

DESIGN ENGINEER

A Design Engineer is a designer who is focused on the engineering design process in any of the various engineering disciplines. Design Engineers use computer softwares to create designs and develop prototypes to test their ideas.

PERSONAL COMPETENCIES

- You like to build things
- You are good with computers
- You are comfortable working in groups
- You enjoy figuring out how things work



The approx. course fee ranges between **INR 10,000 - 8,00,000***.

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

- **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*
- Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*
- Scholarships are also available in the institutes based on merit*
*(Availability of these scholarships can vary from time to time)

LOANS

- VidyaLakshmi, www.vidyalakshmi.co.in, is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA)
- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans



ENTRY PATHWAY

1. Complete 10 + 2 in the Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's degree in Design Engineering (B.Tech./B.E.)

OR

Complete Bachelor's degree in Design Engineering (B.Tech./B.E.) and follow it up with Master's degree in Design Engineering (M.Tech./M.E.)

OR

Complete Bachelor's degree in Design Engineering (B.Tech./B.E.) and follow it up with Master's degree in Design Engineering (M.Tech./M.E.) and then complete PG Diploma in Engineering Design

For admissions in a B.Tech. course, you must qualify JEE Main. JEE Advanced is needed for admissions to IITs. Other entrance exams can be taken: ICAR/GATE/AIEEA/MHT/CET/UPCATET/AP EAMCET/CG PAT/SHIATS Entrance Exam/CCS HAU Entrance Exam/Rajasthan JET/AGRICET

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Design Engineer ranges between **INR 15,000 - 84,000*** per month.

Source: https://www.payscale.com/research/IN/Job=Design_Engineer/Salary

WHERE WILL YOU WORK?

Places of Work: Sectors such as Thermal Power, Gas Turbines, Agricultural Sector, Air Conditioning and Refrigeration, etc.

Work Environment: The work timings are typically 5 to 6 days a week for 8 to 9 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Junior Designer → Design Engineer → Senior Design Engineer → Lead Design Engineer → Technical Manager → Project Manager

Search keywords...



design engineer, product designer, engineering design

WHERE WILL YOU STUDY?

This course is offered by the Department of Engineering/Design

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. IIT Madras
2. IIT New Delhi
3. IIT Kharagpur
4. NIT Surathkal, Mangalore
5. National Institute of Design, Ahmedabad
6. Institute of Fashion Technology Kerala, Kollam
7. National Institute of Design, Madhya Pradesh
8. Kerala State Institute of Design, Kollam

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and AICTE before applying)

1. Alakh Prakash Goyal Shimla University, Shimla
2. Chandigarh University, Chandigarh
3. D J Academy of Design, Coimbatore
4. Hans Raj Mahila Maha Vidyalaya, Jalandhar
5. Indian Institute of Art and Design, New Delhi
6. International School of Design, Kolkata
7. Kalinga Institute of Industrial Technology, Odisha
8. Khyati School of Design, Ahmedabad

Information on institute rankings is available at - <https://www.nirfindia.org/2022/Ranking.html>

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

ONLINE COURSES

- NPTEL* Swayam - <https://nptel.ac.in/courses/107101087>
- Udemy - <https://www.udemy.com/course/engineering-design-overview/>

*NPTEL - National Programme in Technology Enhanced Learning. It is by the Government of India and offers a variety of courses in an audio - video form.

SCAN ME



VIEW ON WEBSITE

EXAMPLE FROM THE FIELD

Rajeev Chandrasekhar is the Union Minister of State for Electronics and Information Technology as well as the Union Minister of State for Skill Development and Entrepreneurship. He is an Indian politician and entrepreneur, technocrat and was serving his third term as a Member of Parliament in the upper house (Rajya Sabha) from BJP representing Karnataka. Between 1986-1991 he worked at Intel as Senior Design Engineer and a CPU architect on the 80486 and Pentium Microprocessors. He completed his Master's in Computer Science in 1986 from Illinois Institute of Chicago.*

Source: <https://rajeev.in/about/>

**The above information is for training purposes only and will not be used for any commercial gains*