

RRB JE

Complete Syllabus





RRB JE Syllabus is released by the Railway Recruitment Board along with the official notification. Candidates must have a thorough understanding of the syllabus in order to pass the exam. Candidates can obtain a framework for planning and executing their preparation strategy by downloading RRB JE Syllabus PDF. RRB organizes the Junior Engineer exam to give millions of candidates the opportunity to work with a large corporation that is Indian railways.

RRB JE syllabus is divided into two sections namely CBT 1 and CBT 2. A thorough understanding of the RRB JE CBT 1 syllabus will aid in passing the Tier 1 examination. Similarly, the RRB JE CBT 2 syllabus will assist candidates in their preparation and focusing on important topics. We have provided the most recent branch-wise RRB JE syllabus 2023 for CBT 1 and CBT 2, as well as preparation tips below.

RRB JE Syllabus 2023

RRB JE Syllabus 2023 is an important element for drawing up the roadmap to success. Candidates from various educational backgrounds, such as electrical, mechanical, and civil, take the exam to become **RRB JE**. Hence, understanding the RRB JE mechanical, civil, and electrical syllabus is critical to ensure that candidates' preparation level is second to none.





As discussed the exam will be conducted in two phases i.e. CBT 1 and CBT 2. RRB JE syllabus for CBT 1 consists of general subjects whereas the RRB JE 2023 syllabus for CBT 2 consists of chapters and topics of technical subjects. To prepare in the best way possible, candidates should develop a well-rounded understanding of the syllabus by reading the details provided below.

RRB JE CBT 1 Syllabus

RRJ JE syllabus 2023 for CBT 1 consists of subjects scrutinizing candidates' aptitude skills. **RRB JE CBT 1 syllabus** is divided into four sections namely Mathematics, Reasoning, General Awareness, and General Science. To help candidates prepare well, the subject-wise syllabus, topics, and sub-topics are elaborated here.

RRB JE Mathematics Syllabus

Mathematics is a high-scoring section of the RRB JE CBT 1 exam. It consists of 30 marks out of which maximum marks can be scored by fully grasping the key ideas and adequately practicing chapters like Data Interpretation, Partnership, Time, Speed, Distance, Probability, and so on. The important topics of the **RRB JE maths syllabus** are listed below to assist





candidates in narrowing their scope of preparation and focusing on the important topics.

RRB JE Syllabus for Mathematics	
Partnership	Allegation & Mixture
Time and Work	Time, Speed, and Distance
Mensuration	Boats & Streams
Probability, Permutation and Combination	Pipes & Cisterns
Data Sufficiency	Data Interpretation
Number System	LCM & HCF
Simplification	Approximation
Percentage	Profit & Loss
Simple & Compound Interest	Ratio & Proportion
Problems on Age	Average



AIR 1

in ONGC JE, Tripura

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AIR-3 | SSC JE (CE)



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AIR-8 | SSC JE (CE)



Alok Kumar

AIR- 9 | SSC JE (EE)



Debasish Das

Rank-1 | ONGC JE (EE)



Girraj Mohta

AIR-19 | Civil



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RRB JE Syllabus for General Science

As per RRB JE syllabus for General Science, many topics in Physics, Chemistry, and Biology till the standard 10 are covered. This section contains 30 marks which makes it a very important part of the exam. Candidates can easily score well in this section if they devote their time to important topics in an efficient manner. **RRB JE General Science syllabus** covers the following topics:

Physics	Chemistry	Biology
Electricity	Structure Of Atom	Plant Kingdom
Light - Reflection and Refraction	Classification of Elements and Periodicity	Animal Kingdom
Sources of Energy	Chemical Bonding And Molecular Structure	Molecular Basis of Inheritance
Gravity	States of Matter	Genetics and Evolution
Sound	Thermodynamics	Ecology and Environment
Motion	Organic Chemistry	Reproduction

RRB JE General Intelligence and Reasoning Syllabus

RRB JE Syllabus for GI and Reasoning can be easily covered in a short span of time. However, it requires regular practice so that candidates can score full





marks in it. The section consists of 25 marks, which can be challenging if the preparation is not done correctly. Hence, knowing the **RRB JE GI and Reasoning syllabus** becomes crucial to scoring well. The following topics need to be covered in General Intelligence and Reasoning section:

RRB JE Syllabus for General Intelligence and Reasoning	
Analytical Decision Making	Order & Ranking
Blood Relations	Puzzles
Coding & Decoding	Seating Arrangement
Direction & Distance	Syllogism
Grouping & Scheduling	Alpha Numeric Series
Inequality	Decision Making
Input-Output	Miscellaneous

RRB JE General Awareness Syllabus

The General Awareness section consists of only 15 marks but that does not mean candidates should not pay attention to it. This section can prove to be extremely beneficial as it only requires you to memorize facts. Knowing the RRB JE Syllabus, and the topics covered in General Awareness for RRB JE





CBT 1 exam will help candidates score these 15 marks easily.

RRB JE General Awareness Syllabus

Static GK	General Awareness - Railways
Awards & Honors	Railway Budget
Sports	Current Affairs
UNO	Indian History
Committees and their Heads	Geography





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RRB JE CBT 2 Syllabus

To participate in the RRB JE CBT 2, candidates must pass CBT 1. Environmental science, Science, Computer Applications, and General Awareness are all included in the RRB JE Syllabus for CBT 2. This test is designed to evaluate the candidate's general knowledge of current affairs and technological advancements. Below is a list of the entire topics covered in each subject as well as the comprehensive RRB JE CBT 2 syllabus.

RRB JE CBT 2 Syllabus			
General Awareness	Basics of Computer and Applications	Basics of Environment and Pollution Control	Physics and Chemistry
Knowledge of Current Affairs	The architecture of Computers	Adverse effects of environmental pollution and control strategies, their effect and control	Basic concepts of Physics up to 10th Class
Indian Geography	Input and Output devices	Ozone Depletion	Basic concepts of Chemistry up to 10th Class
Indian Economy	Storage devices	Acid Rain	
Indian History	MS Office	Different Types of Pollution	





Scientific and Technological Developments	Networking	Global Warming	
Environmental issues concerning India and the World	Operating systems (Windows, Unix, Linux)	Waste Management	
Indian Polity and Constitution	Computer Virus		
Indian Culture	Internet, Web Browsers, and Email		
Sports	Various data representation		

RRB JE Civil Syllabus

RRB JE Syllabus for Civil contains all of the important concepts from which questions will be asked in the exam. Most of these topics are covered at the graduation level, making them easier to prepare for. Candidates can review the **RRB JE civil syllabus** provided below to get an idea of the important topics they should be familiar with in order to prepare well for the exam.

- Engineering Mechanics
- Building Construction & materials
- Construction of substructure & superstructure





- Building drawing, finishes & Maintenance
- Concrete Technology
- Surveying
- Computer-Aided Design
- Geo-Technical
- Hydraulics
- Irrigation Engineering
- Mechanics of Structures
- Theory of structures
- Design of Concrete Structures
- Design of Steel Structures
- Transportation Engineering
- Highway Engineering
- Environmental Engineering
- Advanced Construction Techniques and Equipment
- Estimating and Costing
- Contracts and Accounts

RRB JE Electrical Syllabus

RRB JE syllabus for electrical contains a bunch of topics that are fundamental to the core study of the subject. Candidates who choose their subject as electrical engineering in the exam must have an in-depth knowledge of these subjects to score well. The **RRB JE syllabus for electrical engineering** is listed below:





- Basic concepts
- Circuit law
- Magnetic Circuit
- AC Fundamentals
- Measurement and measuring instruments
- Electrical Machines
- Synchronous Machines
- Generation, Transmission, and Distribution
- Switchgear Utilization of Electrical Energy and Protection
- Estimation and costing
- Basic Electronics

RRB JE Mechanical Syllabus

The mechanical engineering syllabus for RRB JE is very interesting and many topics from it are the ones that candidates have already studied during their graduation. Those who have chosen this subject must prepare it well and pay extra attention to important topics in order to perform well in the exam. Candidates can check out the **RRB JE mechanical syllabus** below.

- Engineering Mechanics
- Material Science
- Strength of Materials
- Machining
- Welding





- Grinding & Finishing Process
- Metrology
- Fluid Mechanics
- Hydraulic Machinery
- Industrial Management
- Thermal Engineering

RRB JE Electronics Syllabus

Candidates should check the **RRB JE syllabus for electronics engineering** to narrow down the list of topics they have to study for the exam. This will help them save time and effort. RRB JE syllabus for electronics is provided below for easy understanding.

- Electronic Components & Materials
- Electronic Devices and circuits
- Digital Electronics
- Linear Integrated Circuit
- Microprocessor and Microcontroller
- Electronic Measurements
- Communication Engineering
- Data communication and Network
- Computer Programming
- Basic Electrical Engineering





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RRB JE Syllabus for Printing Technology

Candidates should study the printing technology syllabus for RRB JE well to understand the important topics that are crucial to the exam. RRB JE printing technology syllabus is provided below for the candidate's reference.

- Printing Systems
- Printing Materials
- Flexo, Gravure and Screen Printing
- Printing Finishing Processing
- Image Processing
- Design & Advertising in Print Media
- Sheetfed offset Machines
- Publishing Software
- Paper and Ink
- Colour Separation and Management
- Plate Making Methods
- Printing Machine Maintenance
- Digital Imaging
- Web offset Printing
- Printer's Accounting and Estimating
- Advanced Printing Technologies
- Package Technology





RRB JE IT and CMA Syllabus

Various important topics that candidates can refer to in order to cover the RRB JE syllabus for IT and CMA can take a look at the table given below:

Computer Science and Information Technology (JE-IT)	CMA Exam
PC Software	Measurements
Computer Fundamentals	Light, Heat & Sound
C Language	Mechanics
Computer Organisation	Magnetism
Information Systems	Electricity & Electro-Magnetism
Data Structure using C++	Modern Physics
DBMS fundamentals	Electronics and Communications:
System Programming	Matter
Operating System using LINUX	Chemical Reactions
Web Technologies and Programming	Acids and Bases, Salts
System Analysis and Design	Atomic Structure





Data and Network Communication:	Periodic Classification of Elements
Java Programming	Chemical Bonding
Software Engineering	Carbon and its Compounds
	Environmental Chemistry
	Metallurgy

Difference Between SSC JE and RRB JE Syllabus

The syllabus for RRB JE and SSC JE appears to be similar, but there are significant differences. The RRB JE syllabus has more than three sections, making it quite extensive, whereas the SSC JE syllabus only has three sections. SSC JE is held by the SSC for recruitment into various Ministries, whereas RRB JE is only held for appointment into the Indian Railways. Here is a detailed comparison of the SSC JE and RRB JE Syllabus.

RRB JE Syllabus	SSC JE Syllabus
RRB JE syllabus tests your overall knowledge of all the relevant topics that are considered important for a government job aspirant.	SSC JE exam syllabus focuses on testing your engineering skills and abilities.





RRB JE Syllabus tests the candidate's knowledge of Mathematics, GI, Reasoning, General Science, Computer Application, Environment, and Pollution. It also tests the technical abilities of the candidates in various branches of engineering, as per their educational qualifications.	The syllabus of SSC JE focuses majorly on general subjects like GK, Reasoning, and engineering subjects, i.e. Civil, Electrical, and Mechanical. There is no focus on other aspects.
It is conducted for various engineering disciplines.	It is conducted for only 3 engineering disciplines.
RRB JE exam consists of only objective types of questions which are tested in two stages of the CBT exam.	The SSC JE exam has two stages out of which the paper for stage 2 is descriptive in nature.

RRB JE Syllabus Preparation Tips

To perform well in the exam, preparing RRB JE syllabus in an organised manner is the key. Candidates should refer to **RRB JE preparation tips** to improve their chances of clearing the exam. Below, we have provided RRB Junior Engineer syllabus preparation strategy that will help you in scoring well.

- Candidates should have an in-depth understanding of the RRB JE syllabus and exam pattern. Knowing the important topics and their weightage will allow for the efficient allocation of time and resources.
- As the competition for this exam tends to be high, candidates should create a schedule for their preparation and devote a few hours every day to cover the full RRB JE syllabus. To achieve





maximum results in the minimum time, follow a timetable.

- Candidates should practice **RRB JE mock tests** to check the level of their preparation and understanding of concepts. Practising these tests that happen in a stimulating environment will test your knowledge and will also help you become comfortable in the exam hall on the actual exam day.
- Practice for the exam by writing down important information to memorise it easily. Especially, for subjects like Mathematics and Reasoning where numerical will come, practising by writing is essential to cover RRB JE syllabus properly.
- Candidates should refer to the **RRB JE books** to have everything they need to know in one place. These books contain good explanations of all the important topics as well as practice questions for overall good preparation.
- It is of utmost importance that candidates revise what they have studied. For that, they should attempt **RRB JE previous year question papers** to evaluate the level of their preparation and plan their future preparation strategy accordingly.







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