

Shri G. S. INSTITUTE OF TECHNOLOGY AND SCIENCE, INDORE  
 Choice Based Grading System (CBGS)  
 Bachelor of Engineering (Information Technology)  
**Semester : I    BS : 10, HU : 2, EAS : 12, DC : 2, (Total Credits=26)**

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	BS	Mathematics – I	3	1	0	70	30	0	0	4	0	4
2	PH10002	BS	Physics	3	0	2	70	30	30	20	3	1	4
3	CE10003	EAS	Fundamentals of Civil Engineering	3	0	2	70	30	30	20	3	1	4
4	ME10004	EAS	Engineering Graphics	2	0	4	70	30	60	40	2	2	4
5	EE10005	EAS	Fundamentals of Electrical Engineering	3	0	2	70	30	30	20	3	1	4
6	CH10081	BS	Environmental Science	0	1	2	0	0	0	100	0	2	2
7	HU10082	HU	Communication Skills	0	1	2	0	0	0	50	0	2	2
8	IT18181	DC	Information Technology: Concepts and Scope	0	1	2	0	0	0	100	0	2	2
			<b>Total</b>	<b>14</b>	<b>4</b>	<b>16</b>	<b>350</b>	<b>150</b>	<b>150</b>	<b>350</b>	<b>15</b>	<b>11</b>	<b>26</b>

Head IT

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**Semester : II    BS : 8, HU : 6, EAS ; 12, DC : 0, (Total Credits=26)**

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	BS	Mathematics – II	3	1	0	70	30	0	0	4	0	4
2	CH10502	BS	Chemistry	3	0	2	70	30	30	20	3	1	4
3	HU10503	HU	Technical English	2	0	2	70	30	30	20	2	1	3
4	CO10505	EAS	Computer Programming	3	0	2	70	30	30	20	3	1	4
5	ME10505	EAS	Fundamentals of Mechanical Engineering	2	0	2	70	30	30	20	2	1	3
6	IP10581	EAS	Manufacturing Practices	0	1	4	0	0	60	40	0	3	3
7	IP10582	EAS	Concepts in Engineering Design	0	1	2	0	0	0	100	0	2	2
8	HU10583	HU	Rural Outreach	0	3	0	0	0	0	100	0	3	3
			<b>Total</b>	<b>13</b>	<b>6</b>	<b>14</b>	<b>350</b>	<b>150</b>	<b>180</b>	<b>320</b>	<b>14</b>	<b>12</b>	<b>26</b>

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**Semester : III**

S.No.	Subject Code		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		Object Oriented Programming	3	-	2	70	30	60	40	3	1	4
2	EC28002		Basic & Digital Electronics	3	-	2	70	30	60	40	3	1	4
3	IT28003		Digital Systems & Computer Architecture	3	-	2	70	30	60	40	3	1	4
4	MA28005		Mathematics - III	3	1	-	70	30	-	-	4	-	4
5	IT28008		Data Structures	3	-	2	70	30	60	40	3	1	4
6	IT28498		System Software Laboratory – I	-	-	2	-	-	60	40	-	1	1
7	HU28010		Values, Humanities and Professional Ethics	2	-	-	70	30	-	-	2	-	2
			<b>Total</b>	<b>17</b>	<b>1</b>	<b>10</b>	<b>420</b>	<b>180</b>	<b>300</b>	<b>200</b>	<b>18</b>	<b>5</b>	<b>23</b>
Optional Subject(s)													
<b>8</b>	<b>OC - I</b>		<b>Open Category – I (Audit only)</b>				-	-	-	-	-	-	



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**Semester : V**

S.No.	Subject Code		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		Computer Networks	3	0	2	70	30	60	40	3	1	4
2	IT38003		Operating Systems	3	0	2	70	30	60	40	3	1	4
3	IT38002		Theory of Computation	3	1	-	70	30	-	-	4	-	4
4	IT38007		Design and Analysis of Algorithms	3	0	2	70	30	60	40	3	1	4
5	IT38008		Object Oriented Analysis and Design	3	0	2	70	30	60	40	3	1	4
6	IT38451		Computer System Laboratory	0	0	2	-	-	60	40	-	1	1
7	IT38452		System Software Laboratory – III	0	0	2	-	-	60	40	-	1	1
			<b>Total</b>	<b>15</b>	<b>1</b>	<b>12</b>	<b>350</b>	<b>150</b>	<b>360</b>	<b>240</b>	<b>16</b>	<b>6</b>	<b>22</b>
Optional Subject(s)													
<b>8</b>	<b>OC – III</b>		<b>Open Category – III(Audit only)</b>				-	-	-	-	-	-	

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**Semester : VI**

S.No.	Subject Code	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	Distributed Computing	3	-	2	70	30	60	40	3	1	4
2	IT38503	Data Base Management Systems	3	1	2	70	30	60	40	4	1	5
3	IT38504	Web Engineering	3	-	2	70	30	60	40	3	1	4
4	IT38506	Compiler Design	3	-	2	70	30	60	40	3	1	4
5	IT38507	Mobile Computing	3	-	2	70	30	60	40	3	1	4
6	IT38951	System Software Laboratory – IV	-	-	2	-	-	60	40	-	1	1
		<b>Total</b>	<b>15</b>	<b>1</b>	<b>12</b>	<b>350</b>	<b>150</b>	<b>360</b>	<b>240</b>	<b>16</b>	<b>6</b>	<b>22</b>
Optional Subject(s)												
7	OC – IV	<b>Open Category – IV(Audit only)</b>				-	-	-	-	-	-	



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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		DE	Elective – III	3	-	2	70	30	60	40	3	1	4
2		DE	Elective – IV	3	-	2	70	30	60	40	3	1	4
3	IT48881	DC	Industrial Training/ Internship	-	-	12	-	-		100	-	8	8
4	IT48999	DC	Major Project Phase -II (AB group)			12	-	-	60	40	-	6	6
	IT48499		Major Project Phase -I (BA group)	-	-	4	-	-	60	40	-	2	2
<b>Total</b>													
<b>For AB group</b>				<b>6</b>	<b>0</b>	<b>16</b>	<b>140</b>	<b>60</b>	<b>120</b>	<b>260</b>	<b>6</b>	<b>16</b>	<b>22</b>
<b>For BA group</b>				<b>6</b>	<b>0</b>	<b>8</b>	<b>140</b>	<b>60</b>	<b>120</b>	<b>260</b>	<b>6</b>	<b>12</b>	<b>18</b>
<b>Grand Total</b>							-	-	-	-	-	-	<b>22</b>

**Note: Student require to complete 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	IT48225	Advanced Computer Networks
2	IT48226	Computer Graphics & Multimedia Systems
3	IT48XXX	Advanced Computer Architecture
4	IT48XXX	Parallel Distributed Algorithms

**Elective – II**

S.No.	Subject Code	Subject Name
1	IT48330	Cloud Computing
2	IT48XXX	Soft Computing
3	IT48XXX	Internet of Things
4	IT48XXX	Advance Operating Systems

**Semester : VIII**

**Elective – III**

S.No.	Subject Code	Subject Name
1	IT48601	Big Data Analytics
2	IT48XXX	Image Processing
3	IT48602	Cyber Security and IT Laws
4	IT48XXX	Wireless Network Systems
5	IT48XXX	Information Retrieval

**Elective – IV**

S.No.	Subject Code	Subject Name
1	48XXX	Management Information Systems
2	IT48776	Software Project Management
3	IT48XXX	Simulation & Modeling
4	IT48XXX	Information Theory and Coding
5	IT48701	Machine Learning

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**Open Category Elective Offered**

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					L	T	P	Theory		Practical		T	P	
								End Sem	CW	End Sem	SW			
1	III	ITOC001	OC-I	Object Oriented programming with java	2	-	2	70	30	60	40	2	1	3
2	IV	ITOC501	OC-II	Data Structures and Algorithms	2	-	2	70	30	60	40	2	1	3
3	V	ITOCXXX	OC-III	Linux Administration	3	-	2	70	30	60	40	3	1	4
4	VI	ITOCXXX	OC-IV	Android Application Development	3	-	2	70	30	60	40	3	1	4
5	VII	ITOCXXX	OC-V	Information Retrieval	3	-	2	70	30	60	40	3	1	4