х	3
CS 3XX	Departmental Elective V	Х-Х-Х	3
ZZ 3XX	Institute Elective III	Х-Х-Х	3
	Total	8-1-9	22.5/25.5

4th Year B.Tech. (Computer Science and Engineering)

Semester VII

Course Code	Course Name	Weekly Contact Hours L-T-P	Total Credits
ZZ 4XX	Course-V for Minor Program	х-х-х	2
CS 493N	B Tech Project (BTP)	0-0-32	16
CS 495	Internship - I	х-х-х	1
CS 497	Internship - II	х-х-х	1
	Total	0-0-32	18/20

Semester VIII

Course Code	Course Name	Weekly Contact Hours L-T-P	Total Credits
CS 4XX	Department Elective VI	X-X-X	3
CS 4XX	Department Elective VII	X-X-X	3
ZZ 4XX	Institute Elective IV	X-X-X	3
ZZ 4XX	Institute Elective V	X-X-X	3
ZZ 4XX	Institute Elective VI	х-х-х	3
Total			15