



**CHANDIGARH  
UNIVERSITY**

Discover. Learn. Empower.

**NAAC  
GRADE A+**  
ACCREDITED UNIVERSITY

**QS UNIVERSITY  
RANKINGS  
ASIA**  
2023  
**RANKED 2<sup>ND</sup>**  
AMONGST PRIVATE UNIVERSITIES IN INDIA



# TRANSFORMING INNOVATIVE MINDS INTO CREATORS FOR SUSTAINABLE FUTURE

*Master of Engineering*  
***Mechanical Engineering***





## DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at Chandigarh University strives to train engineering aspirants for developing different products, and processes at multiple scales, ranging from molecular states to complex structures. The department facilitates learning and R&D in Structural Dynamics & Control, Solid, Impact and Fluid Mechanics, Smart Composite & Sandwich Structures, Structural Reliability, Manufacturing Systems, Nano-Materials and Solar Thermal Energy Systems. Our course curriculum engages students with the expert knowledge and skills demanded in the large scale manufacturing industries.

## MASTER OF ENGINEERING MECHANICAL ENGINEERING ELIGIBILITY CRITERIA FOR ADMISSION

- B.E. (Mechanical, Production, Automobile, Mechatronics, Aerospace) passed from a recognized university or institute or college.

## DURATION

- 2 Years



# WHY STUDY MASTER OF ENGINEERING MECHANICAL ENGINEERING IN CHANDIGARH UNIVERSITY

- *Punjab's Youngest University to bag the prestigious NAAC A+ accreditation*
- *International Standard and Research-Oriented Course Curriculum with one-year course work followed by choice of Industry Internship or Research Work*
- *International Exposure through academic tie-ups with 443+ Universities across 86 Countries; conducting (1+1) International Articulation Programs at top-Ranked Universities*
- *Real-Time Practical Exposure of working on research projects from Government agencies such as DST, MHRD, DBT, CSIR, and UGC, as part of the course curriculum*
- *Industry Internship and Exclusive Campus Placement Opportunities*
- *5 Years ME-PhD Integrated Program with an exit option to earn a Master's Degree after 2 Years*
- *GATE Fellowships for the GATE qualified students and Research Fellowships/Teaching Assistantships for the meritorious students*
- *EARN WHILE LEARN option for the students*
- *GATE/PSUs/Govt. Jobs Exam workshops/trainings by Qualified Technical Experts*
- *Extensive Research Opportunities for ME students with on-campus University Centre for Research & Development and 30+Industry Established R&D Labs*
- *Technology Business Incubator facilitating entrepreneurship*
- *Flexibility to choose a Master's Degree in Allied or Inter-Disciplinary Specialization*



## INTERNATIONAL TIE-UPS



ILLINOIS TECH

Carleton  
University



STATE  
ARKANSAS STATE  
UNIVERSITY

TDU  
TOKYO DENKI UNIVERSITY



DEAKIN  
UNIVERSITY

BIRMINGHAM CITY  
University



## INDUSTRY COLLABORATIONS

MATLAB®

AUTOCAD

COMSOL

ptc

ANSYS

## RESEARCH LABORATORIES

- ✦ *Thermal Research Lab*
- ✦ *Modeling and Simulation Lab*
- ✦ *Flexible Manufacturing System (FMS) Lab*
- ✦ *Tribology Lab*
- ✦ *Bio-Mechanics Computational Lab*
- ✦ *Material Science Lab*
- ✦ *XRD Lab SEM Lab*
- ✦ *3D Printing Lab*



## SPECIAL RESEARCH FACILITIES

- *Additive manufacturing- 3D Printing facilities*
- *Fault Diagnosis of Self Aligning Ball Bearing Under Various Speeds & Analysis Misalignments*
- *Micro-channel Fins on Flat Bad Sales Energy Collector*
- *Corrugated Finned Heat Exchanger*
- *Micro-Channel Heat Sink with Different Inlet & Outlet Manifold Flow*
- *Test rig for experimental study on following types of heat exchangers: Double Pipe Heat Exchanger, Shell and Tube Heat Exchanger and Plate Heat Exchanger*

# CAREER OPPORTUNITIES AFTER M.E. MECHANICAL ENGINEERING

- ⊗ Research Scholar in Industrial Labs and Government Sectors like BHEL, NTPC, HAL, IOCL, and DRDO
- ⊗ Junior/Senior Research Fellow (JRF/SRF) in various academic institutes or industries like CSIO
- ⊗ Product Design Engineer
- ⊗ Mechanical Engineer
- ⊗ Controls and Systems Engineer

## OUTSTANDING PLACEMENTS



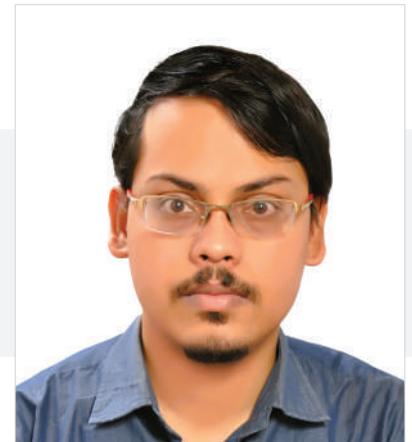
**Mir Muaviz**

**7.5 LPA**



**Khuswant Kaur**

**11 LPA**



**Soumen Panda**

**10 LPA**



## ALUMNI SPEAK



*It gives me an immense pleasure to express my heartiest feeling, being a student of a prestigious Chandigarh University. Beside providing the best infrastructure, hostel facility with hygienic food, and library facilities, the university offers the best opportunities for research and higher studies. I was lucky enough that under the dynamic guidance of Dr. Raman Kumar, I have filed a patent titled "Patient Immobilization Apparatus" which helps the doctors to hold child patients during vaccination and other examinations. I sincerely thank Dr. Raman Kumar for his guidance and other faculty members of ME Department for providing their valuable suggestions for the betterment of my career in the Mechanical Engineering field.*

### Piyush

M. E. Mechanical Engineering (CAD –CAM)



*My two years in ME Mechanical Engineering at Chandigarh University have been excellent and a memory to cherish for a lifetime. The department puts a great emphasis on the career growth of students, and conducts several industrial training programs on a regular basis. They always provide the students with the assistance they need. Chandigarh University is a great platform for practical learning and making students ready for the corporate world. Overall, it was a great learning experience at Chandigarh University.*



### Sukhdeep Singh

CAD/CAM and Robotics



## SCHOLARSHIPS

- For ME Mechanical Engineering, the GATE fellowship of Rs. 12,400 will be applicable up to 10% of the total seats of the program subjected to maximum 10 months in a year.
- Teaching assistantship of Rs. 5,000 to Rs. 8,000 will be applicable to the GATE qualified students beyond the limit of 10 percent for the programs specified above with no capping on seats.
- 15% Early Bird Scholarship will be given to the students who have completed Bachelor's degree from Chandigarh University. 10% Early Bird Scholarship will be given to the students who have completed Bachelor's degree from other Universities.
- Research Assistantship Option for ME students with a stipend of Rs. 5,000/- to Rs. 8,000/- per month subjected to maximum 10 months in a year, is also available.
- Under "EARN WHILE LEARN" Policy, Master of Engineering Students will be given a stipend of Rs. 5,000/- per Month.



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[www.cuchd.in](http://www.cuchd.in)