

Satish Dhawan Space Centre Shar

Exam pattern

Name of the Subject	Number of Questions	Number of Marks
Computer Knowledge	25	25
Mechanical	25	25
Electrical	25	25
Electrician	25	25
Total	100	100

SDSC SHAR Technician Mechanical Syllabus

- Calculus
- Vector Calculus
- Differential Equations
- Metal Casting
- Forming Processes
- Joining Processes
- Operations

Satish Dhawan Space Centre Shar

- Metrology and Inspection
- Operations Research
- Inventory Control
- Production Planning and Control
- Numerical Methods
- Probability & Statistics
- Engineering Mechanics
- The Strength of Materials
- Theory of Machines
- The design of Machine Elements
- Manufacturing Analysis
- Tool Engineering Metrology and Inspection

SDSC SHAR Draughtsman Syllabus - Electrical

- Electromagnetic Theory
- Network Analysis
- Electrical Machines
- Control Systems
- Power System Analysis & Control
- Power System Protection
- Switch Gear and Protection etc
- Power Electronics & Drives
- Power Systems

Satish Dhawan Space Centre Shar

- Analog and Digital Electronics
- Electronics Devices
- Electrical Instrumentation
- Utilization of Electrical Energy

SDSC SHAR Draughtsman Electrician Syllabus

- Analog Electronic Circuits
- Digital Electronic Circuits
- Control Systems
- Communication Systems
- Microwave Engineering
- The transistor as a switching element
- Karnaugh map and applications
- Small signal analysis
- Physical Electronics
- Electron Devices and ICs
- Signals and Systems
- Network Theory
- Electromagnetic Theory
- <https://www.freshersnow.com/syllabus/>
- Power amplifiers
- Frequency
- Broad banding techniques

Satish Dhawan Space Centre Shar

- Transient and steady-state response of control systems
- Concepts of gain and phase margins
- Constant-M and Constant-N Nichol's Chart

SDSC SHAR Technician Computer Knowledge Syllabus

- Assembly language Programming
- Data representation
- Programming
- Elements of a high-level programming language PASCAL/ C
- Use of basic data structures
- Fundamentals of computer architecture
- Processor design
- Control unit design
- Microprocessor-Based system design: typical examples
- Personal computers and their typical uses
- Number Systems
- Memory organization