

## Part Time Diploma Programme in Mechanical Engineering

#### Scheme of Studies: Scheme of Studies (Hours/Week) SI.No. Board of Course Course Studies Titles Credit (C) Code Ρ т Т L+T+(P)/21 Humanities 0000171(046) **Communication Skill-I** 2 3 1 \_ Applied 2 0000172(014) Applied Maths-I 2 3 1 \_ Science Applied 0000173(011) Applied Chemistry 2 3 3 1 -Science Mechanical 4 0000174(037) Workshop Practice (Theory) 1 1 -Engineering Applied 0000191(011) Applied Chemistry (Lab) 5 2 1 -Science 6 Mechanical 0000193(037) Workshop Practice (Practical) 4 2 Engineering Total 07 03 06 13 T-Tutorial, **P**-Practical L-Lecture,

Semester-I

Lecture (L)→CI Classroom Instruction (Includes different instructional Strategies i.e Lecture and others)

Practical (P) $\rightarrow$ LI Laboratory Instruction (Includes practical performances in Laboratory ,workshop, field or other locations using different instructional strategies).

Tutorial (T)→Includes sessional work (SW) (assignment, seminar, mini project etc), & Self Learning (SL)



## Part Time Diploma Programme in Mechanical Engineering

## Semester – I

SI.No.		Codo		:					
	Board of Studies		Course Titles	Theory			Prac	tical	Total Marks
	Cludios		THUS	ESE	СТ	ТА	ESE	ТА	
1	Humanities	0000171(046)	Communication Skill-I	70	20	30	-	-	120
2	Applied Science	0000172(014)	Applied Maths-I	70	20	30	-	-	120
3	Applied Science	0000173(011)	Applied Chemistry	70	20	30	-	-	120
4	Mechanical Engineering	0000174(037)	Workshop Practice (Theory)	-	-	30	-	-	30
5	Applied Science	0000191(011)	Applied Chemistry (Lab)	-	-	-	30	50	80
6	Mechanical Engineering	0000193(037)	Workshop Practice (Practical)	-	-	-	50	30	80
Total					60	120	80	80	550

ESE : End Semester Exam,

Scheme of Examination:

CT: Class Test,

TA: Teachers Assessment

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% of total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes to appear in examination.



## Part Time Diploma Programme in Mechanical Engineering

## Semester - II

Board of	000130		Scheme of Studies (Hours/Week)					
Studies		Course Titles	L	Т	Р	Credit(C) L+T+(P)/2		
Humanities	0000271(046)	Communication Skill-II	2	1	-	3		
Applied Science	0000272(014)	Applied Maths-II	2	1	-	3		
Applied Science	0000273(015)	Applied Physics	2	1	-	3		
Computer Science & Engineering	0000274(022)	Computer Fundamentals and Applications	2	-	-	2		
Applied Science	0000290(015)	Applied Physics (Lab)	-	-	2	1		
Computer Science & Engineering	0000291(022)	Computer Fundamentals and Applications (Lab)	-	-	4	2		
Total					06	14		
	StudiesHumanitiesApplied ScienceApplied ScienceComputer Science & EngineeringApplied ScienceComputer Science & EngineeringEngineering	StudiesCodeHumanities0000271(046)Applied Science0000272(014)Applied Science0000273(015)Computer Science & Engineering0000274(022)Applied Science0000290(015)Computer Science & Engineering0000291(022)	StudiesCodeCourse litiesHumanities0000271(046)Communication Skill-IIApplied Science0000272(014)Applied Maths-IIApplied Science0000273(015)Applied PhysicsComputer Science & Engineering0000274(022)Computer Fundamentals and ApplicationsApplied Science0000290(015)Applied Physics (Lab)Computer Science & Engineering0000291(022)Computer Fundamentals and Applications (Lab)Total	StudiesCodeCourse litiesHumanities0000271(046)Communication Skill-II2Applied Science0000272(014)Applied Maths-II2Applied Science0000273(015)Applied Physics2Computer Science & Engineering0000274(022)Computer Fundamentals and Applied Physics (Lab)2Applied Science0000290(015)Applied Physics (Lab)-Computer Science & Engineering0000291(022)Computer Fundamentals and Applications (Lab)-Total08	StudiesCodeCourse litiesHumanities0000271(046)Communication Skill-II21Applied Science0000272(014)Applied Maths-II21Applied Science0000273(015)Applied Physics21Computer Science & Engineering0000274(022)Computer Fundamentals and Applied Physics (Lab)2-Applied Science0000290(015)Applied Physics (Lab)Computer Science & Engineering0000291(022)Computer Fundamentals and Applications (Lab)Total0803	StudiesCodeCourse litiesLTP-lumanities0000271(046)Communication Skill-II21-Applied Science0000272(014)Applied Maths-II21-Applied Science0000273(015)Applied Physics21-Computer Science & Engineering0000274(022)Computer Fundamentals and Applied Physics (Lab)2Applied Science0000290(015)Applied Physics (Lab)2Computer Science & Engineering0000291(022)Computer Fundamentals and Applications (Lab)4Computer Science & Engineering0000291(022)Computer Fundamentals and Applications (Lab)4		

Scheme of Studies:

Lecture (L) $\rightarrow$ CI Classroom Instruction (Includes different instructional Strategies i.e Lecture and others)

Practical (P)->LI Laboratory Instruction (Includes practical performances in Laboratory ,workshop, field or other locations using different instructional strategies).

Tutorial (T)→Includes sessional work (SW) (assignment, seminar, mini project etc), & Self Learning (SL)



## Part Time Diploma Programme in Mechanical Engineering

## Semester – II

Scheme of Examination:

	Board of Cours Studies Code	Course				Scheme of Examination					
SI.No.		Code	Course Titles	Theory			Practical		Total Marks		
			THUS	ESE	СТ	ТА	ESE	ТА	inditio		
1	Humanities	0000271(046)	Communication Skill-II	70	20	30	-	-	120		
2	Applied Science	0000272(014)	Applied Maths-II	70	20	30	-	-	120		
3	Applied Science	0000273(015)	Applied Physics	70	20	30	-	-	120		
4	Computer Science & Engineering	0000274(022)	Computer Fundamentals and Applications	70	20	30	-	-	120		
5	Applied Science	0000290(015)	Applied Physics (Lab)	-	-	-	30	50	80		
6	Computer Science & Engineering	0000291(022)	Computer Fundamentals and Application (Lab)	-	-	-	30	50	80		
	Total					120	60	100	640		
	ESE · End Seme	TA: Teach	ore Acc	occmont							

ESE : End Semester Exam,

CT: Class Test,

TA: Teachers Assessment

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% of total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes to appear in examination.



## Part Time Diploma Programme in Mechanical Engineering

#### Semester – III

		Course					me of Studies ours/Week)		
SI.No.	Board of Studies	Code	Course Titles	L	Т	Р	Credit (C) L+T+(P)/2		
1	Mechanical Engineering	0000371(037)	Applied Mechanics	2	1	-	3		
2	Mechanical Engineering	0000372(037)	Engineering Drawing	2	1	-	3		
3	Mechanical Engineering	0000374(037)	Basic Non-Conventional Energy Sources	1	1		2		
4	Civil Engineering	0000373(020)	Environmental Engineering and Sustainable Development	2	1	-	3		
5	Mechanical Engineering	0000390(037)	Applied Mechanics (Lab)	-	-	2	1		
6	Mechanical Engineering	0000391(037)	Basic Non-Conventional Energy Sources (Lab)	-	-	2	1		
7	Mechanical Engineering	0000392(037)	Engineering Drawing (Practical)	-	-	2	1		
8	Humanities	0000394(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	2	1		
	Total						15		
		L-Lecture,	T-Tutorial, P-F	ractical					

Lecture (L)→CI Classroom Instruction (Includes different instructional Strategies i.e Lecture and others)

Practical (P)→LI Laboratory Instruction (Includes practical performances in Laboratory ,workshop, field or other locations using different instructional strategies).

Tutorial (T)→Includes sessional work (SW) (assignment, seminar, mini project etc), & Self Learning (SL)

Scheme of Studies



## Part Time Diploma Programme in Mechanical Engineering

## Semester – III

	Describer	0			<b>T</b> I				
SI.No.	Board of Studies	Course Code	Course Titles	Theory			Prac	Total Marks	
	Studies	oout	The state of the s	ESE	СТ	ТА	ESE	ТА	Mar K5
1	Mechanical Engineering	0000371(037)	Applied Mechanics	70	20	30	-	-	120
2	Mechanical Engineering	0000372(037)	Engineering Drawing	70	20	30	-	-	120
3	Mechanical Engineering	0000374(037)	Basic Non-Conventional Energy Sources	-	-	70	-	-	70
4	Civil Engineering	0000373(020)	Environmental Engineering and Sustainable Development	70	50	30	-	-	150
5	Mechanical Engineering	0000390(037)	Applied Mechanics(Lab)	-	-	-	30	50	80
6	Mechanical Engineering	0000391(037)	Basic Non-Conventional Energy Sources (Lab)	-	-	-	30	50	80
7	Mechanical Engineering	0000392(037)	Engineering Drawing (Practical)	-	-	-	30	50	80
8	Humanities	0000394(046)	Seminar & Technical Presentation (Listening, Reading & Speaking)Skills	-	-	-	-	50	50
	Total				90	160	90	200	750
	ESE : End Semester Exam, CT: Class Test,				A: Teache	ers Assess	sment		

#### Scheme of Examination:

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% of total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes to appear in examination.



## Part Time Diploma Programme in Mechanical Engineering

## Semester – IV

SI.No.	Board of	Board of StudiesCourse CodeCourse Titles	Course	Scheme of Studies (Hours/Week)			
51.110.	Studies		Titles	L	т	Ρ	Credit(C) L+T+(P)/2
1	Electrical & Electronics Engineering	0037471(025)	Basic Electrical and Electronics	2	1	-	3
2	Mechanical Engineering	0037472(037)	Strength of Material	2	1	-	3
3	Mechanical Engineering	0037473(037)	Thermal Engineering	2	1	-	3
4	Mechanical Engineering	0037474(037)	Machine Drawing & Computer Aided Drafting	2	1	-	3
5	Electrical & Electronics Engineering	0037490(025)	Basic Electrical and Electronics (Lab)	-	-	2	1
6	Mechanical Engineering	0037491(037)	Strength of Material (Lab)	-	-	2	1
7	Mechanical Engineering	0037492(037)	Thermal Engineering (Lab)	-	-	2	1
8	Mechanical Engineering	0037493(037)	Machine Drawing & Computer Aided Drafting (Lab)	-	-	4	2
9	Humanities	0037494(046)	Seminar & Technical Presentation(Personality Development & Leadership) Skills	-	-	2	1
		Total		08	04	12	18

L-Lecture,

T-Tutorial,

P-Practical

Lecture (L) $\rightarrow$ CI Classroom Instruction (Includes different instructional Strategies i.e Lecture and others)

Practical (P) $\rightarrow$ LI Laboratory Instruction (Includes practical performances in Laboratory ,workshop, field or other locations using different instructional strategies).

Tutorial (T)→Includes sessional work (SW) (assignment, seminar, mini project etc), & Self Learning (SL)

Scheme of Studies



## Part Time Diploma Programme in Mechanical Engineering

#### Semester – IV

#### Scheme of Examination: Scheme of Examination Total Marks SI. No. Board of Course Theory Practical Course Studies Titles Code ESE TA ESE СТ TA Electrical & Electronics 0037471(025) 1 **Basic Electrical and Electronics** 70 20 30 120 \_ Engineering 2 Mechanical Engineering 70 20 30 120 0037472(037) Strength of Material \_ 0037473(037) 3 Mechanical Engineering 20 30 Thermal Engineering 70 \_ \_ 120 Machine Drawing & Computer Aided 0037474(037) 20 4 Mechanical Engineering 70 30 120 \_ \_ Drafting Electrical & Electronics 5 0037490(025) Basic Electrical And Electronics (Lab) 30 50 80 ---Engineering Mechanical Engineering 80 6 0037491(037) Strength Of Material (Lab) 30 50 ---7 Mechanical Engineering 0037492(037) 30 50 80 Thermal Engineering (Lab) -Machine Drawing & Computer Aided 8 Mechanical Engineering 0037493(037) 30 50 80 \_ Drafting (Lab) Seminar & Technical 0037494(046) Presentation (Personality Development & 9 **Humanities** 60 60 \_ \_ \_ Leadership) Skills 80 Total 280 120 120 260 860 ESE : End Semester Exam. CT: Class Test. **TA:** Teachers Assessment

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% of total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes to appear in examination.



## Part Time Diploma Programme in Mechanical Engineering

#### Semester – V

SI.No.	Board of	Board of Course	Course		Scheme of Studies (Hours/Week)			
51.INO.	Studies	Code	Titles	L	т	Р	Credit(C) L+T+(P)/2	
1	Mechanical Engineering	0037571(037)	Material Technology	2	1	-	3	
2	Mechanical Engineering	0037572(037)	Manufacturing Process	2	1	-	3	
3	Mechanical Engineering	0037473(037)	Industrial Measurements and Controls	2	1	-	3	
4	Mechanical Engineering	0037474(037)	Theory of Machines	2	1	-	3	
5	Mechanical Engineering	0037591(037)	Material Technology (Lab)	-	-	2	1	
6	Mechanical Engineering	0037592(037)	Manufacturing Process (Lab)	-	-	2	1	
7	Mechanical Engineering	0037493(037)	Industrial Measurements and Controls (Lab)	-	-	2	1	
8	Mechanical Engineering	0037494(037)	Theory of Machines (Lab)	-	-	2	1	
	· · ·	Total		08	04	08	16	

Lecture (L)→CI Classroom Instruction (Includes different instructional Strategies i.e Lecture and others)

Practical (P)→LI Laboratory Instruction (Includes practical performances in Laboratory ,workshop, field or other locations using different instructional strategies).

Tutorial (T)→Includes sessional work (SW) (assignment, seminar, mini project etc), & Self Learning (SL)

Scheme of Studies:



## Part Time Diploma Programme in Mechanical Engineering

#### Semester – V

#### Scheme of Examination Total Marks SI. No. Board of Course Theory Practical Course Studies Titles Code ESE СТ ΤА ESE TA Mechanical Engineering 0037571(037) Material Technology 1 70 20 30 120 -2 Mechanical Engineering 0037572(037) Manufacturing Process 70 20 30 120 \_ Industrial Measurements and Mechanical Engineering 0037573(037) 3 70 20 30 120 \_ \_ Controls 0037574(037) Theory of Machines 4 Mechanical Engineering 70 20 30 120 \_ -5 Mechanical Engineering 0037591(037) Material Technology (Lab) 30 50 80 ---Mechanical Engineering 0037592(037) Manufacturing Process (Lab) 6 30 50 80 ---Industrial Measurements and 7 Mechanical Engineering 0037593(037) 50 80 -\_ 30 -Controls (Lab) Mechanical Engineering 0037594(037) Theory of Machines (Lab) 8 --30 50 80 -Total 280 80 120 120 200 800

ESE : End Semester Exam,

Scheme of Examination:

CT: Class Test,

TA: Teachers Assessment

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% of total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes to appear in examination.



## Part Time Diploma Programme in Mechanical Engineering

#### Semester – VI

#### Scheme of Studies **Board** of Course Course (Hours/Week) S1.No. Studies Code Titles Credit(C) Ρ L Т L+T+(P)/20037671(037) 3 1 Mechanical Engineering **Engineering Metrology** 2 1 \_ Automobile Engineering 2 Mechanical Engineering 0037672(037) 2 1 3 \_ 3 Mechanical Engineering 0037673(037) Fluid Mechanics and Machinery 2 1 3 \_ 4 Mechanical Engineering 0037674(037) Machine Tool Technology 2 1 3 5 0037691(037) Engineering Metrology (Lab) Mechanical Engineering 2 1 \_ \_ 6 Mechanical Engineering 0037692(037) Automobile Engineering (Lab) 2 1 \_ \_ Fluid Mechanics and Machinery Mechanical Engineering 0037693(037) 7 2 1 \_ (Lab) 0037694(037) Machine Tool Technology (Lab) 2 8 Mechanical Engineering 1 \_ \_ Total 08 04 08 16 T-Tutorial,

L-Lecture,

P-Practical

Lecture (L) $\rightarrow$ CI Classroom Instruction (Includes different instructional Strategies i.e Lecture and others) Practical (P)→LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional

strategies).

Tutorial (T)  $\rightarrow$  Includes sessional work (SW) (assignment, seminar, mini project etc.) & Self Learning (SL)

Note:- Syllabus of subject in Part Time Diploma course will be same as the syllabus of subject in regular Diploma course with same subject name but different subject code.

#### **Scheme of Studies:**



## Part Time Diploma Programme in Mechanical Engineering

#### Semester – VI

Scheme of Examination:

				Sc	hem	e of Ex	aminat	ion	Total
S1. No.	Board of	Board of Course Course	Course	Theory			Prac	tical	Marks
NO.	Studies	Code	Titles	ESE	СТ	ТА	ESE	TA	
1	Mechanical Engineering	0037671(037)	Engineering Metrology	70	20	30	-	-	120
2	Mechanical Engineering	0037672(037)	Automobile Engineering	70	20	30	-	-	120
3	Mechanical Engineering	0037673(037)	Fluid Mechanics and Machinery	70	20	30	-	-	120
4	Mechanical Engineering	0037674(037)	Machine Tool Technology	70	20	30	-	-	120
5	Mechanical Engineering	0037691(037)	Engineering Metrology (Lab)	-	-	-	30	50	80
6	Mechanical Engineering	0037692(037)	Automobile Engineering (Lab)	-	-	-	30	50	80
7	Mechanical Engineering	0037693(037)	Fluid Mechanics and Machinery (Lab)	-	-	-	30	50	80
8	Mechanical Engineering	0037694(037)	Machine Tool Technology (Lab)	-	-	-	30	50	80
	Total					120	120	200	800
	ESE: End Semester	TA: Tead	chers A	Assessme	ent	I			

Note: i) TA in Theory includes Sessional work (SW) and Attendances (ATT) with weightage of 70% and 30% of total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes to appear in examination.