

B.Sc., Mathematics (Students admitted from 2018 - 2019 Onwards)

SCHEME OF EXAMINATION

Subject Code	Subject	Hours of Instruction	Exam Duration	Max. Marks			Credit Points
				CA	CE	Total	
First Semester							
Part I							
18UTALA101/ 18UHILA101/ 18UFRLA101	Tamil I/ Hindi I/ French I	5	3	25	75	100	3
Part II							
18UENLA101	Foundation English - I	5	3	25	75	100	3
Part III							
18UMAM101	Core I : Classical Algebra	6	3	25	75	100	4
18UMAM102	Core II : Differential Calculus	5	3	25	75	100	4
18UPHMAA101	Allied I : Physics I	4	3	25	75	100	2
18UPHMAAP101	Allied Practical I : Physics I	3	3	40	60	100	2
Part IV							
18UVE101	Value Education I : Yoga	2	3	25	75	100	2
Total		30				700	20
Second Semester							
Part I							
18UTALA201/ 18UHILA201/ 18UFRLA201	Tamil II/ Hindi II/ French II	5	3	25	75	100	3
Part II							
18UENLA201	Foundation English - II	5	3	25	75	100	3
Part III							
18UMAM201	Core III: Integral Calculus	6	3	25	75	100	4
18UMAM202	Core IV: Differential Equations and Laplace Transforms	5	3	25	75	100	4
18UPHMAA201	Allied II: Physics II	4	3	25	75	100	2
18UPHMAAP201	Allied Practical II: Physics II	3	3	40	60	100	2
Part IV							
18UVE201	Value Education II : Environmental Studies	2	3	25	75	100	2
Total		30				700	20

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Third Semester							
Part I							
18UTALA301/ 18UHILA301 / 18UFRLA301	Tamil III/ Hindi III/ French III	5	3	25	75	100	3
Part II							
18UENLA301	Foundation English- III	5	3	25	75	100	3
Part III							
18UMAM301	Core V: Analytical Geometry of 2D and 3D	5	3	25	75	100	4
18UMAM302	Core VI: Statics and Dynamics	5	3	25	75	100	4
18UMAA301	Allied III : Mathematical Statistics I	3	3	25	75	100	2
18UMAAP301	Allied Practical III: Statistical Package (Ms-Excel)	2	3	40	60	100	2
Part IV							
18UMASB301	SBC I: Quantitative Aptitude - 100% Internal Evaluation	2	3	100	-	100	2
18UMANM301	NMEC I	2	3	25	75	100	2
Non Credit							
18ULS301	Career Competency Skills I	1	-	-	-	-	-
	Add-on Course *	-	-	-	-	-	-
Total		30				800	22
Fourth Semester							
Part I							
18UTALA401/ 18UHILA401 / 18UFRLA401	Tamil IV/ Hindi IV/ French IV	5	3	25	75	100	3
Part II							
18UENLA401	Foundation English -IV	5	3	25	75	100	3
Part III							
18UMAM401	Core VII: Applications of integration and Vector Calculus	5	3	25	75	100	4
18UMAM402	Core VIII: Sequences and Series	5	3	25	75	100	4
18UMAA401	Allied IV: Mathematical Statistics II	3	3	25	75	100	2
18UMAAP401	Allied Practical IV: Statistical Software (SPSS)	2	3	40	60	100	2
Part IV							
18UMASB401	SBC II : Statistics for Competitive Exams - 100% Internal Evaluation	2	3	100	-	100	2
18UMANM401	NMEC II	2	3	25	75	100	2
Non Credit							
18ULS401	Career Competency Skills II	1	-	-	-	-	-
	Add-on Course *	-	-	-	-	-	-
Total		30				800	22

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Fifth Semester							
Part III							
18UMAM501	Core IX: Abstract Algebra	6	3	25	75	100	5
18UMAM502	Core X: Real Analysis I	6	3	25	75	100	5
18UMAM503	Core XI: Operations Research	6	3	25	75	100	5
18UMAM504	Core XII: Programming in C	3	3	25	75	100	3
	Elective I	4	3	25	75	100	4
18UMAMP501	Core Practical I: Programming in C	2	3	40	60	100	2
Part IV							
18UMASB501	SBC III: Mathematics for Competitive Exams- I (100% Internal Evaluation)	2	3	100	-	100	2
Part V							
18UMAE501	Extension Activity	-					2
Non Credit							
18ULS501	Career Competency Skills III	1	-	-	-	-	-
	Total	30				700	28
Sixth Semester							
Part III							
18UMAM601	Core XIII: Linear Algebra (Fifth Unit as Self-Study)	5	3	25	75	100	5
18UMAM602	Core XIV: Real Analysis II	6	3	25	75	100	5
18UMAM603	Core XV: Complex Analysis	5	3	25	75	100	5
18UMAM604	Core XVI: Numerical Methods	5	3	25	75	100	5
	Elective II	4	3	25	75	100	4
18UMAMP601	Core Practical II: Sci Lab	2	3	40	60	100	2
Part IV							
18UMASB601	SBC IV: Mathematics for Competitive Exams- II (100% Internal Evaluation)	2	3	-	100	100	2
Non Credit							
18ULS601	Career Competency Skills IV	1	-	-	-	-	-
		30				700	28
Grand Total						4400	140

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ELECTIVE -I

(Student shall select any one of the following subject as Elective in fifth semester)

S.No	Subject Code	Name of the Subject
1.	18UMAEL501	Discrete Mathematics
2.	18UMAEL502	Graph Theory

ELECTIVE - II

(Student shall select any one of the following subject as Elective in sixth semester)

S.No	Subject Code	Name of the Subject
1.	18UMAEL601	Number Theory
2.	18UMAEL602	Optimization Techniques

NON MAJOR ELECTIVE COURSE

The department offering the following Non Major Elective Course for other than Mathematics students.

S.No	Subject Code	Name of the Subject
1	18UMANM301	Quantitative Aptitude.
2	18UMANM401	Basic Statistics.

ADD-ON COURSE

If Students want to get a Degree with additional skills, they can do Add-on Courses offered by the Department. The Add-on Courses offered by the Department are listed below.

S.No	Subject Code	Name of the Subject
1	18UMAAC301	Data Analysis Using R-Software.
2	18UMAAC401	Numerical Computations Using MatLab.

ADVANCED LEARNERS COURSE (ALC)

ALC to be introduced in the 4th and 5th semester.

If Students want to get a Degree with additional credits, they can do Advanced Learners Courses offered by the Department. The available advanced learners courses are listed below.

S.No	Subject Code	Name of the Subject
1	18UMAAL401	Index Numbers & Time Series Analysis.
2	18UMAAL402	Theory of Numbers & Inequalities.
3	18UMAAL501	Astronomy
4	18UMAAL502	Mathematical Modeling

TOTAL CREDIT DISTRIBUTION

Subjects	Total	Credits
Part - I Tamil	4 X 100 = 400	12
Part - II English	4 X 100 = 400	12
Part - III Core	16 X 100 = 1600	70
Part - III Elective	2X100 = 200	08
Part - III Core Practical	2 X 100 = 200	04
Part - III Allied	4 X 100 = 400	08
Part - III Allied Practical	4 X 100 = 400	08
Part - IV NMEC	2X100 = 200	04
Part - IV SBC	4X100 = 400	08
Part - IV Other Courses (YOGA, EVS)	1 X 100 = 100 1 X 100 = 100	02 02
Part - V Extension Activity		02
Total	4400	140

FOR COURSE COMPLETION

Student shall complete:

- Language papers (Tamil/Hindi/French and English) in I, II, III and IV semesters.
- Value Education Yoga and Environmental Studies in I and II Semester.
- Non Major Elective Course in III and IV semesters.
- Skill Based Course in III, IV, V and VI semesters.
- Extension activity in V semester.