

Course Structure				
S.No.	Nature of Course	Course Code	Course Title	Credits
Semester I				
1.	DBCC	MTH81DC00104	Real Analysis	4
2.	DBCC	MTH81DC00204	Linear Algebra	4
3.	DBCC	MTH81DC00304	Ordinary Differential Equations and Laplace Transform	4
4.	DBCC: Skill Enhancement	MTH81DC00404	Discrete Mathematics	4
5.	OEIC			4
6.	MENC	MTH81ME00500	Introduction to Matlab	0
	Total Credits			20
Semester II				
7.	DBCC	MTH82DC00604	Complex Analysis and Functions of Several Variables	4
8.	DBCC	MTH82DC00704	Topology	4
9.	DBCC	MTH82DC00804	Algebra I	4
10.	DBCC: Vocational Studies	MTH82DC00904	Applied Mathematical Tools	4
11.	DBCC	MTH82DC01004	Research Methodology	4
12.	MENC	MTH82ME01100	Introduction to Latex	0
	Total Credits			20
Semester III				
13.	DBCC	MTH91DC01204	Measure and Integration	4
14.	DBCC	MTH91DC01304	Algebra II	4
15.	DBCC	MTH91DC01402	Development of Mathematics in India	2
16.	DBCC	MTH91DC01502	Human Values and Famous Mathematicians	2

17.	DBCE		Any offered Course From Table 1	4
18.	OEIC			4
	Total			20
Semester IV				
19	DBCC	MTH92DC01604	Partial Differential Equations and Fourier Analysis	4
20.	DBCC	MTH92DC01704	Functional Analysis	4
21.	DBCC	MTH92DC01804	Numerical Methods and Statistics	4
22.	DBCC	MTH92DC01904	Project	4
23.	DBCE		Any offered Course From Table 2	4
			Total	20

Table 1: List of Discipline Based Core Elective Courses (DBCE) For Sem III

S.No.	Course Code	Course Title	Credits
24.	MTH91DE02004	Calculus of Variations and Integral Equations	4
25.	MTH91DE 02104	Commutative Algebra	4
26.	MTH91DE02204	Differential Geometry	4
27.	MTH91DE02304	Fluid Mechanics	4
28.	MTH91DE02404	Graph Theory	4
29.	MTH91DE02504	Group Theory	4

30.	MTH91DE02604	Introduction to Finite Fields and Coding Theory	4
31.	MTH91DE02704	Mechanics	4
32.	MTH91DE02804	Number Theory	4
33.	MTH91DE02904	Numerical Solution to PDE	4
34.	MTH91DE03004	Operations Research	4
35.	MTH91DE03104	Wavelet Analysis	4
Table 2: List of Discipline Based Core Elective Courses (DBCE) For Sem IV			
36.	MTH92DE03204	Algebraic Geometry	4
37.	MTH92DE03304	Algebraic Number Theory	4
38.	MTH92DE03404	Algebraic Topology	4
39.	MTH92DE03504	Distribution Theory	4
40.	MTH92DE03604	Lie Algebras	4
41.	MTH92DE03704	Mathematical Cryptography	4
42.	MTH92DE03804	Numerical Methods with Programming	4
43.	MTH92DE03904	Operator Theory	4
44.	MTH92DE04004	Representation theory of Finite Groups	4
45.	MTH92DE04104	Semigroup Theory	4
46.	MTH92DE04204	Spectral Graph Theory	4