

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

DEPARTMENT OF ELECTRICAL ENGINEERING

Er. Rabindra Kumar Senapati

LESSON PLAN CUM PROGRESS REPORT

SUBJECT:BEE				SEMESTER:1ST			BRANCH:ELECTRICAL ENGINEERING		
LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	BOOKNAME./CHAPT. NO./PAGE NO.	WEBREFERENCEIFANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	1	1	Introduction ,Concept of current flow	B.LThereja& A.K Thereja	https://youtu.be/Clv6vu9d73c?si=ljSdpsp8halLwxRL	1- Introduction toBEE-5 min 2- Prerequisites forBEEPPT /Smart board-03 min 3-Syllabus	16.01.2026		
2	1	2	Concept of source and load. State Ohm's law and concept of resistance	B.LThereja& A.K Thereja	https://youtu.be/ljZfTwedX89E?si=LdZDklyUls4XTzbl	1-Previous class topic Review-5 min 2-Lecturer-45 min	17.01.2026		
3	1	2	Relation of V, I & R in series circuit , Relation of V, I & R in parallel circuit	B.LThereja& A.K Thereja	https://youtu.be/PJRN_c-V2pc?si=gSf_sS8syrV9oigk	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts &	19.01.2026		
4	1	2	Division of current in parallel circuit , Effect of power in series & parallel circuit	B.LThereja& A.K Thereja	https://youtu.be/HAAPp0znZOY?si=ljjw-M2btqW8Z3uF	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts &	20.01.2026		
5	1	3	State and explain Kirchhoff's Law.	B.LThereja& A.K Thereja	https://youtu.be/ZgfnVRaKF0?si=qHfbAMzOZ1wGgEza	1-Previous class topic Review-5 min 2-Lecturer-45 min	21.01.2026		
6	1	2	Simple problems on Kirchhoff's law	B.LThereja& A.K Thereja	https://youtu.be/PwM7xTjjS2s?si=qGv3SDjWiVvnlhd0	1-Previous class topic Review-5 min 2-Lecturer-45 min	22.01.2026		
7	2	2	Generation of alternating emf, Difference between D.C. & A.C	B.LThereja& A.K Thereja	https://youtu.be/hUtKTIDNE1o?si=3JiitmNkk59t1XvM	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min	23.01.2026		
8	2	1	Define Amplitude, instantaneous value, cycle, Time period, frequency, phase angle, phase difference	B.LThereja& A.K Thereja	https://youtu.be/yrJwl0tSZNQ?si=JHLXRV1L28cSfAbN	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min	2026.01.2026		
9	2	3	State and explain RMS value	B.LThereja& A.K Thereja	https://youtu.be/Ynv_C3N0fPk?si=4CX0DkfzjT39774d	1-Previous class topic Review-5 min 2-Lecturer-45 min	2026.01.2026		

03	2	3	Average value Amplitude factor & Form factor with Simple problems.	B.LThereja& A.K Thereja	https://youtu.be/fn5LBJSSX0k?si=UKEToFPN8hREZmIN	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen	2026.01.2026		
LECTURE NO.	CO	BTL			WEBREFERENCEIFANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
01	2	3	Represent AC values in phasor diagrams.	B.LThereja& A.K Thereja	https://youtu.be/Xtt_H9Afasw?si=jvVggMlc2n3uGE4	1- class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	23.01.2026		
12	2	4	Explain AC through pure resistance inductance & capacitance	B.LThereja& A.K Thereja	https://youtu.be/-rDuHhnrhT0?si=WEWHPYx-cCzwC7rc	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-30 4-Doubts & Assignmen t-03 min	26.01.2026		
13	2	3	Explain AC through RL, RC, RLC series circuits.	B.LThereja& A.K Thereja	https://youtu.be/h01e2HfHlpY?si=1he0PxYeiY1fDP5C	1-Previous class topic Review-5 min 2-Lecturer-45 3-Doubts & Assignmen t-03 min	27.01.2026		
14	2	3	Solve simple problems on RL, RC & RLC series & Parallel circuits.	B.LThereja& A.K Thereja	https://youtu.be/tZD3bK6ebto?si=ryBOmbOKrDsV6qj9	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 3-Lecturer-4-Doubts & Assignmen t-03 min	28.01.2026		
15	2	3	Concept of power and Power factor	B.LThereja& A.K Thereja	https://youtu.be/Tv_7XWf96gg?si=r1Ca2b07lzRE4q8_	1-Previous class topic Review-5 min 2-Lecturer-45 min	2026.02.2026		
16	2	4	Explain impedance triangle and power triangle.	B.LThereja& A.K Thereja	https://youtu.be/hFkxQpKN07o?si=QEM7zcy0K_jPVXBJ	1-Previous class topic Review-5 min 2- PPT/Smart board-15	01.02.2026		
17	3	4	Give elementary idea on generation of electricity from thermal, hydro power station with block diagram	B.LThereja& A.K Thereja	https://youtu.be/1coMrajMW4l?si=wuYlh_DJHsJCqEk1	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen	02.02.2026		

18	3	4	Give elementary idea on generation of electricity from nuclear power station with block diagram	B.LThereja& A.K Thereja	https://youtu.be/Jbw-nMuMpEE?si=yXyuDvnGUTSqTg9r	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min	03.01.2026		
19	3	2	Introduction of DC machines. Main parts of DC machines	B.LThereja& A.K Thereja	https://youtu.be/qXVAYN-OcfA?si=Lxcl6jffc-1ZL_x3	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min	07.02.2026		
20	3	3	Classification of DC generators, Classification of DC Motor	B.LThereja& A.K Thereja	https://youtu.be/pDpoe5ivpA4?si=FVkrTubwhB3H5p1z	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment	02.02.2026		
LECTURE NO.	CO	BTL			WEBREFERENCEIFANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
21	3	3	Uses of different types of DC generator & motor	B.LThereja& A.K Thereja	https://youtu.be/xi0jaPAI2II?si=Mw7EHenJq7cc8xSP	1-Previous class topic Review-5 min 2-Lecturer-45 min	03.02.2026		
22	3	3	Types and uses of single phase induction motors.	B.LThereja& A.K Thereja	https://youtu.be/Z5UO_Wevo9A?si=YQv0DNyWtweb-xOp	1-Previous class topic Review-5 min 2-Lecturer-45 min	01.02.2026		
23	4	1	Concept of Lumen	B.LThereja& A.K Thereja	https://youtu.be/QP5Vk2kfuY?si=EQs8RW4Lpmv2NhHI	1-Previous class topic Review-5 min 2-Lecturer-45 min	12.02.2026		
24	4	2	Different types of Lamps (Filament, Florescent, LED bulb) its construction & Principle.	B.LThereja& A.K Thereja	https://youtu.be/HdYFiSZymTg?si=b-1Ubl2EN9z7iByG	1-Previous class topic Review-5 min 2-Lecturer-45 min	15.02.2026		
25	4	3	Star rating of home appliances (Terminology, Energy efficiency, star rating concept)	B.LThereja& A.K Thereja	https://youtu.be/v2XEpyVMjo?si=gJfUIT0_RnbnFPWc	1-Previous class topic Review-5 min 2-Lecturer-45 min	16.02.2026		
26	4	3	Types of wiring for domestic installation	B.LThereja& A.K Thereja	https://youtu.be/XvaVJ-WSXGU?si=GC5Ms3fy2tIRGV001	1-Previous class topic Review-5 min 2-Lecturer-45 min	18.02.2026		
27	4	3	Layout of household electrical wiring (single line diagram showing all the important component in the system)	B.LThereja& A.K Thereja	https://youtu.be/OKkOif2JYRE?si=50ho6ApE1zgAbWzE	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignment	20.02.2026		
28	4	2	List out the basic protective devices used in house hold wiring	B.LThereja& A.K Thereja	https://youtu.be/qiXXknhj3O8?si=lo6vKWdeDD67vRwc	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min	21.01.2026		

29	4	3	Calculate energy consumed in a small electrical installation.	B.LThereja& A.K Thereja	https://youtu.be/ua842SW5X6U?si=45UlhAytkS2dvNfD	1-Previous class topic Review-5 min 2-Lecturer-45 min	22.02.2026		
30	5	1	Introduction to measuring instruments.	B.LThereja& A.K Thereja	https://youtu.be/qxqGlGjyYTU?si=bSv5mbf4jy5yPwj9	1-Previous class topic Review-5 min 2-Lecturer-45 min	23.02.2026		
31	5	1	Torques in instruments.	B.LThereja& A.K Thereja	https://youtu.be/omJPWLbwlMA?si=yk7Ra8D8cqXis0ms	1-Previous class topic Review-5 min 2-Lecturer-45 min	25.02.2026		
LECTURE NO.	CO	BTL			WEBREFERENCEIFANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
32	5	3	State different uses of PMMC type of instruments (Ammeter & Voltmeter).	B.LThereja& A.K Thereja	https://youtu.be/Ygp42NpBEll?si=kNecVOJwt7-6k45m	1-Previous class topic Review-5 min 2-Lecturer-3-Doubts &	27.02.2026		
33	5	2	Torques in instruments.	B.LThereja& A.K Thereja	https://youtu.be/Ygp42NpBEll?si=NW1HoMNa5F1YkCkd	1-Previous class topic Review-5 min 2-PPT/Smart board-15 min	28.02.2026		
34	1	1	Define electronics	LThereja& A.K Thereja	https://youtu.be/JEQjjQcQr8?si=rF-3L7K1qTFn6GuC	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	29.02.2026		
35	1	1	Different types of electronic emission	LThereja& A.K Thereja	https://youtu.be/5UfLTgerb20?si=JDJor_9K0mA83UA9	1-Previous class topic Review-5 min 2-Lecturer-45 min	30.02.2026		
36	1	2	Classification of material according to electrical conductivity	LThereja& A.K Thereja	https://youtu.be/kHb-9ce2xE?si=Z0Uf8MFow3V_IQJq	1-Previous class topic Review-5 min 2-PPT/Smart board-15 min	03.03.2026		
37	1	3	Discuss intrinsic & extrinsic semiconductor	LThereja& A.K Thereja	https://youtu.be/OCaDQ6wogKE?si=-njsulrd_Zf2HWHI	1-Previous class topic Review-5 min 2-Lecturer-45 min	04.03.2026		
38	1	4	Explain the difference between vacuum tube & semiconductor	LThereja& A.K Thereja	https://youtu.be/G9ct2ldQ5-M?si=d_qTHICyJLslcpSJ	1-Previous class topic Review-5 min 2-Lecturer-	06.03.2026		
39	1	3	State principle of working & use of P-N junction, zener diode & light emitting diode(LED)	LThereja& A.K Thereja	https://youtu.be/DYLuJ9n_8Vs?si=buRjC0wZsNYguuaO	1-Previous class topic Review-5 min 2-Lecturer-45 min	07.03.2026		

40	1	2	State basic concept of integrated circuit & its use	LThereja& A.K Thereja	https://youtu.be/_4aFYoXyJGU?si=Nx4dCeeRMwGWF3vU	1-Previous class topic Review-5 min 2-Lecturer-3-Doubts & Assignmen t-03 min	01.03.2026		
41	2	1	Define rectifier & state its use.	LThereja& A.K Thereja	https://youtu.be/yaUMBKjOjg?si=M9tVSxcADUzamXiA	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-	03.03.2026		
42	2	4	Explain the principle of working of different types of rectifiers & their merits & demerits. State function of filters and name the types of filters	LThereja& A.K Thereja	https://youtu.be/qLQ5AlkQxLw?si=9lOJiaBDZf-kSPSZ	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	12.03.2026		
43	2	4	Explain dc power supply system by help of block diagram	LThereja& A.K Thereja	https://youtu.be/97CSpZdTpVo?si=epQFNKMVmOmGSa7U	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	14.03.2026		
LECTURE NO.	20	BTL			WEBREFERENCEIFANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
44	2	4	Explain the different types of and state output and input current relationship in CE,CB &CC configuration & need of biasing and state the different types of biasing with circuit	LThereja& A.K Thereja	https://youtu.be/QmcUjYQY9Bg?si=XLOAhyc_Nz89og__	1-Previous class topic Review-5 min 2- PPT/Smart board-15 min 2-Lecturer-30 min	15.03.2026		
45	2	2	Define amplifier &explain how amplification of signal is achieved by the help of transistor	LThereja& A.K Thereja	https://youtu.be/0Z8tslPvU0o?si=9HoskgkhuvZooqJbJ	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	16.03.2026		
46	2	4	Explain working principle of a single stage CE transistor amplifier with voltage divider biasing	LThereja& A.K Thereja	https://youtu.be/asPFLKL7aIM?si=AAq_7sqhH-hvZK4E	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts &	25.03.2026		
47	2	4	Explain the working of a single stage RC coupled amplifier & discuss its frequency response & bandwidth	LThereja& A.K Thereja	https://youtu.be/S0AEN7TzuRs?si=TjDpNmav6u-KfUFD	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts &	28.03.2026		
48	2	1	Define essential of transistor oscillator& name different types of oscillator	LThereja& A.K Thereja	https://youtu.be/XVS8Puf4tiw?si=8Ua5_vvAycwrmJUo	1-Previous class topic Review-5 min 2-Lecturer-	30.03.2026		

49	3	2	Define basic communication system with the help of block diagram & define modulation	L Thereja & A.K Thereja	https://youtu.be/qhjj6WG7Rgc?si=QW0bpHW1BZViqSaV	1-Previous class topic Review-5 min 2-PPT/Smart board-15 min	2.04.2026		
50	3	2	Discuss amplitude modulation & frequency modulation	L Thereja & A.K Thereja	https://youtu.be/QEubAxBfqKU?si=kPiXI3domG_ab9jG	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	3.04.2026		
51	3	4	Explain the working principle of super heterodyne radio receiver with the help of block diagram	L Thereja & A.K Thereja	https://youtu.be/rJ1MWh9_ao?si=it-oXzhLIGtnyvyK	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	5.04.2026		
52	3	4	Explain the block diagram of radio transmitter	L Thereja & A.K Thereja	https://youtu.be/bT5ApwTlgUI?si=749xfTJ80T_UCdyB	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	7.04.2026		
53	4	1	Define transducer	L Thereja & A.K Thereja	https://youtu.be/ybdPolol84g?si=BHQIPiToXBROjIh6	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	8.04.2026		
54	4	2	Classify different types of transducers	L Thereja & A.K Thereja	https://youtu.be/ybdPolol84g?si=U01Bt_bSqKs9Rvn	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	09.04.2026		
55	4	3	Discuss mechanical primary transducers, devices, spring & burden tube	B.L Thereja & A.K Thereja	https://youtu.be/fmOnrEZ_z6k?si=othLC5sC8q5TW436	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	12.04.2026		
56	4	4	Describe working principle & application of LVDT	L Thereja & A.K Thereja	https://youtu.be/E-kDsP0wq6w?si=CkJZ2airHiWexhX	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	15.04.2026		
57	4	4	Explain working principle of photo emission, photoconductivity	B.L Thereja & A.K Thereja	https://youtu.be/d54vzCaKCPw?si=XIn0QixW7pUsgLwC	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignments-03 min	16.04.2026		

58	4	4	Explain working principle of photovoltaic cell & its application	B.L Thereja & A.K Thereja	https://youtu.be/qQYCsVX7jco?si=Y5vA-ZJ8tCM6jBF2	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	17.04.202 6		
59	4	3	Discuss application of multimeter	B.L Thereja & A.K Thereja	https://youtu.be/4IAyzRxsBdc?si=vT6bRN89IbXbpeAs	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	18.04.202 6		
60	4	2	Discuss advantages of digital multimeter over analog multimeter	B.L Thereja & A.K Thereja	https://youtu.be/YMOF5DY7quQ?si=A_g3T5VMvXn_EnSD	1-Previous class topic Review-5 min 2-Lecturer-45 min 3-Doubts & Assignmen t-03 min	19.04.202 6		

Principal

Faculty

HoD, Electrical Engineering