

Odisha DET Lateral Entry Syllabus for B.Tech (2nd Year Admission)

Odisha DET (Diploma Entrance Test) Lateral Entry is conducted for **diploma holders** seeking **direct admission to the second year of B.Tech courses** in technical colleges across Odisha.

Section-Wise Syllabus for Odisha DET Lateral Entry

The Odisha DET Lateral Entry exam consists of **two main sections**:






1 **Basic Mathematics & Science** (Common for All Diploma Holders) – 40 Marks

2 **Engineering Subjects** (Based on Diploma Specialization) – 60 Marks



Section 1: Basic Mathematics & Science (40 Marks, Common for All Branches)

This section tests fundamental concepts in **Mathematics, Physics, and Chemistry** that are essential for engineering.

Mathematics (20 Marks)

-  Algebra – Matrices, Determinants, Quadratic Equations
-  Calculus – Differentiation, Integration, Limits & Continuity
-  Trigonometry – Identities, Heights & Distances
-  Coordinate Geometry – Straight Lines, Circles
-  Probability & Statistics – Mean, Median, Standard Deviation




Science (20 Marks)

-  **Physics** – Laws of Motion, Gravitation, Energy, Work & Power, Optics, Electricity
 -  **Chemistry** – Atomic Structure, Chemical Bonding, Periodic Table, Electrochemistry
-

Section 2: Engineering Paper (60 Marks, Based on Diploma Branch)

This section is **branch-specific** and covers the **core subjects** of the candidate's diploma specialization.

Civil Engineering

-  Strength of Materials
-  Structural Engineering
-  Hydraulics & Fluid Mechanics

- ✔ Surveying
- ✔ Transportation Engineering

Mechanical Engineering

- ✔ Thermodynamics
- ✔ Manufacturing Processes
- ✔ Engineering Mechanics
- ✔ Machine Design
- ✔ Fluid Mechanics

Electrical & Electronics Engineering

- ✔ Circuit Theory
- ✔ Electrical Machines
- ✔ Power Systems
- ✔ Microprocessors & Digital Electronics
- ✔ Control Systems

Computer Science & IT

- ✔ Data Structures & Algorithms
- ✔ Operating Systems
- ✔ Database Management Systems
- ✔ Computer Networks
- ✔ Programming Languages (C, C++, Java)

Architecture Engineering


- ✔ Building Materials & Construction
- ✔ Structural Engineering
- ✔ Environmental Engineering
- ✔ Urban & Town Planning

Odisha DET Lateral Entry Exam Pattern


Paper	Subject	Marks
Paper 1	Basic Mathematics & Science	40 Marks
Paper 2	Engineering (Based on Diploma Branch)	60 Marks


Paper	Subject	Marks
Total	100 Questions	100 Marks

 **Exam Duration:** 2 Hours


 **Marking Scheme:** +1 for Correct Answer, No Negative Marking

Preparation Tips for Odisha DET Lateral Entry

 **Master Basic Science & Mathematics:** Focus on **mathematics and physics** as they form the foundation of engineering.

 **Revise Diploma Subjects:** Go through core **engineering subjects** from your diploma branch.

 **Solve Previous Year Papers:** Practicing **past DET question papers** will help understand **question patterns** and improve accuracy.

 **Mock Tests & Time Management:** Attempt **mock tests** to enhance speed and confidence.