Department of Mathematics
Bachelor of Technology (All Branches)
Semester-wise Course Structure (From 2019 onwards)

SEMESTER --1							

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
MA 101	Differential Calculus and Linear Algebra	Sc/H	3	1	0	4	None
Total Contact Hours – Component wise			**3**	**1**	**0**	**4**	
Total Contact Hours						4	

SEMESTER --2							

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
MA 102	Integral Calculus and Complex Variables	Sc/H	3	1	0	4	None
Total Contact Hours – Component wise			3	1	0	4	
Total Contact Hours						4	

SEMESTER –3							

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
MA 201	Integral Transforms and PDEs	M	3	1	0	4	None
Total Contact Hours – Component wise			3	1	0	4	
Total Contact Hours						4	

SEMESTER –4							

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
Open Elective – 1							
MA 272	Numerical Methods in Computing	OE	2	0	0	2	None
Total Contact Hours – Component wise			2	0	0	2	
Total Contact Hours						2	

SEMESTER –5							

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
Open Elective – 2							
MA 371	Probability Theory & Distributions	OE	2	0	0	2	None

	Total Contact Hours – Component wise		2	0	0	2
	Total Contact Hours					2

SEMESTER --- 6						

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
Open Elective --- 3							
MA 372	Linear Optimization	OE	2	0	0	2	MA 101
MA 374	Statistical Methods	OE	2	0	0	2	None
	Total Contact Hours – Component wise		2	0	0		2
	Total Contact Hours						2

SEMESTER --- 7						

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
Open Elective --- 4							
MA 471	Non-linear Optimization	OE	2	0	0	2	MA 372
MA 473	Stochastic Processes	OE	2	0	0	2	MA 371
	Total Contact Hours – Component wise		2	0	0		2
	Total Contact Hours						2

SEMESTER --- 8						

Course Code	Course Title	Course Type	Contact Hours			Credit	Pre-requisites
			L	T	P	C	
	Total Contact Hours – Component wise						--------
	Total Contact Hours						--------

Credit Distribution based on Research Groups

Research Group	Sem ⋯ 1	Sem ⋯ 2	Sem – 3	Sem ⋯ 4	Sem ⋯ 5	Sem ⋯ 6	Sem ⋯ 7	Sem ⋯ 8	Total
Pure Mathematics	2	2	2	2		1	1		10
Applied Mathematics	2	2	2			1	1		8
Probability & Statistics					2	2	2		6
Total	4	4	4	2	2	4	4		24

Credit Distribution based on Research Groups

- Pure Math Applied
- Math
- Probability & Statistics

25%
42%
33%