

Tentative Class Schedule of BUET M.Sc. in EEE Admission Test Preparation Batch-1
in EEE Academy by Rony Parvej

Registration Link: <https://forms.gle/1n1ttKHfgp2C7e8W9>
or <https://dhakaplaza.com/product/121/>
or Contact: 01312-737372

Module-1 : Electrical Circuit

Sl.	Date	Topic	Class Mode
L-0	12 May	Orientation (Live)	Live
L-1	13 May	Series and Parallel Circuit	Recorded
L-2	13 May	Source Transformation & Delta-Star Conversion	Recorded
L-3	13 May	KCL, KVL and Miscellaneous Circuit	Recorded
L-4	13 May	Superposition Theorem	Recorded
L-5	13 May	Mesh Analysis	Recorded
L-6	14 May	Nodal Analysis	Recorded
L-7	14 May	Thevenin's Theorem	Recorded
L-8	14 May	Norton's Theorem	Recorded
L-9	14 May	Maximum Power Transfer Theorem	Recorded
L-10	15 May	Sinusoid and Phasors	Recorded
L-11	15 May	A.C. Power Analysis	Recorded
L-12	15 May	A.C. Circuit Analysis	Recorded
L-13	15 May	R-L-C Circuit	Recorded
L-14	15 May	Resonance	Recorded
L-15	16 May	3-Phase Analysis	Recorded
L-16	16 May	Wattmeter	Recorded
L-17	16 May	Magnetic Circuit & Electromagnetics	Recorded
L-18	16 May	Transient Analysis	Recorded
L-19	16 May	Filters and Frequency Response	Recorded

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Module-2 : Power System

Sl.	Date (2023)	Topic	Class Mode
L-1	17 May	Power Factor Improvement-1	Recorded
L-2	17 May	Power Factor Improvement-2	Recorded
L-3	17 May	Power Factor Improvement-3	Recorded
L-4	17 May	Variable Load on Power Station-1	Recorded
L-5	17 May	Variable Load on Power Station-2	Recorded
L-6	18 May	Transmission-1	Recorded
L-7	18 May	Transmission-2	Recorded
L-8	18 May	Transmission-3	Recorded
L-9	18 May	Transmission-4	Recorded
L-10	18 May	Per Unit and System Representation	Recorded
L-11	19 May	Symmetrical Fault	Recorded
L-12	19 May	Unsymmetrical Fault-1	Recorded
L-13	19 May	Unsymmetrical Fault-2	Recorded
L-14	19 May	Y_{bus} and Z_{bus} Matrix	Recorded
L-15	19 May	Load Flow Study & Stability	Recorded
L-16	20 May	Switchgear	Recorded
L-17	20 May	Protection	Recorded
L-18	20 May	Substation	Recorded
L-19	20 May	Power Station	Recorded
L-20	20 May	Thermodynamics	Recorded

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Module-3 : Electrical Machine

তারিখ	Code	বিষয়	Class Type
Unit-1: Transformer			
22 May	L-2	Transformer Basics, Power Dissipation / Division in Transformer, Equivalent Impedance	Recorded
22 May	L-3	No Load Current and It's Components; Relation among No-load, Primary and Secondary Current;	Recorded
22 May	L-4	Voltage Drop and Voltage Regulation	Recorded
22 May	L-5	Open-Circuit Test and Short-Circuit Test	Recorded
23 May	L-6	Efficiency of Transformer, Power Stage and Losses; All Day efficiency of Distribution Transformer	Recorded
23 May	L-7	Per Unit Calculation in Transformer; Auto-transformer; Tap-Changing; Measurement and Instrumentation	Recorded
23 May	L-8	Three-Phase Transformer, DC Resistance Test	Recorded
23 May	L-9	MCQ, Theory	Recorded
Unit-2: D.C. Generator			
24 May	L-10	EMF Equation, Efficiency, Losses and Power Stage	Recorded
24 May	L-11	Relation among No Load Losses, Frequency and Speed; Armature Reaction; OCC Curve; MCQ; Theory	Recorded
Unit-3: D.C. Motor			
24 May	L-12	Speed Calculation using Back EMF Equation; Torque Calculation using Power Stage	Recorded
24 May	L-13	Resistance Incursion in Armature, Torque and Speed; MCQ; Theory	Recorded
Unit-4: Induction Motor			
25 May	L-14	Rotor Speed, Synchronous Speed and Slip	Recorded
25 May	L-15	Power Stages of Induction Motor and Slip; Three Phase Power Equation;	Recorded
25 May	L-16	Torque-Speed Relationship and Slip; Induced Torque and Load Torque Calculation; Rotor Current and Voltage; Maximum Torque and Rotor Resistance Inersion; Miscellaneous; MCQ; Theory	Recorded
Unit-5 & 6: Alternator & Synchronous Motor			
26 May	L-17	Torque Angle and Voltage Regulation; Generator Efficiency	Recorded
26 May	L-18	EMF Equation and Speed; Generator Re-connection from Delta to Star; Maximum Power Generation	Recorded
26 May	L-19	Frequency Control; Synchronous Reactance Calculation	Recorded
26 May	L-20	Harmonics and It's Effects; Distribution Factor; MCQ; Theory	Recorded
26 May	L-21	Synchronous Motor	Recorded
Unit-7: Control System			
27 May	L-21	Block Diagram Reduction and Transfer Function	Recorded
27 May	L-22	Time Domain Analysis of Control System	Recorded

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Module-4 : Electronics & Communication

	Sl.	Topic
L-2	28 May	BJT (Part-1)
L-3	28 May	BJT (Part-2)
L-4	28 May	BJT (Part-3)
L-5	28 May	BJT (Part-4)
L-6	28 May	BJT (Part-5)
L-7	28 May	BJT (Part-6)
L-8	28 May	BJT (Solve Class)
L-9	29 May	Op-Amp (Part-1)
L-10	29 May	Op-Amp (Part-2)
L-11	29 May	Op-Amp (Part-3)
L-12	29 May	Op-Amp (Part-4)
L-13	29 May	Op-Amp (Solve Class)
L-14	30 May	Diode (Part-1)
L-15	30 May	Diode (Part-2)
L-16	30 May	Diode (Part-3)
L-17	30 May	Diode (Part-4)
L-18	30 May	Diode (Part-5)
L-19	30 May	Diode (Part-6)
L-20	30 May	Diode (Solve Class)
L-21	31 May	FET
L-22	31 May	Digital Electronics
L-23	31 May	Power Electronics
L-24	31 May	Miscellaneous
L-25	01 June	Steps of PCM
L-26	01 June	Bit Rate of PCM
L-27	01 June	Bit rate with synchronization bit
L-28	01 June	SNR Basics
L-29	01 June	Shanon's Capacity
L-30	02 June	Amplitude Modulation
L-31	02 June	Spectrum Drawing and Discrete Signal
L-32	02 June	Angle Modulation
L-33	02 June	Delta Modulation, Traffic, Signaling, Attenuation, Antenna Height
L-34	02 June	Signal & System
L-35	03 June	Miscellaneous and Theory (Part-1)
L-36	03 June	Miscellaneous and Theory (Part-2)
L-37	03 June	Optical Fiber
L-38	03 June	CSE
L-39	03 June	Confusing Math
L-40	03 June	Recent Questions