Online Course @ SCORE ACADEMY (Version 4.0)

About the course

This Online Course focussing on KSEB / KPSC / PWD Assistant Engineer, Electrical Inspectorate, SSC JE, KSEB Sub Engineer will include "FOUNDATION COURSE" + coverage of entire syllabus relevant for all B.Tech & Diploma Level exams

All Courses @ SCORE ACADEMY are handled @ AE/B.Tech Level
Additional Theory sessions for Diploma Level exams are included within this course

As in regular classroom programme the focus will be on concept based study and will include video sessions, problem solving sessions & (classroom sessions after the covid-related restrictions are removed)

Features of Online course

- 1. Pre-Recorded video sessions will be available for each topic
- The video sessions will be available in our dedicated video platform + SCORE E3 Learning Mobile APP + question paper discussion + Screen Recorded Sessions as per requirement.
- 3. Module-wise Preparation
- 4. Module-wise FEE payment
- 5. Detailed course + Foundation program
- 6. Extensive problem solving & discussions
- 7. Analysis and solving of 3-Level problems
- 8. Surprise Tests + Part Tests + 3-Level Test series
- 9. Exam specific Module sessions
- 10. Special sessions for individual doubt clearing
- 11. Course will be facilitated by **subject matter expert faculties** for each module
- 12. All classes by **Rank Holders** in multiple KPSC,SSC,RRB & PSUs

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How to Join the Course All interested aspirants are requested

to fill in their details including email id. and contact number in the <u>Google form</u> shared

- 1. Interested students may please send in the filled up **Google form**
- 2. The module-wise course hours + No. of sessions + module wise fees will be updated to interested aspirants

Course fee

- New aspirants who wish to join the online course can pay the fees module wise. (module wise fee details will be updated)
- 2. An affordable Module-wise fee will be set up depending upon the number of course hours and faculty

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FOUNDATION LEVEL classes included in this course will include topics/concepts as required for KSEB, KPSC/ PWD Assistant Engineer, Electrical Inspectorate, Sub Engineer, Tradesman, Junior Instructor, Overseer, SSC JE Electrician exams.

The Course fee is structured "module wise" so that our beloved aspirants can easily afford the course and make the best outcome of it. We the team @ SCORE are most committed to provide the best comprehensive and effective course to all serious aspirants.

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Module-wise Schedule

| Course Plan + Test Analysis | Basics of Electrical Module-SE1 Scoring Level- 3 |
|--|--|
| | Electrical Circuits and Networks Fundamentals + Basics concepts Concept of Resistance and Detailed analysis of DC circuits Network Solving techniques Network Theorems Two- Port Networks Part -Test 1.1 |
| Complete study of Electrical Basics with 3-Level question discussion | AC Fundamentals - Detailed study Basics of AC + AC Power Calculations Resonance in R- L- C circuits Generation of poly phase voltage Polyphase Networks + Short cut problem solving techniques Three - Phase Power Calculations Part -Test 1.2 Electromagnetism Basics + Magnetic circuit Magnetism Electrostatics Electrical Material Science - Detailed study Part -Test 1.3 Test Discussion (No. of sessions will depend on student response) Assistant Engineer + GATE + ESE + SSC JE + State PSC level question discussion |
| | Combined 3-I evel Subject Tests |

Combined 3-Level Subject Tests

Questions discussed in class/Tests include GATE + ESE + SSC JE + KPSC + Other state PSC exams + Concept Building Questions (CBQs)

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| Course Plan + Test Analysis | Electrical Machines Part -1 Module-SE2 Scoring Level- 3 | | | | |
|--------------------------------|--|--|--|--|--|
| | DC Machines | | | | |
| | Rotating Machine Basics | | | | |
| | Generators & Motors : Principle and working | | | | |
| | Construction & Characteristics | | | | |
| DC Machines | Types of motors | | | | |
| | Methods of Speed Control | | | | |
| | Starting of DC motors | | | | |
| | Testing of DC motors | | | | |
| | Part –Test 2.1 | | | | |
| | Transformers | | | | |
| | Transformer Basics | | | | |
| | Principle and working | | | | |
| _ | Construction | | | | |
| Transformers | Application based analysis & Special Purpose Transformers Testing of Transformers | | | | |
| 361 | Part -Test 2.2 | | | | |
| | Electrical Heating & Welding | | | | |
| | Electric heating and welding | | | | |
| | Electric Heating-Types | | | | |
| | Electric Welding-Types | | | | |
| Utilization of | Generators and Transformers Part -Test 2.3 | | | | |
| Electric Power | rait-iest 2.3 | | | | |
| | Test Discussion (No. of sessions will depend on student response) | | | | |
| | Assistant Engineer + SUB Engineer + JE level question discussions | | | | |
| | Combined 3-Level Subject Tests | | | | |

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| Course Plan + Test Analysis | Electrical Machines Part -2 Module-SE2 Scoring Level- 3 | | | | | |
|---|---|--|--|--|--|--|
| | AC Rotating Machines | | | | | |
| | Synchronous generator | | | | | |
| | Synchronous Motor | | | | | |
| Synchronous & | Complete Analysis of Synchronous Machines | | | | | |
| Induction Machines | Complete analysis on Basics of AC machines | | | | | |
| induction wacrimes | Three Phase Induction Machines | | | | | |
| | Single Phase Induction Motors | | | | | |
| | Fractional Horse Power Motors – Application based analysis | | | | | |
| | Part –Test 2.4 | | | | | |
| | Electrical Drives in Industry | | | | | |
| | Classification of Electric Drives | | | | | |
| | Electric Traction | | | | | |
| Applications of | Traction motors | | | | | |
| Electrical Machines | Application based analysis | | | | | |
| | Miscellaneous Topics from AC machines | | | | | |
| UU | Part -Test 2.5 | | | | | |
| | Miscellaneous Topics from Power systems/ Substation / Machines | | | | | |
| | Inter-related Topics from | | | | | |
| Important | Power systems + Electrical Machines + Power Electronics | | | | | |
| Miscellaneous | Relevant for AE Level , Diploma Level Exams | | | | | |
| Topics | | | | | | |
| | Part -Test 2.6 | | | | | |
| Test Discussion (No. of sessions will depend on student response) Assistant Engineer + SUB Engineer + JE level question discussions | | | | | | |
| | Assistant Engineer + SUB Engineer + JE level question discussions | | | | | |

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| Course Plan + Test Analysis | Electrical Measurements + Design & Wiring Module-SE3 Scoring Level- 2 | | | |
|--------------------------------|--|--|--|--|
| Electrical Measurements | Theory of Measuring Instrument (Detailed Analysis) Measurement of Power and Energy Measurement of R L C Bridges (AC & DC) Commercial Measuring Instruments Miscellaneous Topics –Detailed study | | | |
| Design & Wiring | Part -Test 3.1 Design & Wiring Wiring Types Indian Electricity Rules-1956 Classification of Voltages, Standards And Specifications Wiring materials and accessories General Rules for Wiring Protective Electrical Installation Earthing Testing of Installation Scheme Part -Test 3.2 | | | |
| | Test Discussion (No. of sessions will depend on student response) Assistant Engineer + GATE + ESE + SSC JE + State PSC level question discussion Combined 3-Level Subject Tests | | | |

Electrical Measurements + Design & Wiring Reasoning for Technical Exams (FREE Course)

(For SSC JE, RRB JE other JE / AE post)

Questions discussed in class include GATE + ESE + SSC JE + KPSC + Other state PSC exams + Concept Building Questions (CBQs)

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| Course Plan | Reasoning for Technical Exams Complimentary course with Module-SE3 | |
|---------------------------------|--|--|
| | Reasoning Course | |
| | Counting of Figures | |
| | Cubes and Dice | |
| | Grouping of Images | |
| | Mirror Images | |
| | Paper Cutting | |
| D | Venn Diagram | |
| Reasoning | Analogy (Alphabetic and Number) | |
| | Syllogisms | |
| (FREE Course | Word Formation | |
| with | Logical Sequence of Words | |
| Module SE-3) | Blood Relation | |
| | Direction and Distance | |
| | Clock | |
| | Calendar | |
| | Dictionary | |
| | Special Series | |
| SCC | Ranking Arrangement Miscellaneous | |
| FREE Full Reasoning Topic Tests | | |

Features of Reasoning Classes included with this course
15 Hours Capsule Reasoning
for SSC JE & all Technical exams

- Topic wise coverage of Entire Reasoning Topics for all Technical Exams
- Out of the box Short cuts and easy Tricks to solve Reasoning questions in 20 seconds
- SSC JE Previous Year Question Paper Discussion (<u>full Reasoning</u> Question Discussion)
- 10 days Intensive Reasoning Course
- FAST MATHS Session for problem solving helpful for all exams
- Reasoning Sessions handled by Multiple time Qualifier of SSC CGL,CHSL,RRB

A Very Useful Session for all serious Aspirants

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| Course Plan + Test Analysis | Power Systems & Alternative Energy Module-SE4 Scoring Level- 3 | | | | |
|--------------------------------|--|--|--|--|--|
| | Power System Basics | | | | |
| | Electrical Power Generation | | | | |
| | Power factor improvement | | | | |
| Basics, Generation, | Transmission Line Elements | | | | |
| Transmission | Distribution System (AC and DC) | | | | |
| & Distribution | Substation Basics | | | | |
| | Economic Load Dispatch | | | | |
| | Classification of Transmission Line / Parameters (Detailed Study) Part -Test 4.1 | | | | |
| | Transmission Parameters & Switch Gear and Protection | | | | |
| | | | | | |
| | Transmission Line + Effects (Detailed Study) p.u. systems | | | | |
| | Short circuit current calculation | | | | |
| 000 | Fault Analysis Symmetrical & Unsymmetrical faults (Basic concepts) | | | | |
| Switch Gear and | Fuses-circuit breakers-relays | | | | |
| Protection | Protection of Alternators Transformers, Transmission Line | | | | |
| | (Detailed Study) | | | | |
| | Earthing and lightning arresters | | | | |
| | HVAC, HVDC, FACTS | | | | |
| | Part –Test 4.2 | | | | |
| | Renewable Sources Of Energy | | | | |
| | Conventional sources of energy | | | | |
| | Non-conventional source of energy | | | | |
| | Wind energy basics | | | | |
| | Application of wind energy devices | | | | |
| Sources of Energy | Concepts of Ocean Energy | | | | |
| | Part -Test 4.3 | | | | |
| | Test Discussion (No. of sessions will depend on student response) Assistant Engineer + GATE + ESE + SSC JE + State PSC level question discussion | | | | |
| | Combined 3-Level Subject Tests | | | | |

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| Course Plan + Test Analysis | Basics of Electronics Module-SE5 Scoring Level- 3 | | | | | |
|--|--|--|--|--|--|--|
| A complete course on Electronics for all competitive exams | Fundamentals + Basics Semiconductor Theory Semiconductor materials, devices and circuits Diodes & Rectifiers Part -Test 5.1 Transistor Amplifiers Amplifier configurations Oscillators and Multi vibrators Op-Amp and Wave Shaping Circuits Part -Test 5.2 Digital electronics Number systems Boolean Algebra Logic Circuits Combinational Logic Circuits Sequential Logic Circuits Part -Test 5.3 Microprocessors and Micro controller family Micro Controller Architecture Interfacing & Applications Application, classification and working of computers Working of memory and input — output devices Flow chart, Algorithm, Data Processing and Programming Methodology Part -Test 5.4 Test Discussion (No. of sessions will depend on student response) Assistant Engineer + GATE + ESE + SSC JE + State PSC level | | | | | |
| | Combined 3-Level Subject Tests | | | | | |

Questions discussed in class include GATE + ESE + SSC JE + KPSC + Other state PSC exams + Concept Building Questions (CBQs)

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| Course Plan + Test Analysis | Power Electronics + Basics of Electromagnetic Theory + Illumination Module-SE6 Scoring Level- 3 | | | | | |
|--------------------------------|---|--|--|--|--|--|
| | Power Electronics | | | | | |
| | Power Electronics Basics | | | | | |
| | Semiconductor Power Diodes, Transistors, Thyristors, Triacs | | | | | |
| | Power Control Devices | | | | | |
| Power Electronics | Converters and Inverters | | | | | |
| and its Applications | Voltage Regulators and Power Supplies | | | | | |
| | Part -Test 6.1 Test Discussion (No. of sessions will depend on student response) | | | | | |
| | Assistant Engineer + SUB Engineer + JE level question discussions | | | | | |
| 000 | Basics of Electromagnetic Theory for KPSC | | | | | |
| | Gauss Theorem | | | | | |
| Basics of | Electric Field And Potential Due To Point, Line, Plane | | | | | |
| Electromagnetic | And Spherical Charge Distribution | | | | | |
| Theory | Ampere's And Biot-Savarts Law | | | | | |
| | Inductance; Dielectrics; Capacitance | | | | | |
| | Part –Test 6.2 Illumination | | | | | |
| | Illumination – terms and definitions | | | | | |
| Illumination | | | | | | |
| illullillation | Laws of illumination lighting schemes | | | | | |
| | Design and calculation Lamps – different types – working | | | | | |
| | Part –Test 6.3 | | | | | |
| | | | | | | |
| | | | | | | |

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Subjects which are specific only for Assistant Engineer / Electrical Inspectorate exams

(Control Systems, Signals & Systems, Electrical System/ Machine Design)

| Course Plan + Test Analysis | Signals & Systems Control Systems Module- SE-7 Scoring Level- 3 | | | | | |
|--------------------------------|---|--|--|--|--|--|
| | Signals and systems | | | | | |
| | Representation of continuous and discrete time signals; shifting and | | | | | |
| | scaling operation; liner time invariant and causal systems: | | | | | |
| | Representation of continuous and discrete time signals; shifting and | | | | | |
| Signals and | Part -Test 8.1 | | | | | |
| systems | Representation of continuous and discrete time signals; shifting | | | | | |
| COC | Fourier, Laplace and Z transforms | | | | | |
| | Part -Test 8.2 | | | | | |
| | Test Discussion (No. of sessions will depend on student response) | | | | | |
| | Assistant Engineer + GATE + ESE level question discussion | | | | | |
| | Control Systems | | | | | |
| | Principles of feedback; transfer function; block diagrams | | | | | |
| | Steady-State Errors; Routh and Nyquist techniques | | | | | |
| | Bode plots; Root Loci | | | | | |
| Control Systems | Part –Test 8.3 | | | | | |
| | Lag, Lead and Lead-Lag Compensation | | | | | |
| | State Space Model State Transition Matrix, Controllability, And Observability | | | | | |
| | State Transition Matrix, Controllability And Observability Part –Test 8.4 | | | | | |
| | rail-iest 0.4 | | | | | |
| Combined 3-Level Subject Tests | | | | | | |

Questions discussed in class include GATE + ESE + SSC JE + KPSC + Other state PSC exams + Concept Building Questions (CBQs)

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| Course Plan + Test Analysis | Electrical System Design Module- SE-8 Scoring Level- 2 | | | | |
|--------------------------------|---|--|--|--|--|
| | Electrical system Design | | | | |
| | Medium and HV installations | | | | |
| | Design of distribution systems with light power and motor loads | | | | |
| | Design of indoor and outdoor substation | | | | |
| Electrical | Part -Test 9.1 | | | | |
| Liectrical | Design of Earthing system | | | | |
| System Design | Selection of standby generator | | | | |
| | Pre-commissioning tests | | | | |
| | Part -Test 9.2 | | | | |
| | Test Discussion (No. of sessions will depend on student response) | | | | |
| | Assistant Engineer + GATE + ESE + SSC JE + State PSC level | | | | |
| | question discussion | | | | |
| | Electrical Machine Design | | | | |
| | Design of transformers | | | | |
| Electrical | Design of DC machines | | | | |
| | Part -Test 9.3 | | | | |
| Machine Design | Design of synchronous machines | | | | |
| | Design of three phase induction motors | | | | |
| | Part –Test 9.4 | | | | |
| | Combined 3-Level Subject Tests | | | | |

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Technical Syllabus Comparison

| Study Conceptually Prepare Comprehensively | | Diploma Qualification Exams | | B.Tech/ Degree Level Exams | |
|--|--|--------------------------------|-----------------------|--|---|
| SI.No. | TOPICS | KSEB Sub Engineer | SSC JE & RRB JE | KPSC / KSEB / PWD Assistant Engineer/ Assistant Electrical Inspector | Assistant Professor (M.Tech Qualification) Polytechnic Lecturer |
| 1 | Basic concepts | ✓ | ✓ | ✓ | ✓ |
| 2 | Circuit laws & Network Theory | ✓ | ✓ | ✓ | ✓ |
| 3 | Magnetic Circuit | ✓ | ✓ | ✓ | ✓ |
| 4 | AC Fundamentals | ✓ | ✓ | ✓ | ✓ |
| 5 | Measurement and measuring instruments | ✓ | ✓ | ✓ | √ |
| 6 | Electrical Machines | ✓ | ✓ | ✓ | ✓ |
| 7 | Fractional Kilowatt Motors and Single Phase Induction Motors | Ý | √ • | | ✓ |
| 8 | Synchronous Machines | ✓ | ✓ | ✓ | ✓ |
| 9 | Generation, Transmission and Distribution | | | | ✓ |
| 10 | Switchgears | ✓ | ✓ | ✓ | ✓ |
| 11 | Estimation and costing | ✓ | ✓ | ✓ | ✓ |
| 12 | Utilization of Electrical Energy | ✓ | ✓ | ✓ | ✓ |
| 13 | Basic Electronics | ✓ | ✓ | ✓ | ✓ |
| 14 | Power Electronics | ✓ | ✓ | ✓ | ✓ |
| 15 | Analog Electronics, Linear IC , OP-AMP | * | * | ✓ | ✓ |
| 16 | Digital Electronics & Microprocessors | | | ✓ | ✓ |
| 18 | Electrical system Design | * | * | ✓ | ✓ |
| 19 | Electrical Machine Design | | | ✓ | ✓ |
| 20 | Electromagnetics | * | * | ✓ | ✓ |
| 21 | Signals and systems | * | * | ✓ | ✓ |
| 22 | Control Systems | | | ✓ | ✓ |

^{*} Even though the subject is not explicitly mentioned in the syllabus, a basic understanding of the subject is recommended

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Usual footnote in Kerala PSC exam syllabus/ notification

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper

So Prepare Comprehensively!!









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