गति शक्ति विश्वविद्यालय
GATI SHAKTI VISHWAVIDYALAYA

A Central University under Ministry of Railways, Government of India

Electronics and Communication Engineering, is a field that encompasses the design, development, and implementation of electronic systems and communication technologies. In the context of railways, ECE plays a vital role in various aspects. It is involved in the design and maintenance of railway signaling systems, communication networks, train control systems, ticketing and fare collection systems, and surveillance and security systems. ECE professionals ensure the smooth operation, safety, and efficiency of railway and metro systems by integrating advanced electronics and communication technologies.

Batch Profile

59 Batch Size	21 Avg Age
54	5

For Detailed Information
(*Placement Brochure* 2024-25)

BE THE TRANSFORMATION
IN INDIA'S TRANSPORT AND LOGISTICS ECOSYSTEM

B.Tech in Electronics & Communication Engineering (Specialization : Rail Engineering)

रेल मंत्रालय
MINISTRY OF RAILWAYS

59 Students currently enrolled representing 18 different states in India

CORE Courses:

1. Analog Electronics
2. Digital Electronics
3. Signals and Systems
4. Microprocessors & Embedded Systems
5. VLSI
6. Information and Communication Technology
7. Fiber-optic Communication
8. Control System
9. Digital Signal Processing
10. Electromagnetic Field Theory
11. Information, Coding & Cryptography
12. Antenna Design
13. Power Electronics
14. Electronic System Design

Railway Courses:

1. Introduction to Railway Engineering Systems
2. Fundamentals of Railway Signalling Systems
3. Advanced Railway Signalling Systems
4. Fundamentals of Railway Control Engineering
5. Urban Rail Transportation (Maglev & Hyperloop)
6. RAMS
7. Railway Safety and Systems Engineering

LABS

1. Analog Electronics Lab
2. Digital Electronics Lab
3. Signal and Systems Lab
4. Digital Signal Processing Lab
5. Embedded & VLSI Lab
6. Railway Signalling Lab
7. Power Electronics Lab

Programming & Software:

1. Engineering Visualization Using AutoCAD
2. Programming Using Python & MATLAB
3. LT Spice
4. Data Structures & Algorithms using C/C++
5. Big Data Analytics
6. Verilog HDL
7. Embedded C
8. AI & ML

Major Recruiters and Internships

Representative list only

Vandhana International Pvt. Ltd. · SIEMENS · DB · L&T Technology Services · NHSRCL · लखनऊ मेट्रो · AAI · महा मेट्रो Pune Metro · MMRC · TATA · रेलटेल RAILTEL · RITES · ncrtc · इसरो ISRO · DFC · SYSTRA · eInfochips · NK · Plasser India · ALSTOM · e2e RAIL · DRDO · CRIS

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Civil Engineering involves the creation and advancement of infrastructure, inspiring ingenuity and originality to meet the ever-evolving demands of the society. The results of such efforts are remarkable structures such as highways, modern railway/cargo stations, ports, smart cities, bridges, tunnels, sea links, monuments, stadiums, statues etc.

Batch Profile

41	21
Batch Size	Avg Age
32	9

For Detailed Information
(*Placement Brochure* 2024-25)

BE THE TRANSFORMATION
IN INDIA'S TRANSPORT AND LOGISTICS ECOSYSTEM

B.Tech in Civil Engineering (Specialization : Rail Engineering)

रेल मंत्रालय
MINISTRY OF RAILWAYS

41 Students currently enrolled representing 22 different states in India

CORE Courses:

1)Strength of Materials
2)Building Materials & Concrete Technology
3)Geology And Geotechnical Engineering
4)Survey Engineering
5)Fluid Mechanics And Hydraulics
6)Structural Analysis
7)Design of RCC Structures
8)Water Resources & Irrigation Engineering
9)Foundation Engineering
10)Design Of Steel Structures
11)Highway And Airport Engineering
12)Prestressed Concrete

LABS

1)Strength Of Materials
2)Building Materials & Concrete Technology
3)Fluid Mechanics And Hydraulics
4)Survey Engineering
5)Geology And Geotechnical Engineering
6)Traffic And Highway Engineering

Railway Courses:

1)Introduction To Railway Engineering Systems
2)High Speed Rail Infrastructure Systems
3)Railway Track Technology
4)Railway Station And Cargo Terminal Design
5)Railway Bridge Engineering
6)Urban Rail Transport System,Manglev And Hyperloop
7)Railway Track Technology II

Programming & Software:

1)Engineering Visualization Using AutoCAD
2)Steel & RCC Design Using STAAD.Pro
3)Structural Analysis Using STAAD.Pro
4)Building Information Modeling Using REVIT
5)Bridge Engineering Using MIDAS
6)GIS and Remote Sensing Using ArcGIS
7)Programming Using PYTHON & MATLAB

Major Recruiters and Internships

Representative list only

Larsen & Toubro · SIEMENS · DB · PATNA METRO · NHSRCL · लखनऊ मेट्रो · महा मेट्रो PUNE METRO · MMRC · रेल विकास निगम लिमिटेड Rail Vikas Nigam Limited · ASCELA · ARUP · TATA CONSULTING ENGINEERS LIMITED · RITES · ncrtc · GarudaUAV · Dedicated Freight Corridor · UltraTech CEMENT · NK · Shree Cement · patel · LEA Associates South Asia Pvt. Ltd · SANIVERSE

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Mechanical Engineering, is a field that encompasses the design, development, and implementation of mechanical systems. The program focuses on core manufacturing processes, materials, machine tools, tribology, thermal, refrigeration and air conditioning , rolling stock, rail-wheel interactions, high-speed rail systems and related railway operations.

Batch Profile

39	21
Batch Size	Avg Age
34	5

For Detailed Information
(*Placement Brochure* 2024-25)

BE THE TRANSFORMATION
IN INDIA'S TRANSPORT AND LOGISTICS ECOSYSTEM

B.Tech in Mechanical Engineering (Specialization : Rail Engineering)

रेल मंत्रालय
MINISTRY OF RAILWAYS

39 Students currently enrolled representing 20 different states in India

CORE Courses:

1. Strength of Material
2. Engineering Thermodynamics
3. Theory of Machine
4. Manufacturing Processes
5. Heat Transfer Processes
6. Fluid Mechanics and Hydraulics
7. Machine Design
8. Material Science & Metallurgy
9. Operation Research
10. Vibration & Acoustics

Programming & Software:

1. SOLIDWORKS with Lab
2. Finite Element Analysis using ANSYS
3. Artificial Intelligence & Machine Learning
4. Engineering Visualization using AutoCAD
5. Programming using MATLAB & PYTHON

Railway Courses:

1. Introduction to Railway Engineering Systems
2. Understanding Railway Model Room
3. High Speed Rail Vehicle Dynamics
4. Electric Traction & Power Supply with Lab
5. Electric Traction & Rolling Stock
6. Urban Rail Transport System, Maglev & Hyperloop

LABS

1. Strength of Material
2. Manufacturing Processes
3. Fluid Mechanics & Hydraulics
4. Heat Transfer
5. Theory of Machine
6. Material Science & Metallurgy

Major Recruiters and Internships

Representative list only

Indian Railways · DB · SIEMENS · लखनऊ मेट्रो · NHSRCL · Larsen & Toubro · Ashok Leyland · ALSTOM · mobility by nature · MMRC · Schneider Electric · Eicher Tractors · UltraTech Cement · BOSCH · Delhi Metro Rail Corporation Limited · Mahindra · Airports Authority of India · ARUP · DRDO · NPCIL · SAIL

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