DISCIPLINE		SEMESTER NAME OF THE TEACHING FACULTY SRI SUSHANTA KUMAR MALIK, SR. LECTURER 3RD				
					SUBJECT:EEM(TH-4)	
	NO. OF WEEKS: 15 NOS.					
/EEKS	CLASS DAYS	100	THEORY TOPICS	4		
	157	Introduction to electrical engineering materials				
157	2ND	Introduction	to conducting materials			
	3RD	Resistivity				
	4TH	factors affecting resistivity				
	1ST	Classification of conducting materials				
ZND -	2ND	low-resistivity and high resistivity materials				
	3RD	Low Resistivity Materials and their Applications				
	4TH	Copper, Silver, Gold, Aluminum, Steel				
	1ST	Stranded cor	nductors			
3RD	2ND	Bundled conductors				
	3RD	Low resistivity copper alloys				
	4TH	High Resistivity Materials and their Applications				
	1ST	Tungsten, Carbon, Platinum, Mercury				
4TH	2ND	Superconductivity /				
-111	3RD	Superconducting materials				
	4TH	Application of superconductor materials				
	1ST	Introduction to semiconducting materials				
5TH	2ND	Electron Energy and Energy Band Theory				
31n	3RD	Excitation of Atoms				
	4TH	Insulators, Semiconductors and Conductors				
	1ST	Semiconductor Materials				
CTU	2ND	Covalent Bonds				
6ТН —	3RD	Intrinsic Semiconductors, Extrinsic Semiconductors				
	4TH	p type and ntype materials				
	1ST	Minority and Majority Carriers				
	2ND	Semi-Conductor Materials, Applications of Semiconductor materials				
7TH -	3RD	Introduction to insulating materials				
	4TH	General properties of Insulating Materials				
8TH	1ST	Electrical, Mechanical and visual property				
	2ND	Chemical properties Ageing				
	3RD	Insulating Materials – Classification, properties, applications				
	4TH	Classification of insulating materials on the basis physical and chemical structure				
этн -	1ST	Insulating Gases				
	2ND	Commonly used insulating gases				
	3RD	Commonly used insulating gases continuition.				
	4TH	dielectric materials				
	1ST		nstant of Permittivity			
OT	2ND	dielectric bre	The state of the s			
10TH -	3RD	Polarization	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	4TH	Dielectric Loss				
	1ST		uctivity of Dielectrics and their Break Down			
11ТН	2ND	Properties of		12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14		
	3RD	Applications				

	4TH	Introduction to magnetic materials				
	1ST	Classification of magnetic materials				
	2ND	Diamagnetic paramagnetic and ferromagnetic				
12TH -	3RD	Magnetization Curve				
ME	4TH	Hysteresis , eddy current ,curie point				
	1ST	magnetostriction with the state of the state				
	2ND	Soft and Hard magnetic Materials				
13TH -	3RD	Soft and Hard magnetic Materials continuition				
	4TH	Materials for Special Purposes				
16	1ST	Structural Materials				
	2ND	Steel tapes, wires and strips				
14TH	3RD	Protective Materials				
	4TH	Thermocouple materials				
15	1ST	Soldering Materials				
	2ND	Fuse and Fuse materials.				
15TH -	3RD	Dehydrating material				
	4TH	Lead, Bimetals				
		TO BEST BEST BEST BOOK OF THE WATER BOOK OF THE STATE OF				

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