

Electrical Engineering

Overview of the department and the curriculum

Orientation Program

Auditorium, A. S. College, Srinagar
October 29, 2016



ISLAMIC UNIVERSITY OF
SCIENCE AND TECHNOLOGY

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- Mission
- Highlights
- Faculty
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- Collaboration and
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- Future plans

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- What is expected of
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- What should you expect
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Introduction

- ▶ Electrical engineering and technology affects almost all facets of our lives these days.

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- ▶ **Research, development** and **innovation** is strongly driven by electrical engineers and scientists in areas like

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 - ▶ Power & Energy systems

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 - ▶ Control Systems

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 - ▶ Control Systems
 - ▶ Communication Technologies

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 - ▶ Control Systems
 - ▶ Communication Technologies
 - ▶ Computational Science

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Mission

- ▶ Produce trained, competent and **conscientious** manpower to serve the needs of the State and Nation in Electrical Technology.

Mission

- ▶ Produce trained, competent and **conscientious** manpower to serve the needs of the State and Nation in Electrical Technology.
- ▶ To serve as the hub imparting quality education, training and furthering research in electrical sciences and technology for the service of the nation and humanity at large.

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- ▶ Established in 2012.

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- ▶ Established in 2012.
- ▶ Course offered: B.Tech (Electrical Engineering).

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Highlights

- ▶ Established in 2012.
- ▶ Course offered: B.Tech (Electrical Engineering).
- ▶ First Batch graduated in 2016.

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- ▶ Current intake capacity 90 (divided into two sections).

Highlights

- ▶ Established in 2012.
- ▶ Course offered: B.Tech (Electrical Engineering).
- ▶ First Batch graduated in 2016.
- ▶ AICTE approved.
- ▶ Current intake capacity 90 (divided into two sections).
- ▶ Total number of students: 410

Substantive Faculty

| S. No. | Name of the faculty | Designation | Qualification |
|--------|----------------------|-----------------|---------------------------|
| 01. | Dr. S A Nahvi | Incharge Head | Ph. D (Control Systems) |
| 02. | Mr. Zahoor Ahmad | Asst. Professor | B. Tech (Pursuing M.Tech) |
| 03. | Mr. Rayes Ahmad Lone | Asst. Professor | M. Tech (Power Systems) |
| 04. | Ms. Sami Jan Lolu | Asst. Professor | M. Tech (Control Systems) |

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Faculty on Contract

| S. No. | Name of the faculty | Designation | Qualification |
|--------|----------------------|-----------------|---------------|
| 01. | Ms. Saliah Farooq | Asst. Professor | M. Tech |
| 02. | Mr. Kaiser Jan | Asst. Professor | B. Tech |
| 03. | Mr. Muneeb-ul-Bashir | Asst. Professor | B. Tech |
| 04. | Mr. Safiullah | Asst. Professor | B. Tech |

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Staff

| S. No. | Name | Designation |
|--------|--------------------------|------------------|
| 01 | Mr. Adil Andrabi | Lab Assistant |
| 02 | Mr. Mushtaq Ahmad Parray | Junior Assistant |
| 03 | Mr. Zahoor Ahmad Bhat | Attendant |
| 04 | Mr. Zahoor Sofi | Attendant |
| 05 | Mr. Manzoor Ahmad | Attendant |

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Infrastructure details

- ▶ Electrical Measurement and Instrumentation Lab.

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- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.

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- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.

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- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.
- ▶ Basic Electrical Engineering Lab.

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Infrastructure details

- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.
- ▶ Basic Electrical Engineering Lab.
- ▶ Power System Lab.

Infrastructure details

- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.
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- ▶ Power System Lab.
- ▶ Power Electronics and Drives Lab.

Infrastructure details

- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.
- ▶ Basic Electrical Engineering Lab.
- ▶ Power System Lab.
- ▶ Power Electronics and Drives Lab.
- ▶ Simulation Lab.

Infrastructure details

- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.
- ▶ Basic Electrical Engineering Lab.
- ▶ Power System Lab.
- ▶ Power Electronics and Drives Lab.
- ▶ Simulation Lab.
- ▶ Electrical Machines Lab.

Infrastructure details

- ▶ Electrical Measurement and Instrumentation Lab.
- ▶ Microprocessor Lab.
- ▶ Control System Lab.
- ▶ Basic Electrical Engineering Lab.
- ▶ Power System Lab.
- ▶ Power Electronics and Drives Lab.
- ▶ Simulation Lab.
- ▶ Electrical Machines Lab.

Departmental library and Adequate offices for staff members, internet connectivity through LAN and Wi-Fi.

Major Lab equipment

| S.no | Equipment | Quantity |
|------|-----------|----------|
| | | |

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Major Lab equipment

| S.no | Equipment | Quantity |
|------|---|----------|
| | Basic Electrical Engineering Lab | |
| 1 | Trainer Kits | 40 |
| 2 | Dual power supply | 06 |
| 3 | Single DC Power Supply | 16 |

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Major Lab equipment

| S.no | Equipment | Quantity |
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| | Basic Electrical Engineering Lab | |
| 1 | Trainer Kits | 40 |
| 2 | Dual power supply | 06 |
| 3 | Single DC Power Supply | 16 |
| | Control System Lab | |
| 1 | Digital Control system study | 02 |
| 2 | AC Servo Motor study | 01 |
| 3 | PID Control Study | 01 |
| 4 | Stepper Motor Study | 01 |
| 5 | Digital Storage Oscilloscope | 07 |

Major Lab equipment

| S.no | Equipment | Quantity |
|------|--|----------|
| | Basic Electrical Engineering Lab | |
| 1 | Trainer Kits | 40 |
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| | Control System Lab | |
| 1 | Digital Control system study | 02 |
| 2 | AC Servo Motor study | 01 |
| 3 | PID Control Study | 01 |
| 4 | Stepper Motor Study | 01 |
| 5 | Digital Storage Oscilloscope | 07 |
| | Electrical Machine lab | |
| 1 | Set-up for study of DC Machines | 6 |
| 2 | Set-up for study of Induction machines | 4 |
| 3 | Set-up for study Transformers | 4 |
| 4 | Set-up for study of Synchronous Machines | 3 |
| 5 | Coil winding Machine | 1 |
| 6 | Digital Tachometers | 4 |

Major Lab equipment

| S.no | Equipment | Quantity |
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| Basic Electrical Engineering Lab | | |
| 1 | Trainer Kits | 40 |
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| Control System Lab | | |
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| Electrical Machine lab | | |
| 1 | Set-up for study of DC Machines | 6 |
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| 3 | Set-up for study Transformers | 4 |
| 4 | Set-up for study of Synchronous Machines | 3 |
| 5 | Coil winding Machine | 1 |
| 6 | Digital Tachometers | 4 |
| Electrical Measurement and Instrumentation Lab | | |
| 1 | Loads (3-phase and single phase) | 5 |
| 2 | A.C Bridges | 15 |
| 3 | Digital Multimeters and clamp meters | 6 |

Major Lab equipment....

| S.no | Equipment | Quantity |
|------|-----------|----------|
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Major Lab equipment....

| S.no | Equipment | Quantity |
|------|---|----------|
| | Microprocessor Lab | |
| 1 | 8085 trainer kits with ASCII Keyboard and LCD display | 20 |

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Major Lab equipment....

| S.no | Equipment | Quantity |
|------|---|----------|
| | Microprocessor Lab | |
| 1 | 8085 trainer kits with ASCII Keyboard and LCD display | 20 |
| | Power Electronics and Drives Lab. | |
| 1 | Trainer Kits | 09 |
| 2 | Analog oscilloscopes | 4 |
| 3 | Powerscopes | 4 |
| 4 | Digital Storage Oscilloscopes | 2 |

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| 1 | Trainer Kits | 09 |
| 2 | Analog oscilloscopes | 4 |
| 3 | Powerscopes | 4 |
| 4 | Digital Storage Oscilloscopes | 2 |
| Power System Lab. | | |
| 1 | Transmission Line Model | 1 |
| 2 | Study of Ferranti Effect | 1 |
| 3 | Study of Three Phase Fault on Transmission Line | 1 |
| 4 | IDMT Over Current Relay | 1 |
| 5 | Testing of Buchloz Relay | 1 |
| 6 | Insulators | 25 |

Major Lab equipment....

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| Microprocessor Lab | | |
| 1 | 8085 trainer kits with ASCII Keyboard and LCD display | 20 |
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| 1 | Transmission Line Model | 1 |
| 2 | Study of Ferranti Effect | 1 |
| 3 | Study of Three Phase Fault on Transmission Line | 1 |
| 4 | IDMT Over Current Relay | 1 |
| 5 | Testing of Buchloz Relay | 1 |
| 6 | Insulators | 25 |
| Simulation Lab | | |
| 1 | Personal Computers | 30 |
| 2 | LCD Projector | 1 |
| 3 | Proprietary software | MATLAB& SIMULINK |
| 4 | Open Source Software | SCILAB, LTSPICE |

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Academic and Research Collaboration with NIT Srinagar

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1. Faculty Sponsored for Higher studies at NIT. One Faculty member pursuing M.Tech (Electrical Power and Energy Systems)

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2. **Modelling and Simulation of Large Scale Systems**, one week workshop, in collaboration with the department of Electrical Engineering, NIT Srinagar, in April 2015.

Academic and Research Collaboration with NIT Srinagar

1. Faculty Sponsored for Higher studies at NIT. One Faculty member pursuing M.Tech (Electrical Power and Energy Systems)
2. **Modelling and Simulation of Large Scale Systems**, one week workshop, in collaboration with the department of Electrical Engineering, NIT Srinagar, in April 2015.
3. Consultancy provided to State Government for Electrical wiring in Industrial Training Institute, Pulwama.

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- ▶ Faculty and Technical staff upgrade

Future plans

- ▶ Faculty and Technical staff upgrade
- ▶ Improvement in Lab infrastructure, Rich Departmental library

Future plans

- ▶ Faculty and Technical staff upgrade
- ▶ Improvement in Lab infrastructure, Rich Departmental library
- ▶ Research Cell for developing Alternate Hydro potential of the state

Future plans

- ▶ Faculty and Technical staff upgrade
- ▶ Improvement in Lab infrastructure, Rich Departmental library
- ▶ Research Cell for developing Alternate Hydro potential of the state
- ▶ Cell for providing consultancy to Industry

Future plans

- ▶ Faculty and Technical staff upgrade
- ▶ Improvement in Lab infrastructure, Rich Departmental library
- ▶ Research Cell for developing Alternate Hydro potential of the state
- ▶ Cell for providing consultancy to Industry
- ▶ M.Tech and M.S.(R) programs

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- ▶ The curriculum of the B. Tech (EE) program aims at imparting knowledge and creating skills required for a successful career in the field of electrical engineering and technology.

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- ▶ The curriculum of the B. Tech (EE) program aims at imparting knowledge and creating skills required for a successful career in the field of electrical engineering and technology.
- ▶ It is designed to be at par with the curriculum at reputed institutes at the national level.

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Curriculum

- ▶ The curriculum of the B. Tech (EE) program aims at imparting knowledge and creating skills required for a successful career in the field of electrical engineering and technology.
- ▶ It is designed to be at par with the curriculum at reputed institutes at the national level.
- ▶ The course structure for this program is divided into eight semesters with 5-6 theory courses and 3-4 practical courses in each semester.

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- ▶ The courses primarily aim at providing basic training in analysis and design of electrical energy systems, including, broadly, systems employed for generation, transmission, control and conversion of electrical energy.

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- ▶ The courses primarily aim at providing basic training in analysis and design of electrical energy systems, including, broadly, systems employed for generation, transmission, control and conversion of electrical energy.
- ▶ It is also ensured that students gain sufficient general knowledge in related disciplines of electrical and computer sciences, so that they remain capable of obtaining a specialized degree in their area of interest.

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► Network Analysis and Synthesis

Courses

- ▶ Network Analysis and Synthesis
- ▶ Digital and Analog Electronics

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- ▶ Network Analysis and Synthesis
- ▶ Digital and Analog Electronics
- ▶ Electrical Machinery and Electrical Machine design

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- ▶ Digital and Analog Electronics
- ▶ Electrical Machinery and Electrical Machine design
- ▶ Electrical measurements and Instrumentation

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- ▶ Digital and Analog Electronics
- ▶ Electrical Machinery and Electrical Machine design
- ▶ Electrical measurements and Instrumentation
- ▶ Power Systems and Power System Protection

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- ▶ Electrical measurements and Instrumentation
- ▶ Power Systems and Power System Protection
- ▶ Control Systems

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Courses

- ▶ Network Analysis and Synthesis
- ▶ Digital and Analog Electronics
- ▶ Electrical Machinery and Electrical Machine design
- ▶ Electrical measurements and Instrumentation
- ▶ Power Systems and Power System Protection
- ▶ Control Systems
- ▶ Microprocessors and Microcontrollers

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- ▶ Network Analysis and Synthesis
- ▶ Digital and Analog Electronics
- ▶ Electrical Machinery and Electrical Machine design
- ▶ Electrical measurements and Instrumentation
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- ▶ Control Systems
- ▶ Microprocessors and Microcontrollers
- ▶ Power Electronics and Electrical Drives

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- ▶ You are eligible for applying to various positions for Electrical engineers in the State government.

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Career Prospects

- ▶ You are eligible for applying to various positions for Electrical engineers in the State government.
- ▶ Eligible for applying to PSU's like BHEL, NTPC, NHPC etc., or in the private sector.

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Career Prospects

- ▶ You are eligible for applying to various positions for Electrical engineers in the State government.
- ▶ Eligible for applying to PSU's like BHEL, NTPC, NHPC etc., or in the private sector.
- ▶ Seek admission in postgraduate courses in reputed institutes/universities by appearing in various competitive exams like GATE, GRE etc.

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What is expected of you?

- ▶ Sincerity and dedication

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What is expected of you?

- ▶ Sincerity and dedication
- ▶ Regularity

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What is expected of you?

- ▶ Sincerity and dedication
- ▶ Regularity
- ▶ Discipline

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What is expected of you?

- ▶ Sincerity and dedication
- ▶ Regularity
- ▶ Discipline
- ▶ Honesty

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What should you expect from us?

- ▶ Sincerity and dedication

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What should you expect from us?

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- ▶ Regularity

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What should you expect from us?

- ▶ Sincerity and dedication
- ▶ Regularity
- ▶ Discipline

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- ▶ Regularity
- ▶ Discipline
- ▶ Honesty

Lastly...

We hope and pray that your stay at IUST with us:

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Lastly...

We hope and pray that your stay at IUST with us:

- ▶ becomes the most memorable and transformative period of your life, wherein you not only gain a **world-class education** but also develop an **exemplary character**.

Lastly...

We hope and pray that your stay at IUST with us:

- ▶ becomes the most memorable and transformative period of your life, wherein you not only gain a **world-class education** but also develop an **exemplary character**.
- ▶ enriches both you and us, not only intellectually, but also morally.

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Thankyou