Introduction to

Aeronautical Engineering

Why? Who? What? Where?

Why Aeronautical Engineering?

Take a moment from your busy life and look up at the sky! Have you ever thought about a career that is beyond the conventional; one that will enable you to literally reach for the skies? Think no further. Think aeronautical engineering! It is an immensely exciting and challenging course in engineering in which you learn to solve problems related to the science and technology of aircrafts.

Who should be an Aeronautical Engineer?

Any student who is:

- Interested in aircrafts, satellites and missiles
- Quick witted
- Good at problem solving
- Keen on serving the country

Specialisations within Aeronautical Engineering:

- Aerospace Propulsion
- Structural Analysis
- Electronic Systems
- Ground Vehicle Systems
- Transportation Systems
- Aerodynamics and Fluid Dynamics
- Aircraft Structures and Materials
- Structural Design and Engineering
- Instrumentation and Communication
- Navigational Guidance and Control Systems

Upcoming Specialisations within Aeronautical Engineering:

- Astronomy/Astrophysics
- Avionics

Best colleges for Aeronautical Engineering in:

India

- IITs'
- Madras Institute of Technology-Chennai
- Hindustan College of Engineering-Chennai

USA

- University of Alabama in Huntsville
- University of Alabama
- Arizona State University

UK

- University of Brighton
- University of Glamorgan
- University of Glasgow

Canada

- Ryerson University
- Carleton University
- Concordia University

Did you know? Neil Armstrong became the first man to walk on the moon! He was an aeronautical engineer from the Purdue University and also had an M.S. degree from the University of Southern California.

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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