SURESH GYAN VIHAR UNIVERSITY
Accredited by NAAC with 'A+' Grade

SCHOOL OF APPLIED SCIENCES
Teaching and Examination Scheme for
M.Sc. Mathematics
EFFECTIVE FROM ACADEMIC SESSION 2026-27

Year: I **Semester: I AUTUMN/PAVAS**

S. No.	Course Code	Course Name	Course type	Credits	Contact Hrs/Wk.			Exam Hrs.	Weightage (in%)	
					L	T/S	P		CIE	ESE
A	**University Core**									
1	SODECA-IX	Social Outreach, Discipline & Extra Curriculum Activities (AECC)	AECC	2	0	0	0	0	100	-
B	**Program Core**									
1	MA9001	Algebra I	DCC	4	4	0	0	4	40	60
2	MA9002	Real Analysis	DCC	4	4	0	0	4	40	60
3	MA9003	Differential Equation	DCC	4	4	0	0	4	40	60
4	MA9004	Calculus of variation & Special Function I	DCC	4	4	0	0	4	40	60
5	MA9005	Numerical Analysis	DCC	4	4	0	0	4	40	60
6	MA9006	Latex Lab	DCC	2	0	0	3	2	40	60
		TOTAL		**24**						

NOTE: The University Electives are apart from minimum credits required for award of degree.

L= Lecture	**T=Tutorial**	**CIE=Continuous Internal Evaluation**
S= Seminar	**P= Practical**	**ESE= End Semester Examination**

Signature of Concerned Teacher **Signature of Convener-BOS**

Signature of Member Secretary

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SCHOOL OF APPLIED SCIENCES
Teaching and Examination Scheme for
M.Sc. Mathematics
EFFECTIVE FROM ACADEMIC SESSION 2026-27

Year: I **Semester: II SPRING/BASANT**

S. No.	Course Code	Course Name	Course type	Credits	Contact Hrs/Wk			Exam Hrs.	Weightage (in%)	
					L	T/S	P		CIE	ESE
A	**University Core**									
1	SODECA-X	Social Outreach, Discipline & Extra Curriculum Activities (AECC)	AECC	2	0	0	0	0	100	
B	**Program Core**									
1	MAX001	Algebra II	DCC	4	3	0	0	3	40	60
2	MAX002	Topology	DCC	4	3	0	0	3	40	60
3	MAX003	Special Function II	DCC	4	3	0	0	3	40	60
5	MAX004	Integral Transform	DCC	4	0	0	3	3	40	60
6	MAX005	Computational Mathematics using Python	SEC	2	0	0	3	3	40	60
7	MAXOO6	Research Methodology & Technical Writing	GEC	2	0	0	3	3	40	60
		Total		**22**						

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EFFECTIVE FROM ACADEMIC SESSION 2026-27

Year: II **Semester: III Autumn/PAVAS**

S. No	Course Code	Course Name	Course type	Credits	Contact Hrs/Wk.			Exam Hrs.	Weightage (in%)	
					L	T/S	P		CIE	ESE
A		**University Core**								
1	SODECA-XI	Social Outreach, Discipline & Extra Curriculum Activities (AECC)	AECC	2	0	0	0	0	100	
B		**Program Core**								
1	MAY001	Functional Analysis	DCC	4	4	0	0	3	40	60
2	MAY002	Complex Analysis	DCC	4	4	0	0	3	40	60
3	MAY003	Integral Equation	DCC	4	4	0	0	3	40	60
4	MAY004	Riemannian Geometry and Tensor Analysis	DCC	4	4	0	0	3	40	60
5	MAY005	Mathematical Modelling	GEC	2	0	0	2	3	40	60
6	MAY006	Basic Programming in MATLAB	SEC	2	0	0	3	3	40	60
C		**Program elective (any one)**								
1	MAY007	Mathematical Programming	DSE	3	3	0	0	3	40	60
2	MAY008	Relativity and Cosmology	DSE	3	3	0	0	3	40	60
3	MAY009	Fluid Dynamics	DSE	3	3	0	0	3	40	60
5	MAY0010	Hydrodynamics	DSE	3	3	0	0	3	40	60
6	MAYMOC1	MOOC (through SWAYAM/NPTEL etc) *Under Credit Transfer Scheme*	DSE/GSE	3	3	0	0	3	40	60
D		**University/Open Elective**								
		Opt from the list of University Electives								
		Total		**25**						

NOTE: The University Electives are apart from minimum credits required for award of degree.

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M.Sc. Mathematics
EFFECTIVE FROM ACADEMIC SESSION 2026-27

Year: II **Semester: IV Spring/BASANT**

S. No.	Course Code	Course Name	Course type	Credits	Contact Hrs/Wk.			Exa m Hrs.	Weightage (in%)	
					L	T/ S	P		CIE	ESE
A		**Program Core**								
1	MAZ001	Dissertation	DPR	12	0	0	3	3	-	100
		Total		**12**						

NOTE: The University Electives are apart from minimum credits required for award of degree.

L= Lecture **T=Tutorial** **CIE=Continuous Internal Evaluation**

S= Seminar **P= Practical** **ESE= End Semester Examination**

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DCC- DCC-Discipline Core Courses, AECC-Ability Enhancement Compulsory Courses, DPR-Dissertation/Project/Field Study SEC- Skill Enhancement Course DSE -Discipline Specific Elective GE - Generic Elective AECC

M.Sc. Mathematics (2 Year Course) 2025-2026

Type of Course	**No. of courses in the proposed scheme**	**No. of credits**	**Minimum Requirement of no. of Credits for M.Sc Degree**
AECC	3	6	
DCC	14 (Th + Lab)	52+2	
DSE	2	6	
SEC	2	4	
GEC	2	4	
DPR	1	12	
Total Credits		**88**	**80 (Minimum)**

PROGRAMME STRUCTURE FOR M.Sc Mathematics (2 yr course)

Semester	Discipline Core Courses (Credits) (T+P=3+2; T=3)	Generic Elective Course/Discipline specific Elective (3)	University Core courses	Ability Enhancement compulsory Courses	Skill Enhancement Courses		Total Credits
					Skill based	Value added (Credits) L+T+P	
I	**1.** MA9001- Algebra I (4) **2.** MA9002-Real Analysis (4) **3.** MA9003-Differential Equation (4) **4.** MA9004-Calculus of variation & Special Function I (4) **5.** MA9005- Numerical Analysis (4) **6.** MAX9006- Latex Lab (2)			SODECA-IX Social Outreach, Discipline & Extra Curriculum Activities (AECC)			24
II	**1.** MAX001-Algebra II (4) **2.** MAX002-Topology (4) **3.** MAX003-Special Function II (4) **4.** MAX004-Integral Transform (4)	1. MAX006Research Methodology& Technical Writing(2)		SODECA-X Social Outreach, Discipline & Extra Curriculum Activities (AECC)	1.MAX005Computational Mathematics using Python(2)		22
Exit option with PG Diploma in Mathematics (with completion of courses equal to a minimum of 44 credits)							

III	**1.** MAY001-Functional Analysis (4) **2.** MAY002- Complex Analysis (4) **3.** MAY003-Integral Equation (4) **4.** MAY004-Riemannian Geometry and Tensor Analysis (4)	1. MAY005 Mathematical Modeling (2) **DSE Course (any one)- 3 credits:** **1.** MAY007- Mathematical Programming **2.** MAY008- Relativity and Cosmology **3.** MAY009- Fluid Dynamics **4.** MAY0010- Riemannian Geometry and Tensor Analysis **5.** MAYMOC1- MOOC (through SWAYAM/NPTEL etc) *Under Credit Transfer Scheme*		SODECA-XI Social Outreach, Discipline & Extra Curriculum Activities (AECC)	1. MAY006 Basic Programming in MATLAB (2)	-	25
IV	MAZ001- Dissertation/ Project work (12 Credits)		-	-	-	-	20
Award of M. Sc in Mathematics (with completion of courses equal to a minimum of 86 credits)							