Department of Electrical and Electronics Engineering

Gate Coaching Class Topics Allotted and Covered for the Month of July 2024

Year/Semester: III/VI

Duration: 3rd July'24 to 31st July'24

Academic Year: 2024-2025 (Odd)

Section: Both 'A' and 'B'

S. No.	Name of the Staff Member	Date and Hour	Course Title	Topics Allotted	Topics Covered	Signature
1.	Dr. L. Umasankar	3 rd July'24- First Hour	Electric Circuits	Transient response of DC and AC networks, Sinusoidal steady-state analysis, Resonance, 2 port networks, Balanced three phase circuits, Stardelta transformation, Complex power and power factor in AC circuits.	Introduction about energy	
2.	Mrs. J. Megala	3 rd July'24- Second Hour	Analog Electronics- III	Op-amp: characteristics and applications, Active filters: Sallen key and Butterworth, VCO and timers, Schmitt trigger, Sample and Hold circuits, A/D and D/A converters.	Introduction DETHI	Lifal
3.	Mr. T. Sathishkumar	3 rd July'24- Third Hour	Analog Electronics-I	Simple diode circuits: clipping, clamping, Rectifiers. Amplifiers: biasing, equivalent circuit and frequency response, Oscillators and feedback amplifiers.	In brodution Diocle Application	P.A.
4.	Mr. S.P. Alexprabhu	3 rd July'24- Fourth Hour	Electrical Machines-II	3-Phase induction machines: Operation, types, performance, torque-speed characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control. Operating principle of 1-phase induction motors. Synchronous machines: types, performance and characteristics, regulation and parallel operation		May

			Starting of synchronous motors, Types of losses and efficiency calculations of electric machines.	
5.	3' ^d July'24- Fifth Hour	Mathematics	Analytic functions Cauchy Integral Formula Taylor Sories, Laurent Sories cauchy Residue Thim Solution Integral	 wing

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Department of Electrical and Electronics Engineering

Gate Coaching Class Topics Allotted and Covered for the Month of July 2024

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Academic Year: 2024-2025 (Odd)

Section: Both 'A' and 'B'

S.	Name of the Staff	Date and	Course Title	Topics Allotted	Topics Covered	Signature
No.	Member	Hour				
1.	Mrs. K.S. Margaret	10 th July'24- First Hour	Control Systems	and Signal flow graphs, Transient and Steady- state analysis of linear time invariant systems.	Stability thalysic using Nygwest Conton	Ds No Co
2.	Mrs. A. Prabha	10 th July'24- Second Hour	Control Systems	Stability analysis using Routh-Hurwitz and Nyquist criteria, Bode plots, Root loci, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, Solution of state equations of LTI systems.	Transfer function, Block diagrams	2
3.	Dr. G. Muralikrishnan	10 th July'24- Third Hour	Electrical and Electronic Measurements	Bridges	wheat stone gridge Freward	Jo
4.	Dr. S. Kamalakkannan	10 th July'24- Fourth Hour	Electromagnetic Fields	Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations.	capacitanu	los
5.	Dr. M. Meganathan	10 th July'24- Fifth Hour	Mathematics	Complex Variables: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula, Taylor series, Laurent series, Residue theorem, Solution integrals.	Residue Theorem, cauchy Intgr	m my-

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ELECTRICAL AND ELECTRONICS ENGINEERING GATE COACHING CLASS



Dr.S.Kamalakkannan
Topic: Electromagnetic Fields.
Sub topic: Capacitance of various

configurations.



Topic: Electrical and Electronic Measurements. Sub Topic: DC Bridges



Sub topic: Mathematical Modelling



Date:10 july 2024 | venue:EEF03
EEE Department

Department of Electrical and Electronics Engineering

Gate Coaching Class Topics Allotted and Covered for the Month of July 2024

Year/Semester: III/VI & IV/VII

Duration: 3rd July'24 to 31st July'24

Academic Year: 2024-2025 (Odd)

Section: Both 'A' and 'B'

S. No.	Name of the Staff Member	Date and Hour	Course Title	Topics Allotted	Topics Covered	Signature
1.			Unit	Test 1		
2.	Mrs. N. Rajavinu	24 th July'24- Second Hour	Electrical Machines I	DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, speed control of dc motors;	Passic writer Types and problem relate to Shunt motor	to 1881
9	Dr. G. Muralikrishnan	24 th July'24- Third Hour	Electrical and Electronic Measurements	Bridges	stance side	-
4.	Mrs. S. Bharathi	24th July'24- Fourth Hour	Electric Circuits	Network Elements: Ideal voltage and current sources, dependent sources, R, L, C, M elements; Network solution methods: KCL, KVL, Node and Mesh analysis; Network Theorems: Thevenin's, Norton's, Superposition and Maximum Power Transfer theorem; Transient response of DC and AC networks, sinusoidal steady-state analysis, resonance, two port networks, balanced three phase circuits, stardelta transformation, complex power and power factor in AC circuits.	Therenin's Waximum pure transfer Theorem Therenin's Theorem	S-BLIL
5.	Dr. M. Meganathan	24 th July'24- Fifth Hour	Engineering Mathematics	Complex Variables: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula, Taylor series, Laurent series, Residue theorem, Solution integrals.	Taylor series Launent serie	may

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Department of Electrical and Electronics Engineering

GATE COACHING CLASS







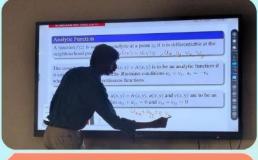
Mrs.N.Rajavinu
Topic: Electrical Machines



Mrs.S.Bharathi
Topic: Electric Circuits



Dr.G.Murali Krishnan
Topic: Electrical & Electronic
Measurement

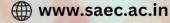


Dr.M.Meganathan
Topic: Analytic Function

Date: 24 july 2024 | Venue: EEF03







Department of Electrical and Electronics Engineering

Gate Coaching Class Topics Allotted and Covered for the Month of July 2024

Year/Semester: III/VI & IV/VII

Duration: 3rd July'24 to 31st July'24

Academic Year: 2024-2025 (Odd)

Sections: Both 'A' and 'B'

S. No.	Name of the Staff Member	Date and Hour	Course Title	Topics Allotted	Topics Covered	Signature
1.	Dr. N. Magadevi	31st July'24- First Hour	Electromagnetic Fields	Biot-Savart's law Ampere's law Curl Faraday's law Lorentz force Inductance Magnetomotive force Reluctance Magnetic circuits Self & Mutual inductance of simple configurations.	BIOT SAVARTS LAW	Magl:
2.	Mr. K. Vijayakumar	31 st July'24- Second Hour	Electrical and Electronic Measurements	Bridges & Potentiometers Measurement of voltage & current Measurement of power, energy & power factor Instrument transformers Digital voltmeters & multimeters Phase, Time & Frequency measurement; Oscilloscope Error analysis.	Trans forms	
3.	Dr. S. Kamalakkannan	31 st July'24- Third Hour	Electromagnetic Fields	Coulomb's Law, Electric Field Intensity Electric Flux Density Gauss's Law Divergence Electric field & potential due to point, line, plane, and spherical charge distributions Effect of a dielectric medium the capacitance of simple configurations.	contortions copacifor copacifor	5
4.	Dr. S. Bhuvaneswari	31st July'24- Fourth Hour	Power Systems	Basic concepts of electrical power generation AC and DC transmission concepts Models and performance of transmission lines & cables Economic Load Dispatch (with & without considering transmission losses) Series & shunt compensation Electric field distribution	concepts,	& ung

			10 E	Insulators Distribution systems		
5.	Dr. M. Meganathan	31** July'24- Fifth Hour	Engineering Mathematics	formula Taylor series	solution of the top als	1

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GATE COACHING CLASS



Dr.S.Kamalakkannan Electrostatics

Mr.K.Vijaykumar

Electrical & Electronic Measurement



Dr.S.Bhuvaneswari Power Systems



EEE Department



31.07.2024



Dr.N.Magadevi Magnetostatics



Dr.M.Meganathan Complex Variables



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Department of Electrical and Electronics Engineering

Gate Coaching Class Topics Allotted and Covered for the Month of August 2024

Year/Semester: III/VI & IV/VII

Duration: 7th Aug'24 to 28th Aug'24

Academic Year: 2024-2025 (Odd)

Sections: Both 'A' and 'B'

S. No.	Name of the Staff Member	Date and Hour	Course Title	Topics Allotted	Topics Covered	Signature
1.	Mrs. S. Sathya	7 th Aug'24 - First Hour	Digital Electronics	Combinatorial and sequential logic circuits, multiplexers, demultiplexers.	Multiplener C	A hot
2.	Mrs. S. Bharathi	7 th Aug'24 - Second Hour	Electric Circuits	Ideal voltage and current sources, dependent sources, R, L, C, M elements; Network solution methods: KCL, KVL, Node and Mesh analysis; Network Theorems: Thevenin's, Norton's, Superposition and Maximum Power Transfer theorem; Transient response of dc and ac networks, sinusoidal steady-state analysis, resonance, two port networks, balanced three phase circuits, star-delta transformation, complex power and power factor in ac circuits	Therenia's Theorem Problem, Vollage division Rule & Cament Div. Rule	S.B.L.I
3.	Dr. S. Kamalakkannan	7 th Aug'24 - Third Hour	Electromagnetic Fields	Coulomb's Law, Electric Field Intensity Electric Flux Density Gauss's Law Divergence Electric field & potential due to point, line, plane, and spherical charge distributions Effect of a dielectric medium the capacitance of simple configurations.	Flect field Intensity	. Sy

4.	Mr. S. P. Alexprabhu	7 th Aug'24 - Fourth Hour	Electrical Machines	Single-phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three-phase transformers: connections, vector groups, parallel operation; Auto-transformer, Electromechanical energy conversion principles; Three-phase induction machines: principle of operation, types, performance, torque-speed characteristics, no-load and blocked-rotor tests, equivalent circuit, starting and speed control; Operating principle of single-phase induction motors; Synchronous machines: cylindrical and salient pole machines, performance and characteristics, regulation and parallel operation of generators, starting of synchronous motors; Types of losses and efficiency calculations of electric machines	Single phase Transformer - no load, on load, phaser diagraps, problem.	
5.	Mrs. K. Kavitha	7 th Aug'24 - Fifth Hour	Calculus	Mean value theorems, Theorems of integral calculus Evaluation of definite and improper integrals Partial derivatives, maxima and minima Multiple integrals, Fourier series, vector identities, directional derivative line, surface and volume integrals, Stoke's theorem, Gauss's theorem, divergence theorem, Green's theorem	Directive derivere Green Anno GPT	V

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GATE COACHING CLASS









Dr.S.Kamalakannan Topic: Electromagnetic field





Mrs.K.Kavitha Topic:Calculus



Mrs.S.Bharathi **Topic: Electric Circuits**



Topic: Electrical machines



Mrs.S.Sathya Topic:Digital electronics



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Department of Electrical and Electronics Engineering

Gate Coaching Class Topics Allotted and Covered for the Month of August 2024

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Duration: 7th Aug'24 to 28th Aug'24

Academic Year: 2024-2025 (Odd)

Sections: Both 'A' and 'B'

S. No.	Name of the Staff Member	Date and Hour	Course Title	Topics Allotted	Topics Covered	Signature
1.	Dr. L. Umasankar	14 th Aug'24 - First Hour	Electric Circuits	Ideal voltage and current sources, dependent sources, R, L, C, M elements; Network solution methods: KCL, KVL, Node and Mesh analysis; Network Theorems: Thevenin's, Norton's, Superposition and Maximum Power Transfer theorem; Transient response of dc and ac networks, sinusoidal steady-state analysis, resonance, two port networks, balanced three phase circuits, star-delta transformation, complex power and power factor in ac circuits	Superpositi	المرا
2.	Mrs. A. Prabha	14 th Aug'24 - Second Hour	Control Systems	Mathematical modelling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady-state analysis of linear time invariant systems, Stability analysis using Routh-Hurwitz and Nyquist criteria, Bode plots, Root loci, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, Solution of state equations of LTI systems.	Time Lelponde analytis	2

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3.0	Mr. T. Sathishkumar	14 th Aug'24 - Third Hour	Analog Electronics-I	Simple diode circuits: clipping, clamping, Rectifiers. Amplifiers: biasing, equivalent circuit and frequency response, Oscillators and feedback amplifiers.	O.C., S.C. Test	May
4.	Dr. S. Bhuvaneswari	14th Aug'24 - Fourth Hour	Power Systems	Basic concepts of electrical power generation AC and DC transmission concepts Models and performance of transmission lines & cables Economic Load Dispatch (with & without considering transmission losses) Series &	Barric concepts of Acar Oc Thurs explicated concepts concepts	Bus's
5.	Mrs. K. Kavitha	14 th Aug'24 - Fifth Hour	Calculus	Mean value theorems, Theorems of integral calculus Evaluation of definite and improper integrals Partial derivatives, maxima and minima Multiple integrals, Fourier series, vector identities, directional derivative line, surface and volume integrals, Stoke's theorem, Gauss's theorem, divergence theorem, Green's theorem	Volume, State Green tom	R



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GATE COACHING CLASS









Date: 14 Aug 2024 Venue: EEF03



Dr.L.Umasankar **Topic: Electric circuits**



Mrs.K.Kavitha Topic:Calculus **Topic: Power systems**

Mrs Dr.S.Bhuvaneshwari



Mrs.A.Prabha **Topic:Control systems**

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Topic: Electical Machines



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