

**BHARATHIAR UNIVERSITY : : COIMBATORE 641 046**

**B. Sc. Mathematics Curriculum (Affiliated Colleges)**

(For the students admitted during the academic year 2020 – 21 onwards)

Course Code	Title of the Course	Credits	Hours		Maximum Marks		
			Theory	Practical	CIA	ESE	Total
FIRST SEMESTER							
	Language – I	4	6		25	75	100
	English – I	4	6		25	75	100
	Core Paper I - Classical Algebra	4	4		25	75	100
	Core Paper II-Calculus	4	5		25	75	100
	Allied A : Paper I Chosen by the college	4	7		25	75	100
	Environmental Studies #	2	2		-	50	50
	<b>Total</b>	22	30		125	425	550
SECOND SEMESTER							
	Language – II	4	6		25	75	100
	English – II	4	6		25	75	100
	Core Paper III - Analytical Geometry	4	4		25	75	100
	Core Paper IV-Trigonometry, Vector Calculus and Fourier Series	4	5		25	75	100
	Allied A: Paper II Chosen by the college	4	7		25	75	100
	Value Education – Human Rights #	2	2		-	50	50
	<b>Total</b>	22	30		125	425	550
THIRD SEMESTER							
	Language – III	4	6		25	75	100
	English – III	4	6		25	75	100
	Core Paper V- Differential Equations and Laplace Transforms.	4	3		25	75	100
	Core Paper VI- Statics	4	3		25	75	100
	Allied B : Paper I – Chosen by the college	3	7		20	55	75
	Skill based Subject - Operations Research -I	3	3		20	55	75
	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women's Rights	2	2			50	50
	<b>Total</b>	24	30		140	460	600

FOURTH SEMESTER							
Language – IV	4	6		25	75	100	
English – IV	4	6		25	75	100	
Core Paper VII-Dynamics	4	3		25	75	100	
Core Paper VIII- Programming in C	3	2		20	55	75	
Programming in C Practical	1		1	10	15	25	
Allied B - Paper II Chosen by the college	3	5		20	55	75	
Allied B - Paper II Chosen by the college (For Practical Paper )	2		2	20	30	50	
Skill based Subject - Operations Research – Paper II	3	3		20	55	75	
Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)	2	2			50	50	
<b>Total</b>	26	27	3	165	485	650	
FIFTH SEMESTER							
Core Paper IX-Real Analysis-I	4	5		25	75	100	
Core Paper X- Complex Analysis-I	4	6		25	75	100	
Core Paper XI- Modern Algebra-I	4	6		25	75	100	
Core Paper XII- Discrete Mathematics	4	5		25	75	100	
Elective I	3	5		20	55	75	
Skill based Subject - Operations Research Paper III	3	3		20	55	75	
<b>Total</b>	22	30		140	410	550	
SIXTH SEMESTER							
Core Paper XIII Real Analysis-II	4	5		25	75	100	
Core Paper XIV Complex Analysis-II	4	6		25	75	100	
Core Paper XV Modern Algebra-II	4	6		25	75	100	
Elective II	3	5		20	55	75	
Elective III	4	5		25	75	100	
Skill Based Subject - Operations Research Paper IV	3	3		20	55	75	
Extension Activities @ / Swachh Bharath***	2	-		50	-	50	
<b>Total</b>	24	30		190	410	600	
<b>Grand Total</b>	140	177	3	885	2615	3500	
<b>**All computer papers have theory and practical exams</b>							
<b>Theory</b>				20	55		
<b>Practical's</b>				10	15		100

@ No University Examinations. Only Continuous Internal Assessment (CIA)  
# No Continuous Internal Assessment (CIA). Only University Examinations. \*\*\* Swachh Bharath Internship Scheme (SBIS) is to be added for 2 credits in the extension activities.

**Allied Subjects (Colleges can choose any two subjects)**

1.Physics 2.Chemistry 3.Accountancy 4.Statistics.

**List of Elective papers**

(Colleges can choose any one of the paper as electives)

Elective – I	A	Astronomy- I
	B	Numerical -Methods-I
Elective – II	A	Astronomy—II
	B	Numerical Methods-II
Elective – III	A	Graph Theory
	B	Automata Theory & Formal Languages
	C	Programming in C++**
	D	Number Theory
	E	Introduction to Industry 4.0 *

\*Syllabus added from 2020-2021

