

Shri G. S. INSTITUTE OF TECHNOLOGY AND SCIENCE, INDORE
 Choice Based Grading System (CBGS)
 Bachelor of Technology (Information Technology)
Semester : I

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1	MA10001	BSC	Mathematics – I	3	1	0	70	30	0	0	4	0	4
2	PH10002	BSC	Physics	3	1	2	70	30	30	20	4	1	5
3	CE10003	ESC	Fundamentals of Civil Engineering	3	0	2	70	30	30	20	3	1	4
4	ME10149	ESC	Engineering Graphics	2	0	4	70	30	60	40	2	2	4
5	EE10005	ESC	Fundamentals of Electrical Engineering	3	0	2	70	30	30	20	3	1	4
6	CH10200	MC	Environmental Science	0	1	2	0	0	0	100	0	0	0
Total				14	3	12	350	150	150	200	16	5	21

Induction program of three week duration in July-Aug

Head IT

Shri G. S. INSTITUTE OF TECHNOLOGY AND SCIENCE, INDORE
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Semester : II

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1	MA10501	BSC	Mathematics – II	3	1	0	70	30	0	0	4	0	4
2	CH10506	BSC	Chemistry	3	1	2	70	30	30	20	4	1	5
3	HU10651	HSMC	Technical English	3	0	2	70	30	30	20	3	1	4
4	CO10504	ESC	Computer Programming	3	0	2	70	30	30	20	3	1	4
5	ME10649	ESC	Fundamentals of Mechanical Engineering	3	0	2	70	30	30	20	3	1	4
6	IP10581	ESC	Manufacturing Practices	0	1	4	0	0	60	40	0	3	3
8	HU10700*	MC	Universal Human Values	2 Hrs. Per week working saturday						100	0	0	0
Total				15	3	12	350	150	180	220	17	7	24

*Mandatory Non credit course. PASS/FAIL status will appear in Marksheet

Head IT

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Semester : III

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1	IT28001	PCC	Object Oriented Programming	3	-	2	70	30	60	40	3	1	4
2	EC28006	ESC	Analog Electronics	3	-	2	70	30	60	40	3	1	4
3	IT28007	ESC	Digital Systems	3	-	2	70	30	60	40	3	1	4
4	MA28005	BSC	Mathematics - III	3	1	-	70	30	-	-	4	-	4
5	IT28008	PCC	Data Structures	3	-	2	70	30	60	40	3	1	4
6	IT28498	PCC	System Software Laboratory – I	-	-	2	-	-	60	40	-	1	1
7	HU28481	HSMC	Values, Humanities and Professional Ethics	-	2	-	-	100	-	-	2	-	2
			Total	15	3	10	350	250	300	200	18	5	23

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Semester : IV

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1	IT28501	ESC	Discrete Structures	3	-	-	70	30	-	-	3	-	3
2	IT28506	PCC	Computer Organization & Architecture	3	-	2	70	30	60	40	3	1	4
3	IT28503	PCC	Software Engineering	3	-	2	70	30	60	40	3	1	4
4	HU28507	HSMC	Economics for Engineers	3	-	-	70	30	-	-	3	-	3
5	EC28__	ESC	Communication Engineering	3	-	-	70	30	-	-	3	-	3
6	IT28841	PCC	Systems Programming	-	2	2	-	-	60	40	-	3	3
7	IT28998	PCC	System Software Laboratory – II	-	-	2	-	-	60	40	-	1	1
8	IT28999	PCC	Scientific Computing	-	-	2	-	-	60	40	-	1	1
			Total	15	2	10	350	150	300	200	15	7	22

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Semester : V

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1	IT38001	PCC	Computer Networks	3	0	2	70	30	60	40	3	1	4
2	IT38003	PCC	Operating Systems	3	0	2	70	30	60	40	3	1	4
3	IT38002	PCC	Theory of Computation	3	1	-	70	30	-	-	4	-	4
4	IT38007	PCC	Design and Analysis of Algorithms	3	0	2	70	30	60	40	3	1	4
5	IT38__	PCC	Artificial Intelligence	3	0	-	70	30	-	-	3	-	3
6	IT38452	PCC	System Software Laboratory – III	0	0	2	-	-	60	40	-	1	1
7	IT38__	INT	Industrial Training*	0	0	0	-	-	-	100	-	2	2
			Total	15	1	8	350	150	240	160	16	6	22
Optional Subject(s)													
8	OC – I		Open Category – I (Audit only)				-	-	-	-	-	-	

*** 2 weeks training during semester break after IV sem is mandatory.**

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Semester : VI

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1	IT38501	PCC	Distributed Computing	3	-	2	70	30	60	40	3	1	4
2	IT38503	PCC	Data Base Management Systems	3	-	2	70	30	60	40	3	1	4
3	IT38504	PCC	Web Engineering	3	-	2	70	30	60	40	3	1	4
4	IT38506	PCC	Compiler Design	3	-	2	70	30	60	40	3	1	4
5	IT38__	PCC	Advanced Computer Networks	3	-	2	70	30	60	40	3	1	4
6	IT38951	PCC	System Software Laboratory – IV	-	-	2	-	-	60	40	-	1	1
			Total	15	0	12	350	150	360	240	15	6	21
Optional Subject(s)													
7	OC – II		Open Category – II(Audit only)				-	-	-	-	-	-	

**** 2 weeks training during semester break after VI sem is mandatory.**

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Semester : VII

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits			
				L	T	P	Theory		Practical		T	P				
							End Sem	CW	End Sem	SW						
1	IT48052	PCC	Information Security	3	-	2	70	30	60	40	3	1	4			
2	IT48051	PCC	Data Mining and Data Warehousing	3	-	2	70	30	60	40	3	1	4			
3		PEC	Elective – I	3	-	0	70	30	-	-	3	0	3			
4		PEC	Elective – II	3	-	2	70	30	60	40	3	1	4			
5	IT48__	INT	Industrial Training**	-	-	-	-	-	-	100	-	2	2			
6	IT48__	PRO	Major Project Phase -I (AB group)	-	-	8	-	-	60	40	-	4	4			
7	IT48__	PRO	Major Project Phase -II (BA group)			8	-	-	60	40	-	4	4			
Total				For AB group			12	0	14	280	120	180	300	12	9	21
				For BA group			12	0	14					12	9	21
Optional Subject(s)																
8	OC – III		Open Category – III (Audit only)				-	-	-	-	-	-				

**** 2 weeks training during semester break after VI sem is mandatory.**

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Semester : VIII

S.No.	Subject Code	Category	Subject Name	Hours/Week			Maximum Marks Alloted				Credits		Total Credits
				L	T	P	Theory		Practical		T	P	
							End Sem	CW	End Sem	SW			
1		PEC	Elective – III	3	-	2	70	30	60	40	3	1	4
2		PEC	Elective – IV	3	-	2	70	30	60	40	3	1	4
3	IT48__	INT	Industrial Training/ Internship	-	-	8	-	-		100	-	4	4
4	IT48__	PRO	Major Project Phase -II (AB group)			8	-	-	60	40	-	4	4
5	IT48__	PRO	Major Project Phase -I (BA group)	-	-	8	-	-	60	40	-	4	4
Total			For AB group	6	0	20	140	60	120	260	6	10	16
			For BA group	6	0	20	140	60	120	260	6	10	16
Grand Total							-	-	-	-	-	-	16

Note: Student require to complete 6 weeks of industrial training/internship during the semester break

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LIST OF ELECTIVES

Semester : VII

Elective – I

S.No.	Subject Code	Subject Name
1	IT48__	Wireless Network Systems
2	IT48226	Computer Graphics & Multimedia Systems
3	IT48__	Advanced Computer Architecture
4	IT48__	Parallel Distributed Algorithms
5	IT48__	Object Oriented Analysis and Design

Elective – II

S.No.	Subject Code	Subject Name
1	IT48330	Cloud Computing
2	IT48__	Soft Computing
3	IT48__	Internet of Things
4	IT48__	Advance Operating Systems

Semester : VIII

Elective – III

S.No.	Subject Code	Subject Name
1	IT48601	Big Data Analytics
2	IT48__	Image Processing
3	IT48602	Cyber Security and IT Laws
4	IT48__	Mobile Computing
5	IT48__	Information Retrieval

Elective – IV

S.No.	Subject Code	Subject Name
1	IT48__	Management Information Systems
2	IT48776	Software Project Management
3	IT48__	Simulation & Modeling
4	IT48__	Information Theory and Coding
5	IT48701	Machine Learning