Introduction to

Civil Engineering

Why? Who? What? Where?



Why Civil Engineering?

Civil engineers work in a fast-moving, challenging and a rewarding profession. It involves and is concerned with the improvement and care of a building and it's natural environments. It also deals with the planning, design, construction, operation, and maintenance of buildings, dams, bridges, harbours, power facilities, water supply, and transportation systems.

Who should be a Civil Engineer?

Any student who:

- Is creative and has an innovative approach in problem solving
- Can manage time with resources
- Has critical thinking ability

Specialisations within Civil Engineering:

- Geotechnical Engineering
- Mining Engineering
- · Structural Engineering
- Earthquake Engineering
- Wind Engineering
- · Architectural Engineering
- Ocean Engineering
- · Transportation Engineering
- Traffic Engineering

Upcoming Specialisations within Civil Engineering:

- Environmental Engineering
- Fire Protection Engineering
- Sanitary Engineering

Best colleges for Civil Engineering in:

India

- IITs'-Mumbai, Chennai
- BITS-Pilani
- · College of Engineering-Chennai

USA

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

UK

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

Singapore

- National University of Singapore
- Nanyang Technological University
- Queen's University

Canada

- McGill University
- · University of British Columbia
 - University of Toronto



Did you know? The 'Leaning tower of Pisa' leans because it is built only about 6 feet above sea level and the layers of clay are not even. Therefore, it has sunk more in some places than others.





Discover the Career Options Right for You

1 Initial Options 2 Hypothesis

3 Validation

4 Finalisation



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

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



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 vou 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



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 vour 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



'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



- Discussion within the family and
- Univariety Website Career
- Sessions with Univariety
- Internet, books and other media.

Like us on

Phone: +91 40 30903900

Email: guideme@univariety.com

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