



BON SECOURS COLLEGE FOR WOMEN (AUTONOMOUS)

Accredited with A++ Grade by NAAC in Cycle II
Affiliated to Bharathidasan University, Tiruchirappalli
UGC Recognized 2(f) and 12(B) Institution

VILAR BYPASS, THANJAVUR - 613 006, TAMIL NADU

Programme: B.Sc., Mathematics

Semester wise Distribution of Courses, Credit, Marks and Contact Hours

Sem	Part	Course Type	Course Code	Course Title	Contact Hrs.	Credits	Marks		Total Marks
							Int.	Ext.	
I	I	Language Tamil	24UGT101	Tamil Ilakkiya Varalaru – I	6	3	25	75	100
	II	English	24UGE201	General English – I	6	3	25	75	100
	III	Generic/Cluster Core I	24UMS401	Differential Calculus & Trigonometry	5	4	25	75	100
		Generic/Cluster Core II	24UMS402	Integral Calculus	5	4	25	75	100
		Allied Course I	24UCS301	C Programming	4	3	25	75	100
		Allied Laboratory I	24UCS351	C Programming Lab	2	-	-	-	-
	IV	Foundation Course	24UFO901	Value Education	2	2	25	75	100
Total					30	19	-	-	600
II	I	Language Tamil	24UGT102	Tamil Illakkiya Varalaru – II	6	3	25	75	100
	II	English	24UGE202	General English – II	6	3	25	75	100
	III	Generic/Cluster Core III	24UMS403	Analytical Geometry 3D	5	4	25	75	100
		Generic/Cluster Core IV	24UMS404	Vector Calculus & Fourier Series	5	4	25	75	100
		Allied Course II	24UCS302	Principles of Information Technology	4	3	25	75	100
		Allied Laboratory I	24UCS351	C Programming Lab	2	2	40	60	100
			24UMA591	Field Work	-	2	40	60	100
IV	Foundation Course	24UFC905	Environmental Studies	2	2	25	75	100	
Total					30	23	-	-	800
III	I	Language Tamil	24UGT103	Tamilaga Varalarum Panpadum	6	3	25	75	100
	II	English	24UGE203	General English – III	6	3	25	75	100
	III	Generic/Cluster Core V	24UMS405	Differential Equations & Laplace Transforms	4	4	25	75	100
		Discipline Centric Core I	24UMA501	Sequences and Series	4	4	25	75	100
		Discipline Centric Core II	24UMA502	Classical Algebra and Theory of Numbers	4	4	25	75	100
		Allied Course III	24UMA313	Statistics I	3	3	25	75	100
	IV	Ability Enhancement I	24UAB361	Life Skills Management	2	2	25	75	100
V		24UHW951	Health & Wellness	1	1	-	-	100	

Total					30	24	-	-	800	
IV	I	Language Tamil	24UGT104	Tamilum Ariviyalum	6	3	25	75	100	
	II	English	24UGE204	General English – IV	6	3	25	75	100	
	III	Discipline Centric Core III	24UMA503	Abstract Algebra	4	4	25	75	100	
		Discipline Centric Core IV	24UMA504	Graph Theory	4	4	25	75	100	
		Allied Course IV	24UMA314	Statistics II	4	3	25	75	100	
		Allied Laboratory II	24UMA358	Statistical Package Lab	4	2	40	60	100	
			24UMA592	Internship	-	2	40	60	100	
IV	Ability Enhancement II	24UAB371	Soft and Quantitative Skills	2	2	25	75	100		
Total					30	23	-	-	800	
V	III	Discipline Centric Core V	24UMA505	Numerical Analysis	5	4	25	75	100	
		Discipline Centric Core VI	24UMA506	Real Analysis	5	4	25	75	100	
		Discipline Centric Core VII	24UMA507	Operations Research	5	4	25	75	100	
		Core Laboratory I	24UMA551	Numerical Methodswith MATLAB Programming	4	2	40	60	100	
		Discipline Centric Elective I	-	Choose a knowledge course from any one track	5	4	25	75	100	
		Discipline Centric Elective Laboratory I	-	Choose a skill course from the selected track	4	2	40	60	100	
	IV	Ability Enhancement III	24UMA381	Introduction to LaTeX	2	2	40	60	100	
Total					30	22	-	-	700	
VI	III	Discipline Centric Core VIII	24UMA508	Linear Algebra	4	4	25	75	100	
		Discipline Centric Core IX	24UMA509	Complex Analysis	4	4	25	75	100	
		Core Laboratory II	24UMA552	Linear Algebra Lab	4	2	40	60	100	
		Generic/Cluster Elective I	-	Choose any one course from the generic elective	4	4	25	75	100	
		Discipline Centric Elective II	-	Choose a professional course from the selected track	4	4	25	75	100	
				24UMA593	Project	7	5	40	60	100
		Open (Interdisciplinary) Elective I	-	Courses offered by Mathematics department to the other department students	3	3	25	75	100	
Total					30	26	-	-	700	
V				Co-curricular Activities	-	1			-	
				Extra-curricular Activities	-	1			-	
				Extension Activities	-	1			-	
					-	3			-	

TOTAL CREDITS: 19 + 23 + 24 + 23 + 22 + 26 + 3 = **140 Credits**

TOTAL MARKS: 600 + 800 + 800 + 800 + 700 + 700 = **4400 Marks**

Elective Courses (Optional)

Generic/Cluster Elective: (Choose any one Course)

1. 24UMS601: Number Theory
2. 24UMS602: Mechanics
3. 24UMS603: Probability
4. 24UMS604: Astronomy

Discipline Centric Elective Courses: (Select any one Track)

Track 5: Higher Studies (M.Sc., Mathematics)

1. 24UMA701: Fuzzy Mathematics
2. 24UMA751: Mathematical Modelling
3. 24UMA702: Stochastic Processes

Track 6: Higher Studies (M.Sc., Data Science)

1. 24UMA703: Foundations of Data Science
2. 24UMA752: Practical Data Science
3. 24UMA704: Applied Computation

Track 7: Employment: (Banking/Competitive Examinations)

1. K: 24UMA705: Banking & Finance
2. S: 24UMA753: Quantitative Aptitude
3. P: 24 UMA706: Financial Mathematics

Track 8: Employment: (IT Sector)

1. K: 24UMA707: Programming with C++ and Python
2. S: 24UMA754: Programming with C++ and Python Lab
3. P: 24UMA708: Web Development

Track 9: Teaching: (B.Ed.)

1. K: 24UGP791: Educational Psychology
2. S: 24UMA755: Teaching of Mathematics
3. P: 24UGL792: Teaching, Learning and Assessment

Track 10: Entrepreneurship

1. K: 24UMA709: Upskilling
2. S: 24UMA756: Incubation
3. P: 24UMA710: Start-up

**** K: Knowledge; S: Skill; P: Professional**

Open Inter Disciplinary: (Choose any one Course)

1. 24UMA801: Math for Data Science
2. 24UMA802: Math for Competitive Examinations
3. 24UMA803: Mathematics in Industry
4. 24UMA804: Mathematics in the Modern World