



**KSSEM**  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT

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K S GROUP OF INSTITUTIONS

**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT**

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## DEPARTMENT OF MECHANICAL ENGINEERING

Organising

**'Webinar'** on "Career Opportunities  
and



Higher Education for  
Mechanical Engineers"



**Speaker:**

**Prasad B G**

Production Associate,  
Rittal Systems Canada.

**Date:** 18/06/2021

**Time:** 09:30 AM

### Meeting Details:

ID: 6612813479

Passcode: 559098



<https://us02web.zoom.us/j/6612813479?pwd=bGdwUVEyN1VlbW1DcG1kb111d3l4Zz09>

Recording... Praved by is talking...

### Latest technological trends.

- Internet of things (IoT) / Industry 4.0
  - Autonomous Machines
  - Virtual Factory



The diagram illustrates the 'Industry 4.0 - Technological pillars' centered around '4.0 Technology'. The pillars include: Cognitive Computing, Cloud Computing, Mobile Technologies, Machine to Machine, 3D Printing, Advanced Robotics, Big Data Analytics, and Internet of Things. Other related terms like 'IIoT Technologies' and 'Cybersecurity' are also shown.

Recording... Praved by is talking...

UHMEDM

Rakshith R

PRAVEEN N

1KG18ME008

TK2018K400...

Akshay kumar a...

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### Latest technological trends.

- Additive Manufacturing / 3D printing
  - Industrial applications
  - Biomedical
  - Edible
  - Construction



A close-up photograph of a 3D printer's nozzle extruding a red filament to create a small, textured red object on a red surface.

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Akshay kumar a...

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Recording...

## Practical Applications of Engineering courses.

- Operations Management
  - Used by Industrial engineers to setup and map the production process
  - To track process times
  - To identify bottlenecks in production environment

[ Forecast, Scheduling, MRP , SCM, etc., ]

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Rakshith R

PRAVEEN N

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## Latest technological trends.

- Electric Vehicle in Automotive
  - Power Engineering
  - Transmission



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Rakshith R

PRAVEEN N

1KG18ME008

1kg19ME408

Akshay kumar a...

Recording... You are viewing Prasad Bg's screen View Options

## Practical Applications of Engineering courses.

- Thermodynamics
  - Co-efficient of thermal expansion
  - Effect of temperature on material and heat dissipation ways.

Refresh
Start Video
Security
Participants
Chat
Share Screen
Pause/Stop Recording
Reactions
End

Gagan 19ME006

Rajashekar

Prasad Bg

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Suba Pragas

Recording...

## What do industries expect from students?

- Knowledge on their product/ process.
- Knowledge on basic operations of industry
- Knowledge on tools, measuring instruments.

Refresh
Start Video
Security
Participants
Chat
Share Screen
Pause/Stop Recording
Reactions

Karan Raksh

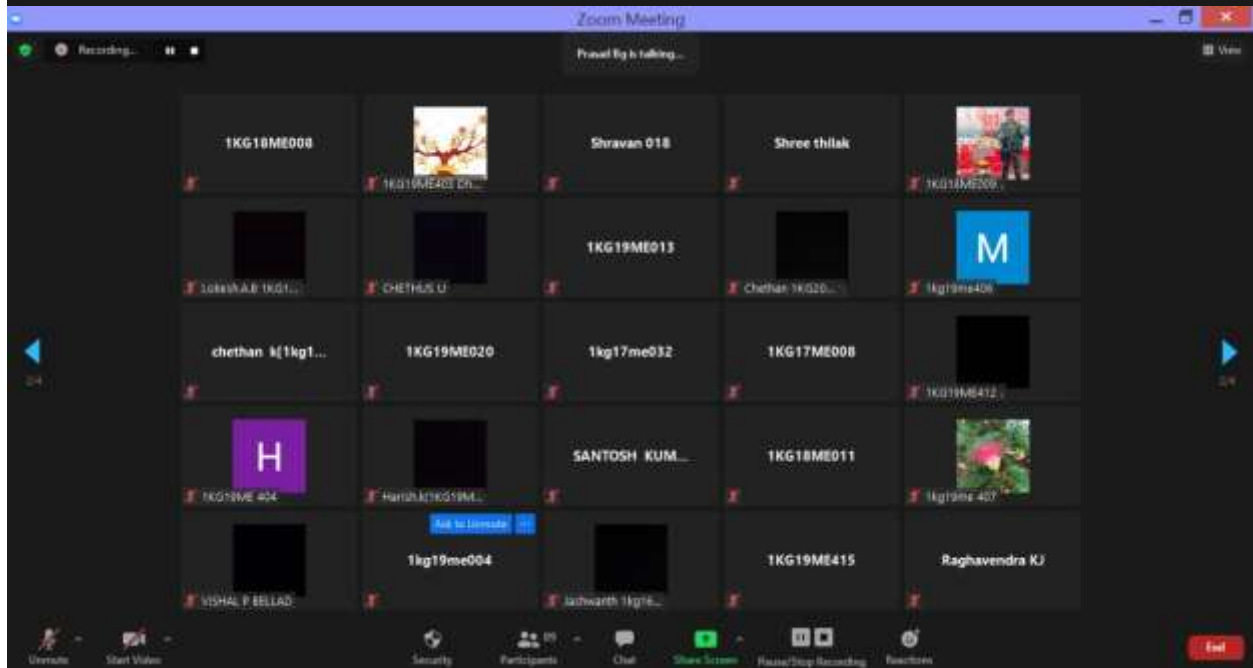
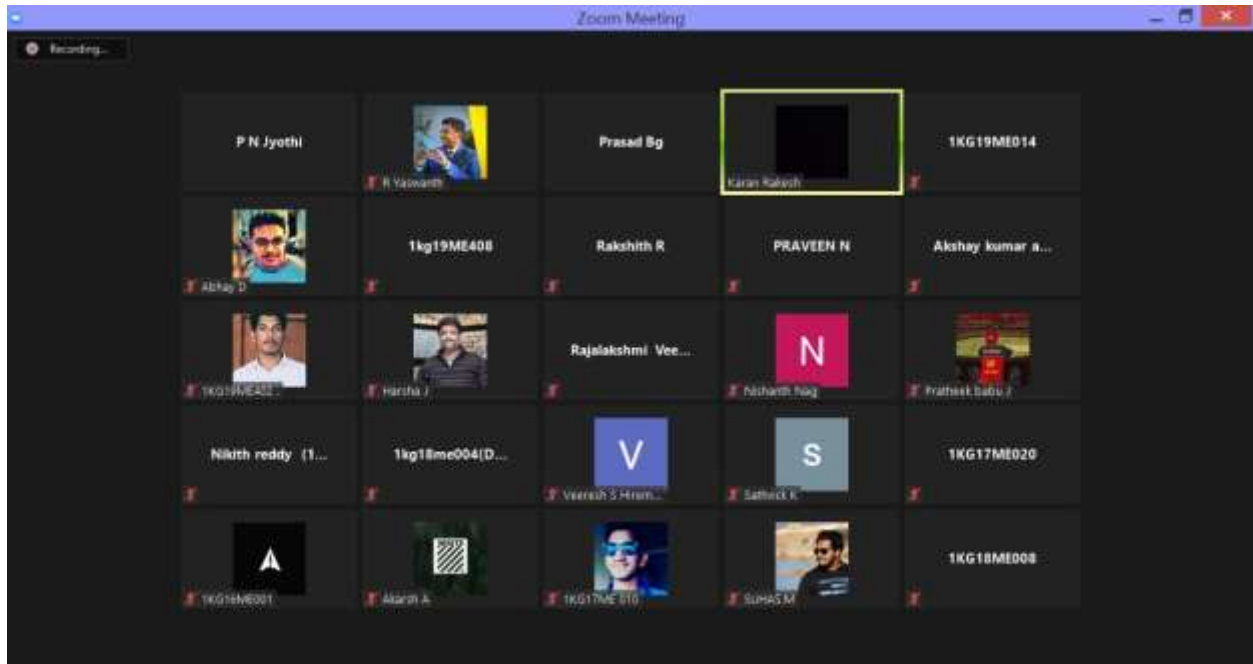
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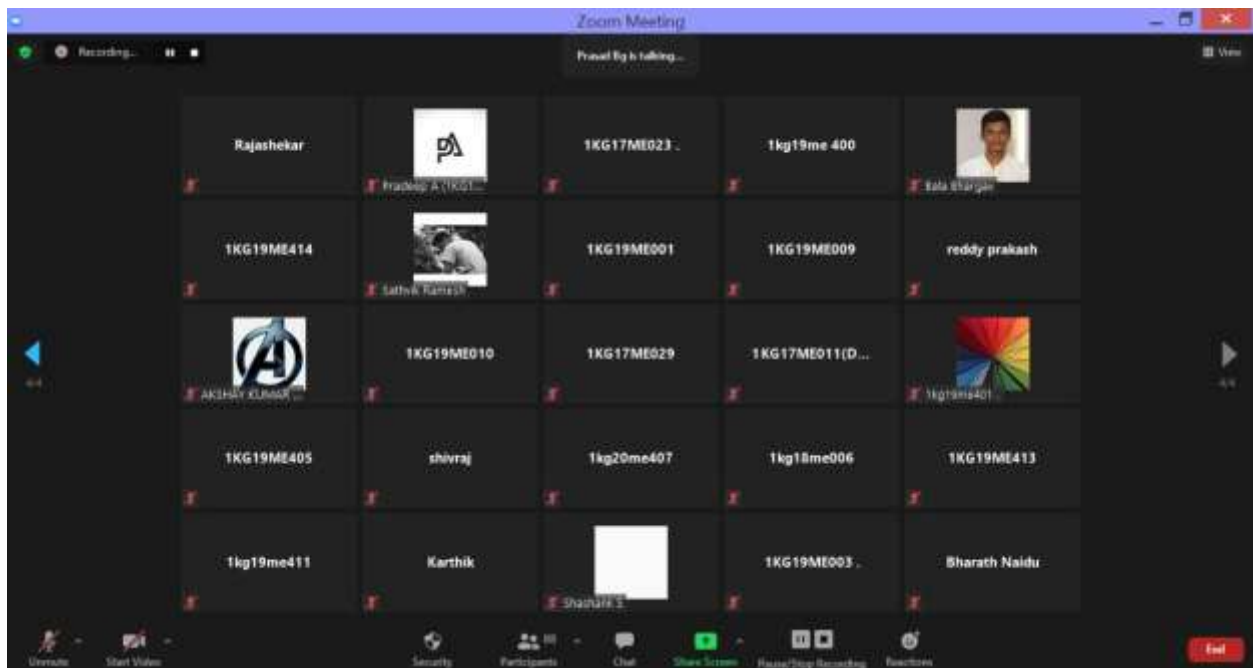
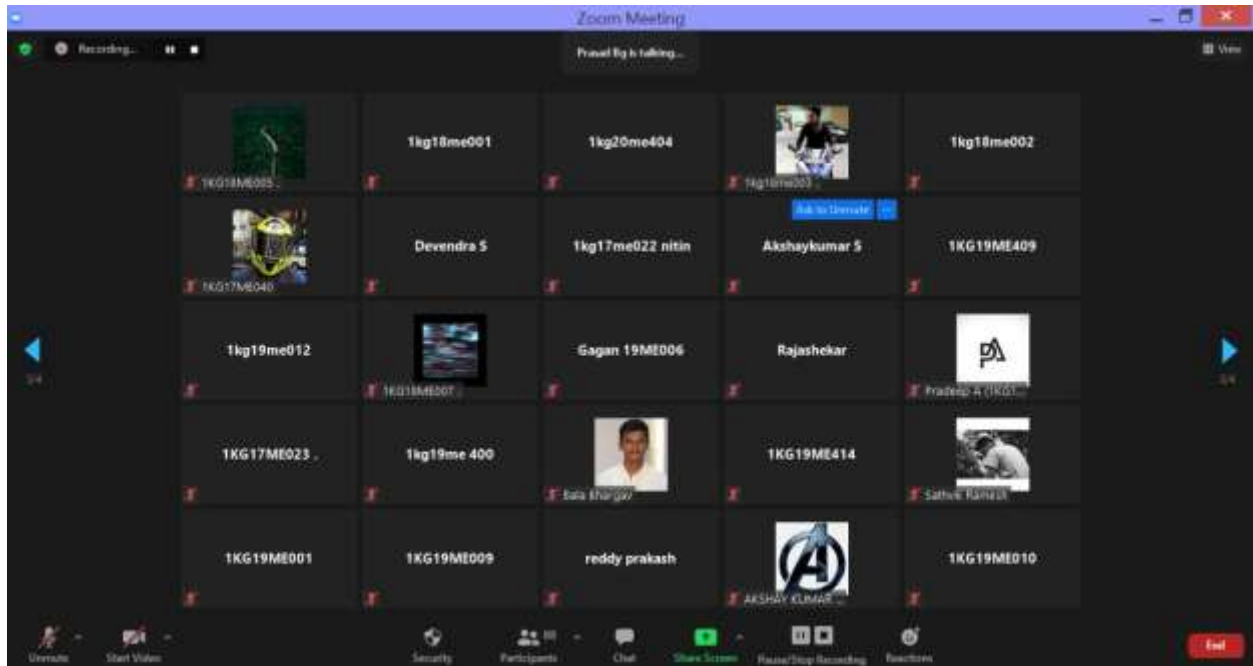
Prasad Bg

1KG18ME001

P N Jyothi

Rakshith m





18th June 2021,

Today there was a webinar held through zoom online platform hosted by the faculties of KSSEM where the speaker of the seminar was an alumni of the college with an amazing experience with industries and currently working abroad , who shared his personal experiences with the industries and higher education, sir PRASAD B G gave his valuable information about the various experiences that a student may face outside of the college world and gave his guidance for a betterment in the carrier opportunities and selection. This session was very useful to each and every student as a student world be defined to only college and the courses and wouldn't know about the outer industrial world

If was a great opportunity to all the students to gain many important lessons and knowledge

I thank my teachers for giving us such an opportunity to learn new things

From

Rajalakshmi Veeresh

4<sup>th</sup> Sem

> Latest technological trends

- \* Additive Manufacturing / 3D printing
- \* Internet of things (IoT)
- \* Electric Vehicle in Automotive.
- \* CAD/CAM.

> Latest Trending jobs / courses

Mechatronics, Quality, Industrial, HVAC, Manufacturing, Aerospace, project, Bio medical, process & Automotive Engineer.

> Practical Applications of Engg courses which are Imp.

- \* Operation Management.
- \* Thermodynamics.
- \* Material Science.
- \* Manufacturing process.
- \* Project Mgmt.

> Selection of Electives

- \* We should also give more importance to elective subjects like project Mgmt, Quality Mgmt & Design based subjects.



## Industry's Expectations

- \* Knowledge on their product/process
- \* Knowledge on basic operations
- \* Skills we ~~have~~ learnt from the subjects

**REPORT OF  
WEBINAR CONDUCTED  
ON  
CAREER OPPORTUNITIES  
AND  
HIGHER EDUCATION FOR  
MECHANICAL ENGINEERS**

**BY,  
PRASAD BG**  
PRODUCTION ASSOCIATE,  
RITTALSYSTEMS CANADA.

**Report by,**

**NAME - AkshayKumar Aradhya k**

**USN - 1KG20ME400**

# TOPICS,

- 1.Effect of the pandemic for future jobs
- 2.Additive manufacturing
- 3.Internet of things (IOT)
- 4.Electric vehicle in automotive
- 5.Cad / Cam
- 6.JOBS in various sector like,
- 7.Practical applications of engineering courses
- 8.What do industries expect from students?

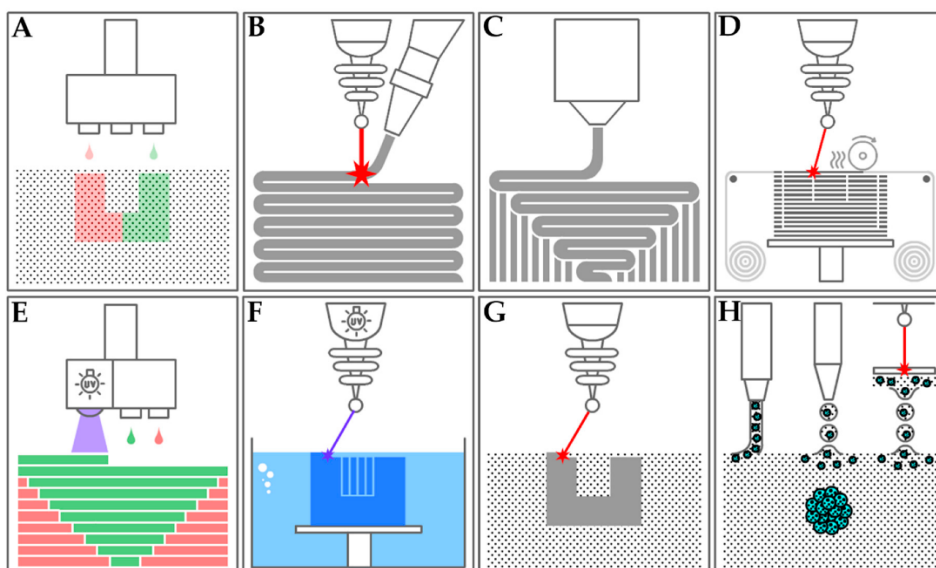
# Effect of the pandemic for future jobs

As we all know this pandemic is creating huge major losses for big companies so it could be a major impact on future jobs as we know nowadays even the experienced person in the company is losing the job so we cannot expect to get a job after our graduation, but we have a solution in ourselves like we must improve our skills like in some software's like CADD, ANSYS like many more

So we cannot leave a chance to not recruiting us for the job.

## Additive manufacturing

**Additive manufacturing** (AM), also known as 3D printing, is a transformative approach to industrial production that enables the creation of lighter, stronger parts and systems. As its name implies, **additive manufacturing** adds material to create an object.



# Internet of things (IOT)

The **Internet of things (IOT)** describes the network of physical objects or "things" that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet.

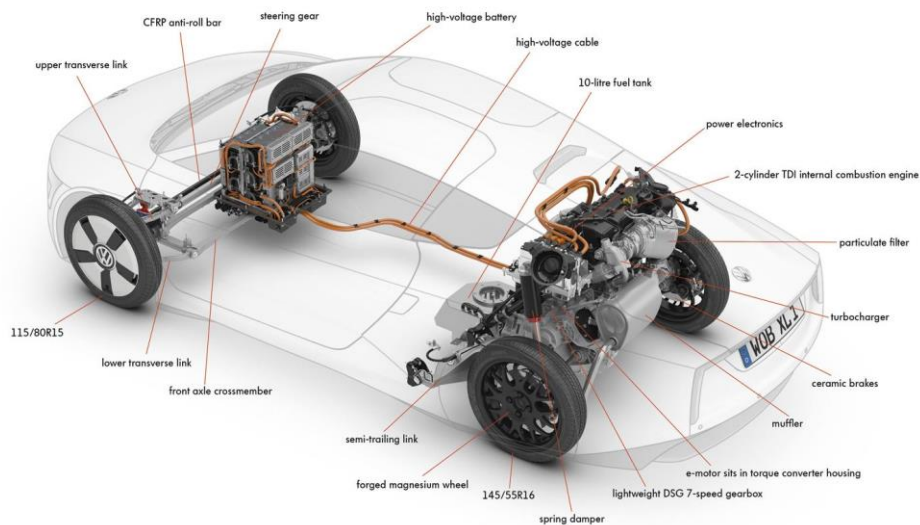


# Electric vehicle in automotive

An **Electric vehicle (EV)** is a vehicle that uses one or more electric motors or traction motors for propulsion. An electric vehicle may be powered through a collector system by electricity from off-vehicle sources, or may be self-contained with a battery, solar panels, fuel cells or an electric generator to convert fuel to electricity. EVs include, but are not limited to, road and rail vehicles, surface and underwater vessels, electric aircraft and electric spacecraft.

## Electric Cars in India

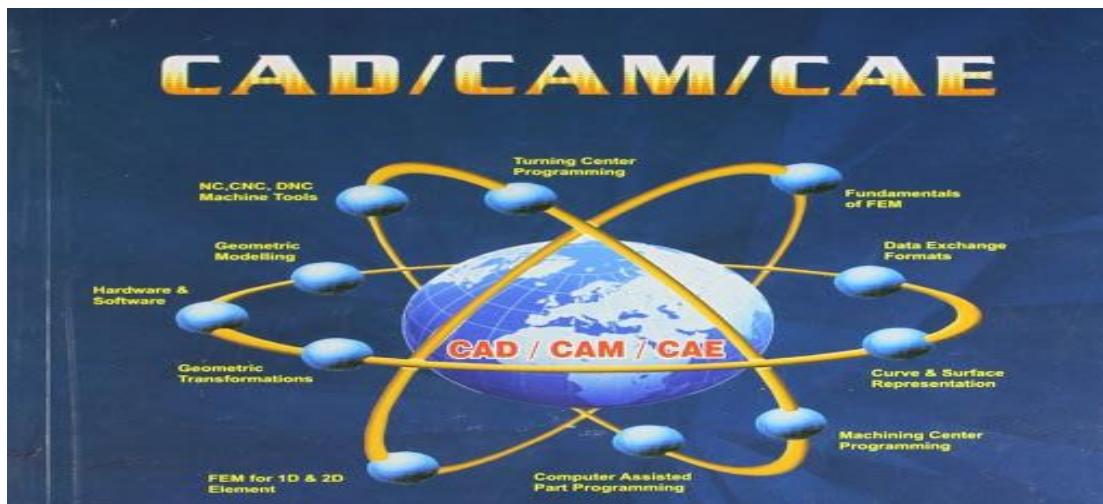
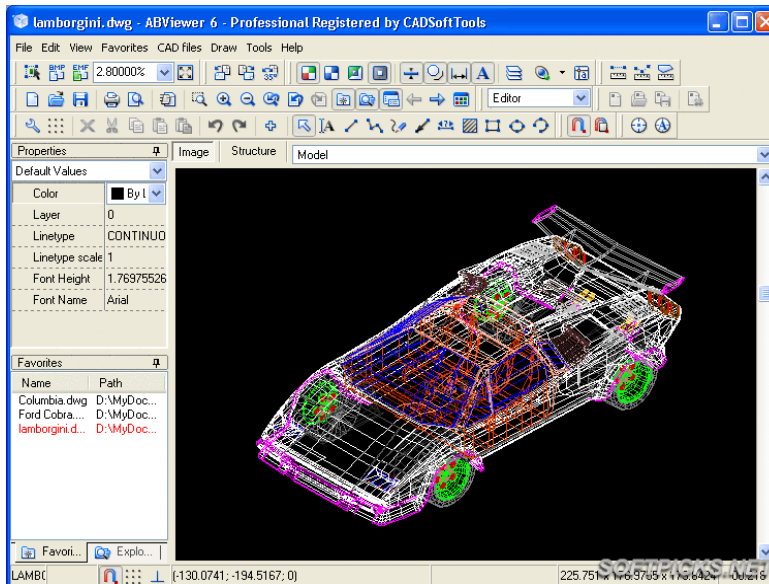
- Jaguar I-Pace. Rs1.05 - 1.12 Cr\* Check June Offers.
- Strom Motors R3. Rs4.50 Lakh\* ...
- Mercedes-Benz EQC. Rs1.04 Cr\* ...
- Tata Nexon EV. Rs13.99 - 16.56 Lakh\* ...
- MG ZS EV. Rs20.99 - 24.18 Lakh\* ...
- Tata Tigor EV. Rs9.58 - 9.90 Lakh\* ...
- Rs23.77 - 23.96 Lakh\* View June Offers.
- Mahindra E Verito. Rs10.15 - 10.49 Lakh\*



# Cad / Cam

CAD/CAM mechanical Engineering

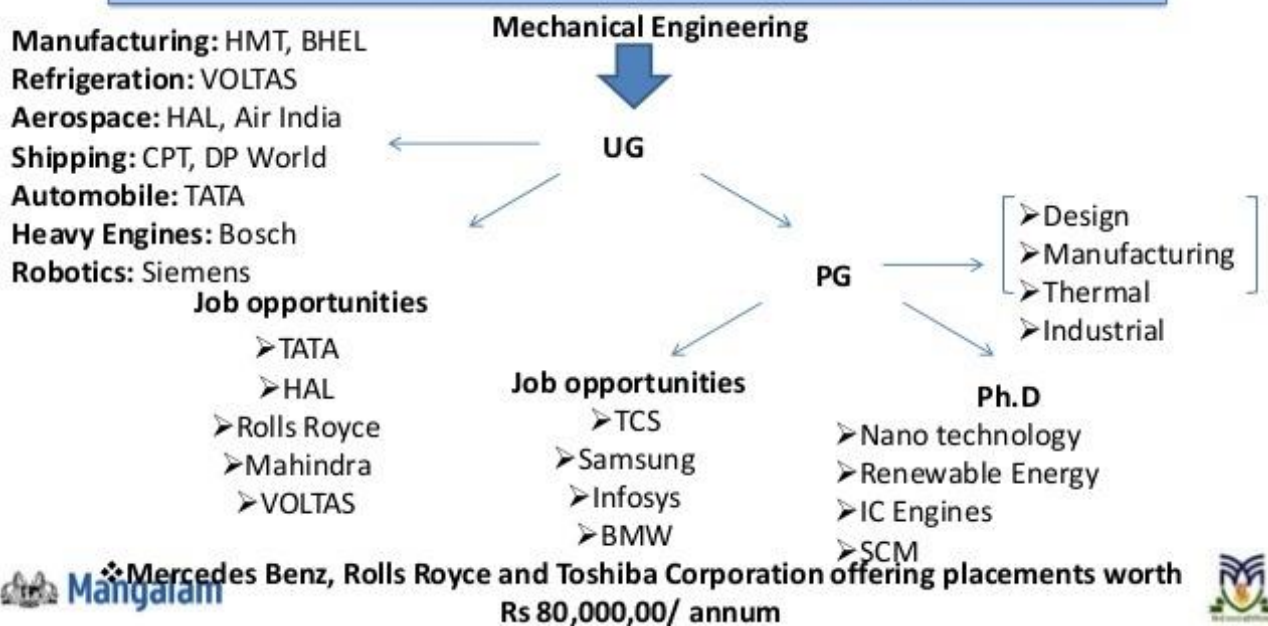
Computer-aided design (**CAD**) involves creating computer models defined by geometrical parameters. Computer-aided manufacturing (**CAM**) uses geometrical design data to control automated machinery. **CAM** systems are associated with computer numerical control (CNC) or direct numerical control (DNC) systems.



# **JOBS in various sector like**

- Mechanical engineer
- Industrial engineer
- Project engineer
- Process engineer
- Quality engineer
- HVAC engineer
- Aerospace engineer
- Bio-medical engineer
- Automotive engineer

## **Mechanical Engineering Facts**





# Practical applications of engineering courses

## 1. Exploring the Area of Interest

Engineering is a vast field. You have a choice of different fields for masters and Ph.D. program ahead of your graduation. Practical help you analyse yourself and think of a particular area of interest. Once you stick to a particular direction, you can set your goals and explore ways to achieve it.

## 2. Boost Your Concepts

“No matter if you hire dissertation services to get rid of your assignments but never miss practical demonstrations of your core subjects. It helps you to understand the lectures and what is being taught in theory.” If you need to master your discipline, be the first one to do practical implementations.

## 3. Implementation Is More Worthy

The key difference between theoretical learning and practical implementation is a quick result. While theoretical learning, you are unable to test your knowledge until you appear in the exams. However, in practical implementations, there is an entirely contrasting scenario. You can check the results along with the practical. You can analyse your mistakes and improve them in a better way.

#### 4. Making You Ready for the Industry

Practical work provides you with a better idea of things that are carried out in the industry. Without having the correct practical knowledge, the industrial experience might be awful for you. It enables you to be aware of the standards, rules, and regulations which are being followed in the industrial environment.

#### 5. Enhancing Your Co-working Skills

Practical tasks often require individuals to work in groups. It helps in enhancing multiple skills such as communication, teamwork, leadership, sharing, caring, and more. Your mates also give you feedback which helps you learn how to deal with positive and negative reviews. More than that, it refines your understanding regarding your specific task due to handy discussions and explanations.

#### 6. Makes You Independent

Where practical applications develop your co-working skills, it also helps you being independent and confident about your studies. This confidence not only works for you in the examinations but also at the time of the job. Practical demonstrations are easy to remember and hence prepare you for job interviews and even for a start-up.

# **What do industries expect from students?**

- Communication Skills.
- Knowledge beyond the Textbooks.
- Ability to Lead.
- Positive Approach.
- Updated with Latest in Technology.
- Willingness to Travel.
- Knowledge of Foreign Languages.