

**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**

**B.SC MATHEMATICS**

**COURSES OF STUDY AND SCHEME OF ASSESSMENT**

**CREDITS: 140**

**SEMESTER 1**

Code No.	Course	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial 1	Practical		CA	SEE	Total
LANG	Tamil I/ Hindi / French	5	0	0	5	40	60	100
ENG	English I	5	0	0	5	40	60	100
CORE	Algebra & Trigonometry	4	0	0	4	40	60	100
CORE	Differential Calculus	4	0	0	4	40	60	100
CORE	Physics	4	0	0	4	40	60	100
CORE	Physics Practical	0	0	2	1	40	60	100
		22	0	2	23			

**SEMESTER 2**

Code No.	Course	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	SEE	Total
LANG	Tamil II / Hindi / French	5	0	0	5	40	60	100
ENG	English II	5	0	0	5	40	60	100
CORE	Analytical Geometry	4	0	0	4	40	60	100
CORE	Integral Calculus	4	0	0	4	40	60	100
CORE	Statistics & Probability	4	0	0	4	40	60	100
		22	0	0	22			

CA - Continuous Assessment

SEE - Semester End Examination

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**SEMESTER 3**

		Hours/Week				Maximum Marks		
Code No.	Course	Lecture	Tutorial	Practical	Credits	CA	SEE	Total
LANG	Tamil III / Hindi / French	5	0	0	5	40	60	100
ENG	English - III	5	0	0	5	40	60	100
CORE	Fourier Series & Transforms	4	0	0	4	40	60	100
CORE	Differential Equations	4	0	0	4	40	60	100
CORE	Computer Fundamentals & Programming In C	3	0	0	3	40	60	100
CORE	Practical	0	0	2	1	40	60	100
SEC	Soft Skill - I	2	0	0	2	40	60	100
		23	0	2	24			

**SEMESTER 4**

		Hours/Week				Maximum Marks		
Code No.	Course	Lecture	Tutorial	Practical	Credits	CA	SEE	Total
LANG	Tamil IV / Hindi / French	5	0	0	5	40	60	100
ENG	English IV	5	0	0	5	40	60	100
CORE	Statics	4	0	0	4	40	60	100
CORE	Discrete Mathematics	4	0	0	4	40	60	100
CORE	Numerical Analysis	4	0	0	4	40	60	100
CORE	Numerical Analysis Practical	0	0	2	1	40	60	100
AECC	Environmental Studies	2	0	0	2	40	60	100
SEC	Soft Skill - II	2	0	0	2	40	60	100
		26	0	2	27			

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**SEMESTER 5**

		Hours/Week				Maximum Marks		
Code No.	Course	Lecture	Tutorial	Practical	Credits	CA	SEE	Total
DSE	Discipline Specific Elective – I (Algebraic Structure)	4	0	0	5	40	60	100
DSE	Discipline Specific Elective – II (Advanced Calculus)	4	0	0	5	40	60	100
DSE	Discipline Specific Elective – III (Dynamics)	4	0	0	5	40	60	100
DSE	Discipline Specific Elective – IV (Operations Research)	4	0	0	4	40	60	100
GE		3	0	0	2	40	60	100
SEC	NSS	2	0	0	2	40	60	100
		21	0	0	23			

**SEMESTER 6**

		Hours/Week				Maximum Marks		
Code No.	Course	Lecture	Tutorial	Practical	Credits	CA	SEE	Total
DSE	Discipline Specific Elective – V (Linear Algebra)	4	0	0	4	40	60	100
DSE	Discipline Specific Elective – VI (Real Analysis)	4	0	0	5	40	60	100
DSE	Discipline Specific Elective - VII (Complex Analysis)	4	0	0	4	40	60	100
DSE	Discipline Specific Elective - VII (Graph Theory))	4	0	0	4	40	60	100
GE		3	0	0	2	40	60	100
SEC/VAC	Value Added Course	2	0	0	2	40	60	100
		21	0	0	21			

CA - Continuous Assessment  
 SEE - Semester End Examination