DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

P.G. SCHEME as per AICTE model curriculum

ME (Manufacturing Engineering)

SEMESTER -I

S.No.	Sub. Code	Subject	*Hours per Week			Th. Credit	Pr. Credit	MAXIMUM MARKS				
			L	T	P			TH	CW	SW	Pr.	Total
1	IP82001	Metal Cutting and Machine Tools	3	0	0	3	0	70	30	0	0	100
2	IP82002	Advanced Machining Processes	3	0	0	3	0	70	30	0	0	100
3	IP82003	Computer Aided Manufacturing	3	0	0	3	0	70	30	0	0	100
4	ME82004	Finite Element Method	3	0	0	3	0	70	30	0	0	100
5		Elective- I	3	0	0	3	0	70	30	0	0	100
6	IP80451	Computer Aided Manufacturing Lab	-	-	4	-	2	-	-	40	60	100
7	IP82452	Advanced Machining Processes Lab	-	-	4	-	2	-	-	40	60	100
8	ME82453	FEM Lab.	-	-	2	-	1	-	-	40	60	100
9	IP80500	Comprehensive Viva	-	-			0	-	-	-	Grade	Grade
		Total	15	0	10	15	5	350	150	120	180	800

I Semester = 19 - 21 Credits

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	IP82501	Rapid Prototyping and Tooling	3	0	0	3	0	70	30	0	0	100
2	IP82502	Casting and Forming Processes	3	0	0	3	0	70	30	0	0	100
3	IP82503	Welding Technology	3	0	0	3	0	70	30	0	0	100
4	ME82504	Materials and Metallurgy	3	0	0	3	0	70	30	0	0	100
5		Elective- II	3	0	0	3	0	70	30	0	0	100
6	IP82851	Virtual Prototyping & Manufacturing Simulation Lab.	-	-	4	-	2			40	60	100
7	IP82852	Welding Technology Lab	-	-	4	-	2			40	60	100
8	IP82881	Seminar			2		1			100	0	100
9	IP82900	Comprehensive Viva					0				Grade	Grade
		Total	15	0	10	15	5	350	150	180	120	800

II Semester = 19 - 21 Credits

*** One extra lecture is to be engaged for theory classes if duration of lecture is 50 minutes.**

Total Credits = 68 - 72

Elective I		Semester I
S.No	**Sub. Code**	**Subject**
1	IP82201	Experimental Design, Data Analysis and Quality Control
2	ME82202	Processing of Non-Metals
3	IP82203	Intelligent Manufacturing
4	IP82204	Composite Materials

Elective II		Semester II
S.No	**Sub. Code**	**Subject**
1	ME82701	Mechatronics & Automation
2	IP82702	Robotics and Manufacturing Automation
3	IP82703	Optimization Techniques
4	IP82704	Numerical Modelling of Manufacturing Processes
5		
6		

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		**Industrial Training/Seminar/ Term Paper**			8		4			50	0	50
2		**Dissertation Phase - I**			20		10			40	60	100
3		**Research Methodology***	2			2	0	70	30			100
		TOTAL	**2**	**0**	**28**	**2**	**14**	**70**	**30**	**90**	**60**	250

III Semester = 16 Credits

* This course can be studied online with prior permission of HOD, however, end semister examination will be conducted in the Institute.

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		**Dissertation Phase - II**			32		16			80	120	200
		TOTAL	**0**	**0**	**32**	**0**	**16**	**0**	**0**	**80**	**120**	200

IV Semester = 16 Credits