

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			T 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.

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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.

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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.