

TNCSC Assistant Engineer Syllabus || Check TNCSC AE Exam Pattern @ www.tncsc.tn.gov.in

TNCSC Assistant Engineer Exam Pattern

Paper	Name of the Subjects	No of Marks	Exam Duration
Paper I	One of the following subjects in which the Candidates has acquired his/her Degree Qualification 200 Questions <ul style="list-style-type: none">• Computer Engineering• Civil Engineering• Electrical Engineering• Mechanical Engineering	300 Marks	3 Hours
Paper-II	General Studies 100 questions <ul style="list-style-type: none">• General Studies (Degree Standard) 75 Questions• Aptitude & mental Ability (SSLC Standard) 25 Questions	200 Marks	2 Hours
Interview & Records	–	70 marks	
Total	–	570 marks	

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Civil Engineering

- Strength of Materials.
- Project Management and Estimating.
- Building Materials and Construction Practices.
- Environmental Engineering and Pollution Control.
- Hydraulics and Water Resources Engineering.
- Engineering Survey.
- Geotechnical Engineering.
- Urban and Transportation Engineering.
- Structural Analysis.
- Design of Reinforced Concrete, Prestressed Concrete and Steel Structures.

Computer Engineering

- Design and Analysis of Algorithms.
- Operating Systems.
- Mathematics.
- Object-Oriented Concepts.
- Microcontroller and Embedded Systems.
- Design and Analysis of Algorithm Laboratory.
- Data Communication.
- Microcontroller and Embedded Systems Laboratory.

Electrical Engineering

- Electrical Machines.
- Measurements and Instrumentation.
- Electrical Circuits.
- Electric and Magnetic Fields.
- Renewable Energy Sources and Storage Devices.
- Power Systems.
- Control Systems.
- Digital Processing and Communication.
- Analog and Digital Electronics.
- Power Electronics and Drives.

Mechanical Engineering

- Refrigerator and Air-Conditioning.
- Manufacturing Process.
- Metal Cutting and Machine Tools.
- Material Science and Metallurgy.
- Thermodynamics.
- Theory of Machines.
- Machine Tools
- Air Compressor.
- Engineering Mechanics.
- Fluid Mechanics And Machines.
- Strength Of Materials.
- Applied Thermodynamics.
- Turbo Machines.
- Vibrations.
- Heat Transfer.
- Welding And Allied Processes.
- Foundry, Welding, and Forging.
- Heat Power.
- The Design of Machine Elements.
- Production and Operation Management.

- Pattern Making.

General Studies

- Budget and Five Year Plans.
- Books and Authors.
- Important Financial & Economic News
- Abbreviations.
- Important Days.
- Sports.
- Awards and Honors.
- Current Affairs – National & International.
- Science – Inventions & Discoveries.
- International & National Organizations.
- Countries & Capitals.

Aptitude and Mental Ability

- Conversion of information to data.
- Ratio and Proportion.
- Highest Common Factor (HCF) & Lowest Common Multiple (LCM).
- Area.
- Volume.
- Problem Solving.
- Percentage.
- Analytical interpretation of data.
- Simplification.
- Simple Interest and Compound Interest.
- Puzzles.
- Time & Work.
- Tables, Graphs, Diagrams.
- Collection.
- Logical Reasoning.
- Decision making.