

GURU NANAK DEV ENGINEERING COLLEGE LUDHIANA

ELECTRICAL ENGG. DEPARTMENT

Branch EE (D2EE) 3<sup>rd</sup> Sem.

S. No.	Subject Name	Syllabus
1.	EM-III	<p>Module 3: Basic statistics                      Measure of central tendency, Moments, Skewness &amp; Kurtosis, Correlation, Regression - Rank Correlation</p> <p>Module 4: Applied statistics                      Curve fitting - fitting of straight line and parabolas</p>
2.	ET and Society	<p>Chapter 1 - Introduction to Education &amp; Society.</p> <p>Chapter 2 - Ethics in Power Utility</p> <p>Chapter 3 - Micro-grids, PV systems, HVA C</p>
3	AE	<p>Chapter 1 Diode circuit</p> <p>Chapter 2 BJT circuits</p>
4	ECA	<p>Chapter: 1 DC circuits &amp; Network theorems</p> <p>Chapter: 2 First order &amp; second order differential solution of Network</p>
5	E Machines-I	<p>Chapter: 1 <del>Static magnetic tech.</del> Magnetic field and Magnetic circuits</p> <p>Chapter: 2 <del>Full mapping</del> DC Generators</p>
6	EMF	Ch-1 and 2.

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Branch EE (D3EE) 5<sup>th</sup> Sem.

S. No.	Subject Name	Syllabus
1	SM	Chapter 1 → Construction, windings, Excitation Systems; distribution factor, coil span factor Chapter 2 Phases diagrams, Armature Reaction, synchronous reactance, Equivalent circuit O.C.C., S.C.C.
2	IE	Chapter 1 - Electronic Instruments Chapter 2 - Digital Instruments.
3	N & ST	Chapter 1, Chapter 2, Chapter 3 → Taylor Series, R-K Method, Euler Method.
4	IE	CHAPTER - 1, CH-2 Phase control CH-3 [ Single Phase HW & FW Rectifier with R and RL Load including freewheeling diode effect ]
5	RER	✓ CHAPTER - 1 ✓ CHAPTER - 2 :- SOLAR & WIND POWER - FUEL CELL
6	EAM	Chapter - 1, 2 Energy Resources, Energy Audit

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Branch EE (D4EE) 7<sup>th</sup> Sem.

S. No.	Subject Name	Syllabus
1	DCS	Chapter 1 : state variable tech. Chapter 2. full mapping
2	EEM	(1) ENERGY MANAGEMENT & AUDIT (2) ENERGY EFFICIENT TECHNOLOGIES IN ELECTRICAL SYSTEMS.
3	FACTS	1) Chapter -1 2) Chapter -2
4	HVE	Conduction and Breakdown in Gases, Liquids.
5	PSP/SER	Chapter 1 & 2 complete Chapter 3 upto eDNS.
	SER	Chapter 1 & 2.
6	CAPSA	Ph. System - Chapter 1 of Syllabus upto Gauss-Seidel Method - Chapter 2 of Syllabus

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Branch EE (M1) 1<sup>st</sup> Sem.

S. No.	Subject Name	Syllabus
1	APSA	Ch-1 → Load Flow Studies
2	ERPW	Unit 1 - Planning and Preparation Unit 2 layout of a report / research paper
3	PSD-1	Chapter: 1 Chapter: till aomature mutual Inductance
4	RM and IPR	Chaptu 1, 2 & 3.
5	Smart Grids	1) chapter - 1 2) chapter - 2 → Smart Metering System.
6	E and HV	Chapter 2 and 3



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Branch EE (M2) 3<sup>rd</sup> Sem.

S. No.	Subject Name	Syllabus
1	OMRPS	CHAPTER 1, 4 and 5
2	Open Elective	