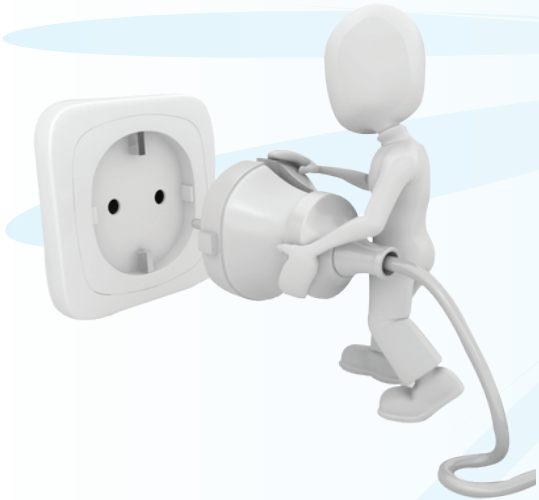
Introduction to

Electrical Engineering

Why? Who?
What? Where?



Why Electrical Engineering?

Electrical engineers are trained to address a variety of the crucial engineering issues that societies face today.

The course includes research, development, design, creation and maintenance of a diverse set of objects ranging from global positioning systems to semi-conductor chips used in mobile phones.

Who should be an Electrical Engineer?

Any student who has:

- A passion for electronic systems
- A keen interest in sciences and mathematics
- An analytical mind and can comprehend information
- Good computing ability

Specialisations within Electrical Engineering:

- Power
- Computers
- Telecommunications
- Communication and Signal Processing
- Control Engineering Electromagnetics
- Electronics and Microelectronics Power
- Systems Optical Engineering
- Nanotechnology
- Instrumentation

Upcoming Specialisations within Electrical Engineering:

- Remote Sensing and Space Systems
- Bioelectronics Engineering

Best colleges for Electrical Engineering in:

India

- IITs'
- NITs'
- BITS-Pilani
- Delhi College of Engineering-New Delhi

USA

- Massachusetts Institute of Technology
- Stanford University
- University of California-Berkeley

UK

- University of Cambridge
- University College-London
- Imperial College-London

Canada

- University of Victoria
- University of British Columbia
- McGill University

Did you know? Rowan Atkinson, also famous as Mr. Beans is an electrical engineer from Oxford University!

Discover the Career Options Right for You

1 Initial Options

What are your career ideas?

If you haven't already given it a thought, then base it on influences from:

- Parents, family and friends
- Passion towards a subject
- Personal experiences
- Media and internet

Univariety probes and provides answers

Initial Options
Go to step 2

Instructions

- Follow this process, one at a time, to finalise career choices
- If the answer is 'No' 'at any stage then start from stage 1
- Do in-depth self research
- Complete details of this process and the questions around a 'Typical Day' Test are at www.univariety.com/courses

2 Hypothesis

Do you like it?

Remember the activities from the past which gave you joy and happiness. Does this career option similarly excite you?

Initial Hypothesis

Can you do it?

- Do you know how long it takes to get the degree?
- Do you like the subjects which you will study?
- Can you perform to get through to good colleges?
- Do you have the financial resources to support the degree?

Final Hypothesis
Go to step 3

3 Validation

Do you want it?

Do you like the:

- Nature of work you will do?
- Type of people you will deal with?
- Physical and mental effort required?
- The challenge it poses?

Will it fulfill your and your family's ambitions?

Will this give you a good:

- Lifestyle?
- Time with family and friends?
- Salary and money potential?
- Possibility of being famous?

Validated Hypothesis
Go to step 4

4 Finalisation

'Typical Day' Test?

"If you want to know the road ahead, then ask someone who has travelled it."

- Ancient Chinese Proverb

Here, we ask you to identify 2 - 3 people who have the same career that you have chosen and brought to this stage. Observe and ask questions to understand the 'typical life' in that career

Decision

Tools

- Discussion within the family and friends
- Univariety Website – Career Section
- Sessions with Univariety Counsellors
- Internet, books and other media

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