

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

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

## SEMESTER - I

S. No.	Sub. Code	Subject	Hours per Week			Credits		Th.	CW	SW	Pr.	Total
			L	T	P	T	P					
1	MA 94105	Computer Aided Numerical Analysis	4	-	-	4	-	70	30	-	-	100
2	MA 94106	Computer Architecture	4	-	-	4	-	70	30	-	-	100
3	MA94109	Ordinary & Partial Differential Equations	4	-	-	4	-	70	30	-	-	100
4	MA 94108	Advanced Discrete Mathematics	4	-	-	4	-	70	30	-	-	100
5	MA 94173	Computer Lab.-I	-	-	8		4	-	-	40	60	100
6	MA 94174	Computer Lab.-II	-	-	8		4	-	-	40	60	100
7	MA 94198	Comprehensive Viva	-	-	-		4	-	-		100	100
Total			16	0	16	16	12	280	120	80	220	700

## SEMESTER - II

S. No.	Sub. Code	Subject	Hours per Week			Credits		Th.	CW	SW	Pr.	Total
			L	T	P	T	P					
1	MA 94205	Mathematical Theory of Computation	4	-	-	4	-	70	30	-	-	100
2	MA 94206	Data Processing and Computation	4	-	-	4	-	70	30	-	-	100
3	MA 94207	Operations Research	4	-	-	4	-	70	30	-	-	100
4	MA 94208	Real and Complex Analysis	4	-	-	4		70	30	-	-	100
5	MA 94273	Computer Lab.-I	-	-	8		4	-	-	40	60	100
6	MA 94274	Computer Lab.-II	-	-	8		4	-	-	40	60	100
7	MA 94298	Comprehensive Viva.	-	-	-		4	-	-		100	100
Total			16	0	16	16	12	280	120	80	220	700

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## SEMESTER - III

S. No.	Sub. 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
Total			16	2	16	16	14	280	120	130	170	700

## SEMESTER - IV

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

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## Semester III

Elective I		
S.No.	Sub. Code	Subject
1		Algebraic Coding Theory
2		Computational Fluid Dynamics
3		Digital Signal Processing
4	MA94352	Statistical Quality Control, Stochastic Process & Reliability

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