## **RRB SSE Syllabus**

RRB SSE exam aims to assess the technical knowledge and aptitude of candidates aspiring to work as Senior Section Engineers in the Indian Railways. The exam consists of various sections, each focusing on different aspects of engineering and related topics. Here is the breakdown of the **RRB SSE Syllabus**:

RRB SSE Syllabus		
Section	Syllabus	
	<ul> <li>Analytical reasoning</li> </ul>	
	<ul> <li>Verbal and non-verbal reasoning</li> </ul>	
	<ul> <li>Number series</li> </ul>	
	<ul> <li>Coding and decoding</li> </ul>	
General Intelligence & Reasoning	<ul> <li>Analogies</li> </ul>	
	<ul> <li>Decision making</li> </ul>	
	<ul> <li>Syllogism</li> </ul>	
	<ul> <li>Venn diagrams</li> </ul>	
	<ul> <li>Blood relations</li> </ul>	
	Similarities and differences	

	<ul> <li>Statement-conclusion</li> </ul>
	<ul> <li>Puzzles</li> </ul>
	<ul> <li>Data interpretation</li> </ul>
	<ul> <li>Current affairs</li> </ul>
	<ul> <li>Indian economy</li> </ul>
	<ul> <li>History and Culture of India</li> </ul>
	<ul> <li>Indian Geography</li> </ul>
General Awareness	• Sports
General Awareness	<ul> <li>Awards and honors</li> </ul>
	<ul> <li>Science and technology</li> </ul>
	<ul> <li>Indian polity</li> </ul>
	<ul> <li>Books and authors</li> </ul>
	<ul> <li>Important dates</li> </ul>
	<ul> <li>Number system</li> </ul>
	<ul> <li>Ratio and proportion</li> </ul>
Arithmetic	· Percentage, Average
	<ul> <li>Time and work</li> </ul>
	<ul> <li>Time and distance</li> </ul>

	<ul><li>Simple and compound interest</li><li>Profit and loss</li></ul>
	<ul> <li>Simplification</li> </ul>
	<ul> <li>Data interpretation</li> </ul>
	<ul> <li>Algebra, Geometry</li> </ul>
	<ul> <li>Mensuration</li> </ul>
	<ul> <li>Electrical engineering</li> </ul>
	<ul> <li>Electronics and communication engineering</li> </ul>
	<ul> <li>Mechanical engineering</li> </ul>
Technical Ability	<ul> <li>Civil engineering</li> </ul>
	<ul> <li>Computer science engineering</li> </ul>
	<ul> <li>Instrumentation and control engineering</li> </ul>
	<ul> <li>Information technology</li> </ul>
Conoral Saionas	<ul> <li>Physics</li> </ul>
General Science	• Chemistry

	<ul> <li>Biology</li> </ul>
	<ul> <li>Environmental science</li> </ul>
	<ul> <li>Scientific laws</li> </ul>
	<ul> <li>Inventions and discoveries</li> </ul>
	• Basic principles of science.
	<ul> <li>Engineering drawing</li> </ul>
	<ul> <li>Engineering Mechanics</li> </ul>
	<ul> <li>Engineering materials</li> </ul>
	• Engineering thermodynamics
General Engineering	<ul> <li>Strength of materials</li> </ul>
General Engineering	<ul> <li>Fluid mechanics, Machine design</li> </ul>
	<ul> <li>Theory of machines</li> </ul>
	<ul> <li>Industrial engineering</li> </ul>
	<ul> <li>Manufacturing technology</li> </ul>

# RRB SSE Syllabus 2024 PDF

RRB SSE Syllabus 2024 PDF is as follows:

Download the RRB SSE Syllabus 2024 PDF (Inactive) RRB SSE Syllabus 2024 for Technical Ability RRB SSE syllabus 2024 covers the major areas of focus for each field in the Technical Ability section of the RRB SSE recruitment 2024. Given below is the RRB SSE syllabus 2024 for technical ability. However, candidates should refer to the official syllabus and study materials provided by the Railway Recruitment Board for a more comprehensive understanding of the subject matter.

RRB SSE Syllabus 2024 for Technical Ability		
Field	<b>Topics Covered</b>	
	<ul> <li>Electrical circuits and measurements</li> </ul>	
	• Electrical machines	
	• Power Systems	
	<ul> <li>Control systems</li> </ul>	
Electrical Engineering	<ul> <li>Power Electronics</li> </ul>	
	<ul> <li>Analog and digital electronics</li> </ul>	
	<ul> <li>Utilization of electrical energy</li> </ul>	
	<ul> <li>Electrical and electronic measurements</li> </ul>	

Electric traction Basics of electronics engineering Electronic devices and circuits Network analysis, Analog, and digital communication systems Control systems Electronics and Computer organization and Communication architecture Engineering Microprocessors and microcontrollers • Digital signal processing • Microwave engineering Antennas and wave propagation Satellite communication Mechanics Mechanical Engineering Engineering materials

- Strength of materials
- Theory of machines
- Machine design
- Fluid mechanics and hydraulic machinery Thermodynamics
- Heat transfer
- Power engineering
- Refrigeration and air conditioning
- Manufacturing technology
- Industrial engineering
- Building materials
- SurveyingApplied mechanics
- Civil Engineering
- Structural analysis
- Design of concrete structures
- Design of steel structures

- Construction planning and management
- Fluid mechanics
- Soil mechanics and foundation engineering
- Environmental engineering
- Transportation engineering.
- Computer organization and architecture
- Data structures and algorithms
- Programming languages
- Operating systems
- Database management systems
- Computer networks
- Web technologies
- Software engineering
- Digital logic

Computer Science Engineering

Theory of computation Artificial intelligence Basics of measurement systems Process control Analytical instrumentation Transducers and their applications **Industrial Instrumentation** Instrumentation and **Control Engineering**  Control systems and process control Communication and optical instrumentation • Biomedical instrumentation Control valves and actuators Industrial automation Computer organization and architecture Information Technology Data structures and algorithms

- Programming languages
- Operating systems
- Database management systems
- Computer networks
- Web technologies
- Software engineering
- Digital logic
- System Security
- Information systems and software engineering

### **RRB SSE Exam Pattern**

Railway Recruitment Board (RRB) conducts the Senior Section Engineer (SSE) exam to recruit qualified candidates for various technical positions in the Indian Railways. The SSE exam is a highly competitive examination that assesses the technical knowledge and aptitude of candidates. Below is the **RRB SSE Exam pattern** presented in tabular form: A computer-based test (CBT) is the first part of the RRB SSE exam, and it is

followed by a document check and a physical. Stage 1 and Stage 2 are the other two divisions of the CBT.

## **Stage 1 of CBT:**

Stage 1 of CBT consists of multiple-choice questions (MCQs) from various subjects such as Mathematics, General Intelligence & Reasoning, General Awareness, and General Science.

RRB SSE Exam Pattern 2024 CBT 1				
Section	Number of Question s	Marks per Questio n	Total Mark s	Time Allotte d
Mathematic s	30	1	30	
General Intelligence & Reasoning	25	1	25	90 minutes
General Awareness	15	1	15	
General Science	30	1	30	

<b>Total</b>	100	100

## **Stage 2 of CBT:**

Stage 2 of CBT also includes MCQs, but the subjects are slightly different. It includes sections such as General Awareness, Physics & Chemistry, Basics of Computers and Applications, Basics of Environment and Pollution Control, and Technical Abilities.

RRB SSE Exam Pattern 2024 CBT 2				
Section	Number of Question s	Marks per Questio n	Total Mark s	Time Allotte d
General Awareness	15	1	15	
Physics & Chemistry	15	1	15	120
Basics of Computers and Application s	10	1	10	minutes

Basics of			
Environmen			
t and	10	1	10
Pollution			
Control			
Technical Abilities	100	1	100
Total	150		150

### **Document Verification**

After qualifying for the CBTs, candidates are called for a document verification process, where their eligibility and documents are verified. Those who clear the document verification stage undergo a medical examination before the final selection.

Stream/ Specialization	Reference Books	Author/ Publisher
Electrical Engineering	Electrical Engineering: Concepts and Applications Electrical	S.A. Nasar A. Handa, M. Handa.

	Engineering: Objective Type	
Electronics and Communication Engineering	Electronic Devices and Circuit Theory Electronic Devices and Circuits	Robert L. Boylestad, Louis Nashelsky David A. Bell.
Mechanical Engineering	Mechanical Engineering: Objective Type Strength of Materials Theory of Machines	R.S. Khurmi & J.K. Gupta R.K. Bansal R.S. Khurmi & J.K. Gupta
Civil Engineering	Civil Engineering: Conventional and Objective Type Design of Reinforced Concrete Structures	R.S. Khurmi & J.K. Gupta M.L. Gambhir.
Computer Science Engineering	Computer Science: A Structured Approach Using C++ Computer	Behrouz A. Forouzan

	Organization and Architecture	William Stallings.
Instrumentation and Control Engineering	Process Control: Modeling, Design, and Simulation Control Systems Engineering	B. Wayne Bequette Norman S. Nise