


Government Polytechnic Kullu at Seobagh ,Distt. Kullu H.P-175138**Department of Electrical Engineering****Lesson Plan**

Name of Faculty	Er. Lalit Kumar
Discipline	Electrical Engineering
Semester	6th
Subject	B.E (L-6 Hrs./Week)
Lesson Plan Duration	Jan-May 2026

Week	Topic	Theory
1st (27 Jan. – 02 Feb.)	Unit – I Wiring Accessories	Switch – Their types according to construction such as surface switch, flush switch, and pull switch, rotary switch, knife switch, pendent switch, Main-switch (ICDP, ICTP).
2nd (03 Feb. – 09 Feb.)	Unit – I Wiring Accessories	Holders- Their types such as bayonet cap lamp holder, pendent holder, batten lamp holder, angle holder, bracket holder, tube light holder, screw type Edison and goliath Edison lamp holder, swivel lamp holder.
3rd (10 Feb-17 Feb.)	Unit – I Wiring Accessories Unit – II Electrical Wires and Underground Cables	Socket outlets and plugs- two pin, three-pin, multi pin sockets, two-pin and three-pin plug. Conductors: - (Definitions only) wire, cable, bus bar, stranded conductor, cable, armoured cable, flexible cable, solid conductor, PVC wires,.
4th (18 Feb. – 24 Feb.)	Unit – II Electrical Wires and Underground Cables	CTS wire, LC wire, FR (Fire retardant) wire, Size of wire according to BIS. Tools used for measurement of wire size Classification of cables (brief introduction) - low tension, high tension, and extra high-tension cables, solid, oil filled and gas filled type.
5th (25 Feb - 03 Mar.)	Unit – II Electrical Wires and Underground Cables	Cable insulation materials (brief introduction) - vulcanized rubber (VIR), polyvinyl chloride (PVC), cross linked polythene (XLPE), impregnated paper.
6th (05 Mar. – 11 Mar.)	Unit– III Wiring Methods and wiring layout	Factors determining the selection of wiring methods. Conduit wiring- Types of conduit, comparison between Metal and PVC conduit, types of conduit wiring (Surface/Concealed).
CLASS TEST -1		2nd week of March 2026
7th (12 Mar. – 19 Mar.)	Unit– III Wiring Methods and wiring layout	Comparison of various wiring system. Design, working and drawing of following electrical circuit
8th (20 Mar. – 28 Mar.)	Unit– III Wiring Methods and wiring layout	Simple light and fan circuits, Stair case wiring, Bedroom lighting circuit, Corridor lighting circuit.
9th (30 Mar. – 06 April)	Unit– IV Residential Building Electrification	Difference between residential and industrial load. Lighting and power circuits: Light and fan circuit, Power circuit

10th (07 April. – 16 April.)	Unit- IV Residential Building Electrification	Wiring and circuit Schematic diagrams: multiline and single line representation Load assessment: Selection of size of conductor, Selection of rating of main switch and protective switch gear
CLASS TEST -2		3rd week of April 2026
11th (17 April. – 23 April.)	Unit- IV Residential Building Electrification	Design and drawing, estimation and costing of a residential installation having maximum 5 KW load; Sequence to be followed for preparing estimate. Calculation of length of wire and other materials, labour cost. Calculation of Material required for service connection
12th (24 April -30 April)	Unit- V Illumination in Residential Installation	Definition: Luminous flux, Luminous intensity, Lumen, Illumination or illuminance, Lux, Space-height ratio, utilization factor
13th (02 May-08 May.)	Unit- V Illumination in Residential Installation	depreciation factor, luminous efficiency Laws of Illumination- Inverse Square Law, Cosine Law.
House Test		2ND week of May 2026
14th (11 May-16 May.)	Unit- V Illumination in Residential Installation	Factors affecting the illumination, Luminous flux of different types of light sources, Lux level required for different places
15th (18 May-23 May)	Revision & Doubt Clearance	Revision & Doubt Clearance
16th (25 May-26 May)	Revision & Doubt Clearance	Revision & Doubt Clearance

NOTE: Lesson Plan is Tentative, subject to availability of Time, Students & Faculty.


Signature of Teacher
(Er. Lalit Kumar)



Signature of HOD/orc
(Er. Aman Anand)

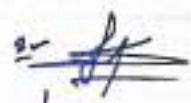
Government Polytechnic Kullu at Seobagh ,Distt. Kullu H.P-175138**Department of Electrical Engineering****Lesson Plan**

Name of Faculty	Er. Lalit Kumar
Discipline	Electrical Engineering
Semester	6th
Subject	B.E (P-2 Hrs./Week)
Lesson Plan Duration	Jan-May 2026

Week	Practical No.	Practical Name
1 st (27 Jan. -31 st Jan.)	Practical-1	Prepare series testing board.
2 nd (02Feb. -7 Feb.)		
3 rd (9 Feb-14 Feb.)	Practical-2	Select the electric wire using measuring and testing instruments for particular applications
4 th (16 Feb. -20 Feb.)		
5 th (23 Feb - 28 Feb.)	Practical-3	Identify cables of different current ratings.
6 th (02 Mar. - 07 Mar.)		
7 th (09 Mar. -13 Mar.)	Practical-4	Identify different Cable insulation materials (brief introduction) - vulcanized rubber (VIR), polyvinyl chloride (PVC), cross linked polythene (XLPE),impregnated paper used in various applications.
8 th (16 Mar -20 Mar.)		
9 th (23 Mar. -28 Mar.)	Practical-5	Control one lamp from two different places using PVC surface conduit wiring system
10 th (30 Mar. - 04 April.)		
11 th (06 April.- 10 Apr.)	Practical-6	Design 2 BHK residential installation scheme and estimate the material required. And draw the details required for installation on A4 size sheet.
12 th (13 April -18 Apr)		
13 th (20 April -25 Apr)	Practical-7	Identify and study different types of light sources and their Luminous flux.
14 th (27 April -2 May.)		
(2 May-26 May)	Revision	-----

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(Er. Lalit Kumar)


Signature of HOD/dc

Government Polytechnic Kullu, Jagdishpur, Distt Kullu H.P. 175138

Automobile Engineering Department

Lesson Plan w.e.f 27/01/2026 to 27/05/2026

Branch : (Civil, Electrical,
Automobile)Engineering

Semester: 6th Sem

Session: Jan- May 2026


Subject: Entrepreneurship and Start-ups

Name of the teacher : Neetu Thakur

Designation : Lecturer English

Sr No	Week / Month	Name of the chapter	Topics to be covered
1	1st (27 Jan - 31 Jan)	UNIT 1 – Introduction to Entrepreneurship and Start-Ups	Definitions, Traits of an entrepreneur, Intrapreneurship, Motivation.
2	2nd (02 Feb - 07 Feb)		Types of Business Structures, Similarities/differences between entrepreneurs and managers.
3	3rd (09 Feb - 13 Feb)		Similarities/differences between entrepreneurs and managers.
4	4th (16 Feb - 21 Feb)	UNIT 2 – Business Ideas and their implementation	Discovering ideas and visualizing the business
5	5th (23 Feb - 28 Feb)		Discovering ideas and visualizing the business, Activity map Business Plan
6	6th (02 Mar - 07 Mar)	UNIT 3 –Idea to Start-up	Market Analysis–Identifying the target market,
7	7th (09 Mar - 13 Mar)		1st Class Test, Revision
8	8th (16 Mar - 20 Mar)		Competition evaluation and Strategy Development, Marketing and accounting, Risk analysis
9	9th (23 Mar - 28 Mar)	UNIT 4 –Management	Risk analysis Company's Organization Structure,
10	10th (30 Mar - 04 Apr)		Recruitment and management of talent. Financial organization and management
11	11th (06 Apr - 10 Apr)		2nd Class Test, Revision
12	12th (13 Apr - 18 Apr)		Recruitment and management of talent. Financial organization and management
13	13th (20 Apr - 25 Apr)	UNIT 5-Financing and Protection of Ideas	Introduction
14	14th (27 Apr - 02 May)		Financing methods available for start-ups in India Communication of Ideas to potential investors–Investor Pitch
15	15th (04 May -08 May)		House Test
16	16th (11 May - 16 May)		Financing methods available for start-ups in India Communication of Ideas to potential investors–Investor Pitch
17	17th (18 May - 23 May)	UNIT 6 –Exit strategies for entrepreneurs	Introduction, bankruptcy, and succession and harvesting strategy.
18	18th (25 May - 26 May)		bankruptcy, and succession and harvesting strategy.


Teacher signature
Neetu Thakur


H.O.D/01c

Government Polytechnic Kullu, Distt. Kullu H.P
Department of Electrical Engineering
Lesson Plan

Name of Faculty	Er Naval Kishor
Discipline	Electrical Engineering
Semester	6th
Subject	Energy Efficiency And Audit (L-4 Hrs./Week)
Lesson Plan Duration	Jan-May 2026

Week	Topic	Theory
1st (27 Jan. -02 Feb.)	Unit – I Introduction to Energy Efficiency	Energy Scenario: Energy demand and supply, National scenario.
2nd (3Feb. – 9 Feb.)	Unit – I Introduction to Energy Efficiency	Energy Efficiency and Energy Conservation concepts
3rd (10 Feb-16 Feb.)	Unit – I Introduction to Energy Efficiency	Indian Electricity Act 2001; relevant clauses of energy conservation BEE and its Roles; Star Labelling: Need and its benefits.
4th (17 Feb . –23 Feb.)	Unit – II Pumping Systems, Fans and Blowers	Factors affecting pump performance; Efficient Pumping system operation
5th (24 Feb - 02 Mar.)	Unit – II Pumping Systems, Fans and Blowers	Energy conservation opportunities in Pumping systems
6th (3 Mar. – 9 Mar.)	Unit – II Pumping Systems, Fans and Blowers	Energy Conservation opportunities in Fan and blowers, Tips for energy saving in fans and blowers.
CLASS TEST -1		2nd week of March 2026
7th (16 Mar. – 22 Mar.)	Unit –III Energy Conservation in Lighting System	Replacing Lamp sources; using energy efficient luminaries Using light controlled gears
8th (23 Mar. –29 Mar.)	Unit –III Energy Conservation in Lighting System	Installation of separate transformer/servo stabilizer for lighting
9th (30 April – 5 April)	Unit –III Energy Conservation in	Innovative measures of energy savings in lighting.

	Lighting System	
CLASS TEST -2		2nd week of April 2026
10th (13 April – 19 April)	Unit– IV Energy Efficient Electrical Machines	Need for energy conservation in induction motor and transformer
11th (20 April. – 26 April .)	Unit– IV Energy Efficient Electrical Machines	Energy efficient motor; significant features, advantages and Limitations.
12th (27 April – 3 May.)	Unit– IV Energy Efficient Electrical Machines	Energy efficient transformers, amorphous core transformers; epoxy Resin cast transformer/Dry type of transformer,
13th (4 May -10 May)	Unit– IV Energy Efficient Electrical Machines	Technical losses; causes and measure to reduce losses, Commercial losses: pilferage, causes and remedies.
House Test		2nd week of May 2026
14th (13 May -19 May.)	Unit– V Energy Audit of Electrical Systems	Energy audit (definition as per Energy Conservation Act), Energy audit instruments and their use, Questionnaire for energy audit projects
15th (19 May-27 May.)	Unit– V Energy Audit of Electrical Systems	Energy flow diagram (Sankey diagram), Simple payback period, Energy Audit procedure (walk through audit and detailed audit). Energy Audit report format.

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Signature of Teacher
(Er. Naval Kishor)

Signature of HOD/OIC
(Er. Aman Anand)

Government Polytechnic Kullu at Seobagh ,Distt. Kullu H.P-175138

Department of Electrical Engineering

Lesson Plan

Name of Faculty	Er. Sandeep Bhardwaj
Discipline	Electrical Engineering
Semester	6th
Subject	Electric Traction (L-3,DCS-1) Hrs./Week)
Lesson Plan Duration	Jan-May 2026

Week	Topic	Theory
1 st (27 Jan. -02 Feb.)	Unit – I Basics of Traction	General description of Electrical Traction system in India.
2 nd (03Feb. – 10 Feb.)	Unit – I Basics of Traction	Advantages and Disadvantages of Electric Drive, Diesel Electric Drive, Battery Drive
3 rd (11 Feb-18 Feb.)	Unit – I Basics of Traction Unit – II Power Supply Arrangements	Problems associated with AC traction System and remedies for it. Constituents of supply system: - Substation: layout, list of equipment and their functions
4 th (19 Feb. -25 Feb.)	Unit – II Power Supply Arrangements	Feeding post: list of equipment and their functions
5 th (26 Feb - 05 Mar.)	Unit – II Power Supply Arrangements	Brief introduction to - Feeding and sectioning Arrangements, Sectioning and paralleling post, Sub sectioning and Paralleling post, Sub sectioning post, Elementary section.
6 th (06 Mar. – 13 Mar.)	Unit- III Overhead Equipment	Different types of overhead equipments Different types of OHE Centenary Construction.
CLASS TEST -1		2 nd week of March 2026
7 th (14 Mar. -21 Mar.)	Unit- III Overhead Equipment	OHE Supporting Structure, Cantilever assembly diagram
8 th (22 Mar -28 Mar.)	Unit- III Overhead Equipment	Brief introduction to - Trolley collector, Bow collector, Pantograph Collector Brief introduction to pantograph.
9 th (29 Mar. -.05 April)	Unit- IV Electric Locomotive	Classification and Nomenclature of Electric Locomotive
10 th (06 April. – 16 April.)	Unit- IV Electric Locomotive	Block diagram of AC locomotive
CLASS TEST -2		2 nd week of April 2026
12 th (25 April -02 May)	Unit- V Traction Motors and Train Lighting	Desirable characteristics of traction motor.



13th (03 May-09 May.)	Unit- V Traction Motors and Train Lighting	Types of motors used for traction with their characteristics and features
House Test		2ND week of May 2026
14th (10 May-19 May.)	Unit- V Traction Motors and Train Lighting	Control of motors used for traction and methods to control Requirements of braking, brief introduction to different types of braking
15th (20 May-27 May)	Revision & Doubt Clearance	Revision & Doubt Clearance

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Signature of Teacher
(Er. Sandeep Bhardwaj)

Signature of HOD
(Er. Aman Anand)


Lesson Plan

Name of Faculty	Yudhvir Singh
Discipline	AS&H
Semester	6th E.E.
Subject	IC (L-2 Hrs./Week)
Lesson Plan Duration	Jan-May 2026

Week	Topic	Theory
1 st (27 Jan. – 02 Feb.)	Unit 1 Introduction to Constitution:	History of making of the Indian Constitution. Meaning and importance of the Constitution. Salient features and Preamble of Indian Constitution.
2 nd (03 Feb. – 09 Feb.)	Unit 1 Introduction to Constitution	Fundamental rights- meaning and limitations.
3 rd (10 Feb-17 Feb.)	Unit 1 Introduction to Constitution	Directive principles of state policy and Fundamental duties -their enforcement and their relevance.
4 th (18 Feb. –24 Feb.)	Unit 2 Union Government:	Structure of Union Government. Union Executive- President, Vice-president, Prime Minister, Council of Ministers.
5 th (25 Feb - 03 Mar.)	Unit 2 Union Government:	Union Legislature- Parliament and Parliamentary proceedings.
6 th (05 Mar. – 11 Mar.)	Unit 2 Union Government:	Union Judiciary-Supreme Court of India – composition and powers and function.
CLASS TEST -1		2nd week of March 2026
7 th (12 Mar. –19 Mar.)	Unit 3 State and Local Governments	Structure of State Government.
8 th (20 Mar. –28 Mar.)	Unit 3 State and Local Governments	State Executive- Governor, Chief Minister, Council of Ministers.
9 th (30 Mar. –.06 April)	Unit 3 State and Local Governments	State Legislature-State Legislative Assembly and State Legislative Council. State Judiciary-High court.
10 th (07 April. – 16 April.)	Unit 3 State and Local Governments	Local Government-Panchayat raj system with special reference to 73rd and Urban Local Self Govt. with special reference to 74th Amendment.
CLASS TEST -2		2nd week of April 2026

11 th (17 April. – 23 April.)	Unit 4 Election provisions, Emergency provisions, Amendment of the constitution	Election Commission of India-composition
12 th (24 April -30 April)	Unit 4 Election provisions, Emergency provisions, Amendment of the constitution	powers and functions and electoral process.
13 th (02 May-08 May.)	Revision & Doubt Clearance	Revision & Doubt Clearance
House Test		2 ND week of May 2026
14 th (11 May-16 May.)	Unit 4 Election provisions, Emergency provisions, Amendment of the constitution	Amendment of the constitution- meaning, procedure and limitations.
15 th (18 May-23 May)	Revision & Doubt Clearance	Revision & Doubt Clearance
16 th (25 May-26 May)	Revision & Doubt Clearance	Revision & Doubt Clearance

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Signature of Teacher
(Yudhvir Singh)


Signature of HOD

Lesson Plan

Name of Teacher: **Geeta Nand** Subject : **Student Centered Activities** Class : **6th Semester Elect. Engg.**

S. No.	Month	Date	Activity to be covered
1	Jan- March	27th Jan to 26th March	Declamation Contest
			Cleanliness Drive around college campus
			Various Gym activities
2	March, April	27th March to 31 April	Sports activities - Table tennis competition
			Music contests
			Yoga
3	May & June	1st May to 26th May	Group discussion on various topics
			Parliamentary discussions
			Exposure to new Technologies.


Faculty Incharge


H.O.D./Electrical Engg.