LESSONPLAN-2023(WINTER2023)
SWAMIVIVEKANANDASCHOOLOFENGG&TECH,BBSR

Discipline-ELECTRICAL	Semester-5TH	Nameofteachingfaculty- SUBASH CH. SWAIN
SUBJECT-UEET	No of days/ per weekclassalloted-5	SEMFromdate-01/08/2023 No of weeks-17
Week	Classday	TheoryTopics-UtilizationofElectricalEnergy&Traction
1ST	01.08.2023	1.1.DefinitionandBasicprincipleofElectroDeposition.
	02.08.2023	1.2.Importanttermsregardingelectrolysis.
	03.08.2023	1.3.FaradaysLawsof Electrolysis.
	04.08.2023	1.4.Definitionsofcurrentefficiency,Energyefficiency.
2ND	07.08.2023	1.5.PrincipleofElectroDeposition.
	08.08.2023	Do
	09.08.2023	1.6.FactorsaffectingtheamountofElectroDeposition.
	10.08.2023	1.7.Factorsgoverningtheelectrodeposition.
	11.08.2023	1.8.Statesimpleexampleofextractionofmetals.
	12.08.2023	1.9.ApplicationofElectrolysis.
3RD	14.08.2023	CLASS TEST
	16.08.2023	2.1.Advantagesofelectricalheating.
	17.08.2023	2.2.ModeofheattransferandStephen'sLaw.
	18.08.2023	2.3.PrincipleofResistanceheating.(Directresistanceandindirect resistance heating.)
	19.08.2023	do
4TH	21.08.2023	2.4.Discussworkingprincipleofdirectarcfurnace.
	22.08.2023	indirectarc furnace
	23.08.2023	2.5.PrincipleofInductionheating.
	24.08.2023	2.5.1.Workingprincipleofdirectcoretype,verticalcoretype
	25.08.2023	indirectcoretypeInductionfurnace.
	26.08.2023	2.5.2.Principleofcorelessinductionfurnaceandskin effect.
5TH	28.08.2023	2.6.Principleofdielectricheatinganditsapplication.
	29.08.2023	2.7.PrincipleofMicrowaveheatinganditsapplication.
	30.08.2023	Do
	31.08.2023	CLASSTEST

	01.09.2023	3.1 Explainprincipleofarcwelding.
	02.09.2023	3.2 DiscussD.C.&A.C.Arcphenomena
1ST	04.09.2023	3.4 Typesofarcwelding
	05.09.2023	Do
	06.09.2023	3.5.Explainprinciplesofresistancewelding
	07.09.2023	do
	08.09.2023	3.6.Descriptivestudyofdifferentresistanceweldingmethods.
	09.09.2023	Do
2ND	11.09.2023	CLASS TEST
	12.09.2023	4.1.NatureofRadiationanditsspectrum.
	13.09.2023	4.2.Termsusedinlluminations.[Lumen,Luminousintensity,
	14.09.2023	Intensityofillumination,MHCP,MSCP,MHSCP
	15.09.2023	Solidangle,Brightness,Luminousefficiency.
	16.09.2023	4.3.Explaintheinversesquarelawandthecosinelaw.
3RD	18.09.2023	4.5 Describelightdistributionandcontrol.
	20.09.2023	Explainrelateddefinitionslikemaintenancefactoranddepreciationfc
	21.09.2023	4.6.Designsimplelightingschemesanddepreciationfactor.
	22.09.2023	4.7.Constructionalfeatureandworkingoffilamentlamps
	23.09.2023	DO
4TH	25.09.2023	effectofvariationofvoltageonworkingoffilamentlamps.
	26.09.2023	4.8.ExplainDischargelamps.
	27.09.2023	4.9.StateBasicideaaboutexcitationingasdischargelamps.
	28.09.2023	4.10.Stateconstructionalfacturesandoperationoffluorescentlamp.
	30.09.2023	Do
1ST	03.10.2023	4.11.Sodiumvaporlamps.4.12.Highpressuremercuryvaporlamps
	04.10.2023	4.13.Neonsignlamps.
	05.10.2023	4.14.Highlumenoutput&lowconsumptionfluorescentlamps
	06.10.2023	DO
	07.10.2023	CLASSTEST
2ND	09.10.2023	QuestionDiscussion
	10.10.2023	INTERNAL
	11.10.2023	INTERNAL
	12.10.2023	INTERNAL
	13.10.2023	INTERNAL
	14.102023	INTERNAL

3RD	16.10.2023	5.1.Stategroupandindividualdrive.
	17.10.2023	5.2.Methodofchoiceofelectricdrives
	18.10.2023	5.3.Explainstartingandrunningcharacteristicsof DCandACmotor.
	19.10.2023	5.4.StateApplicationof:5.4.1 DCmotor.
	20.10.2023	5.4.2.3phasesynchronousmotors
	30.10.2023	5.4.3.3-phaseinductionmotor.
	31.10.2023	5.4.4.Singlephaseinduction,series motor
1ST	01.11.2023	5.4.5universalmotorandrepulsionmotor.
	02.11.2023	CLASSTEST
	03.11.2023	6.1.Explainsystemoftraction.
	04.11.2023	6.2.SystemofTrackelectrification.
2ND	06.11.2023	6.3.RunningCharacteristicsofDCandACtractionmotor.
	07.11.2023	6.4.Explaincontrolofmotor;6.4.1.Tappedfieldcontrol.
	08.11.2023	6.4.2.Rheostaticcontrol.
	09.11.2023	6.4.3.Seriesparallelcontrol.
	10.11.2023	6.4.4.Multi-unitcontrol.
	11.11.2023	6.4.5.Metadynecontrol.
3RD	13.11.2023	CLASSTEST
	14.11.2023	Previousyearquestiondiscussion
	15.11.2023	Revisionofchapter1
	16.11.2023	Do
	17.11.2023	Do
	18.11.2023	Previousyearquestiondiscussion
4TH	20.11.2023	Revisionofchapter2.3
	21.11.2023	Do
	22.11.2023	Do
	23.11.2023	Previousyearquestiondiscussion
	24.11.2023	Previousyearquestiondiscussion
	25.11.2023	Previousyearquestiondiscussion
	27.11.2023	Previousyearquestiondiscussion
	28.11.2023	2&5Markquestiondiscussion
	29.11.2023	2&5Markquestiondiscussion
	30.11.2023	2&5Markquestiondiscussion

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Electrical Engineering
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