

**Shri G.S. Institute of Technology & Science, Indore**  
**Electronics & Instrumentation Engineering Department**  
**B.Tech (Applicable to 2016-20 Enrolled Students)**

Batch : 2016-20  
 Academic Year 2017-18

II Year/ III Sem

S.no.	Category	Subject Code	Subject Name	Period/Week			Maximum Marks				Credits		Total Credits	Total Marks
				L	T	P	Theory		Practical		T	P		
							End Sem	CW	End Sem	SW				
1	DC-1	EI27001	Circuit Analysis & Synthesis	4		2	70	30	60	40	3	1	4	200
2	DC-2	EI27002	Fundamentals of Measurement	4		2	70	30	60	40	3	1	4	200
3	DC-3	EI27003	Electronics Devices & circuits	4		2	70	30	60	40	3	1	4	200
4	DC-4	EI27004	Signals & Systems	4			70	30			3		3	100
5	BSC-3	MA27014	Mathematics-III	4	1		70	30			4		4	100
6	HU	HU27005	Economics for Engineers	4			70	30			3		3	100
7	DLC-1	EI27498	Electronics Workshop			2			60	40		1	1	100
<b>Total</b>				<b>24</b>	<b>1</b>	<b>8</b>	<b>420</b>	<b>180</b>	<b>240</b>	<b>160</b>	<b>19</b>	<b>4</b>	<b>23</b>	<b>1000</b>
<b>Optional Subject(s)</b>														
8		OC-I	Open Category-I (Audit Only)	Instrumentation Workshop										

II Year/ IV Sem

S.no.	Category	Subject Code	Subject Name	Period/Week			Maximum Marks				Credits		Total Credits	Total Marks
				L	T	P	Theory		Practical		T	P		
							End Sem	CW	End Sem	SW				
1	DC-5	EC27503	Electromagnetic Fields & waves	4			70	30			3		3	100
2	DC-6	EI27501	Analog electronics	4		2	70	30	60	40	3	1	4	200
3	DC-7	EI27551	Sensors & Transducers	4		2	70	30	60	40	3	1	4	200
4	DC-8	EI27562	Digital Electronics	4		2	70	30	60	40	3	1	4	200
5	BSC-4	MA27563	Mathematics-IV	4	1		70	30			4		4	100
6	HU	HU27505	Values, Humanities & professional Ethics		3			100			2		2	100
7	DLC-2	EI27992	Software Workshop			4			60	40		2	2	100
<b>Total</b>				<b>20</b>	<b>4</b>	<b>10</b>	<b>350</b>	<b>250</b>	<b>240</b>	<b>160</b>	<b>18</b>	<b>5</b>	<b>23</b>	<b>1000</b>
<b>Optional Subject(s)</b>														
8		OC-II	Open Category-II (Audit Only)	EDA tool										

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III Year/ V Sem

S.no.	Category	Subject Code	Subject Name	Period/Week			Maximum Marks				Credits		Total Credits	Total Marks
				L	T	P	Theory		Practical		T	P		
							End Sem	CW	End Sem	SW				
1	DC-9	EI37004	Peripherals & Interfacing	4	1	2	70	30	60	40	4	1	5	200
2	DC-10	EI37002	Microprocessor Systems	4	1	2	70	30	60	40	4	1	5	200
3	DC-11	EE37003	Control Systems	4		2	70	30	60	40	3	1	4	200
4	DC-12	EC37014	Analog & Digital Communication	4			70	30			3		3	100
5	DC-13	IP37021	Industrial Engineering & Management	4			70	30			3		3	100
6	DLC-3	EI37451	Test & Calibration			4			60	40		2	2	100
<b>Total</b>				<b>20</b>	<b>2</b>	<b>10</b>	<b>350</b>	<b>150</b>	<b>240</b>	<b>160</b>	<b>17</b>	<b>5</b>	<b>22</b>	<b>900</b>
<b>Optional Subject(s)</b>														
7		OC-III	Open Category-III (Audit Only)	Analytical Instrumentation										

III Year/ VI Sem

S.no.	Category	Subject Code	Subject Name	Period/Week			Maximum Marks				Credits		Total Credits	Total Marks
				L	T	P	Theory		Practical		T	P		
							End Sem	CW	End Sem	SW				
1	DC-14	EI37501	Filter Design & Simulation	4	1	2	70	30	60	40	4	1	5	200
2	DC-15	EI37503	High Frequency Engineering	4			70	30			4		4	100
3	DC-16	EC37562	Digital Signal Processing	4			70	30			3		3	100
4	DC-17	ME37502	Mechanical Measurements	4		2	70	30	60	40	3	1	4	200
5	PEC		Elective-I	4		2	70	30	60	40	3	1	4	200
6	DLC-5	EI37951	Electronic System Design			4			60	40		2	2	100
<b>Total</b>				<b>20</b>	<b>1</b>	<b>10</b>	<b>350</b>	<b>150</b>	<b>240</b>	<b>160</b>	<b>17</b>	<b>5</b>	<b>22</b>	<b>900</b>
<b>Optional Subject(s)</b>														
7		OC-IV	Open Category-IV (Audit Only)	Standards & calibration										

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IV Year/ VII Sem

S.no.	Category	Subject Code	Subject Name	Period/Week			Maximum Marks				Credits		Total Credits	Total Marks
				L	T	P	Theory		Practical		T	P		
							End Sem	CW	End Sem	SW				
1	DC-17	EI47053	Process Instrumentation	4	1	2	70	30	60	40	4	1	5	200
	DC-18	BM47001	Medical Instrumentation	4		2	70	30	60	40	3	1	4	200
2	DC-19	EE47002	Power Electronics	4		2	70	30	60	40	3	1	4	200
4	DC-20	EI47257	Fiber Optics and Photonics	4			70	30			3		3	100
5	PEC		Elective -II	4			70	30			3		3	100
7	DLC-7	EI47499	Major Project-I(AB Group)			6			60	40		3	3	100
	DLC-8	EI47999	Major Project-II(BA Group)			10			60	40		5	5	100
<b>Total (With AB Group)</b>				<b>20</b>	<b>1</b>	<b>12</b>	<b>350</b>	<b>150</b>	<b>240</b>	<b>160</b>	<b>16</b>	<b>6</b>	<b>22</b>	<b>900</b>
Total (With BA Group)				20	1	16	350	150	240	160	16	8	24	900

IV Year/ VIII Sem

S.no.	Category	Subject Code	Subject Name	Period/Week			Maximum Marks				Credits		Total	Total Marks
				L	T	P	Theory		Practical		T	P		
							End Sem	CW	End Sem	SW				
1	DC-21	EI47655	VLSI Design	4		2	70	30	60	40	3	1	4	200
2	DC-21		Elective -III	4			70	30			3		3	100
3	Internship	EI47881	Industrial Training/ Internship (min 6 week/seminar with report)							100		8	8	100
4	DLC-8	EI47999	Major Project-II(AB Group)			10			60	40		5	5	100
5	DLC-7	EI47499	Major Project-I(BA Group)			6			60	40		3	3	100
<b>Total (With AB Group)</b>				<b>8</b>	<b>0</b>	<b>10</b>	<b>140</b>	<b>60</b>	<b>60</b>	<b>140</b>	<b>6</b>	<b>13</b>	<b>19</b>	<b>400</b>
Total (With BA Group)				8	0	6	140	60	60	140	6	11	17	400

**List of Electives from V to VIII Semester**

<b>Semester VII</b>		
<b>Elective-II</b>		
1	EI47322	VLSI Technology
2	EI47321	Aeronautical Instrumentation
3	EI47323	Applied Robotics
4	EI47324	Digital Measurement Techniques

<b>Semester VI</b>		
<b>Elective-I</b>		
1	EI37701	Microcontroller & Embedded System
2	EI37702	Aeronautical Instrumentation

<b>Semester VIII</b>		
<b>Elective-III</b>		
1	EI47776	Automation in Instrumentation
2	EI47771	Data Acquisition Systems
3	EI47772	Nuclear Instrumentation