STUDY AND EVALUATION SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS DIPLOMA PROGRAMME IN MECHANICAL ENGINEERING (Production Engineering)

THIRD SEMESTER

			STUDY				Total							
Sr.	SUBJECTS	SCHEME Periods/Week			Credits	INTERNAL ASSESSMENT				Marks of Internal &				
No.		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	External
3.1	*Applied Mathematics-III	5	-	-	4	20	-	20	50	2 ½	-	-	50	70
3.2	Engineering Materials	4	-	2	4	20	10	30	50	2 1/2	20	3	70	100
3.3	Mechanics of Solids	4	1	2	5	20	10	30	50	2 1/2	20	3	70	100
3.4	Thermal Engineering	5	1	3	6	20	10	30	50	2 ½	20	3	70	100
3.5	Computer Aided Drafting and 3D Modelling	-	-	8	2	-	20	20	-	-	50	3	50	70
3.6	Workshop Technology	4	-	6	5	20	10	30	50	2 1/2	20	4	70	100
#Stuc	#Student Centred Activities (SCA)		-	3	1	-	30	30	-	-	-	-	-	30
	Total	22	2	24	27	100	90	190	250	-	130	-	380	570

^{*} Common with other diploma programmes

[#] Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

A. COMPULSORY SUBJECT OF I & II SEMESTER MECHANICAL ENGINEERING TO BE TAUGHT IN III & IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:

TOOL & DIE MAKER(PRESS TOOLS, JIGS & FIXTURES), TOOL & DIE MAKER (DESIGN & MOULDS), MECHANIC ACHINE TOOLS MAINTENANCE), DRAUGHTMAN (MECHANICAL), MACHINIST, MACHINIST (GRINDER), FITTER, TURNER, MECHANIC(DOMESTIC COMMERICAL, REFRIGERATION & AC), PRODUCTION & MANUFACTURING SECTOR, AUTOMOBILE SECTOR, REFRICERATION AND AIRCONDITIONER SECTOR, FABRICATION (FITTING & WELDING), MECHANIC (MOTOR VEHICLE), MECHANIC (AGRICULTURE M/c)

Sr.	SUBJECTS	STUDY SCHEME Periods/Week			Credits		MA NTERN SESSM		EVAL	Total Marks of Internal &				
No.		L	T	P	1	Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	External
1.1	*Communication Skills-I	4	-	2	4	-	-	-	50	2 ½	20	3	70	70
1.2	*Applied Mathematics - I	5	-	-	4	-	-	-	50	2 1/2	-	-	50	50
1.3	*Applied Physics – I	5	-	2	5	-	-	-	50	2 ½	20	3	70	70
1.4	*Applied Chemistry	5	-	2	5	-	-	-	50	2 1/2	20	3	70	70
		19		6	18	-	-	-	200		60		260	260

^{*} Common with other diploma programmes

[#] Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

^(*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

^(*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

FOURTH SEMESTER

		STUDY SCHEME Periods/Week			Credits		Total							
Sr.	SUBJECTS					INTERNAL ASSESSMENT				Marks of Internal &				
No.		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	External
4.1	*Communication Skill-II	4	-	2	4	20	10	30	50	2 ½	20	3	70	100
4.2	Refrigeration and Air Conditioning	5	1	2	6	20	10	30	50	2 ½	20	3	70	100
4.3	Hydraulics and Pneumatics	5	1	2	6	20	10	30	50	2 ½	20	3	70	100
4.4	Computer Aided Design and Manufacturing	4	-	6	6	20	10	30	50	2 1/2	20	3	70	100
4.5	*Environmental Studies	3	-	2	3	20	10	30	50	2 1/2	20	3	70	100
4.6	*Energy Conservation	3	-	2	3	20	10	30	50	2 1/2	20	3	70	100
4.7	Universal Human Values	2	-	1	1	-	20	20	-	-	30	3	30	50
#Stuc	#Student Centred Activities (SCA) 3		3	1	-	30	30	-	-	-	-	-	30	
	Total		2	20	30	120	110	230	300	-	150	-	450	680

^{*} Common with other diploma programme

[#] Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

Industrial training of 4 weeks duration to be organised after 4th semester exams

B. COMPULSORY SUBJECT OF I & II SEMESTER MECHANICAL ENGINEERING TO BE TAUGHT IN III & IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:

TOOL & DIE MAKER(PRESS TOOLS, JIGS & FIXTURES), TOOL & DIE MAKER (DESIGN & MOULDS), MECHANIC ACHINE TOOLS MAINTENANCE), DRAUGHTMAN (MECHANICAL), MACHINIST, MACHINIST (GRINDER), FITTER, TURNER, MECHANIC(DOMESTIC COMMERICAL, REFRIGERATION & AC), PRODUCTION & MANUFACTURING SECTOR, AUTOMOBILE SECTOR, REFRICERATION AND AIRCONDITIONER SECTOR, FABRICATION (FITTING & WELDING), MECHANIC (MOTOR VEHICLE), MECHANIC (AGRICULTURE M/c)

Sr.	SUBJECTS	STUDY SCHEME Periods/Week			Credits	MARKS IN INTERNAL ASSESSMENT			EVAL	Total Marks of Internal &				
No.		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	External
2.1	*Applied Mathematics - II	5	-	-	4	-	-	-	50	2 ½	-	-	50	50
2.2	*Applied Physics -II	5	-	2	5	-	-	-	50	2 1/2	20	3	70	70
	Total		-	2	9	-	-	-	100	-	20	-	120	120

- * Common with other diploma programme
- # Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

 Industrial training of 4 weeks duration to be organised after 4th semester exams
- (*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.
- (*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

FIFTH SEMESTER

	SUBJECTS		STUDY				Total							
Sr.		SCHEME Periods/Week			Credits		NTERN SESSM				Marks of Internal &			
No.		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	External
	Industrial Training (4 Weeks)	-	-	-	2	-	-	-	-	-	50	-	50	50
5.1	*Industrial Management and Entrepreneurship Development	5	-	-	4	20	-	20	50	2 ½	-	-	50	70
5.2	Theory of Machines	5	2	-	6	20	-	20	50	2 1/2	-	-	50	70
5.3	Machine Design	5	2	-	6	20	-	20	50	2 ½	-	-	50	70
5.4	Production Technology	6	-	8	7	20	20	40	50	2 1/2	50	4	100	140
5.5	Production Management	4	-	2	4	20	10	30	50	2 ½	20	3	70	100
5.6	Automobile Engineering (for Automobile, Production and CAD) Air Conditioning (for RAC) Repair And Maintenance—I (for Repair & Maintenance)	4	-	4	4	20	10	30	50	2 1/2	20	3	70	100
#Stuc	dent Centred Activities (SCA)	-	-	1	1	-	30	30	-	-	-	-	-	30
	Total		4	15	34	120	70	190	300	-	140	-	440	630

^{*} Common with other diploma programme

[#] Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

SIXTH SEMESTER

	SUBJECTS		STUDY				Total Marks of							
Sr.		SCHEME Periods/Week			Credits	INTERNAL ASSESSMENT				Internal &				
No.		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	External
6.1	Industrial Engineering	6	-	2	6	20	10	30	50	2 ½	20	3	70	100
6.2	Metrology and Measuring Instruments	5	-	4	7	20	10	30	50	2 1/2	20	3	70	100
6.3	CNC Machines and Automation	4	-	4	5	20	10	30	50	2 1/2	20	3	70	100
6.4	Automobile Maintenance, Servicing& Repair (for Automobile) Computer Aided Design (for CAD) Tool Engineering (for Production) Refrigeration Plant, Erection And Servicing (for RAC) Repairand Maintenance- II (for Repair & Maintenance)	. 5	-	-	6	20	1	20	50	2 1/2	-	-	50	70
6.5	Project Work	-	-	12	4	-	40	40	-	-	60	3	60	100
#Stuc	#Student Centred Activities (SCA)		-	6	1	-	30	30	-	-	-	-	-	30
	Total	20	-	28	29	80	100	180	200	-	120	_	320	500

[#] Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.