

		EEE - Online Class +1st Sept to 30 Nov2020		
Module	Topics[2Hr Each]	PPT	Video Links	E-Materials
18EE32	lec1: Active and passive device lec2: dependent and independent	https://drive.google.com/drive/folders/1AM2X37TwBY-Mz54qAY4ZNNFH2Uw5M?usp=sharing	https://drive.google.com/file/d/1vE1aON52T3rxGWjLtaJxvJk1SQJot1/view?usp=sharing	https://drive.google.com/file/d/1zuHIDnRwDNA3Hg9tuzSsz89TBXwE2zBb5/view?usp=sharing
18EE33	Lecture1: Introduction to Single Phase Transformers Lecture2: Transformers on No Load and Load Phasor diagrams Lecture3: O.C & S.C test on transformers Lecture4: Numerical Problems. All day Efficiency Lecture5: Voltage Regulation. Three phase transformers construction, Advantaged over single phase transformers and bank of single phase transformers Lecture6: Transformers connections. Lecture7: Transformers connections. continued... Lecture8:Phase conversion-Scott connection for three-phase to two-phase conversion. Lecture9: Labelling of three-phase transformer terminals, vector groups. Lecture10: Polarity Test, Sumpners Test, Separation of Hysteresis and eddy current loss Lecture11: Parallel operation of transformers, Load sharing, Autotransformers Lecture 12: Onload and off load tap changers. Three-winding transformers. Cooling of transformers. Lecture 13: Armature windings, winding factors, e.m.f equation Lecture 14: Harmonics-causes, reduction and elimination. Armature reaction, Synchronous reactance, Equivalent circuit.			Google Classroom ID: e4hnmce https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex?usp=sharing
18EE34	Module - 1 Lecture 1: Diode Circuits Lecture 2: Positive and Negative Series Clipper Lecture 3: Clipping With reference voltage, Parallel Clippers Lecture 4: Problems on clippers, Two Way Clippers Lecture 5: Diode Clamper Circuits, Numerical Problems on Clippers Lecture 6: Transistor Biasing and Stabilization Lecture 7: Transistor Biasing and Stabilization Lecture 8: Transistor biasing and stability Lecture 9: Designing of various biasing circuit Lecture 10: Stability Factors for different biasing circuits, Transistor Switching Circuits Module 2 Lecture 1: Transistors at low frequency Lecture 2: h-parameter analysis for different configurations, Mid-band analysis of BJT Single stage amplifier Lecture 3: h-parameter Analysis for Voltage divider bias circuit, Conversion of h-parameters from one configuration to another, Problems Lecture 4: Analysis using simplified hybrid model Lecture 5: Analysis of CC amplifier using simplified h-model, Miller's theorem and its application to analyze C-B Bias Circuit Lecture 6: Application of Dual of Miller's Theorem	shorturl.at/cAHlQ	shorturl.at/swEL5	Google Classroom ID: c55f62c
18EE35	Lecture 1: Basics of Logic design Lecture 2: Definition of Combinational Logic, Canonical Forms, Generation of switching equations Lecture 3: Karnaugh maps-3,4 variables Lecture 4: Use of K-maps for simplifying boolean expressions-Prime implicants and Essential prime implicants Lecture 5: Prime Implicants, Minimal Sum and Minimal Product Lecture 6: Incompletely specified function using K-Map Lecture 7: 5 variable K-map Lecture 8: Quine McClusky Minimization Technique Lecture 9: Quine McClusky Minimization Technique using Don't cares, MEV technique Module 2: Lecture 1: General approach for combinational logic Lecture 2: Decoders Lecture 3: Decoders Lecture 4: Encoders Lecture 5: Digital Multiplexers Lecture 6: Using MUX as Boolean function generators Lecture 7: Adders, Subtractors, Cascading full adder, Look ahead carry Adder	https://drive.google.com/file/d/1ZIE_a-Lyq2LhZ-Jrjeu0AG2po5-n6n-h/view?usp=sharing	https://www.youtube.com/watch?v=o7u27zhU4cg&t=2s https://www.youtube.com/watch?v=vnQ1516_YNI https://www.youtube.com/watch?v=vnQ1516_YNI https://www.youtube.com/watch?v=8cUkdrSGtEq	Google Classroom ID: kzielpb4 http://www.vtuupdates.in/wp-content/uploads/eee/3rd-sem/15ee35/m1.pdf
18EE36	Module 4: Lecturer 1: Introduction. Essentials of electronic instruments, Advantages of electronic instruments. True rms reading voltmeter. Electronic multimeters Lecture 2: Digital voltmeters (DVM) - Ramp type DVM, Lecturer 3: integrating, successive approximation, Q meter Lecturer 4: Low, High impedance component measurement, numericals Lecturer 5: Electronic Energy meter, advantages Lecture 6: Revision Lecture 7: Module 5 - Introduction, character format, segment, dot matrix display, CRT Lecture 8: Quiz Lecture 9: LED, LCD, Nexie tube Lecture 10: incandescent, Fluorescent, LVD, recording device Lecture 11: strip chart recorder Lecture 12: circular, galvanometer recorder Lecture 13: Digital X - Y recorder, Ultraviolet recorder Lecture 14: ECG, Digital recorder Module 2: Power factor meter Lecture 16: 3 phase p.f meter, Weston frequency meter, phase Unit test Lecture 17: measurement of power, errors Lecture 18: Errors, LPF	https://drive.google.com/file/d/1NReUc-iWbfoviDNZBAxvW8JREavC8L/view?usp=sharing https://drive.google.com/file/d/1gqz96wgjERK3dE2JQG1jcu2ifvYPOmBg/view?usp=sharing https://drive.google.com/file/d/16Ac-TYsPev62uiOL2t5oz44Z_OY6aBl/view?usp=sharing	https://drive.google.com/file/d/153eXaTNVGG0Wgs-n5amZ1FdqvaWwu6EZ/view?usp=sharing	Google Classroom ID: slinzr3 http://www.vtuupdates.in/wp-content/uploads/eee/3rd-sem/15ee36/m4.pdf
1st December 2020 to 15 Jan 2021				
18MAT31				
18EE32	Week1: Module3: Dec1 to 7 : Analysis of simple RLC series circuit, Analysis of simple RLC parallel circuit under resonance Week2: Module3: Dec8to 15: Numericals on resonant frequency band width and quality factor at resonance Week3: Module3: Dec16 to 23 : Transient analysis of RL and RC circuits under DC excitation week4: Module3: Dec24 to Jan 1: Behaviour of circuit elements under switching action, Evaluation of initial condition week5: Module4: Jan2to Jan9: LT of impulse, step, ramp sine and shifted week6: Module5 Jan 10 to Jan 15: Analysis of 3 phase s/m, calculation of real & reactive power by direct application of mesh and nodal analysis, Two port network	https://drive.google.com/file/d/17N2Wf36IB0q32lkCaDiHp9bSghLiRu_a/view?usp=sharing https://drive.google.com/file/d/17N2Wf36IB0q32lkCaDiHp9bSghLiRu_a/view?usp=sharing https://drive.google.com/file/d/17N2Wf36IB0q32lkCaDiHp9bSghLiRu_a/view?usp=sharing https://drive.google.com/file/d/17N2Wf36IB0q32lkCaDiHp9bSghLiRu_a/view?usp=sharing https://drive.google.com/file/d/1K1hNIAEKZcCuLUgNlDs4INqInGuVQ46_1/view?usp=sharing https://drive.google.com/file/d/16P92xNfaMffm72cfTx4IR_TsbVxivi/view?usp=sharing	https://youtu.be/TbsfauWicX0 https://youtu.be/j-kab4Di8tW https://youtu.be/-Y37CHBSaiU https://youtu.be/-Y37CHBSaiU https://youtu.be/c0cx6imA8-0 https://youtu.be/plv9ovmwHmA	https://drive.google.com/file/d/1ghFACvnc9Cv2NhFDzEeY3kPUO5_7B_Q5/view?usp=sharing https://drive.google.com/file/d/1ghFACvnc9Cv2NhFDzEeY3kPUO5_7B_Q5/view?usp=sharing https://drive.google.com/file/d/1ghFACvnc9Cv2NhFDzEeY3kPUO5_7B_Q5/view?usp=sharing https://drive.google.com/file/d/1ghFACvnc9Cv2NhFDzEeY3kPUO5_7B_Q5/view?usp=sharing https://drive.google.com/file/d/1p_kG931XvaMltzyC1Xd7QQVVQpFauEDM/view?usp=sharing
18EE33	Week1: Module4: Dec1 to 7 Open circuit and short circuit characteristics, Assessment of reactance- short circuit ratio, synchronous reactance Week2: Module4: Dec 8 to 15 Alternator on load. Excitation control for constant terminal voltage. Voltage regulation Week3: Module4: Dec 16 to 23 Voltage regulation by EMF, MMF, ZPF methods, Power angle characteristic (salient and non salient pole), power angle diagram, reluctance power Week4: Module5: Dec 23 to Dec 30 Effects of saliency, two-reaction theory, V-curves Parallel operation of generators and load sharing. Week5: Module5: Jan 1 to Jan 8 Methods of Synchronisation, Synchronising power, Determination of Xd & Xq - slip test Week6: Module5: Jan 9 to Jan 16 Performance of synchronous generators Capability curve for large turbo generators and salient pole generators. Hunting and damper windings.	https://drive.google.com/file/d/14pU3h3U83gSebFuAzePvYI5hGrwrUWiv/view?usp=sharing https://drive.google.com/file/d/1Ee9b3AcY-JZ7MXn2FxlI242YLnVRX-s/view?usp=sharing https://drive.google.com/file/d/1Ee9b3AcY-JZ7MXn2FxlI242YLnVRX-s/view?usp=sharing https://drive.google.com/file/d/1f6K0s8h9KhGDU4-wgCgedx_2Cur-T_X/view?usp=sharing https://drive.google.com/file/d/1f6K0s8h9KhGDU4-wgCgedx_2Cur-T_X/view?usp=sharing https://drive.google.com/file/d/19pp_dgOW45odN8w60y	https://youtu.be/CxozfJuCcnk https://youtu.be/JsD0RUJXIY0 https://youtu.be/JsD0RUJXIY0 https://youtu.be/zCI43GrkHMK https://youtu.be/eKKQWB5kFuc	https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex https://drive.google.com/drive/folders/1CwYeh2vPhfjkFZB7ORRBitfVUITleex
18EE34	Module -3, 01-Cascade and cascade connections (Dec 1 to Dec 4) 02-Darlington circuits, analysis and design (Dec 5 to Dec 7) 03-Feedback Amplifiers Feedback concept (Dec 7 to Dec 11) 04-Feedback Amplifiers Feedback Types (Dec 11 to Dec 17) 05-Analysis and design of feedback circuits (Dec 20 to Dec 27) Module 04, 01-Power Amplifiers (Dec 27 to Jan 03) 02-Oscillators (Jan 04 to Jan 10) Module 05, 01-FETs (Jan11-Jan16)	https://drive.google.com/drive/folders/1Mtm8IfcJ7-6Gpcn3wQJ8KI-4DyH68mV?usp=sharing https://drive.google.com/drive/folders/1YPk36xgwFjudMSQysA9o3xmiKHBQg6?usp=sharing https://drive.google.com/drive/folders/1rni4C_neOF4mkymjgByD_3tLqDwwehuW?usp=sharing	01- https://youtu.be/1nixB2Mv3-w02 02- https://youtu.be/_JB17TeJ3jo 03- https://youtu.be/AdsXX7YlHtI 04- https://youtu.be/OnXEUKFBd8A 05- https://youtu.be/OnXEUKFBd8A	https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing
18EE35	Week1: Module 3: Dec 1 to 7: Bistable elements, Latches, Timing consideration, master slave SR Flipflop Week2: Module 3: Dec 8 to 15: Pulse triggered master JK flipflop, Edge triggered flipflop, Characteristic equation Week3: Module 4: Dec 16 to 23: Registers, binary ripple counters, synchronous binary counters, counters based on shift register Week 4: Module 4: Dec 23 to Dec 30: Design of synchronous counter, Design of synchronous mod-n Counter using Clocked T, JK, D and SR Week 5: Module 5: Jan 1 to Jan 8: Mealy and Moore models, state machine notation, synchronous sequential notation. Week 6: Module 5: Jan 9 to Jan 16: Construction of state diagram, counter design, Memories.	https://drive.google.com/file/d/15E8Qn44ivxbGqqtuPFQj2JwZA9odQ7v/view?usp=sharing https://drive.google.com/file/d/122WgyuVH5rM0oxTOElm0xmTJSgQfCB8/view?usp=sharing https://drive.google.com/file/d/1e17MwCj95Hx2hC8h3P9ehMzr93em3G6r/view?usp=sharing https://drive.google.com/file/d/1e17MwCj95Hx2hC8h3P9ehMzr93em3G6r/view?usp=sharing https://drive.google.com/file/d/1e17MwCj95Hx2hC8h3P9ehMzr93em3G6r/view?usp=sharing https://drive.google.com/file/d/1e17MwCj95Hx2hC8h3P9ehMzr93em3G6r/view?usp=sharing	https://www.youtube.com/watch?v=4CRPlaBnV0 https://www.youtube.com/watch?v=leMnFSDIc6yYyibTP1-lIfEftAgc https://www.youtube.com/watch?v=LHAbLxfrYXk https://www.youtube.com/watch?v=O3If0Nr9to0 https://www.youtube.com/watch?v=FZAHhQ1v7B0	https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing https://drive.google.com/file/d/1LdqC3MnFSDIc6yYyibTP1-lIfEftAgc/view?usp=sharing
18EE36	Week1 : Module 2 : Dec 1 to 7 - Measurement of real and reactive power in three phase circuits Week2 : Module 2 : Dec 8 to 14 - Construction and working of energy meter Week3 : Module 1 : Dec15 to 21 - measurement of low resistances, medium resistances Week 4 : Module1: dec 21 to 28 - measurement of a.c bridges Week 5 : Module 1: Dec 29 to Jan 4 - Measurement of ac bridges Week 6: Module 3: Jan5 to 11 - instrument transformers	https://drive.google.com/file/d/1hfNcPFWBIOEkz462YhBGgO2Wly3peD/view?usp=sharing https://drive.google.com/file/d/1Ys_v91w2b0raGb2ZVxqLpQC2yLpkHIVe/view?usp=sharing https://drive.google.com/file/d/1dx3qrfFgwrruLp3V6CXVer3dg-oVEK5/view?usp=sharing https://drive.google.com/file/d/1j1kAm0MsSRaNy5PcfJ-28PMOEarCqCq/view?usp=sharing https://drive.google.com/file/d/1j1kAm0MsSRaNy5PcfJ-28PMOEarCqCq/view?usp=sharing https://drive.google.com/file/d/1f1FaeL0Vikxh2p2QMhuXX2wElypCtMrrp/view?usp=sharing	https://www.youtube.com/watch?v=QQRmV2wluHY https://nptel.ac.in/courses/108/105/108105153/ https://www.youtube.com/watch?v=rQPemWewNYg https://www.youtube.com/watch?v=I5k66ESHJHM https://www.youtube.com/watch?v=I5k66ESHJHM https://www.youtube.com/watch?v=WkFyjsmDW0	https://drive.google.com/file/d/1LHSTRSuKBz3VmUoBN0m3FBTIDyFeSRF/view?usp=sharing http://www.vtuupdates.in/wp-content/uploads/eee/3rd-sem/15ee36/m2.pdf http://www.vtuupdates.in/wp-content/uploads/eee/3rd-sem/15ee36/m1.pdf http://www.vtuupdates.in/wp-content/uploads/eee/3rd-sem/15ee36/m1.pdf http://www.vtuupdates.in/wp-content/uploads/eee/3rd-sem/15ee36/m1.pdf