

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**  
**I M.TECH. Biomedical Signal Processing & Instrumentation(2017 Admitted Students)**

SEMESTER - I( For student from BE in any branch of Engineering)

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	BM75001	Physiology for Engineering	4			4		70	30			100
2	BM75002	Biosensors & Instrumentation	4			4		70	30			100
3	BM75003	Medical Imaging Systems	4			4		70	30			100
4		Elective I	4			4		70	30			100
5		Elective II	4			4		70	30			100
6	BM75451	Lab I - Electronic System Design			4		4			40	60	100
7	BM75452	Lab II - Virtual Instrumentation			4		4			40	60	100
8	BM75500	Comprehensive Viva									Grade	Grade
Total			20	0	8	20	8	350	150	80	120	700

SEMESTER - I( For student from BE Biomedical Engineering)

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	BM75001	Physiology for Engineering	4			4		70	30			100
2	BM75504	Bio-MEMS	4			4		70	30			100
3	EE75505	Reliability	4			4		70	30			100
4		Elective I	4			4		70	30			100
5		Elective II	4			4		70	30			100
6	BM75451	Lab I - Electronic System Design			4		4			40	60	100
7	BM75452	Lab II - Virtual Instrumentation			4		4			40	60	100
8	BM75500	Comprehensive Viva									Grade	Grade
Total			20	0	8	20	8	350	150	80	120	700

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Elective-I		Semester I
1	BM75201	Adaptive Signal Processing
2	BM75202	Rehabilitation & Prosthetics
3	BM75203	Neural Networks & Fuzzy Logic
4	BM75204	Biomaterials : Design & Applications

Elective-II		Semester I
1	BM75301	Adaptive Signal Processing
2	BM75302	Rehabilitation & Prosthetics
3	BM75303	Neural Networks & Fuzzy Logic
4	BM75304	Biomaterials : Design & Applications

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## SEMESTER - II

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	BM75501	Bio Statistics	4	-	-	4	-	70	30	-	-	100
2	BM75502	Embedded Systems	4	-	-	4	-	70	30	-	-	100
3	MA75503	Applied & Computational Linear Algebra	4	-	-	4	-	70	30	-	-	100
4		Elective I	4	-	-	4	-	70	30	-	-	100
5		Elective II	4	-	-	4	-	70	30	-	-	100
6	BM75851	Lab I - Finite Element Method	-	-	4	-	4	-	-	40	60	100
7	BM75852	Lab II - Modeling & Simulation	-	-	4	-	4	-	-	40	60	100
8	BM75881	Seminar	-	-	2	-	2	-	-	100		100
9	BM75900	Comprehensive Viva	-	-	-	-	-	-	-	-	Grade	Grade
Total			20	0	10	20	10	350	150	180	120	800

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S.No.	Semester II	Elective-I
1	BM75701	Advanced Signal Processing
2	BM75702	Advanced Biomechanics
3	BM75703	Computer vision and image processing
4	BM75704	Mechatronics

S.No.	Semester II	Elective-II
1	BM75751	Advanced Signal Processing
2	BM75752	Advanced Biomechanics
3	BM75753	Computer vision and image processing
4	BM75754	Mechatronics

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## SEMESTER - III

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	BM75901	Dissertation Phase-I	-	-	20		20			100	150	250
Total			0	0	20	0	20	0	0	100	150	250

## SEMESTER - IV

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	BM75951	Dissertation Phase-II	-	-			30			160	240	400
Total			0	0	0	0	30	0	0	160	240	400