

B. Tech (M & C) – 2017 Batch

Semester I									
Course No.	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA 1110	Calculus I	1	■	■					
MA 1220	Calculus II	2			■	■	■	■	
MA 1500	Math Foundation	1			■	■			
MA 1501	Introduction to Number System	1						■	■
CS 1310	Discrete Structures I	2	■	■	■	■			
ID 1054	Digital Fabrication	2							
ID 1035	Independent Project	1							
ID 1303	Introduction to Programming	2			■	■	■	■	
ID 1330	Applied Logic Digital Design	1	■	■					
PH /CY	Science Elective	1			■	■			
LA/CA	Electives	1							
	Total	15							

Semester II									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA1130	Vector Calculus	1	■	■					
MA1140	Linear Algebra	1			■	■			
MA1150	Differential Equations	1						■	■
EE1510	Matrix Analysis	1			■	■			
EE1330	Digital Signal Processing	1						■	■
CS 1340	Discrete Structures II	2	■	■					
CS1353	Introduction to Data Structures	3						■	■
PH /CY	Science Elective	3			■	■			
LAXXX	LA / CA Electives	2	■	■					
FEXXX	Free Elective	1							
	Total	16							

	Semester								Total
	1	2	3	4	5	6	7	8	
MA Core	5	3	5	8	3	6	3	0	33
MA Elec	0	0	1	0	9	6	6	9	31
CS	2	5	7	6	2	0	0	0	22
EE	1	2	1	2	0	0	0	0	5
LA/CA	1	2	0	0	0	1	3	3	10
FE	0	1	0	0	2	3	3	3	12
Sci Elec	1	3	0	0	0	0	0	0	4
ID	5	0	1	1	0	0	0	0	8
Total	15	16	15	17	16	16	15	15	125

Semester III									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA 2110	Probability	1	■	■					
MA 2120	Transforms	1			■	■			
MA 4020	Linear Algebra	3	■	■	■	■	■	■	
MnC ****	Dept Elective-I	1							
CS 2233	Data Structures	3	■	■	■	■	■	■	
CS 2323	Computer Architecture	2							
	Principles of Programming Languages I	1							
CS 2400	OS-I	1	■	■					
EE 2230	Random Processes	1						■	■
ID 1350	IoT	1	■	■					
	Total	15							

Semester IV									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA 2130	Complex Variables	1	■	■					
MA 2140	Statistics	1			■	■			
MA 5060	Numerical Analysis	3	■	■	■	■	■	■	
MA 2150	Convex Optimization	3	■	■	■	■	■	■	
CS 2443	Algorithms	3	■	■	■	■	■	■	
CS 2410	Theory of Computation	2	■	■	■	■			
CS 2420	Intro to Complexity Theory	1						■	■
EE2340	Information Sciences	1	■	■					
EE1210	Basic Control Theory	1	■	■					
ID ****	AI	1							
	Total	17							

Semester V									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA 4010	Analysis of Functions of Single Variable	3	■	■	■	■	■	■	
MnC ****	Dept Electives - II	9	■	■	■	■	■	■	■
CS 3550	DBMs-I	1							
CS 3530	Computer Networks-I	1							
FE ****	Free Elective	2							
	Total	16							

Semester VI									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA 4070	Groups and Rings	3	■	■	■	■	■	■	
MA 4090	Analysis of Functions of Several Variables	3	■	■	■	■	■	■	
MnC ****	Dept Electives - III	6	■	■	■	■	■	■	■
FE	Free Elective	3							
LA/CA	Professional Ethics	1							
	Total	16							

Semester VII									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MA 5020	Functional Analysis	3	■	■	■	■	■	■	
MnC ****	Dept Electives - IV	6	■	■	■	■	■	■	■
FE ****	Free Elective	3							
LA/CA	Electives	3							
	Total	15							

Semester VIII									
Course No	Course Name	Credits	Segments						
			1	2	3	4	5	6	
MnC ****	Dept Electives - V	9	■	■	■	■	■	■	■
LA/CA	Elective	3							
FE	Free Electives	3							
	Total	15							

S. No	Baskets
1	Theoretical Maths
2	Computational Mechanics
3	Coding and Cryptography
4	Computational Intelligence
5	Computing Labs