II

Shri G S Institute of Technology & Science, Indore
B.Tech.(4YDC) Electronics & Instrumentation Engineering

Semester :III

S. No.	Subject Category	Subject Code	Subject Name	Periods /Week			Maximum Marks							
							Theory		Practical		Total	Credits		Total
				L	T	P	End Sem	CW	End Sem	SW		T	P	
1	DC-1	EI27001	Circuit Analysis & Synthesis	4	-	2	70	30	60	40	200	3	1	4
2	DC-2	EI27002	Fundamentals of Measurement	4	-	2	70	30	60	40	200	3	1	4
3	DC-3	EI27003	Electronic Devices & Circuits	4	-	2	70	30	60	40	200	3	1	4
4	BSC-3	MA27014	Mathematics -III	4	1	-	70	30	-	-	100	4	-	4
5	HU	HU27005	Economics for Engineers	4	-	-	70	30	-	-	100	3	-	3
6	DLC-1	EI27498	Electronic Workshop	-	-	2	-	-	60	40	100	-	1	1
			Total	**20**	**1**	**8**	**350**	**150**	**240**	**160**	**900**	**16**	**4**	**20**
7	OC-1	Open category -I	Audit Only	-	-	-	-		-	-		-	-	-

Semester :IV

S. No.	Subject Category	Subject Code	Subject Name	Periods /Week			Maximum Marks							
							Theory		Practical		Tota	Credits		Total
				L	T	P	End Sem	CW	End Sem	SW		T	P	
1	DC-4	EI27501	Analog Electronics	4	-	2	70	30	60	40	200	3	1	4
3	DC-5	EI27551	Sensors & Transducers	4	-	2	70	30	60	40	200	3	1	4
4	DC-6	EI27562	Digital Electronics	4	-	2	70	30	60	40	200	3	1	4
5	BSC-4	MA27563	Mathematics- IV	4	1	-	70	30	-	-	100	4	-	4
6	DLC-2	EI27992	Software Workshop	-	-	4	-	-	60	40	100	-	2	2
7		HU27881	Values, Humanities & Professional Ethics	0	3	-	0	100	-	-	100	2	-	2
			Total	**16**	**4**	**10**	**280**	**220**	**240**	**160**	**900**	**15**	**5**	**20**
8	OC-II	Open category - II	Audit Only	-	-	-	-	-	-	-		-	-	-

Internship I: To be Completed any time during III/IV semester. It's Evaluation/Credit to be added in semester V(minimum 4 weeks duration)

Shri G S Institute of Technology & Science, Indore

III **B.Tech.(4YDC) Electronics & Instrumentation Engineering**

Semester :V

S. No.	Subject Category	Subject Code	Subject Name	Periods/Week			Maximum Marks					Credits		
							Theory		Practical		Total	Credits		Total
				L	T	P	End Sem	CW	End Sem	SW		T	P	
1	DC-7	IT37005	Data Structure	4	0	2	70	30	60	40	200	3	1	4
2	DC-8	EI37006	Microprocessors Systems	4	0	2	70	30	60	40	200	3	1	4
3	EE	EE37003	Control Systems	4	0	2	70	30	60	40	200	3	1	4
4	EC	EC37014	Analog & Digital Communication	4	0	0	70	30	-	-	100	3	-	3
5	PES		Elective -1	4	0	0	70	30	0	0	100	3	0	3
6	DLC-3	EI37481	Test & Calibration			4			60	40	100	0	2	2
7		EI37482	Internship-I (Evaluation)			4				50	50		2	2
			Total	**20**	**0**	**14**	**350**	**150**	**240**	**210**	**950**	**15**	**7**	**22**
8	OC-III	Open category -III	Audit Only(Analytical Instrumentation)	-	-	-	-	-	-	-		-	-	-

Semester :VI

S. No.		Subject Code	Subject Name	Periods/Week			Maximum Marks							
							Theory		Practical		Total	Credits		Total
				L	T	P	End Sem	CW	End Sem	SW		T	P	
1		EI37511	Filter Design & Simulation	4	0	2	70	30	60	40	200	3	1	4
2		EI37513	High frequency Engineering	4	0	0	70	30	0	0	100	3	0	3
3		EC37512	Digital Signal Processing	4	0	0	70	30	0	0	100	3	0	3
4		ME37502	Mechanical Measurement	4	0	2	70	30	60	40	200	3	1	4
5			Elective-II	4	0	2	70	30	60	40	200	3	1	4
6		EI37991	Mini Project	0	0	4	-	-	60	40	100	0	2	2
			Total	**20**	**0**	**10**	**350**	**150**	**240**	**160**	**900**	**15**	**5**	**20**
7		Open category -IV	Audit Only	-	-	-	-	-	-	-	-	-	-	-

Internship II: To be Completed any time during V/VI semester. It's Evaluation/Credit to be added in semester V(minimum 4 weeks duration)

Elective I			SEMESTER V
S.No.		Sub. Code	Subject
1		EI37251	Industrial Engineering & Management
2		EI37252	Instrument System Design

Elective II			SEMESTER VI
S.No.		Sub. Code	Subject
1		EI37001	Microcontroller & Embedded System
2			Smart Cities and Instrumentation Engineering
3			Agricilture and Environmental Instrumentation

IV

Shri G S Institute of Technology & Science, Indore
B.Tech.(4YDC) Electronics & Instrumentation Engineering

Semester :VII

S. No.	Subject Code	Subject Name	Periods /Week			Maximum Marks					Credits		
						Theory		Practical		Total	Credits		Total
			L	T	P	End Sem	CW	SW	Pr.		T	P	
1	EI47053	Process Instrumentation	4	1	2	70	30	40	60	200	4	1	5
2	BM47001	Medical Instrumentation	4	-	2	70	30	40	60	200	3	1	4
3	EE 47002	Power Electronics	4	-	2	70	30	40	60	200	3	1	4
4		Elective-I	4	-	0	70	30	0	0	100	3	0	3
5		Elective-II	4	-	0	70	30	0	0	100	3	0	3
6	EI47499	Major Project-I (AB Group)	0	0	6	0	0	40	60	100	0	3	3
7	EI47999	Major Project-II (BA Group)	0	0	10	0	0	40	60	100	0	5	5
Total		**For AB Group**	**20**	**1**	**12**	**350**	**150**	**160**	**240**	**900**	**16**	**6**	**22**
		For BA Group	**20**	**1**	**16**	**350**	**150**	**160**	**240**	**900**	**16**	**8**	**24**

Optional Subject(s)

8		Open Category-III(Audit Only)	-	-	-	-	-	-	-	-	-	-	-

Semester :VIII

S. No.	Subject Code	Subject Name	Periods /Week			Maximum Marks					Credits		
						Theory		Practical		Total	Credits		Total
			L	T	P	End Sem.	CW	SW	Pr.		T	P	
1	EI	Elective-III	4	0	2	70	30	40	60	200	3	1	4
2	EI	Elective-IV	4	-	0	70	30	-	-	100	3	-	3
3	EI47881	Industrial Training / Internship / Seminar*	-	-	-	-	-	100	-	100	0	8	8
4	EI47999	Major Project Phase-II (AB Group)	0	0	10	0	0	40	60	100	0	5	5
	EI47499	Major Project Phase-I (BA Group)	0	0	6	0	0	40	60	100	0	3	3
Total		**FOR AB GROUP**	**8**	**0**	**12**	**140**	**60**	**180**	**120**	**500**	**6**	**14**	**20**
		FOR BA GROUP	**8**	**0**	**8**	**140**	**60**	**180**	**120**	**500**	**6**	**12**	**18**

Elective I		SEMESTER-VII
S.No.	Sub. Code	Subject
1	XX47201	Data Structure
2	EI47257	Fiber Optics & Photonics(EI4757)

Elective II		SEMESTER-VII
S.No.	Sub. Code	Subject
1	EI47322	VLSI Technology
2	EI47301	Intelligent Instrumentation

Elective III		SEMESTER-VIII
S.No.	Sub. Code	Subject
1	EI47655	VLSI Design(EI4755)
2	EI47601	Digital Image Processing
3	EI47602	Computer Network

Elective IV		SEMESTER-VIII
S.No.	Sub. Code	Subject
1	EI47776	Automation In Instrumentation
2	EI47701	Data Acquisition Systems