

Sl. No.	Subject Code	SEMESTER I	L	T	P	C
1.	MA1101	Calculus and Linear Algebra	3	1	0	4.0
2.	CS1101	Foundation of Programming	2	0	2	3.0
3.	PH1101/PH1201	Physics	3	1	3	5.5
4.	CE1101/CE1201	Engineering Graphics	1	0	3	2.5
5.	EE1101/EE1201	Electrical Sciences	3	0	3	4.5
6.	HS1101	English for Professionals	2	0	1	2.5
TOTAL						22

Sl. No.	Subject Code	SEMESTER II	L	T	P	C
1.	MA1201	Probability Theory and Ordinary Differential Equations	3	1	0	4.0
2.	CS1201	Data Structure and Analytics	3	0	2	4.0
3.	CH1201/CH1101	Chemistry	3	1	3	5.5
4.	ME1201/ME1101	Workshop Practice	0	0	3	1.5
5.	ME1202/ME1102	Engineering Mechanics	3	1	0	4.0
6.	IK1101	Indian Knowledge System (IKS)	3	0	0	3.0
TOTAL						22

Sl. No.	Subject Code	SEMESTER III	L	T	P	C
1.	MA2101	Design and Analysis of Algorithms	3	0	2	4
2.	MA2102	Probability and Stochastic Processes	3	1	0	4
3.	MA2103	Optimization Techniques	3	0	0	3
4.	MA2104	Algebra	3	0	0	3
5.	MA2105	Discrete Mathematics	3	0	0	3
6.	HS21PQ	HSS Elective I	3	0	0	3
TOTAL						20

Sl. No.	Subject Code	SEMESTER IV	L	T	P	C
1.	MA2201	Introduction to Machine Learning	3	0	2	4
2.	MA2202	Real Analysis and Measure Theory	3	0	0	3
3.	MA2203	Numerical Linear Algebra	3	0	2	4
4.	MA2204	Computer Architecture and Organization	3	0	3	4.5
5.	MA2205	Database Management Systems	3	0	3	4.5
6.	XX22PQ	IDE I	3	0	0	3
TOTAL						23

Sl. No.	Subject Code	SEMESTER V	L	T	P	C
1.	MA3101	Ordinary and Partial Differential Equations	3	0	0	3
2.	MA3102	Complex Analysis	3	0	0	3
3.	MA3103	Theory of Computation	3	0	0	3
4.	MA3104	Computer Networks	3	0	3	4.5
5.	MA3105	Operating Systems	3	0	3	4.5
6.	XX31PQ	IDE II	3	0	0	3
TOTAL						21

Sl. No.	Subject Code	SEMESTER VI	L	T	P	C
1.	MA3201	Number Theory and Cryptography	3	0	0	3
2.	MA3202	Numerical Methods	3	0	2	4
3.	MA3203	Mathematical Statistics	3	0	0	3
4.	MA3204	Convex Optimization	3	0	2	4
5.	MA3205	Functional Analysis	3	0	0	3
6.	MA3206	Artificial Intelligence	3	0	2	4
TOTAL						21
7.	XX32PQ	Minor I	3	1	0	4

Sl. No.	Subject Code	SEMESTER VII	L	T	P	C
1.	HSXXX	HSS Elective - II	3	0	0	3
2.	XX41PQ	IDE - III	3	0	0	3
3.	XX41PQ	Departmental Elective – I	3	0	0	3
4.	XX41PQ	Departmental Elective – II	3	0	0	3
5.	XX4198	Summer Internship	0	0	6	3
6.	XX4199	Project – I	0	0	12	6
TOTAL			12	0	18	21
7.	XX41PQ	Minor II	M	N	O	P
8.	XX41PQ	Minor III	M	N	O	P

Sl. No.	Subject Code	SEMESTER VIII	L	T	P	C
1.	XX42PQ	Departmental Elective – III	3	0	0	3
2.	XX42PQ	Departmental Elective – IV	3	0	0	3
3.	XX42PQ	Departmental Elective – V	3	0	0	3
4.	XX4299	Project – II	0	0	20	10
TOTAL			9	0	20	19
GRAND TOTAL						169
5.	XX42PQ	Minor IV	M	M	O	P
6.	XX42PQ	Minor V	M	N	O	P