Mathematics and Computing									
	So	mastar I (Common for all R Tach Courses)							
Semester - I (Common for all B.Tech Courses)  S.No C. Code Course L T P C									
1	MA 101	Calculus	3	1	0	8			
2	PH 101	Quantum Physics and Applications	$\frac{1}{2}$	1	0	6			
3	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6			
4	BB 103	Introduction to Modern biology	3	0	0	6			
5	PH 113	Hands on Science Laboratory - I	0	0	3	3			
6	CS 101	Computer Programming	3	0	2	8			
7	HS 103	Introduction to Fine Arts	0	0	1	PP/NP			
8	HS 106	Design Thinking and Creativity	1	0	0	PP/NP			
9	NO107/NO105	NSO/NSS	0	0	2	2			
		First Semester Total Credits		<u> </u>	ļ	37			
		Semester - II							
S. No	Course Code	Course Name	L	T	P	C			
1	MA 102	Linear Algebra (1st Half)	3	1	0	4			
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4			
3	ME 111	Engineering Graphics Laboratory	1	0	3	5			
4	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6			
5	CS 201	Data Structures and Algorithms	3	0	0	6			
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3			
7	ME 113	Hands on Engineering Laboratory	0	0	3	3			
8	PH 102	Electricity and magnetism	2	1	0	6			
9	NO 105/ NO 107	National Sports Organization (NSO)/National Service Scheme (NSS)	0	0	2	2			
		Total Credits				37			
		Semester III							
S.No	Course code	Course name	L	T	P	C			
1	CS 205	Design and analysis of algorithms	3	0	0	6			
2	CS 203	Discrete structures	3	0	0	6			
3	EE 221	Introduction to Probability (1st Half)	3	0	0	3			
4	EE 227	Data Analysis (2nd Half)	3	0	0	3			
5	HS 201	Economics	3	0	0	6			
6	CS 213	Software Systems Lab	1	3	0	8			
7	CS 403	Graph Theory and Combinatorics	3	0	0	6			
Total credits 38									

		Semester IV					
S.No	Course code	Course name	L	T	· I	P	C
1	CE 301	Environmental studies	3	0	(	0	6
2	CS 209	Artificial intelligence	3	0	(	О	6
3	CS 301	Computer Architecture	3	0	(	0	6
4	CS 214	Artificial intelligence Laboratory	0	0	3	3	3
5	CS 311	Computer Architecture Laboratory	0	0	3	3	3
6	MA 220	Real Analysis	2	1	(	0	6
7	MA 210	Statistics	3	0	(	_	6
Total cr	edits						36
		Semester V					
S.No	Course code	Course name	I	Т	,   I	P	C
1	MA407T	Stochastic Models	3	0	+	+	6
2	MA404T	Introduction to Mathematical Finance I	3	0	+	$\dashv$	6
3	11/1/17/11	CSE Elective I	3	+	+	$\dashv$	6
<u> </u>		Mathematics Elective I		+	+	$\rightarrow$	6
<u>.                                    </u>		HSS Elective I	3	10	1	$\rightarrow$	6
6	CS407T	Mathematics for Data Science	3	0	+	$\dashv$	6
Total cr		The state of the s		Ţ	`	_	36
		Semester VI					
S.No	Course code	Course name	L	T	+	$\dashv$	C
1	CS201T	Automata theory	3	1	(	0	8
2	MA303T	Group Theory	2	1	(	0	6
3	MA408T	Introduction to Mathematical Finance 2	3	0	(	0	6
4		CSE Elective / Mathematics Elective / R&D project				$\dashv$	6
5		HSS Elective II	3	0	(	-	6
Total c	redits			_	_		32
C N	C C 1	Semester VII		- T-	,   ,		
S.No	Course Code	Course Name  CSE Elective /Mathematics Elective	L	T	' I	$\dashv$	<u>C</u>
2		Institute Elective/BTP		+	+	$\dashv$	
2		Institute Elective/BTP  Institute Elective	+	+	+	$\dashv$	6
3	edits	Institute Elective				$\rightarrow$	6 18
Total an	cuits					_	10
Total cr							
Total cr		Semester VIII					
	Course Code	Semester VIII Course Name	L	Т	,   I	P	C
Total cr S.No			L	Т	·	$\rightarrow$	<b>C</b>

3	Institute Elective			6
Overal Credits Required (Minimum)				
Overal Credits Required (Minimum)				252