

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## M. Sc.(APPLIED MATHEMATICS) Specialization – Computer Science

## SEMESTER - I

S.No.	Subject Code	Subject	Hours per Week			Credits		Th.	CW	SW	Pr.	Total
			L	T	P	T	P					
1	MA94105	Computer Aided Numerical Analysis	4	-	-	4	-	70	30	-	-	100
2	MA94106	Computer Architecture	4	-	-	4	-	70	30	-	-	100
3	<b>MA94109</b>	<b>Ordinary &amp; Partial Differential Equations</b>	4	-	-	4	-	70	30	-	-	100
4	MA94108	Advanced Discrete Mathematics	4	-	-	4	-	70	30	-	-	100
5	MA94173	Computer Lab.-I	-	-	8	-	4	-	-	40	60	100
6	MA94174	Computer Lab.-II	-	-	8	-	4	-	-	40	60	100
7	MA94198	Comprehensive Viva	-	-	-	-	4	-	-	-	100	100
<b>Total</b>			16	0	16	16	12	280	120	80	220	700

## SEMESTER - II

S.No.	Subject Code	Subject	Hours per Week			Credits		Th.	CW	SW	Pr.	Total
			L	T	P	T	P					
1	MA94205	Mathematical Theory of Computation	4	-	-	4	-	70	30	-	-	100
2	MA94206	Data Processing and Computation	4	-	-	4	-	70	30	-	-	100
3	MA94207	Operations Research	4	-	-	4	-	70	30	-	-	100
4	MA94208	Real and Complex Analysis	4	-	-	4	-	70	30	-	-	100
5	MA94273	Computer Lab.-I	-	-	8	-	4	-	-	40	60	100
6	MA94274	Computer Lab.-II	-	-	8	-	4	-	-	40	60	100
7	MA94298	Comprehensive Viva.	-	-	-	-	4	-	-	-	100	100
<b>Total</b>			16	0	16	16	12	280	120	80	220	700

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## SEMESTER - III

S.No.	Subject Code	Subject	Hours per Week			Credits		Th.	CW	SW	Pr.	Total
			L	T	P	T	P					
1	MA94303	Functional Analysis and Integral Equations	4	-	-	4	-	70	30	-	-	100
2	MA94304	Object Oriented Programming Systems	4	-	-	4	-	70	30	-	-	100
3		Elective I	4		-	4	-	70	30	-	-	100
4		Elective II	4	-	-	4	-	70	30	-	-	100
5	MA94389	Computer Lab.-I	-	-	8	-	4	-	-	40	60	100
6	MA94390	Computer Lab.-II	-	-	8	-	4	-	-	40	60	100
7	MA94398	Quiz/Assignment / Seminar - III	-	2	-	-	2	-	-	50	-	50
8	MA94399	Comprehensive Viva	-	-	-	-	4	-	-	-	50	50
<b>Total</b>			16	2	16	16	14	280	120	130	170	700

## SEMESTER - IV

S.No.	Subject Code	Subject	Hours per Week			Credits		Theory Marks	
			L	T	P	T	P	CW/SW	END
1	MA94499	Dissertation	-	-	44	-	26	120	180
<b>Total</b>			-	-	44	-	26	120	180

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE****M. Sc.(APPLIED MATHEMATICS) Specialization – Computer Science****Semester III**

Elective I		
S.No.	Subject Code	Subject
1		Algebraic Coding Theory
2		Computational Fluid Dynamics
3		Digital Signal Processing
4	MA94352	Statistical Quality Control, Stochastic Process & Reliability
5	<b>MA94353</b>	<b>Regression Analysis for Data Science</b>

Elective II		
S.No.	Subject Code	Subject
1		Design & Analysis of Algorithm
2	MA94371	Mathematical & Statistical Modelling
3		Splines & Wavelet Analysis
4		Theory of Elasticity