

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

### I.M.E. INFORMATION TECHNOLOGY

#### SEMESTER - I

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	MA78001	Mathematical Foundation of Computer Science	3	-	-	3	-	70	30	-	-	100
1	IT78002	Advanced Data Structure	3	-	-	3	-	70	30	-	-	100
2	IT78003	Advanced Computer Networks	3	-	-	3	-	70	30	-	-	100
3		Elective I	3	-	-	3	-	70	30	-	-	100
4		Elective II	3	-	-	3	-	70	30	-	-	100
6	IT78451	Laboratory. – I	-	-	4	-	2	-	-	40	60	100
7	IT78452	Laboratory. – II	-	-	4	-	2	-	-	40	60	100
8	IT78500	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	0	8	15	4	350	150	80	120	700

#### SEMESTER - II

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	IT78501	Advanced Algorithms	3	-	-	3	-	70	30	-	-	100
2	IT78502	Soft Computing	3	-	-	3	-	70	30	-	-	100
3		Elective III	3	-	-	3	-	70	30	-	-	100
4		Elective IV	3	-	-	3	-	70	30	-	-	100
5		Elective V	3	-	-	3	-	70	30	-	-	100
6	IT78851	Laboratory. – III	-	-	4	-	2	-	-	40	60	100
7	IT78852	Laboratory. – IV	-	-	4	-	2	-	-	40	60	100
8	IT78881	Seminar	-	-	2	-	1	-	-	100	-	100
9	IT78900	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			15	0	10	15	5	350	150	180	120	800

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**  
**I M.E. INFORMATION TECHNOLOGY**

List of Electives

Elelective I		Semester I
S. No.	Sub. Code	Subject
1	IT78202	Advanced Databases
2	IT78201	Cloud Computing
3	IT78203	Data Encryption and Compression
4	IT78204	Artificial Intelligence

Elelective II		Semester I
S. No.	Sub. Code	Subject
1	IT78301	Data Mining and Data Warehousing
2	IT78302	Internet and Web Technology
3	IT78303	Digital Forensics

Elelective III		Semester II
S. No.	Sub. Code	Subject
1	IT78701	Big Data Analytics
2	IT78702	Wireless Networks
3	IT78703	Secure Coding

Elelective IV		Semester II
S. No.	Sub. Code	Subject
1	IT78751	Machine Learning
2	IT78752	Cyber Security and IT Laws
3	IT78753	Information Retrieval

Elelective V		Semester II
S. No.	Sub. Code	Subject
1	IT78771	Internet of Things
2	IT78772	Stenography and Digital Watermarking
3	IT78773	Human Computer Interaction

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### II M.E. INFORMATION TECHNOLOGY

#### SEMESTER - III

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				Total
			L	T	P			TH	CW	SW	Pr.	
1	<b>IT78932</b>	<b>Dissertation Phase-I</b>	-	-	<b>20</b>	-	<b>10</b>	-	-	<b>40</b>	<b>60</b>	100
2	<b>MA78902</b>	<b>**Research Methodology &amp; IPR</b>	<b>2</b>	-	-	<b>2</b>	-	<b>70</b>	<b>30</b>	-	-	100
3	<b>IT78931</b>	<b>*Industrial Training</b>	-	-	-	-	<b>4</b>	-	-	<b>50</b>	-	50
Total			2	0	20	2	10	70	30	90	60	250

\* Industrial training to be carried out between II and III semester during vacation

\*\* This course can be studied online with prior permission of HOD, however, End-semester examination will be conducted in the Institute.

#### SEMESTER - IV

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				Total
			L	T	P			TH	CW	SW	Pr.	
1		<b>Dissertation Phase-II</b>	-	-	<b>32</b>	-	<b>16</b>	-	-	<b>80</b>	<b>120</b>	200
Total			0	0	32	0	16	0	0	80	120	200