

# OSSC JE

## Syllabus



**OSSC JE Syllabus 2023** is prescribed by the Odisha Staff Selection Commission. It is an essential part of exam preparation. Candidates planning to participate in this exam should go through subject-wise OSSC JE syllabus. This will help candidates have an understanding of important topics so they can prepare optimally.

The OSSC JE syllabus consists of two papers: Prelims and Mains. The first paper is objective in nature with a focus on General subjects, whereas the Mains exam is written and will focus on subject-specific knowledge. In order for candidates to understand the syllabus and achieve the highest possible marks, we have also included OSSC JE Syllabus PDF for both papers here.



**AIR 1**

in ONGC JE, Tripura

**3 AIR Ranks**

in Top-10, SSC JE 2022

**147+**

Final Selection in SSC JE 2022



Mayank Pandey

**AIR-3 | SSC JE (CE)**



Rana Abhishek

**AIR-8 | SSC JE (CE)**



Alok Kumar

**AIR- 9 | SSC JE (EE)**



Debasish Das

**Rank-1 | ONGC JE (EE)**



Girraj Mohta

**AIR-19 | Civil**



Kotala Praveen Kumar

**RANK 28 | Electrical**



Prabhakar Chaudhary

**RANK 40 | Electrical**



Gaurav Kumar

**RANK 54 | Electrical**



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## OSSC JE Syllabus 2023

**OSSC JE Syllabus 2023** is released along with the official notification for the posts of Junior Engineer and Assistant Training Officer. To prepare optimally for **OSSC JE** exam, candidates should analyse the syllabus well. OSSC JE syllabus for Prelims consists of Arithmetics, Data Interpretation, Logical Reasoning and Analytical Ability, General Mental Ability, Current Affairs and Computer. The syllabus for the Mains exam is subject-specific and will cover important concepts of the engineering discipline chosen by the candidate.

Candidates must thoroughly study the key topics in the OSSC JE syllabus in order to perform well because the OSSC JE Prelims syllabus is objective in nature while the OSSC JE Mains syllabus is written. Degree-level questions are included in the OSSC JE syllabus. The preparation will be comparatively simple if you are aware of key topics. Download the OSSC JE syllabus PDF from the link below to expand your exam preparation knowledge.

## OSSC JE Syllabus 2023 PDF

To understand the syllabus better, we have provided the direct link to download OSSC JE syllabus PDF below. This will help candidates in knowing all important topics and prepare in an optimal way.





This **OSSC JE syllabus 2023 PDF** consists of the important topics and sub-topics to help candidates scope out their preparation efficiently.

## **OSSC JE Syllabus for Prelims**

OSSC JE syllabus for Prelims must be carefully studied by the aspirants. Prelims is the first stage in the selection process and must be qualified to move to the next stage. The important topics of OSSC JE prelims syllabus include Arithmetics, Data Interpretation, Current Affairs, Computer Awareness, Logical Reasoning, Analytical Ability and General Mental Ability. All these subjects will be based on degree level. Candidates can check out the subject-wise OSSC JE Prelims syllabus tabulated below.





OSSC Syllabus	JE Prelims	Subjects
Arithmetic		<ul style="list-style-type: none"> <li>• Simplification</li> <li>• Number System</li> <li>• Decimal &amp; Fraction</li> <li>• LCM &amp; HCF</li> <li>• Ratio and Proportion</li> <li>• Average</li> <li>• Percentage</li> <li>• Profit and Loss</li> <li>• Simple Interest and Compound Interest</li> <li>• Time and Work</li> <li>• Time and Distance</li> <li>• Mixture and Alligation</li> </ul>
Data Interpretation		<ul style="list-style-type: none"> <li>• Bar Graph</li> <li>• Line Chart</li> <li>• Tabular Data</li> <li>• Caselets Table</li> <li>• Radar/Web</li> <li>• Pie Chart</li> <li>• Missing Data Interpretation</li> </ul>
Logical Analytical and General Mental Ability	Reasoning, Ability and	<ul style="list-style-type: none"> <li>• Analogies</li> <li>• Classification</li> <li>• Number &amp; Alphabetical Series</li> <li>• Blood Relation</li> <li>• Direction Sense</li> <li>• Seating Arrangement</li> <li>• Syllogism</li> <li>• Venn Diagram</li> <li>• Sentence and Arguments</li> <li>• Decision Making</li> <li>• Figure Counting</li> <li>• Non-Verbal Reasoning</li> </ul>





Current Events	<ul style="list-style-type: none"><li>• National and International Issues</li><li>• Ranking and Index</li><li>• Reports and Surveys</li><li>• Sports</li><li>• Political Events</li><li>• Science and Technology</li><li>• Books and Authors</li><li>• Awards and Honors</li><li>• Prominent Personalities</li></ul>
Computer/Internet Awareness	<ul style="list-style-type: none"><li>• Introduction to Computer</li><li>• Input and Output Devices</li><li>• Computer Concepts</li><li>• Internet</li><li>• MS Word</li><li>• MS Excel</li><li>• MS PowerPoint</li><li>• Computer Programming</li><li>• Computer Hardware and Software</li></ul>





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# OSSC JE Syllabus for Mains: OSSC JE Civil Syllabus

OSSC JE syllabus for Mains is quite vast and must be prepared using sufficient time. The Mains exam will be held for the civil engineering discipline and the subjects will be based on the degree level. OSSC Civil JE syllabus will consist of various subjects that are further divided into many sub-topics. Candidates can find out the OSSC JE Mains Syllabus provided in the

OSSC JE Civil Syllabus for Mains Exam	
<p><b>OSSC Civil JE Syllabus: Materials</b></p>	<ul style="list-style-type: none"> <li>• Stone, Bricks</li> <li>• Clay Products And Refractory Materials</li> <li>• Cement</li> <li>• Sand</li> <li>• Gravel</li> <li>• Morrum And Fly Ash</li> <li>• Mortar And Concrete</li> <li>• Timber</li> <li>• Paint</li> <li>• Varnish And Distemper</li> <li>• Iron And Steel</li> <li>• Bituminous Materials</li> <li>• Plastics</li> <li>• Heat Proofing And Acoustic Materials</li> </ul>
<p><b>OSSC JE Construction Technology Syllabus</b></p>	<ul style="list-style-type: none"> <li>• Introduction To Construction Technology</li> <li>• Site Investigation</li> <li>• Foundations</li> <li>• Walls</li> <li>• Damp Proofing</li> <li>• Arches And Lintels</li> <li>• Doors And Windows</li> <li>• Floors</li> </ul>





	<ul style="list-style-type: none"> <li>• Roofs</li> <li>• Stairs</li> <li>• Surface Finishes</li> <li>• General Idea Of Seismic Planning</li> <li>• Design Of Building</li> <li>• Construction Machinerics</li> </ul>
<p><b>OSSC JE Syllabus for Structural Analysis</b></p>	<ul style="list-style-type: none"> <li>• Trusses And Frames</li> <li>• Slope And Deflection</li> <li>• Fixed Beam</li> <li>• Continuous Beam</li> <li>• Slope Deflection Method</li> <li>• Moment Distribution Method</li> <li>• Three Hinged Arches.</li> </ul>
<p><b>OSSC JE Syllabus for Irrigation Engineering</b></p>	<ul style="list-style-type: none"> <li>• Introduction To Irrigation Engineering</li> <li>• Hydrology</li> <li>• Water Requirement Of Crops</li> <li>• Flow Irrigation</li> <li>• Diversion Head Works</li> <li>• Regulatory Works</li> <li>• Cross Drainage Works</li> <li>• Dams</li> <li>• Water Logging And Drainage</li> <li>• Ground Water Hydrology.</li> </ul>
<p><b>OSSC JE Syllabus for Structural Design</b></p>	<ul style="list-style-type: none"> <li>• Introduction To Design And Detailing</li> <li>• Working Stress Method Of Design</li> <li>• Limit State Method (Lsm) Of Design</li> <li>• Limit State Of Collapse Of Singly Reinforced Members In Bending</li> <li>• Limit State Of Collapse In Shear</li> <li>• Bond Anchorage</li> <li>• Development Lengths And Slicing (Lsm)</li> <li>• Beams (Lsm) Two Way Slabs (Lsm)</li> <li>• Axially Loaded Short Columns (Lsm)</li> <li>• Ductile Detailing Of Reinforced Concrete Structures</li> <li>• Design Of Steel</li> <li>• Design Of Timber Structures</li> <li>• Structural Steel Fasteners And Connections</li> </ul>





	<ul style="list-style-type: none"> <li>• Design Of Tension Members</li> <li>• Design Of Compression Members</li> <li>• Design Of Column Bases And Foundations</li> <li>• Design Of Steel Beams</li> <li>• Design Of Timber Structures</li> <li>• Stair Case (Rcc-lsm)</li> <li>• Design Of Footings (Rcc-lsm)</li> </ul>
<p><b>OSSC JE Syllabus for Construction Management</b></p>	<ul style="list-style-type: none"> <li>• Introduction To Construction Management</li> <li>• Construction Planning</li> <li>• Materials Management</li> <li>• Site Management</li> <li>• Construction Organization</li> <li>• Labor Management</li> <li>• Equipment Management</li> <li>• Quality Control</li> <li>• Monitoring Progress in Construction Works</li> <li>• Safety Management in Construction Works</li> </ul>
<p><b>OSSC JE Syllabus for Advanced Construction Technology</b></p>	<ul style="list-style-type: none"> <li>• Concrete Mixed Design</li> <li>• Handling And Transporting Of Concrete</li> <li>• Earthquake Resistant Construction</li> <li>• Building Services</li> <li>• Construction And Earth Moving Equipment.</li> </ul>
<p><b>OSSC JE Engineering Syllabus for Transporation</b></p>	<ul style="list-style-type: none"> <li>• Introduction To Transportation Engineering</li> <li>• Road Geometric and Materials</li> <li>• Road Pavements and Hill Roads</li> <li>• Road Drainage and Maintenance</li> <li>• Construction Equipment</li> <li>• Traffic Studies</li> <li>• Landscaping And Arboriculture</li> <li>• Railways Transportation</li> <li>• Permanent Way</li> <li>• Track Materials and geometric For Broad Gauge</li> <li>• Points And Crossings</li> <li>• Laying And Maintenance Of Track</li> <li>• Introduction To Bridges and Site Investigation</li> <li>• Hydrology And Planning</li> <li>• Bridge Foundation and Permanent Bridges</li> <li>• Culvert And Causeway</li> </ul>





- Introduction To Docks And Harbors
- Break Waters Docks
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## Tips to Prepare OSSC JE Syllabus

Preparing **OSSC JE syllabus** properly is the most important task for the candidates. We have provided some preparation tips below that will enable candidates to prepare syllabus for OSSC JE easily.

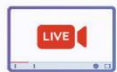
- As OSSC JE syllabus for civil engineering is quite vast, candidates should study these subjects in-depth from the beginning and divide their time among different topics properly.
- Studying a lot at a time may result in forgetfulness, especially when the syllabus is huge. Hence, candidates should prepare one topic at a time and do it well
- Make a timetable to divide time and topics according to your strengths and weaknesses. This will help you stay organised and productive while completing OSSC JE syllabus.
- Make short notes to remember important formulas and points and write down things to retain things efficiently.
- Practice Previous Year Questions to understand the exam pattern and type of questions asked in the exam. It will help you understand the OSSC JE syllabus in even greater detail.







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