

Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-I

Scheme of Studies:

S.No	Board of	Course	Course				Studies Week)
	Study	Code	Titles	L	Р	Т	Credit L+T+(P/2)
1	Humanities	2000171(046)	Communication Skills-I	2	-	1	3
2	Applied Science	2000172(014)	Applied Maths-I	2	-	1	3
3	Civil Engineering	2000175(020)	Environmental Engineering & Sustainable Development	2	i	1	3
4	Applied Science	2000174(015)	Applied Physics	2	1	1	3
5	Mechanical Engineering	2000179(037)	Basic Non-Conventional Energy Sources	1	1	1	2
6	Computer Science and Engineering	2000176(022)	Computer Fundamentals & Applications	2	-	0	2
7	Applied Science	2000190(015)	Applied Physics (Lab)	1	2		1
8	Mechanical Engineering	2000191(037)	Basic Non-Conventional Energy Sources (Lab)	ı	2	ı	1
9	Computer Science and Engineering	2000193(022)	Computer Fundamentals & Applications (Lab)	-	4	-	2
10	Humanities	2000195(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	2	-	1
11	-	-	Library	-	2	-	-
12	-	-	Co-curricular & Academic Activity Societies	- 2			-
		Total		11	14	05	21

L - Lecture,

T - Tutorial,

P - Practical

Legend:

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)

Note: Leftover periods/week (6 periods/week) shall be utilized for Self Learning (SL) purpose.

Year: 2020-21

Session-2020



Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-I

Scheme of Examinations:

Session-2020

,					Sch	neme (of Exan	nination	
S. No	Board of	Course	Course		Theo	ry	Pract	Total	
140	Study	Code	Titles	ESE	СТ	TA	ESE	TA	Marks
1	Humanities	2000171(046)	Communication Skills-I	70	20	30	-	-	120
2	Applied Science	2000172(014)	Applied Maths-I	70	20	30	-	-	120
3	Civil Engineering	2000175(020)	Environmental Engineering & Sustainable Development	70	50	30	1	-	150
4	Applied Science	2000174(015)	Applied Physics	70	20	30	-	-	120
	Mechanical Engineering	2000179(037)	Basic Non-Conventional Energy Sources	-	-	70	-	-	70
6	Computer Science and Engineering	2000176(022)	Computer Fundamentals & Applications	70	20	30	-	-	120
7	Applied Science	2000190(015)	Applied Physics (Lab)	-	1	-	30	50	80
	Mechanical Engineering	2000191(037)	Basic Non-Conventional Energy Sources (Lab)	-	-	-	30	50	80
	Computer Science and Engineering	2000193(022)	Computer Fundamentals & Applications (Lab)	-	1	-	30	50	80
10	Humanities	2000195(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	-	-	-	60	60
	Total				130	220	90	210	1000

ESE: End of Semester Exam, CT: Class Test, TA: Teachers Assessment

Legend: PRA: Process Assessment, PDA: Product Assessment

Note: i. TA in Theory includes Sessional work (SW) and Attandance (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.



Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-II

Scheme of Studies:

Session-2020

S.No.	Board of		Course			me of S ours/W	
	Study	Code	Titles	L	Р	Т	Credit L+T+(P/2)
1	Humanities	2000271(046)	Communication Skills-II	2	-	1	3
2	Applied Science	2000272(014)	Applied Maths-II	2	-	1	3
3	Mechanical Engineering	2000275(037)	Applied Mechanics	2	-	1	3
4	Applied Science	2000278(011)	Applied Chemistry	2	-	1	3
5	Mechanical Engineering	2000277(037)	Engineering Drawing	2	-	1	3
6	Mechanical Engineering	2000276(037)	WorkShop Practice (Theory)	1	-	-	1
7	Mechanical Engineering	2000290(037)	Applied Mechanics (Lab)	-	2	1	1
8	Applied Science	2000291(011)	Applied Chemistry (Lab)	-	2	-	1
9	Mechanical Engineering	2000292(037)	Engineering Drawing (Practical)	-	2	-	1
10	Mechanical Engineering	2000294(037)	WorkShop Practice (Practical)	-	4	-	2
11	Humanities	2000293(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	2	-	1
12	-	-	Library	-	2	-	-
13	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
			11	16	05	22	

L - Lecture, T -

T - Tutorial,

P - Practical

Legend:

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 Learing (SL)

Note: Leftover periods/week (4 periods/week) shall be utilized for Self Learning (SL) purpose.



Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-II

Scheme of Examination:

C N =	Board of		60		Sche	eme o	f Exa	minatio	on
S.No	Study	Course Code	Course Titles	1	heory	,	Pra	ctical	Total
	Study	Code	Titles	ESE	СТ	TA	ESE	TA	Marks
1	Humanities	2000271(046)	Communication Skills-II	70	20	30	-	-	120
2	Applied Science	2000272(014)	Applied Maths-II	70	20	30	-	-	120
3	Mechanical Engineering	2000275(037)	Applied Mechanics	70	20	30	-	-	120
4	Applied Science	2000278(011)	Applied Chemistry	70	20	30	1	1	120
5	Mechanical Engineering	2000277(037)	Engineering Drawing	70	20	30	-	-	120
6	Mechanical Engineering	2000276(037)	WorkShop Practice (Theory)	-	1	30	1	1	30
7	Mechanical Engineering	2000290(037)	Applied Mechanics (Lab)	-	-	-	30	50	80
8	Applied Science	2000291(011)	Applied Chemistry (Lab)	-		-	30	50	80
9	Mechanical Engineering	2000292(037)	Engineering Drawing (Practical)	-	-	ı	30	50	80
10	Mechanical Engineering	2000294(037)	WorkShop Practice (Practical)	-	-	-	50	30	80
11	Humanities	2000293(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	-	-	50	50
		350	100	180	140	230	1000		

ESE: End of Semester Exam, CT: Class Test, TA: Teachers Assessment

Legend: PRA: Process Assessment, PDA: Product Assessment

Note: i. TA in Theory includes Sessional work (SW) and Attandance (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.

Year: 2020-21

Session-2020



Diploma in Electrical & Electronics Engineering

Semester – 3rd Sem

Scheme of Studies: Session-2020

S.	Board of	Course	Course			udies ek)	
No.	Study	Code	Titles	L	P	Т	Credit L+T+(P/2)
1	Electrical Engineering	2024371(024)	Electrical Circuits	2	-	1	3
2	Electrical Engineering	2024372(024)	Electrical and Electronic Measurements	2	-	1	3
3	Electrical Engineering	2024373(024)	DC Machines and Transformers	2	-	1	3
4	Electrical Engineering	2024374(024)	Electrical Drawing and CAD	3	-	0	3
5	Electrical & Electronics Engineering	2025375(025)	Basic Electronics	2	-	1	3
6	Electrical Engineering	2025361(024)	Electrical Circuits (Lab)	-	2	-	1
7	Electrical Engineering	2025362(024)	Electrical and Electronic Measurements (Lab)	-	2	-	1
8	Electrical Engineering	2025363(024)	DC Machines and Transformers (Lab)	-	2	-	1
9	Electrical & Electronics Engineering	2025364(025)	Basic Electronics (Lab)	-	2	-	1
10	Electrical Engineering	2024365(024)	Electrical Workshop Practice-I (Lab)	-	2	-	1
11	Humanities	-	Health, Hygiene and Yoga (Non-Credit Subject)	-	2	-	0
12			Library	-	2	-	0
		11	14	04	20		
			29				

L- Lecture,

T- Tutorial,

P- Practical,

Lecture (L)→ CL 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)



Diploma in Electrical & Electronics Engineering

Semester – 3rd Sem

Scheme of Examination:

Session-2020

				Scheme of Examination							
s.	Board of	Course	Course		Theory	ı.	1	ctical	Total		
No.	Study	Code	Titles				· ·	DA+Viva)	Marks		
				ESE	СТ	TA	ESE	TA			
1	Electrical	2024371	Electrical Circuits	70	20	30	_	_	120		
	Engineering	(024)		70	20	30		_	120		
2	Electrical	2024372	Electrical and Electronic	70	20	30	_	_	120		
	Engineering	(024)	Measurements					_			
3	Electrical	2024373	DC Machines and	70	20	30	_	_	120		
	Engineering	(024)	Transformers		20	3		_			
4	Electrical	2024374	Electrical Drawing and	70	20	30	_	_	120		
	Engineering	(024)	CAD		20	30		_			
5	Electrical &	2025375	Basic Electronics	70	20	30			120		
	Electronics	(025)					-	-			
	Engineering										
6	Electrical	2025361	Electrical Circuits (Lab)	_	_	_	30	50	80		
	Engineering	(024)					30	30	80		
7	Electrical	2025362	Electrical and Electronic	_	_	_	30	50	80		
	Engineering	(024)	Measurements (Lab)			_	30	30	80		
8	Electrical	2025363	DC Machines and	_	_	_	30	50	80		
	Engineering	(024)	Transformers (Lab)	_	_	•	30	30	80		
9	Electrical &	2025364	Basic Electronics (Lab)								
	Electronics	(025)		-	-	-	30	50	80		
	Engineering										
10	Electrical	2024365	Electrical Workshop				30	50	80		
	Engineering	(024)	Practice-I (Lab)				30	30	80		
11	Humanities	-	Health, Hygiene and Yoga								
			(Non-Credit Subject)		_	=	-	-	_		
	Total				100	150	150	250	1000		

ESE: End Semester Exam

CT: Class Test

TA: Teachers Assessment

PRA: Process Assessment, PDA: Product Assessment

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

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



Diploma in Electrical & Electronics Engineering

Semester - 4th Sem

Scheme of Studies : Session-2020

	Board of	Course	Course	Scheme of (Hours/\			
S.No	Study	Code	Titles	L	P	T	Credit L+T+(P/2)
1	Electrical & Electronics Engg.	2025471(025)	Digital Electronics	2	-	1	3
2	Electrical Engg.	2024472(024)	AC Machines	2	-	1	3
3	Computer Science & Engineering	2025473(022)	Computer Programming and Basic Networking	3	-	0	3
4	Electrical Engineering	2024474(024)	Electrical Power Generation, Transmission & Distribution	2	-	1	3
5	Electrical Engg / Electrical & Electronics Engg.	2024475(024) / 2025476(025)	Electrical Estimating and Costing* / Analog Electronics**	3	-	0	3
6	Electrical & Electronics Engg.	2025461(025)	Digital Electronics (Lab)	-	2	-	1
7	Electrical Engg.	2024462(024)	AC Machines (Lab)	-	2	-	1
8	Computer Science & Engineering	2025463(022)	Computer Programming and Basic Networking (Lab)	-	2	-	1
9	Electrical Engg.	2024464(024)	Electrical Power Generation, Transmission & Distribution (Lab)	-	2	-	1
10	Electrical Engg. / Electrical & Electronics Engg.	2024465(024) / 2025466(025)	Electrical Workshop Practice-II (Lab*) / Analog Electronics (Lab**)	-	2	-	1
11	-	-	Indian Constitution (Non Credit Subject)	-	2	-	0
	Total					03	20
		Tota	l		27	•	

^{*}Subject applicable for Electrical Branch

L- Lecture,

T- Tutorial,

P- Practical,

Lecture (L)→ CL 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)

Note: Summer Internship (Industrial Training) of 4 weeks will be carried out in summer vacation after completion of 4th sem and evaluation will be done in 5th sem.

^{**} Subject applicable for Electrical & Electronic Branch



Diploma in Electrical & Electronics Engineering

Semester - 4th Sem

Scheme of Examination:

Session-2020

				Scheme of Examination						
S. No	Board of Study	Course Code	Course Titles		Theory	1		ctical PDA+Viva)	Total Marks	
			111100	ESE	CT	TA	ESE	TA		
1	Electrical & Electronics Engg.	2025471(025)	Digital Electronics	70	20	30	-	-	120	
2	Electrical Engg.	2024472(024)	AC Machines	70	20	30	1	-	120	
3	Computer Science & Engineering	2025473(022)	Computer Programming and Basic Networking	70	20	30	-	-	120	
4	Electrical Engg. Engineering	2024474(024)	Electrical Power Generation, Transmission & Distribution	70	20	30	-	-	120	
5	Electrical Engg / Electrical & Electronics Engg.	2024475(024) / 2025476(025)	Electrical Estimating and Costing* / Analog Electronics**	70	20	30	-	-	120	
6	Electrical & Electronics Engg.	2025461(025)	Digital Electronics (Lab)	-	-	-	30	50	80	
7	Electrical Engg.	2024462(024)	AC Machines (Lab)	-	-	-	30	50	80	
8	Computer Science & engineering	2025463(022)	Computer Programming and Basic Networking (Lab)	-	-	-	30	50	80	
9	Electrical Engg.	2024464(024)	Electrical Power Generation, Transmission & Distribution (Lab)	-	-	-	30	50	80	
10	Electrical Engg. / Electrical & Electronics Engg.	2024465(024) / 2025466(025)	Electrical Workshop Practice-II (Lab*) / Analog Electronics (Lab**)	-	-	-	30	50	80	
11	-	-	Indian Constitution (Non Credit Subject)	-	-	-	-	-	-	
Total 350 100 150 150 250 10						1000				

*Subject applicable for Electrical Branch

** Subject applicable for Electrical & Electronic Branch

ESE: End of semester exam

CT: Class Test

TA: Teachers Assessment

PRA: Process Assessment, PDA: Product Assessment

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

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

Note: Summer Internship (Industrial Training) of 4 weeks will be carried out in summer vacation after completion of 4th semester and evaluation will be done in 5th sem.



Diploma in Electrical & Electronics Engineering

Semester - 5

Scheme of Studies: Session-2020

S.	Board of	Course	Course			Studie Week)	es .	
No.	Study	Code	Titles	L	Р	T	SL	Credit L+T+(P/ 2)
1.	Electrical Engineering	2024571 (024)	Power Electronics	3	-	1	1	4
2.	Electrical Engineering	2024572 (024)	Power System Operation and Protection	3	-	1	1	4
3.	Electrical & Electronics Engineering	2024573 (025)	Instrumentation and Process Control	2	-	1	1	3
4.	Electrical & Electronics Engineering	2025574 (025)	Microprocessor and Micro Controller	2	-	1	1	3
5.	Electrical & Electronics Engineering	2025561 (025)	Electrical and Electronics Simulation (Lab)	-	4	1	2	2
6.	Electrical Engineering	2025562 (024)	Power Electronics (Lab)	-	2	-	-	1
7.	Electrical Engineering	2025563 (024)	Power System Operation and Protection (Lab)	-	2	-	-	1
8.	Electrical & Electronics Engineering	2025564 (025)	Instrumentation and Process Control (Lab)	-	2	ı	-	1
9.	Electrical & Electronics Engineering	2025565 (025)	Microprocessor and Micro Controller (Lab)	-	2	ı	-	1
10.	Electrical Engineering	2025566 (024)	Industrial Training	-	2	-	2	1
		10	14	04	08	21		
			36					

L-Lecture, **T**-Tutorial, **P**-Practical,

Lecture (L) →CL 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)



Diploma in Electrical & Electronics Engineering

Semester - 5

Scheme of Examination:

Session-2020

				Scheme of Examination					
S. No.	Board of Study	Course	Course Titles	Theory			Praction (PRA+PDA		Total Marks
	Study	Code	11000	ESE	СТ	TA	ESE	TA	
1.	Electrical Engineering	2024571 (024)	Power Electronics	70	20	30	-	-	120
2.	Electrical Engineering	2024572 (024)	Power System Operation and Protection	70	20	30	-	-	120
3.	Electrical & Electronics Engineering	2024573 (025)	Instrumentation and Process Control	70	20	30	-	-	120
4.	Electrical & Electronics Engineering	2025574 (025)	Microprocessor and Micro Controller	70	20	30	-	-	120
5.	Electrical & Electronics Engineering	2025561 (025)	Electrical and Electronics Simulation (Lab)	-	-	-	40*	50	90
6.	Electrical Engineering	2025562 (024)	Power Electronics (Lab)	-	-	-	40	50	90
7.	Electrical Engineering	2025563 (024)	Power System Operation and Protection (Lab)	-	-	1	40	50	90
8.	Electrical & Electronics Engineering	2025564 (025)	Instrumentation and Process Control (Lab)	-	-	-	40	50	90
9.	Electrical & Electronics Engineering	2025565 (025)	Microprocessor and Micro Controller (Lab)	-	-	-	40	50	90
10.	Electrical Engineering	2025566 (024)	Industrial Training	-	-	-	30	40	70
	Total				80	120	230	290	1000

ESE: End Semester Exam,

CT: Class Test,

TA: Teachers Assessment,

PRA: Process Assessment,

PDA: Product Assessment

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

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



Diploma in Electrical & Electronics Engineering

Semester – 6

Scheme of Studies: Session-2020

				Scheme of Stu				
S.	Board of	Course	Course Titles			(Hou	rs/We	ek)
No	Study	Code	Course rities	L	P	Т	SL	Credit L+T+(P/2)
1.	Electrical Engineering	2024671(024)	Utilization of Electrical Energy and Traction	3	ı	1	1	4
2.	Electrical & Electronics Engineering	2025672(025)	Principles of Communication	3	-	1	1	4
3.	Mechanical Engineering	2000673(037)	Entrepreneurship Development and Management	2		1	1	3
4.		E	lective (Any One)					
	Electrical Engineering	2024681(024)	Industrial Automation	2		1	1	3
	Engineering	2024682(024)	Energy Conservation & Energy Audit			1	1	3
5.	Electrical Engineering	2025661(024)	Utilization of Electrical Energy and Traction (Lab)	-	2	-	1	1
6.	Electrical & Electronics Engineering	2025662(025)	Principles of Communication (Lab)	-	2	-	1	1
7.	Electrical	E	lective (Any One)					
	Engineering	2025691(024)	Industrial Automation (Lab)					
		2025692(024)	Energy Conservation & Energy Audit (Lab)	_	2	-	1	1
8.	8. Electrical 202566. Engineering		Major Project	-	3	-	2	2
	Total			10 09 04 09				19
	Total				3			

L-Lecture, **T**-Tutorial, **P**-Practical,

Lecture (L) →CL 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)



Diploma in Electrical & Electronics Engineering

Semester – 6

Scheme of Examination:

Session-2020

					Scheme of Examination					
S. No	Board of Study	Course Code	Course Titles	7	heor	/		ctical DA+Viva)	Total Marks	
				ESE	СТ	TA	ESE	TA		
1.	Electrical Engineering	2024671(024)	Utilization of Electrical Energy and Traction	70	20	30	-	-	120	
2.	Electrical & Electronics Engineering	2025672(025)	Principles of Communication	70	20	30	-	-	120	
3.	Mechanical Engineering	2000673(037)	Entrepreneurship Development and Management	70	20	30	-	1	120	
4	e		Elective (Any One)							
	Electrical Engineering	2024681(024)	Industrial Automation							
	Engineering	2024682(024)	Energy Conservation & Energy Audit	70	20	30	-	-	120	
5.	Electrical Engineering	2025661(024)	Utilization of Electrical Energy And Traction (Lab)	-	-	-	40	60	100	
6.	Electrical & Electronics Engineering	2025662(025)	Principles of Communication (Lab)	-	-	-	40	60	100	
7.	Electrical		Elective (Any One)							
	Engineering	2025691(024)	Industrial Automation (Lab)	_	-	-	40	60	100	
		2025692(024)	Energy Conservation & Energy Audit (Lab)							
8.	Electrical Engineering	2025663(024)	Major Project	-	-	-	100	120	220	
	Total			280	80	120	220	300	1000	

ESE: End Semester Exam,

CT: Class Test,

TA: Teachers Assessment,

PRA: Process Assessment,

PDA: Product Assessment

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

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