

Shri G.S. Institute of Technology & Science, Indore
Electronics & Instrumentation Engineering Department
B.Tech (Applicable to 2019-20 Enrolled Students)

Batch : 2019-2023
 Academic Year 2019-20

I Year
 Semester - A

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA 10001	Mathematics - I	4	1	0	4	0	70	30	0	0	100
2	BSC	PH 10006	Physics	4	1	2	4	1	70	30	20	30	150
3	ESC	CE 10003	Fundamentals of Civil Engineering & Applied Mechanics	4	0	2	3	1	70	30	20	30	150
4	ESC	ME 10149	Engineering Graphics	3	0	4	2	2	70	30	40	60	200
5	ESC	EE 10005	Fundamentals of Electrical Engineering	4	0	2	3	1	70	30	20	30	150
6	MC	CH 10200*	Environmental Science	0	1	2	-	-	0	0	100	0	100
TOTAL				19	3	12	16	5	350	150	200	150	850

Induction program of 3 week duration in July-Aug 2019

Semester - B

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA 10501	Mathematics – II	4	1	0	4	0	70	30	0	0	100
2	BSC	CH 10506	Chemistry	4	1	2	4	1	70	30	20	30	150
3	HSMC	HU 10651	Technical English	4	0	2	3	1	70	30	20	30	150
4	ESC	CO 10504	Computer Programming	4	0	2	3	1	70	30	20	30	150
5	ESC	ME 10649	Fundamentals of Mechanical Engineering	4	0	2	3	1	70	30	20	30	150
6	ESC	IP10581	Manufacturing Practices	0	1	4	0	3	0	0	40	60	100
7	MC	HU10700*	Universal Human Values	2 Hrs per week working Saturday					0	0	100	0	100
TOTAL				20	3	12	17	7	350	150	220	180	900

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

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 Academic Year 2020-21

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	BSC-3	MA27014	Mathematics-III	4	1		70	30			4		4	100
5	HU	HU27005	Economics for Engineers	4			70	30			3		3	100
6	DLC-1	EI27498	Electronics Workshop			2			60	40		1	1	100
Total				20	1	8	350	150	240	160	16	4	20	900
Optional Subject(s)														
7		OC-I	Open Category-I (Audit Only)											

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-4	EI27501	Analog electronics	4		2	70	30	60	40	3	1	4	200
2	DC-5	EI27551	Sensors & Transducers	4		2	70	30	60	40	3	1	4	200
3	DC-6	EI27562	Digital Electronics	4		2	70	30	60	40	3	1	4	200
4	BSC-4	MA27563	Mathematics-IV	4	1		70	30			4		4	100
5	HU	HU27881	Values, Humanities & professional Ethics		3			100			2		2	100
6	DLC-2	EI27992	Software Workshop			4			60	40		2	2	100
Total				16	4	10	280	220	240	160	15	5	20	900
Optional Subject(s)														
7		OC-II	Open Category-II (Audit Only)											

Internship-I To be completed any time during III/IV semester. Its evaluation/credits to be added in Semester V (Minimum 4 Weeks Duration)

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Academic Year 2021-22

III Year/ V 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-7	IT37005	Data Structure	4		2	70	30	60	40	3	1	4	200
2	DC-8	EI37006	Microprocessor Systems	4		2	70	30	60	40	3	1	4	200
3	DC-9	EE37003	Control Systems	4		2	70	30	60	40	3	1	4	200
4	DC-10	EC37014	Analog & Digital Communication	4			70	30			3		3	100
5	PEC		Elective -I	4			70	30			3		3	100
6	DLC-3	EI37481	Test & Calibration			4			60	40		2	2	100
7	DLC-4	EI37482	Internship Evaluation- I			4				50		2	2	50
Total				20	0	14	350	150	240	210	15	7	22	950

III Year/ VI 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-11	EI37511	Filter Design & Simulation	4		2	70	30	60	40	3	1	4	200
2	DC-12	EI37513	High Frequency Engineering	4			70	30			3		3	100
3	DC-13	EC37512	Digital Signal Processing	4			70	30			3		3	100
4	DC-14	ME37502	Mechanical Measurements	4		2	70	30	60	40	3	1	4	200
5	PEC		Elective-II	4		2	70	30	60	40	3	1	4	200
6	DLC-5	EI37991	Mini Project			4			60	40		2	2	100
Total				20	0	10	350	150	240	160	15	5	20	900

Internship-II To be completed any time during V/VI semester. Its evaluation/credits to be added in Semester VII(Minimum 4 Weeks Duration)

Elective-I		
1	IP37251	Industrial Engineering & Management
2	EI37252	Instrument System Design
3	Cxxxx	Artificial Intelligence

Elective-II		
1	EI37701	Microcontroller & Embedded System
2	EI37xxx	Smart Cities & Instrumentation Engineering
3	EI37xxx	Agriculture & Environment Instrumentation

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IV Year/ VII 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-15	EI47053	Process Instrumentation	3	1	2	70	30	60	40	4	1	5	200
2	DC-16	EE47002	Power Electronics	3		2	70	30	60	40	3	1	4	200
3	DC-17	EI47055	VLSI Design	3		2	70	30	60	40	3	1	4	200
4	PEC		Elective -III	3			70	30			3		3	100
5	PEC		Elective -IV	3			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
Total (With AB Group)				15	1	12	350	150	240	160	16	6	22	900
Total (With BA Group)				15	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-18		Elective-V	3			70	30			3		3	100
2	DC-19		Elective -VI	3			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
Total (With AB Group)				6	0	10	140	60	60	140	6	13	19	400
Total (With BA Group)				6	0	6	140	60	60	140	6	11	17	400

Semester VII

Elective-III

Semester VIII

Elective-V

1	EI47257	Fiber Optics and Photonics
2	XX47201	Data structure
Elective-IV		
1	EI47322	VLSI Technology
2	EI47301	Intelligent Instrumentation

1	BM47613	Medical Instrumentation
2	EI47611	Digital Image Processing
3	EI47612	Computer Network
Elective-VI		
1	EI47776	Automation in Instrumentation
2	EI47701	Data Acquisition Systems