BVM Engineering College (An Autonomous Institution)

Mechanical Engineering Department

B. Tech. PDDC (Mechanical Engineering)

Semester 1

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	1PT01	Advanced Calculus	3	0	0	3	3
2	1PT02	Programming for Engineers	1	0	4	5	3
3	1PT03	Engineering Thermodynamics	3	0	0	3	3
4	1PT04	Mechanics of solids	3	1	0	4	4
		Total	**10**	**1**	**4**	**15**	**13**

Semester 2

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	1PT05	Linear Algebra and Fourier Series	3	0	0	3	3
2	1PT06	Fluid Mechanics and Fluid Machines	3	0	2	5	4
3	1PT07	Material Science and Metallurgy	3	0	2	5	4
4	1PT08	Fundamental of Machine Design	3	0	2	5	4
		Total	**12**	**0**	**6**	**18**	**15**

Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	2PT01	Numerical Methods and Analysis	3	0	0	3	3
2	2PT02	Machining Processes	3	0	2	5	4
3	2PT03	Mechanical Measurement and Metrology	3	0	2	5	4
4	2PT04	Industrial Engineering and Quality Assurance	3	0	0	3	3
		Total	**12**	**0**	**4**	**16**	**14**

L=Lecture Hrs./wk; T=Tutorial Hrs./wk; P=Practical Hrs./wk; H=Total Contact Hrs./wk; C=Credits of Course

Semester 4

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	2PT05	Operations Research	3	1	0	4	4
2	2PT06	Kinematics of Machines	3	0	0	3	3
3	2PT07	Heat Transfer	3	0	2	5	4
4		Program Elective - I	3	0	2	5	4
		Total	**12**	**1**	**4**	**17**	**15**

Program Elective - I

1	2PT41	Production and Operations Management	3	0	2	5	4
2	2PT42	Non-conventional Energy Resources	3	0	2	5	4
3	2PT43	Non-traditional Manufacturing Processes	3	0	2	5	4

Semester 5

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	3PT01	Dynamics of Machines	3	0	2	5	4
2	3PT02	Oil Hydraulics and Pneumatics	3	0	2	5	4
3	3PT03	Metal Forming, Joining and Foundry Practices	3	0	2	5	4
4	3PT04	Automobile Engineering	3	0	0	3	3
		Total	**12**	**0**	**6**	**18**	**15**

Semester 6

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	3PT05	Design of Machine Elements	3	0	2	5	4
2	3PT06	Computer Aided Design	3	0	2	5	4
3	3PT07	Internal Combustion Engines and Turbines	3	0	2	5	4
4	3PT08	Energy Conservation and Management	3	0	0	3	3
		Total	**12**	**0**	**6**	**18**	**15**

L=Lecture Hrs./wk; T=Tutorial Hrs./wk; P=Practical Hrs./wk; H=Total Contact Hrs./wk; C=Credits of Course

Semester 7

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4PT01	Machine Design	3	0	2	5	4
2	4PT02	Production Technology	3	0	2	5	4
3	4PT03	Refrigeration, Air-conditioning and Compressors	3	0	2	5	4
4		Program Elective – II	3	0	0	3	3
		Total	**12**	**0**	**6**	**18**	**15**

Program Elective – II

1	4PT41	Design of Pressure Vessels	3	0	0	3	3
2	4PT42	Gas Dynamics and Propulsive System	3	0	0	3	3
3	4PT43	Design of Heat Exchangers	3	0	0	3	3
4	4PT44	Project Management	3	0	0	3	3

Semester 8

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4PT04	Computer Aided Manufacturing	3	0	2	5	4
2	4PT05	Power Plant Engineering	3	0	0	3	3
3	4PT06	Product Engineering	3	0	2	5	4
4		Program Elective – III	3	0	2	5	4
		Total	**12**	**0**	**6**	**18**	**15**

Total Credits Distribution	**94**	**2**	**42**	**138**	**117**

Program Elective –III

1	4PT45	Turbomachinery	3	0	2	5	4
2	4PT46	Finite Element Methods	3	0	2	5	4
3	4PT47	Machine Tool Design	3	0	2	5	4
4	4PT48	Geometric Dimensioning and Tolerancing	3	0	2	5	4

L=Lecture Hrs./wk; T=Tutorial Hrs./wk; P=Practical Hrs./wk; H=Total Contact Hrs./wk; C=Credits of Course