Year 1							
Semester-I							
S. No.	Category	Name of the Course					
D• 110•	Category		L	T	P	C	
1	Core	Fundamental of Mathematics I	3	1	0	4	
2	Core	Calculus	3	0	1	4	
3	AEC	English Proficiency I	0	0	2	2	
4	VAC	IT Tools and Data Analytics	0	0	2	2	
5	MDC-1	Foundation of Programming	2	0	2	4	
6	GE	Generic Elective/Minor-1	-	-	-	4	
		Total Credits	}			20	
		Semes	ter-II				
S. No.	Category	Name of the Course					
212121	Jung-1		L	T	P	С	
1	Core	Core Fundamental of Mathematics II		1	0	4	
2	Core	Linear Algebra I	3	0	1	4	
3	Core	Multivariable Calculus	3	1	0	4	
4	AEC	English Proficiency II	0	0	2	2	
5	VAC	Choose Any one from Basket of VAC	2	0	0	2	
6	GE	Generic Elective/Minor-2	-	-	1	4	
		Total Credits	}			20	
		Yea					
		Semest	er-III				
S. No.	Category	Name of the Course	L	T	P	С	
1	Core	Real Analysis I	3	1	0	4	
2	Core	Linear Algebra II	3	1	0	4	
3	Core	Ordinary Differential Equations	3	0	1	4	
4	AEC	Today's Science, Tomorrow's World I	2	0	0	2	
5	Internship	Social Internship	-	-	-	2	
6	SEC	Choose Any one from Basket of SEC	3	0	0	3	

7	GE	Generic Elective/Minor-3	-	-	-	4	
		Total Credits				23	
Semester-IV Semester-IV							
S. No.	Category	Name of the Course	_	_	_	~	
	8 ,		L	T	P	С	
1	Core	Advanced Numerical Analysis	3	0	1	4	
2	Core	Partial differential Equations	3	1	0	4	
3	Core	Descriptive Statistics	3	0	1	4	
4	AEC	Today's Science, Tomorrow's World II	2	0	0	2	
5	SEC	Choose Any one from Basket of SEC	-	-	-	3	
6	MDC-2		-	_	-	2	
7	GE	Generic Elective/Minor-4	-	-	-	4	
		Total Credits				23	
	Year 3						
		Semest	ter-V				
S. No.	Category	Name of the Course					
			L	T	P	C	
1	Core	Complex Analysis	3	0	0	4	
2	Core	Modern Algebra	3	()		//	
	T31 4.	0 '1' 1 1 1' 1				4	
3	Elective	Specialized Elective 1	-	-	-	4	
4	Elective GE	Generic Elective/Minor-5					
						4	
4	GE	Generic Elective/Minor-5 Choose Any one from	-	-	-	4	
5	GE SEC VAC	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research)	3 - 0	-	-	4 4 3	
5 6	GE SEC VAC	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research) Total Credits	3 - 0	0	-	4 4 3 2	
5 6	GE SEC VAC	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research)	3 - 0	0	-	4 4 3 2	
5 6	GE SEC VAC	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research) Total Credits	3 - 0	0	-	4 4 3 2	
4 5 6 7	GE SEC VAC Internship	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research) Total Credits Semest	- - 3 - 0	- 0 - 0	- 0	4 4 3 2 2 2 23	
4 5 6 7 S. No.	GE SEC VAC Internship Category	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research) Total Credits Semest Name of the Course Modelling and	- - 3 - 0	- 0 - 0	- 0 - P	4 4 3 2 2 23	
4 5 6 7 S. No.	GE SEC VAC Internship Category Elective	Generic Elective/Minor-5 Choose Any one from Basket of SEC Choose Any one from Basket of VAC Internship (Industrial/Academic/Research) Total Credits Semest Name of the Course Modelling and Simulations	- - 3 - 0 er-VI L 3	- - 0 - 0	- 0 - P 0	4 4 3 2 2 2 3 C 4	

5	Minor	Generic Elective/Minor-6	-	-	-	4		
6	MDC-3		-	-	-	3		
	<u> </u>	Total Credits				23		
	Year 4							
		Semest	er-VII					
S. No.	Category	Name of the Course	L	Т	P	С		
1	Core	Topology				4		
2	Elective	Specialized Elective 6				4		
3	Elective	Specialized Elective 7				4		
4	Minor	Generic Elective/Minor-7				4		
5	Minor	Generic Elective/Minor-8				4		
		Total Credits				20		
		Semeste	er-VIII					
S. No.	Category	Name of the Course	L	T	P	С		
1	Project	Dissertation				12		
		Total Credits				12		
		Elect	ives					
S. No.	No. Category Name of the Course							
			L	T	P	C		
1		Operation Research	3	1	0	4		
2	Elective 1	Numerical Linear Algebra	-	-	-	4		
3		Graph Theory	3	1	0	4		
4	Elective 2	Numerical Optimization Techniques	3	1	0	4		
5		Database Management system	3	0	1	4		
6	Elective 3	Computational Physics	3	1	0	4		
7	Lieutive 3	Machine Learning	3	1	0	4		
8	Elective 4	Computational Number Theory and Cryptography	3	1	0	4		
9		Data Mining and Warehouse	3	1	0	4		

10	Elective 5	Algorithms in Mathematical Finance	3	1	0	4
11		Cloud Computing	3	1	0	4



