

**MIT, Pune Campus at Shillong
University of Technology & Management**

B.TECH (Computer Science Engineering)

SEMESTER I			SEMESTER II		
CORE COURSES		Credits			Credits
PHYS 101	Physics I	4	PHYS 102	Physics II	4
CHEM 103	Chemistry I	4	MATH 102	Mathematics II	4
MATH 101	Mathematics I	4	CSEG 103	Data Structure Using C	4
CSEG 101	Problem Solving Using C	4	GNEG 282	Basic Electronics Engineering	2
COMM 111	Communication Workshop 1.1	2	COMM 112	Communication Workshop 1.2	2
ENVO 101	Environmental Studies	2	GNEG 111	Engineering Graphics I	2
GNEG 101	Workshop Technology	2	MATH 105	Introduction to Mathematical Logic	2
	PRACTICAL			PRACTICAL	
PHYS 103	Physics Lab I	1	CSEG 104	Data Structure using C Lab	1
CHEM 106	Chemistry Lab	1	GNEG 283	Electronics Lab	1
CSEG 102	C Programming Lab	1	PHYS 104	Physics Lab II	1
COMM 113	Language Lab	1	COMM 114	Language Through Literature Lab	1
GNEG 102	Engineering Workshop	1	GNEG 112	Engineering Graphics Lab I	1
		27			25
SEMESTER III			SEMESTER IV		
CORE COURSES		Credits			Credits
MATH 201	Mathematics III	4	CSEG 416	Microprocessor and Embedded Systems	4
INFO 113	Object Oriented Programming using C++	4	GNEG 100	Philosophy of Science	2
INFO 115	Computer Systems Architecture	3	CSEG 233	Advanced DBMS	4
CSEG 311	Introduction to web development using PHP	4	CSEG 219	Theory of Automata & Computation	4
CSEG 320	Design & Analysis Of Algorithms	4	BBCG 110	Principle of Management	2
CSEG 220	Database Management Systems & Data Modelling	3	COMM 211	Communication Workshop 2.0	3
INFO 114	Object Oriented Programming using C++ Lab	1	CSEG 418	Microprocessors and Embedded Systems Lab	1
CSEG 215	DBMS Lab	1	CSEG 234	Advanced DBMS Lab	1
CSEG 312	Introduction to web development using PHP Lab	1	CSIB 273	Virtualization and Cloud Lab	1
	TOTAL	25		TOTAL	22

B.TECH (COMPUTER SCIENCE ENGG)

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SEMESTER V			SEMESTER VI		
CORE COURSES		Credits			Credits
CSEG 361	Software Engineering & Project Management	3	CSEG 324	Computer Graphics	4
CSEG 371	Compiler Design	4	CSEG 317	Enterprise Java	4
CSEG 313	Java Programming	4		CS Elective I	3
CSEG 218	Operating Systems	3		CS Elective II	3
BBCH 102	Organizational behaviour	2	CSEG 208	Data Communication & Networks	3
CSEG 303	Object Oriented Analysis & Design	3			
COMM 311	Communication Workshop 3.0	1			
	PRACTICAL			PRACTICAL	
CSEG 372	Compiler Design Lab	1	CSEG 318	Enterprise Java Lab	1
CSEG 352	Java Programming Lab	1	CSEG 209	Data Communication & Networks Lab	1
CSEG 363	Software Engineering & Project Management Lab	1	CSEG 325	Computer Graphics Lab	1
PROJ 301	Minor Project I	2	PROJ 302	Minor Project II	4
CSEG 212	Operating Systems Lab	1	INDT 301	Industrial Visit	1
		26			25
SEMESTER VII			SEMESTER VIII		
CORE COURSES		Credits			Credits
	CS Elective III	3	CSEG 423	Network Security & Cryptography	4
	CS Elective IV	3		CS Elective V	3
BBC E 114	Managerial Economics	1		CS Elective VI	3
CSEG 411	Data Warehousing & Data mining	3	BBCG 112	Entrepreneurship and product development	3
BBCG 113	Social Responsibility and Professional Ethics in Engineering	3			
	PRACTICAL				
CSEG 412	Data Warehousing & Data mining Lab	1	PROJ 402	Major Project II	8
PROJ 401	Major Project I	4			
SIP 101	Summer Internship	2			
	TOTAL	20		TOTAL	21
Total Credit: 191					

CS Elective Papers	
SL No	Name of Paper
	CS Elective I
1	Artificial Intelligence
2	Mobile Computing
3	Pattern Recognition
4	Information Retrieval
5	Soft Computing
	CS Elective II
6	Distributed Computing
7	Web Service and Service Oriented Architecture
8	Image processing
9	Natural Language processing
10	Enterprise Resource Planning
	CS Elective III
11	Internet of Things
12	Android Programming
13	Advanced web programming
14	Grid Computing
15	Management Information System
	CS Elective IV
16	Modeling & Simulation
17	Information Theory & Coding
18	Graph Theory
19	E-Commerce
20	Digital Signal Processing
	CS Elective V
21	Wireless Communication
22	Fuzzy Logic and Neural Networks
23	Robotics
24	Virtualization and Cloud Computing
25	Security in cloud
	CS Elective VI
26	.NET Technologies
27	Backup and Data Recovery
28	Data Analytics
29	Big Data