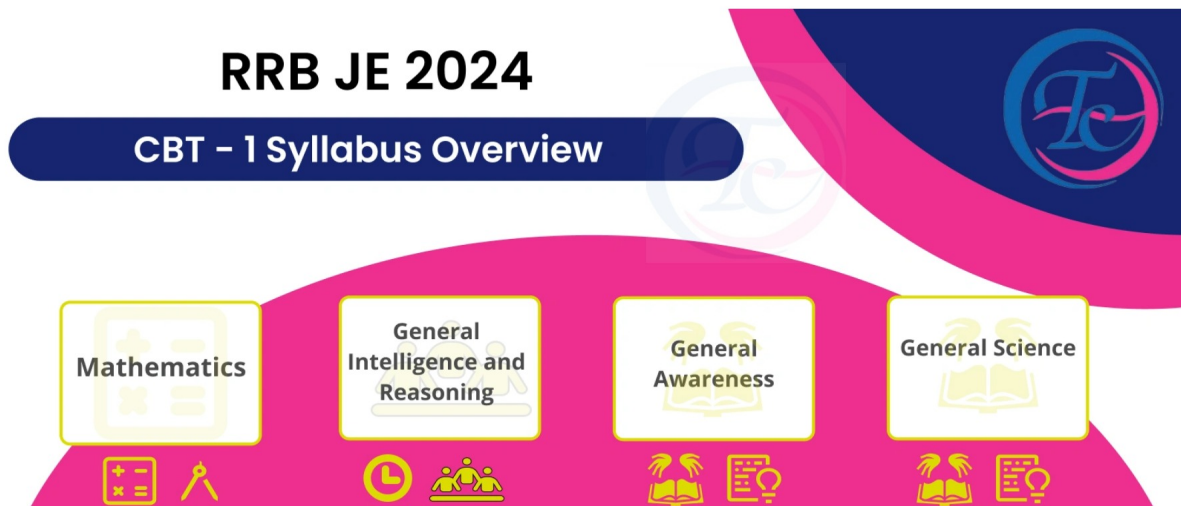


RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

The Railway Recruitment Board (RRB) Junior Engineer (JE) Exam is a highly anticipated recruitment opportunity for many aspiring engineers across India. With the RRB JE 2024 recruitment notification expected to be released soon, it is crucial for candidates to start their preparation early. Understanding the detailed syllabus and exam pattern is essential for effective preparation and successful performance in the exam. This blog aims to provide comprehensive information on the RRB JE Syllabus 2024, covering all the important aspects candidates need to know to excel in the examination.

RRB JE Syllabus 2024 Overview

Before delving into the specifics of the RRB JE Syllabus 2024, let's first outline the subjects you need to focus on. The following image will give you a clear overview of the subjects you should prepare for to successfully clear the RRB JE Examination 2024.



[Source: Futurekul]

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

RRB JE 2024

CBT – 2 Syllabus Overview



[Source: Futurekul]

Now that you are informed about the subjects you need to prepare for, let us delve deeper into the RRB JE Syllabus 2024.

Download RRB JE Syllabus 2024 PDF

To aid candidates in their preparation, we have compiled the complete RRB JE Syllabus 2024 for both CBT 1 and CBT 2. This syllabus is available for download in PDF format, allowing candidates to access it easily and refer to it during their study sessions. Having a soft copy of the syllabus ensures that candidates can organize their study material, make notes, and track their progress effectively. It is recommended to download the PDF and keep it handy for a systematic and comprehensive preparation approach.

RRB JE Syllabus 2024 - CBT 1

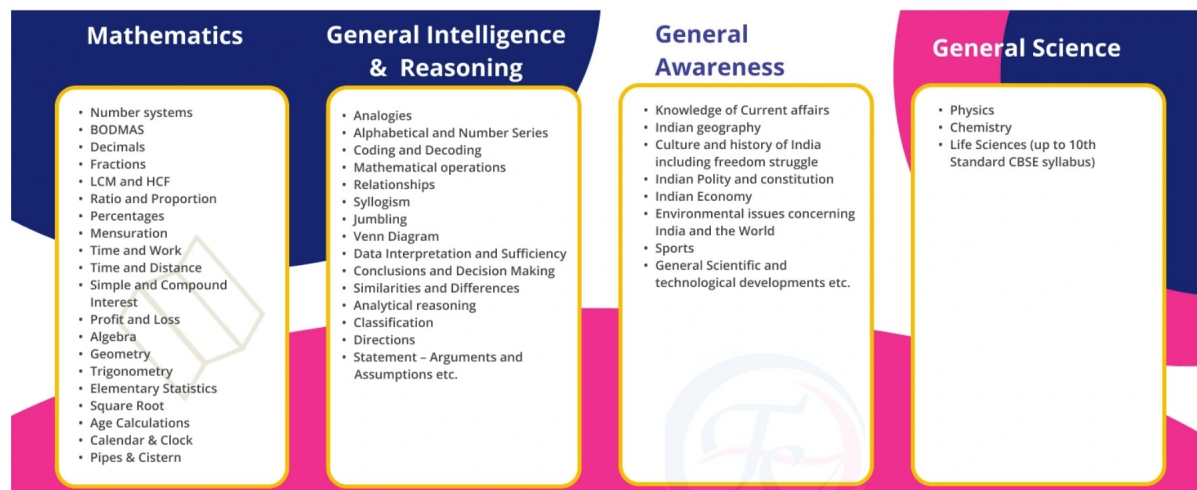
The RRB JE Syllabus 2024 for CBT 1 encompasses several critical subjects that candidates need to master. These subjects are:

Subjects	No. of Questions	Marks for each Section
	CBT-I	CBT-I
Mathematics	30	30
General Intelligence & Reasoning	25	25
General Awareness	15	15
General Science	30	30
Total	100	100
Time in Minutes	90	

[Source: rrbkolkata.gov.in]

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Each of these subjects plays a crucial role in assessing the overall knowledge and aptitude of the candidates. Before we delve into a detailed topic-wise discussion, it's important to provide you with a comprehensive list of all the topics within these subjects for your reference. This list will serve as a guide to help you understand the scope of the syllabus and ensure you cover all necessary areas during your preparation.



[Source: Futurekul]

Mathematics

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Topic	Description
Number system - BODMAS	Basic operations and order of operations
Decimals & Fractions	Decimal numbers and fractions conversion
LCM and HCF	Least common multiple and highest common factor
Ratio and Proportion	Comparative values and proportions
Percentages	Calculation of percentages
Mensuration	Measurement of geometric shapes
Time and Work	Problems on time and work efficiency
Time and Distance	Problems on speed, distance, and time
Simple and Compound Interest	Interest calculations on principal amount
Profit and Loss	Calculation of profit and loss scenarios
Algebra	Basic algebraic expressions and equations
Geometry and Trigonometry	Geometric shapes and trigonometric functions
Elementary Statistics	Basic statistical measures and data interpretation
Age Calculations	Problems related to age
Calendar & Clock	Problems on calendar dates and clock times
Pipes & Cistern	Problems on filling and emptying tanks

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

General Intelligence



RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Topic	Description
Analogies	Finding relationships between pairs
Alphabetical and Number Series	Sequences of letters and numbers
Coding and Decoding	Conversion of codes and deciphering
Mathematical operations	Basic mathematical problem-solving
Relationships	Family and logical relationships
Syllogism	Logical reasoning through premises
Jumbling	Rearranging letters or words
Venn Diagram	Logical relations using Venn diagrams
Data Interpretation and Sufficiency	Analyzing and interpreting data
Conclusions and Decision Making	Drawing conclusions from given data
Similarities and Differences	Identifying similarities and differences
Analytical reasoning	Critical thinking and problem-solving
Classification	Grouping items based on common properties
Directions	Problems on directions and distances
Statement – Arguments and Assumptions	Evaluating arguments and assumptions

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

General Awareness

Topic	Description
Current affairs	Recent news and events globally
Indian geography	Physical and political geography of India
Culture and history of India including freedom struggle	Important events and cultural aspects of India
Indian Polity and constitution	Structure and functions of Indian government
Indian Economy	Economic policies and developments
Environmental issues concerning India and the World	Environmental challenges and policies
Sports	Recent developments in sports
General technological developments	Innovations and technological advances
General Scientific developments	Recent scientific discoveries and developments

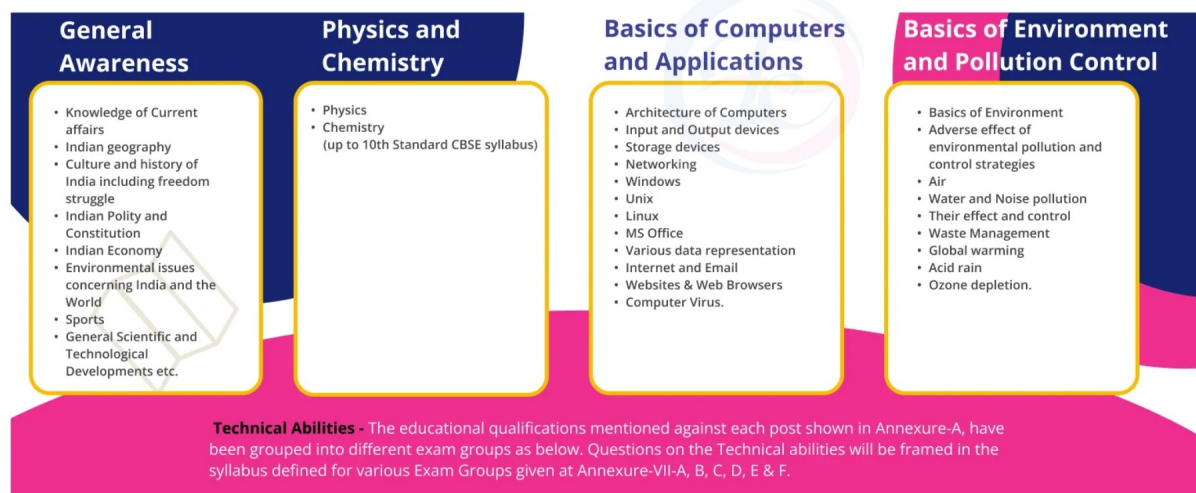
General Science

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Topic	Description
Physics	Basic principles and concepts of physics
Chemistry	Fundamental concepts of chemistry
Life Sciences	Biological concepts and life sciences

RRB JE Syllabus 2024 - CBT 2

Take a look at the image below to get an overview of the RPSC Grade 2 Syllabus 2023 for Paper 2.



[Source: Futurekul]

Having gained an overview of the RRB JE Syllabus 2024 for CBT 2, let's now embark on an in-depth exploration. Additionally, we have provided direct links to the respective subjects below, enabling you to access the official syllabus released by the Railway Recruitment Board.

Furthermore, CBT 2 covers a wide range of topics essential for your preparation:

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Subjects	No. of Questions	Marks for each Section
	CBT-II	CBT-II
General Awareness	15	15
Physics & Chemistry	15	15
Basics of Computers and Applications	10	10
Basics of Environment and Pollution Control	10	10
Technical Abilities	100	100
Total	150	150
Time in Minutes	120	

[Source: rrbkolkata.gov.in]

General Awareness

Topic	Description
Current affairs	Recent events and developments globally
Indian geography	Physical and political geography of India
Culture and history of India	Significant historical events and cultural aspects
Indian Polity and constitution	Structure and functions of Indian government
Indian Economy	Economic policies and recent developments
Environmental issues	Environmental challenges and conservation efforts
Sports	Recent achievements and developments in sports
Technological developments	Innovations and advancements in technology
Scientific developments	Recent discoveries and advancements in science

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Physics & Chemistry

Topic	Description
Physics	Fundamental principles and concepts
Chemistry	Basic chemical principles and concepts

Basics of Computers & Applications

Topic	Description
Computers and their architecture	Components and functioning of computer systems
Input & Output devices	Devices used to interact with computer systems
MS Office	Microsoft Office applications and their features
Storage devices	Different types of storage devices and their uses
Operating Systems	Basic functions and types of operating systems
Internet and Email	Internet basics and electronic mail
Websites & Web Browsers	Navigation and functionality of web browsers
Networking	Types of networks and network protocols
Computer Virus	Types of viruses and methods of protection

Basics of Environment

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

Topic	Description
Basics of Environment	Fundamentals of environmental science
Environmental pollution	Types of pollution and their effects
Pollution control strategies	Measures to control and mitigate pollution
Global warming	Causes, effects, and measures to address global warming
Acid rain	Causes, effects, and preventive measures
Ozone depletion	Causes, effects, and efforts for protection

Technical Abilities

Topic	Description
Subject-specific technical knowledge	Relevant technical concepts and applications

Now that you have been provided with a detailed list of topics that you need to prepare for, how about we provide you with an overview of the exam pattern also?

RRB JE Exam Pattern 2024

The importance of an exam pattern cannot be over-explained. Thus, we are going to provide you with a clear and descriptive exam pattern in this very segment of the blog with the help of an infographic.

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

RRB JE 2024 EXAM PATTERN

	Subjects	Number of Questions	Time Duration
1 CBT 1	<div> <div>Mathematics</div> <div>General Intelligence and Reasoning</div> <div>+</div> <div>General Awareness</div> <div>General Science</div> </div>	100	90 Mins.
2 CBT 2	<ul style="list-style-type: none"> General Awareness Physics and Chemistry Basics of Computers and Applications Basics of Environment and Pollution Control Technical Abilities 	150	120 Mins.
3 DV	-	-	-

[Source: Futurekul]

CBT 1 Exam Pattern

The first stage of the RRB JE exam is CBT 1, and is conducted for 100 marks within a time frame of 90 minutes. Candidates must score a minimum of 40% to qualify, in addition to the cut-off marks. The exam includes:

- Mathematics: 30 marks
- General Intelligence & Reasoning: 25 marks
- General Awareness: 15 marks
- General Science: 30 marks

Each question carries 1 mark, with a negative marking of 1/3rd mark for every wrong answer. The score in this exam is not considered for the final merit list but is crucial for progressing to the next stage.

CBT 2 Exam Pattern

CBT 2 is more significant, as the marks obtained are considered in the final merit list. The exam is conducted for 150 marks, with a duration of 120 minutes. The sections include:

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

- General Awareness: 15 marks
- Physics & Chemistry: 15 marks
- Basics of Computers and Applications: 10 marks
- Basics of Environment and Pollution Control: 10 marks
- Technical Abilities: 100 marks

Each question carries 1 mark, with a negative marking of 1/3rd mark for every wrong answer. Candidates must score a minimum of 40% to qualify, along with meeting the cut-off marks.

RRB JE Marking Scheme 2024

The RRB JE exam follows a specific marking scheme to ensure fairness and accuracy in the assessment process. For CBT 1, there are 100 questions, each carrying 1 mark, with a negative marking of 1/3rd mark for every incorrect answer. The minimum qualifying marks are set at 40%. For CBT 2, there are 150 questions, each also carrying 1 mark, with the same negative marking rule. The minimum qualifying marks for CBT 2 are also 40%. Understanding the marking scheme helps candidates strategize their exam approach, focusing on accuracy to avoid losing marks due to incorrect answers.

RRB JE 2024 Exam Dates

While the official notification for RRB JE 2024 has not been released yet, it is expected to be announced soon. Staying updated with the latest information is crucial for timely preparation. Candidates should regularly check the official RRB website and reliable sources for updates on exam dates and other important details. Keeping track of the exam dates allows candidates to plan their study schedule effectively and ensures they are well-prepared when the exam day arrives.

RRB JE Syllabus 2024 - Detailed Topic Wise Analysis

RRB JE 2024

Application & Exam Timeline



[Source: Futurekul]

In conclusion, the RRB JE 2024 exam presents a significant opportunity for engineering graduates and diploma holders aspiring to work in the Indian Railways. Thorough preparation, understanding the RRB JE syllabus 2024 , and following a structured study plan are key to success. With the right approach and dedication, candidates can excel in the RRB JE exam and secure a promising career in the railways. If you want to access our blog on

[RRB JE Notification](#)

[RRB RPF Notification](#)

, and more, click on the embedded links. Stay focused, practice regularly, and make the most of the resources available to you by

[Futurekul](#)

. Good luck with your preparations and upcoming exams!