

NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM

COURSE STRUCTURE for B.Tech programme

***DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
BATCH: 2023-24 onwards***

NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM

CHALTLANG, AIZAWL MIZORAM-796012

B. Tech Degree Programme

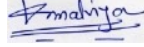
Curriculum

Year 2023-24

Bachelor of Technology in Computer Science and Engineering

Course Credits – Semester Wise

SEMESTER	I	II	III	IV	V	VI	VII	VIII	TOTAL
CSE	20.5	21.5	22	24	19.5	21	15	17	160.5

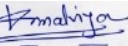
 Sep 18, 2023 OFF. TO: 8000						
Prof. C. Mandal	Prof. P.K. Das	Dr. M. Choudhury	Dr. S. K. Dash	Dr. L. Laitonjam	Dr. V. Malviya	Dr. Lalhruaizela

SEMESTER-III

Sl. No	Course Code	Course Title	L-T-P	Credit
1	CSL 1301	Data Structures	3-0-0	3
2	CSL 1302	Object Oriented Programming	3-0-0	3
3	CSL 1303	Theory of Computation	3-0-0	3
4	ECL 1302	Digital Logic Design	3-0-0	3
5	ECL 1303	Signals and Systems	3-0-0	3
6	HUL 1xxx	HSS/Management/Environmental Science	3-0-0	3
Laboratory				
1	CSP 1301	Data Structures Laboratory	0-0-3	1.5
2	CSP 1303	Object Oriented Programming Laboratory	0-0-3	1.5
3	ECP 1302	Digital Logic Design Laboratory	0-0-2	1
TOTAL			18-0-8	22

SEMESTER-IV

SN	Course Code	Course Title	L-T-P	Credit
1	CSL 1401	Computer Organization and Architecture	3-0-0	3
2	CSL 1402	Design and Analysis of Algorithms	3-0-0	3
3	CSL 1403	Database Management System	3-0-0	3
4	CSL 1404	Discrete Mathematics	3-0-0	3
5	MAL 1404	Probability Theory and Stochastic Processes	3-0-0	3
6	MAL 1405	Convex Optimization: Theory and Algorithms	3-0-0	3
Laboratory				
1	CSP 1401	Computer Organization and Architecture Laboratory	0-0-3	1.5
2	CSP 1404	Systems Programming Laboratory	0-0-3	1.5
3	CSP 1405	Embedded Systems Laboratory	0-0-3	1.5
4	CSP 1403	Database Management System Laboratory	0-0-3	1.5
TOTAL			18-0-12	24

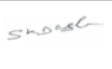
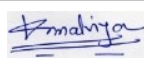
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SEMESTER-V

Sl. No	Course Code	Course Title	L-T-P	Credit
1	CSL 1501	Computer Networks	3-0-0	3
2	CSL 1502	Operating Systems	3-0-0	3
3	ECL 1502	Microprocessors and Microcontrollers	3-0-0	3
4	MAL 1501	Linear Algebra and Applications	3-0-0	3
5	CSL 1506	Artificial Intelligence	3-0-0	3
Laboratory				
1	CSP 1501	Computer Networks Laboratory	0-0-3	1.5
2	CSP 1502	Operating Systems Laboratory	0-0-3	1.5
3	ECL 1502	Microprocessors and Microcontrollers Laboratory	0-0-3	1.5
TOTAL			15-0-9	19.5

SEMESTER-VI

Sl. No	Course Code	Course Title	L-T-P	Credit
1	CSL 1601	Principles of Compiler Design	3-0-0	3
2	CSL 1602	Software Engineering	3-0-0	3
3	CSL 1603	Computer Graphics	3-0-0	3
4	CSL 1605	Machine Learning	3-0-0	3
5	HUL 1xxx	HSS/Management	3-0-0	3
Laboratory				
1	CSP 1601	Compiler Design Laboratory	0-0-3	1.5
2	CSP 1602	Software Engineering Laboratory	0-0-3	1.5
3	CSP 1603	Computer Graphics Laboratory	0-0-3	1.5
4	CSP 1605	Machine Learning Laboratory	0-0-3	1.5
TOTAL			15-0-12	21

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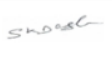
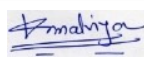
SEMESTER-VII

Sl. No	Course Code	Course Title	L-T-P	Credit
1	CSL 17xx	Elective - I	3-0-0	3
2	CSL 17xx	Elective - II	3-0-0	3
3	CSL 17xx	Elective - III	3-0-0	3
4	CSD 1701	Project Phase-I	0-0-10	5
5	CSS 1701	Industrial Training and Seminar	0-0-2	1
TOTAL 9-0-12				15

SEMESTER-VIII

Sl. No	Course Code	Course Title	L-T-P	Credit
1	CHL 1805	Environmental Science and Energy	2-0-0	2
2	XXX xxxx	Open Elective	3-0-0	3
3	CSD 1802	Project Phase -II	0-0-20	10
4	CSG 1801	Grand Viva	0-0-2	1
5	CSS 1801	Seminar	0-0-2	1
TOTAL 5-0-24				17

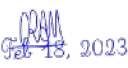
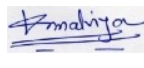
L-Lecture T-Tutorial P-practical

 Oct 18, 2023						
Prof. C. Mandal	Prof. P.K. Das	Dr. M. Choudhury	Dr. S. K. Dash	Dr. L. Laitonjam	Dr. V. Malviya	Dr. Lalhruaizela

LIST OF ELECTIVES

Sl No	Course Code	Course Title	Category	L-T-P	Credit
1	CSL1XXX	Advanced Computer Architecture	DE	3-0-0	3
2	CSL1XXX	Pattern Recognition	DE	3-0-0	3
3	CSL1XXX	Artificial neural network	DE	3-0-0	3
4	CSL1XXX	Natural language processing	DE	3-0-0	3
5	CSL1XXX	Real Time Systems	DE	3-0-0	3
6	CSL1XXX	Bioinformatics	DE	3-0-0	3
7	CSL1XXX	Information Theory and Coding	DE	3-0-0	3
8	CSL1XXX	Parallel Algorithms	DE	3-0-0	3
9	CSL1XXX	Real Time Operating System	DE	3-0-0	3
10	CSL 1XXX	Mobile Computing	DE	3-0-0	3
11	CSL1XXX	Advanced Data Structures	DE	3-0-0	3
12	CSL1XXX	Distributed computing	DE	3-0-0	3
13	CSL1XXX	Robotics	DE	3-0-0	3
14	CSL1XXX	Cloud Computing	DE	3-0-0	3
15	CSL1XXX	Information Retrieval and storage	DE	3-0-0	3
16	CSL1XXX	Soft Computing	DE	3-0-0	3
18	CSL1XXX	Optimization Techniques	DE	3-0-0	3
19	CSL1XXX	Computational Complexity	DE	3-0-0	3
20	CSL1XXX	Advanced Algorithms	DE	3-0-0	3
21	CSL1XXX	Computational Number Theory and Cryptography	DE	3-0-0	3
22	CSL1XXX	Wireless Networks	DE	3-0-0	3
23	CSL1XXX	Applied Graph Theory	DE	3-0-0	3
24	CSL1XXX	Computational Geometry	DE	3-0-0	3
25	CSL1XXX	Big Data and Analytics	DE	3-0-0	3
26	CSL1XXX	Image Processing	DE	3-0-0	3

27	CSL1XXX	Web Technology	DE	3-0-0	3
28	CSL1XXX	Network security and Cryptography	DE	3-0-0	3
29	CSL1XXX	Data Mining and Data Warehousing	DE	3-0-0	3

 9th 18, 2023 355 101 5000						
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