

[illegible]

## why engineering?

- ☐ fun to create things
- ☐ pays better than a truck driver
- ☐ bad engr job > accounting or HR
- ☐  $\lim_{GPA \rightarrow 0} \text{ engr major} = ?$



# engineer

[ɛndʒɪˈnɪə] noun

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a person who designs, builds, or maintains engines, machines, or structures.

someone who solves a problem you didn't know you had, in a way you don't understand.





# CAREERS IN ENGINEERING

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Industrial  
engineer

Biomedical  
engineer

Environment  
al engineer

Marine  
engineer

Civil  
engineer

Mechanical  
engineer

Petroleum  
engineer

Computer  
engineer

Electrical  
engineer

Nuclear  
engineer

Materials  
engineer

Chemical  
engineer

Aeronautical  
engineer

Software  
engineer



# IMPORTANCE OF ENGINEERING

- Engineers secure the faith of growing economy.
- Engineering plays such an important role because it is the way that we humans are able to use the rules of the world to achieve things. Physics, Chemistry, and Biology teach us how the universe works, it gives us all the instructions we need as to how things interact.

# **ENGINEERING IN MODERN WORLD**

- Engineers must be critical yet creative; curious yet capable; as well as ready to handle the constantly changing world.
- In an advanced technological world, we need engineers to bring ideas into reality. By applying the principles of mathematics and science, engineers develop solutions to the world's biggest technical issues.

# ENGINEERING IN INDIA

- INDIA has the largest numbers of engineers as well as the largest number of engineering education institutes and infrastructure in the world .As of 2021, India annually produces one million engineering graduates.
- India's technical education infrastructure includes 3500 engineering colleges, 3400 polytechnics and 200 schools of planning and architecture.





# RISE AND FALL OF INDIAN ENGINEERING DEGREE

- Indian engineers may figure among the most powerful CEOs in the world, but the country's BTech/BE degree has lost its sheen over the years.
- According to a survey conducted by Aspiring Minds- an employability assessment company, 80 per cent of Indian engineers are unemployable for any job in the knowledge economy. Notably, the Human Resource Development Ministry's AISHE 2019 report stated that engineering and technology is the fourth major stream in India with 38.52 lakh students enrolled in various institutes – including both government and private.
- During the boom in the IT industry, engineering colleges mushroomed all across the country. But these institutes lacked an updated curriculum and focused on non-existent linkages with industry and had poor student-faculty ratio. Except the IITs, a few NITs and some private engineering colleges, these new institutes failed to make their students job-ready. As per a recent report, engineers applied for Group D level jobs where the minimum qualification required is not more than class 12 passing certificates.





# **REASON FOR UNEMPLOYMENT IN INDIA**

- **TOO MANY ENGINEERS**
- **LACK OF EXPOSURE**
- **THEORY VS PRACTICAL**
- **RIGIDITY**
- **LACK OF DISCIPLINE**
- **ATTITUDE ISSUES**



- Higher education stagnated in India, 48% engineers unemployed: NITI Aayog V-C
- Stating that about 45 per cent of management and 48 per cent of engineering students in the country are unemployed, NITI Aayog Vice-Chairman Rajiv Kumar on Thursday stressed on advancement in higher education, specifically in management colleges.

## **FACILITIES FOR UNEMPLOYMENT ENGINEER'S**



## Commonly-Used Methodology for Problem-Solving in Engineering





# IS ENGINEERING A GOOD CAREER

Becoming an engineer is one of the most rewarding if stressful, career choices a person can make. Whilst it will be a harsh and long road, most qualified engineers have never looked back.

Engineering has historically been one of the highest paying careers anyone can pursue. In many polls and surveys, engineering-related jobs still command some of the highest incomes of all.

So it appears that choosing to pursue a career in engineering is a sage one. If you are up to the task, steel yourself for a rough, yet incredibly rewarding, career. Good luck.



# WHY ENGINEERING?

- Job Satisfaction. It's ideal to find a career that you enjoy. ...
- Variety of Career Opportunities. ...
- Potential to Benefit Society. ...
- Challenging Work. ...
- Intellectual Development. ...
- Creative Thinking. ...
- Technological and Scientific Discovery. ...
- Financial Security.

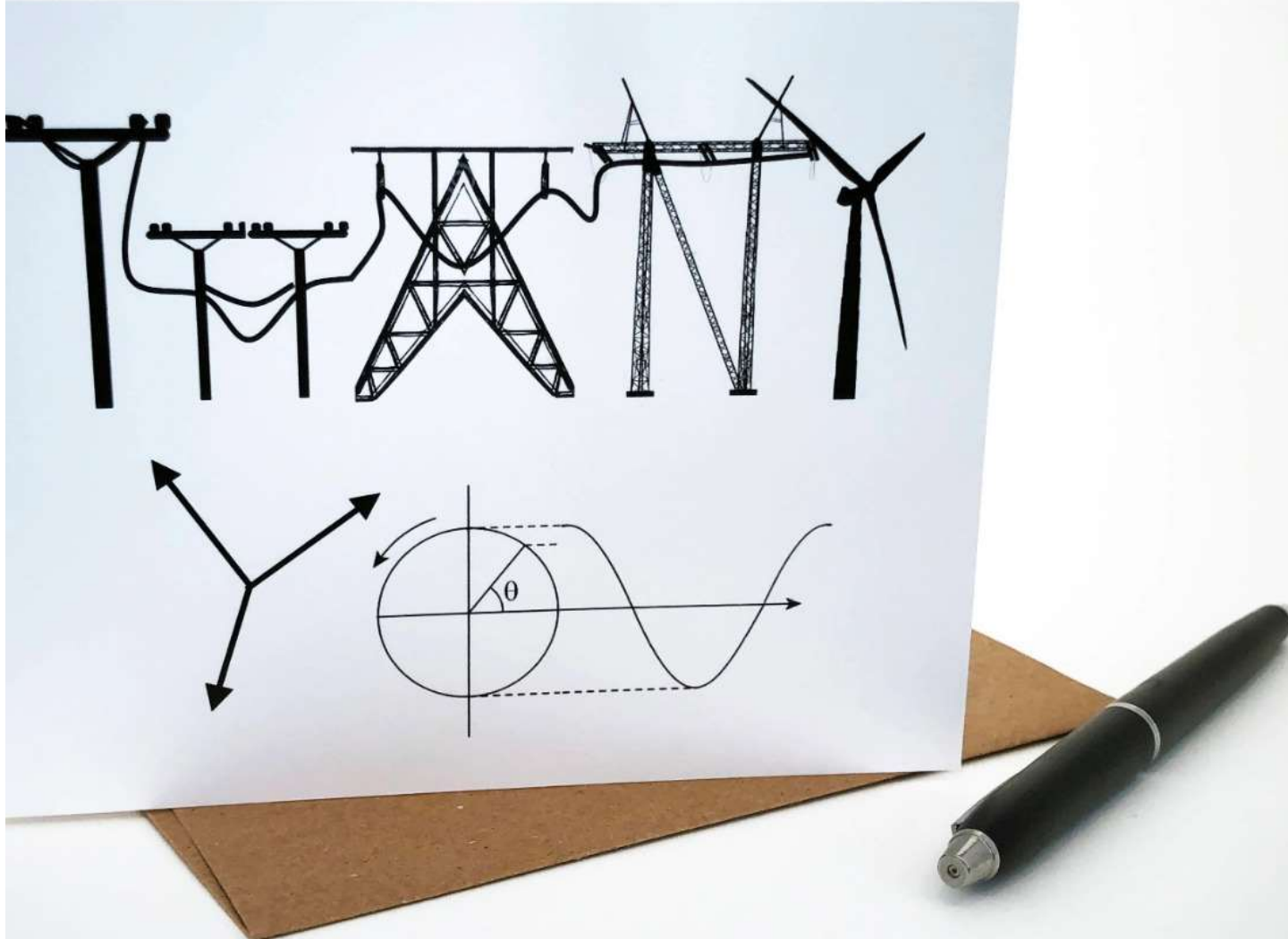






**ANY  
QUERIES?**





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