



Mechanical Engineering Department



<http://www.gbpuat-tech.ac.in>

College of Technology
G. B. Pant University of
Agriculture & Technology
Pantnagar - 263145



Dr. Alaknanda Ashok
Dean, College of Technology

College of Technology is one of the key College of G.B. Pant University of Agriculture & Technology, Pantnagar established in 1962. The College ever since its inception has been undergoing constant transition in terms of infrastructure, course curriculum, degree programmes, recruitment of faculty, students training and placement cell etc. College provides a model curriculum which blends teaching, research and innovation with practical training thus providing ample opportunities to the

students for undertaking UG projects at different stages of the UG program, being the part of G.B.P.U.A.T. engineering students have number of opportunities to carry project work in multi-disciplines like Agriculture, Veterinary, Fisheries etc. which add a distinct edge over other engineering graduates of the country which is incomparable. Likewise, the Induction program for fresher students offers a new dimension to the students for understanding various departments in the Institution as well as University and the facilities being offered.

The face-to-face interaction between students and faculty in the form of **Advisement** creates a strong bond between students and faculty which results in guidance leading to capacity building of the students during their degree programme. The prime objective is to develop budding technocrats possessing multidimensional personality who will be well versatile in various fields apart from technical education bridge gap between classroom studies and practical. Young ignited minds are nurtured and facilitated technically and financially through College as well as University to implement out of box thinking for innovative work in their projects. Special emphasis is also given on inculcating human values along with latest innovations taking place in field of technology. Social programmes are also organized in the campus such as environmental awareness, health and hygiene awareness, literacy awareness etc. through N.S.S./NCC programmes. College also offers opportunities to nurture skills in leadership, team work, technical skills, management skills etc by organizing Trainings, Workshops, Seminars, Colosseums etc annually from time-to-time. The college also possesses a **Central Computing Facility (KNSCCF)** which caters to around 300 + students round the clock and well established Hostels for boarding which are well connected with Wi-Fi.

In Covid-19 situation, College of Technology, Pantnagar took a leaf out of book and this esteemed College initiated Online TEACHING MODE to impart teaching/research guidance and instructions to UG/PG students. Students and Alumni have achieved National and International recognition in

Corporate and Government sectors and have brought laurels to this institution. The Contributions received from Eminent Alumni of College have been hailed by the College and University from time-to-time. To mark this event, an Annual Alumni meet, Pantnagar Alumni Association (PTAA) is scheduled every year in the College wherein Industrial honchos, Scientists, Technocrats, Bureaucrats, Experts etc from various domains in the Industry gather to share their valuable experiences, innovations in the outside world and guidance to the students. The contributions from distinguished alumni and business honchos towards College Development, Infrastructure Development, Student Development and Young Student Talent Award are best examples of affinity and bonding an alumnus possesses with this esteemed College and their endeavour in attaining the goals of this College towards excellence.

The Institution shares the ambience of a lush green, pollution free environment of Asia's First Agricultural University spread in a sprawling area of around 16,000 acres inaugurated by Late Prime Minister Mr. Jawahar Lal Nehru in 1960 as "Uttar Pradesh Agricultural University", Also referred to as **Harbinger of Green Revolution** which can be boasted only by Pantnagar. The University was ranked the '**Best State Agricultural University**' amongst 67 state agricultural Universities of the country at the 91st Foundation day celebrations of the Indian Council of Agricultural Research (ICAR), New Delhi in 2019. The University was also ranked overall third (including ICAR institutions and state agricultural universities) in the country.

Vision:

The vision of College of Technology is to become a nationally recognized leader in Technical Education, Research and Extension.

Mission:

- To produce engineers with the strong education foundation and the adaptive skills to serve rapidly evolving technological industries.
- To conduct nationally recognized technical research focused at providing a technological edge to India, in general, and Uttarakhand in particular.
- To develop appropriate technologies for the upliftment of rural areas of the Uttarakhand.
- To provide a diverse curricula that will instill in our students the imagination, talent, creativity and skills necessary for rapidly changing environment for the modern life and to enable them to serve in a wide variety of other fields that require leadership, teamwork, decision making and problem solving abilities.

DEPARTMENT OF MECHANICAL ENGINEERING

Vision

To become a nationally recognized leader in technical education and research in the field of Mechanical Engineering and capable of making significant contribution to the society.

Mission

M1: To strive for excellence in teaching and research and to promote academic growth by offering state-of-the art facilities to undergraduate and postgraduate programmes.

M2: To generate knowledge by providing cutting-edge research facilities for overall development of students and society.

Program Educational Objectives (PEOs)

PEO1: Produce engineers with the strong fundamentals and adaptive skills to serve existing and evolving industries.

PEO2: Conduct research focussed on providing a technological edge to India in general and Uttarakhand in particular.

PEO3: Develop appropriate technologies for the prosperity of people in rural areas of India.

Program Specific Outcomes (PSOs)

PSO1: Ability to acquire the latest knowledge of engineering principles and managerial skills to prepare for emerging needs of the industry.

PSO2: Ability to inculcate creative thinking to take up challenges in interdisciplinary areas and to provide real-life solutions.

PSO3: Ability to analyze and design useful engineering systems for society.

About Mechanical Engineering Department

The department of Mechanical Engineering at College of Technology G. B. Pant University Agriculture & Technology, Pantnagar offers Mechanical Engineering program at the Bachelor's levels since July 1966. Mechanical Engineering Department is one of the oldest departments and is considered to be one of the highly renowned departments of the College. The department is vibrant and organizes several activities round the year. Its strong and interactive curriculum and hands on learning has the capability of taking the students career to the next level, whether it be in the professional engineering practice or in advanced study. The department, right from its inception has been focusing on quality teaching along with integrated laboratory experience. The department also runs Post Graduate Courses in Thermal Engineering and Design and Production Engineering since 1984. The department started its Ph.D. program in Mechanical Engineering in the year 1985. The Department feels proud of achievements of its alumni, who have excelled in various walks of life.

The number of intake in UG and PG programmes are:

Course Programme	Intake
B. Tech (Mechanical Engineering)	60
M. Tech in Design & Production Engineering	18
M. Tech in Thermal Engineering	18
Ph.D. in Mechanical Engineering	10

The department is one of the largest departments of the college consisting of dynamic, research oriented and well qualified faculty majority having Ph.D. degrees from IIT's, NITs and other reputed institutions. The department has the most modern infrastructure to undertake effective teaching, research and developmental activities in its 23 numbers of laboratories which include Refrigeration and Air conditioning, Gas Dynamics, Heat Transfer, Internal Combustion Engine, Solar Energy, Biomass, Stress Analysis, Kinematics, Tribology, Material Science and Metallurgy along with a big central workshop.

Main Equipments/Research Facilities available in the Department	
25 kN Servo Control Fatigue Testing Machine	Humidity/Environment Chamber
100 /10 kN Universal Testing Machine,	Rotary Particle Depositor and Particle qualifier
Dynamic Mechanical Analysis (DMA) machine	Variable Compression Ratio SI Engine
TGA/DTA machine	Computerized Sensor based SI Engine Test Rig.
EDM Wire cut Machine	ANSYS Software license
Vickers Micro Hardness Tester	Diesel Engine Test Rig.
Wear Friction Machine	Combustion Lab Unit
Digitized Impact Testing Machine	Turbine Test Rig
Metallurgical Microscope	Thermal Imaging Camera
Vibrometer	Micro-manometer

“I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do.” – Leonardo da Vinci

In addition to above equipments, department has well developed Computer Aided Design Laboratory with latest Work Station, Servers, Computers and software.

Facilities available in Computer Aided Design Laboratory	
MATLAB	Lab View
ANSYS	Pro E
EES	Thermo fluid tutor, etc.
NPTI Multimedia CBT learning package	REF-PROP (NIST)

The department has a policy to periodically update the course curriculum in order to fulfill the present day need of the teaching learning process so as to accustom students with a perfect blend of intellectual and practical experiences that helps them to serve the society and address a variety of needs.

Mentoring system to help at individual level

The department has one of the finest mentoring systems, through which department ensures individual attention to each and every student through its **Advisor-Advisory System**. This system is to support the system of student in terms of academic and personal counselling. For a group of 20-20 undergraduate students an advisor is appointed whereas for post graduate level, for each student an advisory committee of three to four faculty members is appointed. The faculty-advisor provides the facility to guide, supervise and monitor the academic performance of his advisees besides helping them in personnel problems. The faculty-advisor also maintains a close contact with parents/guardians of the student. Final year students are provided guidance ill seeking higher education in India and abroad and also the fellowship/scholarship available for these studies through a counselling cell. A staff member helps and guides the final year students in securing admission and fellowship for higher studies.

Self-Learning

- Central library and college library equipped with large number of Books, E-books, Journals, E-Journals etc. provide the opportunity to the students for self learning.
- Central Computing Facility (KNS CCF).
- Language classes (English, French, German, etc.) are available.
- Liberal Education Programme/activities aim at the overall development of the students and provide opportunities to inculcate confidence among themselves. It also aims to develop specific talent and in give opportunities to learn other national and foreign languages. All Programmes running under Liberal Education (French, German, Punjabi, Hindi, Tamil Languages, Personality Development, Physical Fitness and Yoga, Education in Human Values) are non-gradial. Other extracurricular activities are also organised time to time.

Faculties in the Department



Dr. Lokesh Varshney

Designation: Professor & Head

Field of Interests: Solar Energy, Heat Transfer, I.C. Engines

E-mail: lvarshney20@gmail.com, lvarshney@rediffmail.com

Phone No: (M) +91-9457012224



Dr. V.K. Gupta

Designation: Professor

Field of Interests: Automobile and I.C. Engine

E-mail: vk.vk.gupta@gmail.com

Phone No: (R) 05944-234603

(M) +91-8475009777



Dr. Anadi Misra

Designation: Professor

Field of Interests : Dynamics of Machines

E-mail : dranadimisra@gmail.com

Phone No: (R) 05944-233303

(M) +91-9412987010



Dr. Anil Kumar Pratihari

Designation: Professor

Field of Interests: Refrigeration and Air Conditioning

E-mail: akpratihari@gmail.com, akp.fme@gbpuat-tech.ac.in

Phone No: (M) +91-9457012225



Dr. Prakash Chandra Gope

Designation: Professor

Field of Interests: Machine Design, Fatigue & Fracture, Stress Analysis, Finite Element Analysis, Composite Material

E-mail: pcgope@rediffmail.com

Phone No: (R) 05944-233925

(M) +91-9411159916



Dr. Rakesh Saxena

Designation: Professor

Field of Interests : Vibrations, Biomechanics, FEM

E-mail: rs.fme@gbpuat-tech.ac.in

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(M) +91-9411159735



Dr. D.S. Murthy

Designation: Professor

Field of Interests: Heat Transfer, Energy Storage, Wavelets

E-mail dr.dsmurthy@gmail.com

Phone No: (R) 05944-233857
(M) +91-9411324816



Dr. V. K. Singh

Designation: Professor

Field of Interests: Green Composite, Machine Design, Fracture Mechanics

E-mail: vks2319@yahoo.co.in

Phone No: (R) +91-7500241445
(M) +91-9760825833



Dr. Pramod Chandra Tewari

Designation: Associate Professor

Field of Interests: Thermal Engineering, Steam Power Plants, Bio Fuels.

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Phone No: (M) +91-9412419747



Dr. Neeraj Bisht

Designation: Assistant Professor

Field of Interests: Fracture Mechanics, Experimental Stress Analysis

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Phone No: (R) 05944-233059
(M) +91-9760995811



Dr. Prashant Verma

Designation: Assistant Professor

Field of Interests: Thermodynamics, Thermal Science, Solar Energy

E-mail : krishansai777@gmail.com

Phone No: (M) +91-9412191868



Prof. Sonika Chauhan

Designation: Assistant Professor

Field of Interests: Fracture mechanics, Machine Design

E-mail: sonika.chauhan.me@gmail.com

Phone No: (M) +91-7579178377



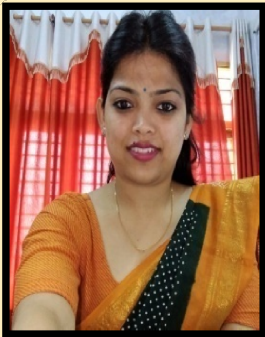
Dr. Susheel Singh Bhandari

Designation: Assistant Professor

Field of Interests: Fluid Mechanics and thermal science, solar energy

E-mail: bhandarisusheel31@gmail.com

Phone No: (M) +91-9410725208



Dr. Sakshi Chauhan

Designation: Assistant Professor,

Field of Interests: Material Science, Composites, Material Characterization, Bone biomechanics

E-mail - sakshichauhan9may@gmail.com

Phone No: (M) +91-9717356652



Prof. Sandeep Gupta

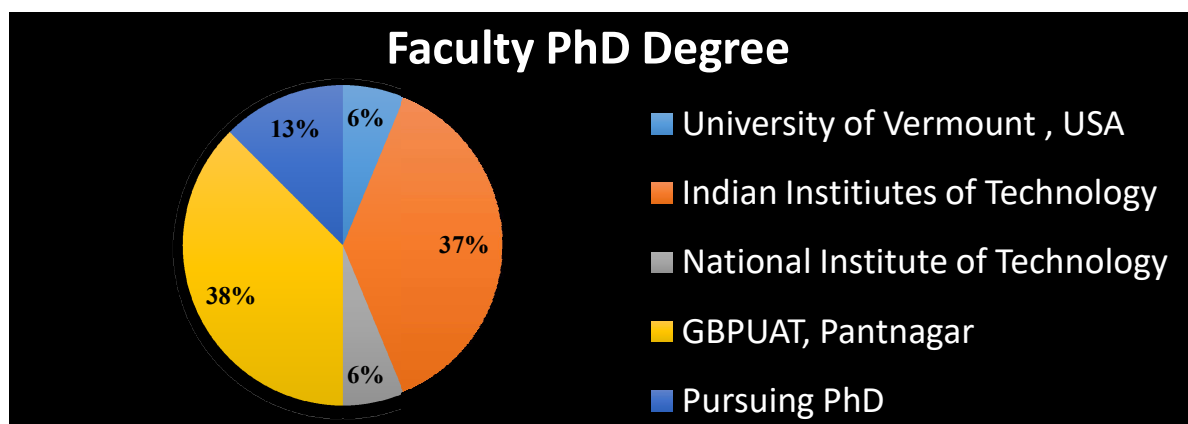
Designation: Assistant Professor (TEQIP Faculty)

Field of Interests: Thermal Science, Heat Transfer, Fluid Mechanics, Energy Science

E-mail - sandeep2114@gmail.com

Phone No: (M) +91-9917113355

Name of the Faculty Member	Qualification			Designation	Date of Joining the Institution
	Degree (highest degree)	University	Year of Graduation		
Dr. Lokesh Varshney (HEAD)	Ph.D	IIT, Roorkee	1983	Professor	07/07/1986
Dr. V.K. Gupta	Ph.D	GBPUAT, Pantnagar	1980	Professor	04/04/1983
Dr. Anadi Misra	Ph.D	GBUPAT, Pantnagar	1986	Professor	01/01/1990
Dr. A.K. Pratihar	Ph.D	IIT, Delhi	1987	Professor	28/06/1991
Dr. P.C. Gope	Ph.D	NIT Jamshedpur	1985	Professor	13/08/1991
Dr. Rakesh Saxena	Ph.D	University of Vermont USA	1981	Professor	26/02/2003
Dr. D.S. Murthy	Ph.D	IIT, Kanpur	1985	Professor	27/06/1991
Dr. V.K. Singh	Ph.D	GBPUAT, Pantnagar	1999	Professor	23/01/2003
Dr. P.C. Tewari	Ph.D	GBPUAT, Pantnagar	1991	Associate Professor	19/12/2003
Dr. Neeraj Bisht	Ph.D	GBPUAT, Pantnagar	2009	Assistant Professor	21/11/2015
Dr. Prashant Verma	Ph.D	GBPUAT, Pantnagar	1997	Assistant Professor	26/11/2015
Ms. Sonika Chauhan	M.Tech	GBPUAT, Pantnagar	2011	Assistant Professor	26/11/2015
Dr. S.S Bhandari	Ph.D	IIT, Kanpur	2004	Assistant Professor	25/12/2015
Dr. Sakshi Chauhan	Ph. D	IIT, Delhi	2011	Assistant Professor	11/01/2016
Mr. Sandeep Gupta	M.Tech	IIT, Roorkee	2009	Assistant Professor	01/09/2018



Non-teaching staff/Technical Manpower Support in the Department			
Name of the technical Staff	Designation	Date of joining	Qualification
Mr. Navneet Sharma	Forman	22/1/2004	Graduation
Mr. Chandra Shekhar	Mechanic	14/12/2006	ITI
Mr. Shailendra Kumar Singh	Jr. Lab. Assistant	27/6/2005	Diploma
Mr. Devansh Pratap Singh	Jr. Lab. Assistant	18/8/2021	Diploma
Mr. Akshay Bhatt	Lab. Attendant	17/8/2021	8 Pass
Mr. Sanjay	Supporting Staff	10/2/2014	-

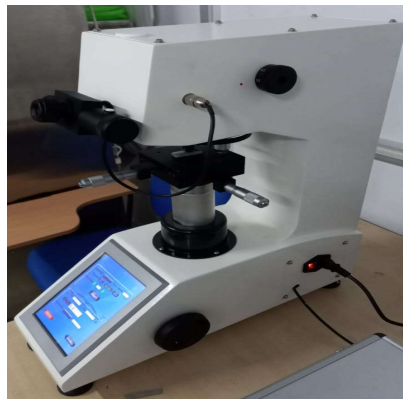
Labs/ Experimental facilities	
1. Dynamics Laboratory	2. Fuel & Combustion Laboratory
3. Material Science Laboratory	4. Steam Power Laboratory
5. Experimental Stress Analysis Laboratory	6. Heat Transfer Laboratory
7. Measurement & Control Laboratory	8. C.A.D. Laboratory
9. Kinematics of Machines Laboratory	10. Thermodynamics Laboratory
11. Tribology & Maintenance Laboratory	12. Machine Shop
13. Machine Drawing Laboratory	14. Carpentry Shop
15. Solar Energy Laboratory	16. Welding Shop
17. Bio-Mass Laboratory	18. Foundry Shop
19. I.C. Engines Laboratory	20. Black Smithy Shop
21. Gas Dynamics Laboratory	22. Fitting Shop
23. Refrigeration & Air Conditioning Laboratory	24. Material Testing & Fracture Mechanics Lab

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Lab/Research facilities



3D Printer



Micro Hardness Tester



Humidity Chamber



**ThermoGravimetry/
Differential Thermal Analyzer
(TG/DTA)**



Universal Testing Machine



Fatigue Testing Machine



Muffle Furnace



Vertical Milling Machine



Vacuum Lab Oven



EDM CNC Wire Cut Machine



Experimental Set-up for Rotating Packed Bed



DMA



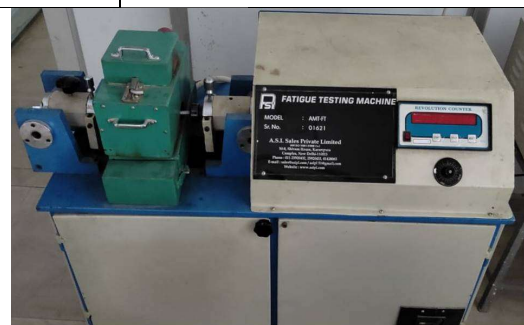
Notch Cutter



Rockwell Hardness Tester



Lathe Machine



Fatigue Testing machine



Heat Pipe Demonstration setup



Pin Fin Apparatus setup



Critical Heat Flux Apparatus



Bar Pendulum Oscillation Apparatus



Vibration setup



LVDT



ANSYS Software



Atal Tinkering Lab Robotic Package-1



Photo Elastic Bench



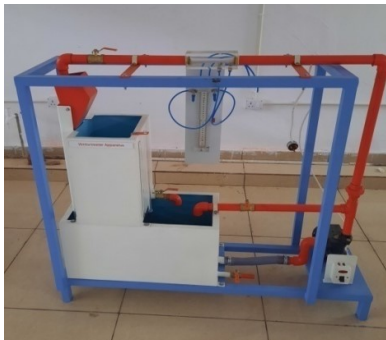
Heat Transfer Lab (Rotating Flow Meter setup)



Heat Transfer Lab (Double Pipe Heat Exchanger setup)



Solar Energy Lab (Thermal Performance of Solar Cooker)



Venturimeter Apparatus



Reynolds apparatus



Pipe friction apparatus



Orificemeter apparatus



Free & Forced vortex set up



Bernoulli's theorem apparatus

“There is nothing I believe more strongly than getting young people interested in science and engineering, for a better tomorrow, for all humankind.” – Bill Nye

List of Sponsored Projects (Completed/Ongoing)

S.No.	Name of Principal Investigator	Title of the Project	Funding Agency	Status	Funds Allotted
1.	Dr. P.C. Gope	Design Innovation Center (DIC)	MHRD	Ongoing	1.11 crore
2.	Dr. D.S. Murthy	“Experimental and Numerical Investigation of Thermal Behavior on Rotating Packed Bed (RPB) - Feasibility Analysis of Process Intensification”	AICTE	Ongoing	20 Lakh
3.	Dr. V. K. Singh	Development of Bio-composite material from Agriculture waste	DST	Completed	1,31,800
4.	Dr. P.C. Gope	Fracture analysis of a rice husk based hybrid bio-composite	TEQIP-II	Completed	60,000
5.	Dr. P.C. Gope	Influence of multiple notches on crack growth and weld strength in aluminum alloy	TEQIP-II	Completed	50,000
6.	Dr. P.C. Gope	The potential of agave americana (Rambans) fibre as a raw material for wood based particle board.	TEQIP-II	Completed	50,000
7.	Dr. V.K. Singh	Development of Coconut Shell Based Bio Composite	Director Research, GBPUAT, Pantnagar	Completed	50,000
8.	Dr. V. K. Singh	Effect of Fire Retardant on the flammability, thermal and mechanical properties of coconut particle composite	TEQIP-II	Completed	50,000
9.	Dr. V. K. Singh	Fabrication of bio-composite by blending natural rubber in epoxy resin to improve toughness	TEQIP-II	Completed	50,000
10.	Dr. V. K. Singh	Fabrication and study of mechanical properties of jute fibre and almond particle reinforced bio-composites	TEQIP-II	Completed	50,000
11.	Dr. Prashant Verma	Numerical and Experimental Study of Melting Performance of a finned Tube in a Shell Latent Heat Thermal Energy Storage System	TEQIP-III	Completed	50,000

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Recent Conferences/Seminars/FDPs/workshops/Expert lectures

1. Organized TEQIP-III sponsored webinar on “**Career opportunities for Mechanical Engineers**” on June 27, 2020
2. Organised an expert lecture on “**Intellectual property rights**” under the auspicious of Azadi Ka Amrit Mahotsav under national Intellectual Property India on 29 April 2022
3. An expert lecture delivered on topic “**Power plant Familiarization**” by Mr. Buddhiraza, deputy Manager BHEL on 27 Jan 2022
4. An expert lecture delivered on topic “**Finite element Method**” by Dr. Kuldeep Panwar, PEA Engineer, General Electric Power India Ltd on 3 march 2022
5. Organized workshop on “**Industry Academia Gap**” diagnosis by Institution of Engineers , Pantnagar Local Center and College of Technology
6. Dr. L. Varshney presented a paper entitled “Performance of a wire mesh packed solar air heater having discreet fins” in the 12th International conference on Thermal Engineering theory and Application (ICTEA 2019) organized by PDP, Gandhinagar Gujrat in collaboration with Ryerson University Toronto, Canada during Feb. 23-26, 2019.
7. Dr. L. Varshney represented college of Technology, Pantnagar in BAJA SAEINDIA 2019 from 23-27 Jan. 2019 at NATRAX Pithampur (M.P)
8. Dr. A. K. Pratihari presented a paper entitled modeling of ice slurry flow through horizontal 90^o elbow bend pipe in the 12th international conference on thermal Engineering and application (ICTEA 2019) organized by PDP, Gandhinagar, Gujrat in collaboration with Ryerson University Toronto, Canada during Feb. 23-26, 2019.
9. Dr. Sakshi Chauhan awarded as 5th Brics young scientist forum under the theme “Brics Partnership of young Scientists and Innovators for science progress and innovative growth”.
10. Delivered an Expert Guest Lecture on “Application of Online Classroom” in the State level Seminar on “Use of I.C.T. in Classroom Practices & Possibilities in Future” organized by District Institute of Education & Training (DIET), U.S. Nagar on 18-19 February 2020.
11. Delivered an Expert Guest Lecture on “Easy way of learning mathematical contents” in the District level Symposium on Easy way of learning mathematical contents organized by District Institute of Education & Training (DIET), U.S. Nagar on 20 February 2020.
12. Dr. L. Varshney delivered lecture on “Application of Solar Energy and Performance enhancement techniques” in MHRD sponsored TEQIP FDP on Green Chemistry from 25.02.2020 to 29.02.2020 at MJPRU Bareilly.
13. Dr. A.K. Pratihari presented a paper entitled experimental and numerical study of freezing time of cylindrical shaped tylose gel” international conference on recent advances in Mechanical engineering (ICRAME 2020) organized by Andhra University of College of engineering Feb. 26-28, 2020.

14. Invited as a Guest Speaker in the Webinar on “Motivational Program” organized by District Institute of Education & Training (DIET), U.S. Nagar on 26 July 2020.
15. Dr. A.K. Pratihar attended the meeting as a member of the faculty board of faculty of Engineering and Technology, MJPU, Bareilly on 05.02.2021.
16. Dr. Neeraj Bisht delivered a keynote lecture in the 3rd international conference (ICEDET-2022) at Shivalik College of Engineering on 22-23 april, 2022.
17. Dr. Sakshi Chauhan delivered a talk on NBA and documentation on 29 July 2022 at College of Technology Pantanagar.

Placements in Mechanical Engineering

University has an independent Directorate of Placement and Counseling, headed by a Director that provides an effective placement services to the passing out students in coordination with the Placement cells and designated counselors of the respective colleges that keeps the students updated with the job requirements and opportunities in various organizations and make them aware of suitable institutions for higher studies in India as well as abroad. For passing out undergraduate students of College of Technology, Placement Cell of that College organizes campus interviews at the college level only.

The Directorate also has state-of-the-art facilities for conducting interviews and group discussions of students by the campiness / agencies visiting for recruitment of students. A well equipped hall with the seating capacity of eighty candidates and multimedia facilities is available along with enough secretariat and technical assistance to manage the various activities in the Directorate. Organizations are welcome to make a pre-placement talk/visit, which provides an opportunity for the organization to showcase their corporate requirement and job profiles. Prospective employers intimate the Director about their human resource requirements in various disciplines running in the University. The Directorate there upon invites the bio-data of interested students and pass on to the prospective employers. A mutually agreed date for holding interviews either at the university campus or employers’ head-quarters is fixed and the candidates are directed accordingly. For interviews held at Pantnagar, the University provides free boarding and lodging facilities to the members of the Selection Committee in the University. Arrangement and facilities for pre-placement talk, written test, group discussions, personal interviews etc. are also made at the Directorate of Placement and Counseling.

The Directorate of Placement and Counseling also coordinates and supports the companies / organizations for the assistance in,

- Liaison with students before the visit
- Display of organizations’ publicity material
- Announcement of the avenues

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- Collection of resumes from the students and forwarding them to organizations
- Delivery of company's communication to the students concerned
- Arrangements for pre-placement talks, written test, group discussions and personal interviews
- Audio Visual facilities for pre-placement talk

Besides recruitment related activities, companies are welcome to visit for academia-industry interface and meet faculty members for exploring new areas of collaboration in research and consultancy projects.

Some Notable Alumni of Mechanical Engineering Department



Sudhanshu Trivedi

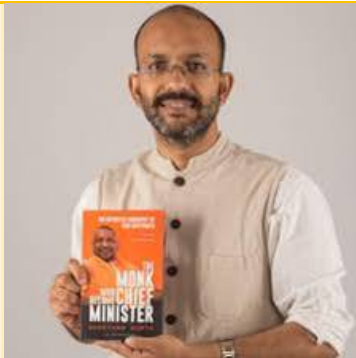
Currently A leader of Bharatiya Janata Party and **Member of Parliament from Upper House Rajya Sabha**. Dr. Trivedi is serving as the National Spokesperson of Bharatiya Janata Party. Having done PhD in Mechanical Engineering he served as a faculty in Mechanical Engineering department in a couple of Indian Universities.



Vineet Nayar

Currently, Nayar serves as a **Senior Advisor to HCL Corporation**. He joined HCL in 1985 after earning his MBA from XLRI. In 1993, he founded Comnet, which grew into a \$1 billion dominant leader in Technology Management business. In 2005, he became President of HCL Technologies and served as the company's CEO from 2007 until January 2013.

He did his bachelor's in mechanical engineering from Govind Ballabh Pant University of Agriculture & Technology and graduated in 1979.



Shantanu Gupta started his career with a CAD/CAM software company in Hyderabad named Intergraph and over the years worked for different organizations like Quark, Geometric Software, Mercedes Benz, Amdocs and Wipro.

Later he left corporate life and started his social sector career with Naandi Foundation, a social media based NGO which acts as a middleman between financial entities and charity projects. Under Naandi, he helped manage projects related to remedial education interventions in Andhra Pradesh, Maharashtra & New Delhi. He also worked with UNICEF for its Integrated District Approach (IDA) project in Bundelkhand, Uttar Pradesh.

	<p>Arun Kumar Tiwari is an Indian missile scientist, author, and professor. He has written several books[1] and co-authored 5 books with Dr. APJ Abdul Kalam, including Wings of Fire, the autobiography of Dr. APJ Abdul Kalam, former president of India. Published in 1999, Wings of Fire has become a modern classic with over 30 reprints selling over a million copies and was translated into 18 languages.</p>
	<p>Sushil Varshney Director / CEO Academy Of Industrial Management. 40 years industrial experience in Plant design, operation, maintenance, training & consultancy. Worked at senior level positions in SAIL-Rourkela, Jindal Stainless, Bhushan Steel, IIPM etc. including as head of maintenance. Has visited and imparted consultancy & training to 95 companies in India & abroad - Qatar, Dubai, Saudi Arabia, Mauritius. Specialties: Expert trainer / consultant on Industrial equipment operations & maintenance.</p>
<p>Mr. P. B. S. Senger (1967 Batch)</p>	<p>Chief System Engineer BARC, Trombay, Mumbai</p>
<p>Mr. K. B. Dubey (1969 Batch)</p>	<p>Executive Director- Hydro NTPC</p>
<p>Mr. Nishish S. Jha (1974 Batch)</p>	<p>Sr. General Manager (Operations) HCL Infosys, Canada</p>
<p>Mr. P. K. Chaudhary (1974 Batch)</p>	<p>Regional Manager Blue Star Ltd., Gurgaon</p>
<p>Dr. Kailash C. Karki (1978 Batch)</p>	<p>Vice President, Research & Technology Innovative Research Co, USA, NASA</p>
<p>Dr. Mridul Gautam (1978 Batch)</p>	<p>Professor West Virginia University</p>
	<p>Tripti Bhatt is an IPS Officer. She did her bachelor's in mechanical engineering from College of Technology, GBPUAT-Pantnagar and graduated in 2010. Tripti Bhatt has secured 165 rank in CSE 2012 in her first attempt.</p>

“I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do.” – Leonardo da Vinci



Apurva Pandey is an **IAS Officer**. She did her bachelor's in mechanical engineering from College of Technology, GBPUAT-Pantnagar and graduated in 2016. **Apurva Pandey has secured 39th rank in CSE 2017.**



Arpit Chauhan is an **IAS Officer**. He did his bachelor's in mechanical engineering from College of Technology, GBPUAT-Pantnagar and graduated in 2019. **Arpit Chauhan has secured 20th rank in CSE 2021.**

Prior to this, he had been also selected for the Indian Defence Account Service in UPSC 2020 after securing AIR 297.



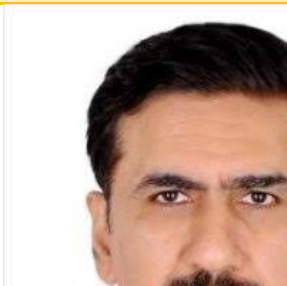
Sangi Pateriya qualified UPSC 2021. She did her bachelor's in mechanical engineering from College of Technology, GBPUAT-Pantnagar and graduated in 2018.



Vaibhav Joshi is working as a Scientist in ISRO. He did his bachelor's in mechanical engineering from College of Technology, GBPUAT- Pantnagar and graduated in 2018.



Bipin Tiwari scored AIR-7 in GATE-2022. Currently serving in Nuclear Power Corporation of India Limited (NPCIL). He did his bachelor's in mechanical engineering from College of Technology, GBPUAT- Pantnagar and graduated in 2022.



**Vibhu Nayar, IAS
Batch-1990**



**Nitin Kurain, IRS
Batch-2014**



**Raveesh Gupta, IAS
Batch-2012**

Placement Record of Mechanical Engineering Students 2019-2022

2018-2022 batch				
Name	Id No	Gender	Branch	Company Name
1. Abhidha Rawat	53692	F	ME	Titan Watches Divison
2. Abhigya Rawat	53693	F	ME	Titan Watches Divison
3. Aditi Rawat	53697	F	ME	ITC Ltd
4. Alok Mishra	53699	M	ME	Larsen & Toubro
5. Anjali Arora	53701	F	ME	Hero Motocorp
6. Ayush Tiwari	53704	M	ME	Larsen & Toubro
7. Bipin Tiwari	53705	M	ME	Escorts
8. Chiranjeev Tripathi	53706	M	ME	Larsen & Toubro
9. Dhananjay	53707	M	ME	Larsen & Toubro
10. Harsh Vardhan Singh Aswal	53708	M	ME	Suzuki Motors Gujarat
11. Harshit Kumar	53709	M	ME	Suzuki Motors Gujarat
12. Mohit Nagpal	53715	M	ME	Hero Motocorp
13. Nachiketa Pandey	53716	M	ME	Samsung Engineering India
14. Naman Kapoor	53717	M	ME	Tata Steel
15. Nidhi	53718	F	ME	Suzuki Motors Gujrat
16. Premjeet Kaur	53721	F	ME	E T Media Labs Pvt Ltd/ Tata Steel
17. Rahul Kabdwal	53723	M	ME	Byju's / Tata Steel
18. Rajat Nautiyal	53724	M	ME	Larsen & Toubro
19. Rakshit Kumar	53725	M	ME	Suzuki Motors Gujarat
20. Rupansh Joshi	53727	M	ME	E T Media Labs Pvt Ltd
21. Satakshi Rawat	53730	F	ME	Escorts
22. Saurav kharola	53731	M	ME	Suzuki Motors Gujarat
23. Shashi Bhaskar	53732	F	ME	Suzuki Motors Gujarat
24. Shubham Singh	53734	M	ME	Larsen & Toubro
25. Tanu Bisht	53736	F	ME	Hero Motocorp
26. Vanshaj Mishra	53737	M	ME	Larsen & Toubro
27. Vinay Karakoti	53738	M	ME	Byju's

2017-2021 batch				
Name	Id No	Gender	Branch	Company Name
1. Mayank Kumar	52294	M	ME	On-Graph Technologies Pvt. Lt
2. Manmohan Joshi	52292	M	ME	Sunmax Auto Engineering Pvt. Ltd.
3. Sneha Sahu	52313	F	ME	CAFAL ADVISORS
4. Akshit Raturi	52278	M	ME	Accenture
5. Himanshu Pant	52287	M	ME	Hero Moto Corp
6. Sakshi Dwivedi	52302	F	ME	Hero Moto Corp
7. Vivek juyal	53747	M	ME	Escorts
8. Samridhi Bahuguna	52303	F	ME	Hero Moto Corp
9. Vaishali Matiyani	52315	F	ME	Hero Moto Corp

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2016-2020 batch				
Name	Id No	Gender	Branch	Company Name
1. Pranjal Barthwal	50466	M	ME	Hero Moto corp Ltd
2. Pranav Bhardwaj	50712	M	ME	CHEGG INDIA
3. Deepak Pathak	50693	M	ME	Tata Motors
4. Byomita Tewari	50700	F	ME	Whirlpool
5. Ravi Rana	50390	M	ME	Tata Motors
6. Sprika Gaur	50725	F	ME	Suzuki Gujrat Motors Ltd
7. Saurabh Bisht	50741	M	ME	PRADAN
8. Krisha Bhatia	50696	F	ME	TCS / Global logic
9. Sachit Bhat	50718	M	ME	PRADAN

2015-2019 batch				
Name	Id No	Gender	Branch	Company Name
1. Anuj Kumar Rajput	48834	M	ME	Denso
2. Vivek Pandey	48963	M	ME	DENSO Haryana Pvt. Ltd
3. Shivam Kumar Prajapati	49161	M	ME	ET Medialabs
4. Aprajita Rana	49164	F	ME	Hero motocorp
5. Rashmi Rama Sushil	49166	F	ME	Hero motocorp
6. Divyansh Rajvanshi	49172	M	ME	Escorts
7. Aarju Rastogi	49174	F	ME	Hero motocorp
8. Aditya Koshta	49179	M	ME	ET Medialabs
9. Kanha Joshi	49183	M	ME	Escorts
10. Oojus Chaudhary	49184	M	ME	Udaan
11. Rishabh Kuriyal	49186	M	ME	ET Medialabs
12. Lakhvinder Singh	49200	M	ME	Udaan
13. Puneet Kakkar	49204	M	ME	Escorts
14. Swati Pathak	49205	F	ME	Hero motocorp
15. Prakhar Tonk	49206	M	ME	Escorts
16. Gaurav Joshi	49232	M	ME	Udaan
17. Pranay Pandey	49234	M	ME	Escorts
18. Rajat Joshi	49266	M	ME	TCS

“There is nothing I believe more strongly than getting young people interested in science and engineering, for a better tomorrow, for all humankind.” – Bill Nye

Performance of Mechanical Engineering Students in Competitive Exams 2019-2022

2018-2022 batch				
Name	ID No	Gender	Branch	Exams Name (GATE/CAT/GRE etc)
1. Abhidha Rawat	53692	F	ME	AFCAT
2. Abhigya Rawat	53693	F	ME	AFCAT
3. Alok Mishra	53699	M	ME	GATE
4. Ashish Kalsun	53702	M	ME	GATE
5. Bipin Tiwari	53705	M	ME	GATE
6. Pratyaksh Painuly	53720	M	ME	GATE
7. Rakshit Kumar	53725	M	ME	GATE
8. Raman Kumar Saini	53726	M	ME	GATE
9. Shreya Singh	53733	F	ME	UPSC Pre exam
10. Tanishq Anthwal	53735	M	ME	GATE
11. Vinay Karakoti	53738	M	ME	GATE

2017-2021 batch				
Name	ID No	Gender	Branch	Exams Name (GATE/CAT/GRE etc)
1. Akshit Raturi	52278	M	ME	CAT
2. Mayank Kumar	52294	M	ME	GATE
3. Vinay Joshi	52317	M	ME	GATE
4. Himanshu Pant	52287	M	ME	GATE
5. Gajendra Singh Tanwal	52282	M	ME	CAT
6. Akshit Raturi	52278	M	ME	CAT
7. Vivek Juyal	53747	M	ME	GATE
8. Visheshank Rana	52318	M	ME	GATE
9. Gajendra Singh Tanwal	52282	M	ME	GATE
10. Himanshu Thakrey	52288	M	ME	GRE
11. Gursimran Singh Dhillon	52284	M	ME	GATE

2016-2020 batch				
Name	ID No	Gender	Branch	Exams Name (GATE/CAT/GRE etc)
1. Shivam Kala	50534	M	ME	CAT
2. Neeraj Joshi	52328	M	ME	GATE
3. Akshita Amarpuri	50342	F	ME	GATE
4. Kalpana Pandey	50698	F	ME	GATE

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2016-2020 batch

Name	ID No	Gender	Branch	Exams Name (GATE/CAT/GRE etc)
5. Santosh Kumar	50723	M	ME	GATE
6. Kuldeep Kaira	50382	M	ME	GATE
7. Jyoti Patwal	50691	F	ME	GATE
8. Ayush Bhatt	50709	M	ME	GATE
9. Abhishek Singh	50703	M	ME	GATE
10. Gaurav Pawar Daksh	50694	M	ME	GRE
11. Sprika Gaur	50725	F	ME	GRE

2015-2019 batch

Name	Id No	Gender	Branch	Exams Name (GATE/CAT/GRE etc)
1. Anuj Kumar Rajput	48834	M	ME	GATE
2. Vivek Pandey	48963	M	ME	GATE
3. Ravi Joshi	49030	M	ME	GATE
4. Shivam Kumar Prajapati	49161	M	ME	GATE
5. Mayank Sharma	49162	M	ME	GATE
6. Rashmi Rama Sushil	49166	F	ME	GATE
7. Gunjan Pandey	49170	F	ME	GATE
8. Divyansh Rajvanshi	49172	M	ME	GATE
9. Ayush Jain	49177	M	ME	GATE
10. Avantika Rautela	49187	F	ME	GATE
11. Lalit Mohan Arya	49188	M	ME	GATE
12. Kuldeep Gairola	49189	M	ME	GATE
13. Devendra Singh	49190	M	ME	GATE
14. Rohit Kumar	49192	M	ME	GATE
15. Gunjan Khanayat	49196	F	ME	GATE
16. Kamal Kaphaltia	49197	M	ME	GATE
17. Rajendra Kumar	49199	M	ME	GATE
18. Lakhvinder Singh	49200	M	ME	GATE
19. Ranjeet Kumar	49209	M	ME	GATE
20. Manish Rana	49212	M	ME	GATE
21. Lav Kumar Sharma	49215	M	ME	GATE
22. Gaurav Joshi	49232	M	ME	GATE
23. Tabrej Alam	50735	M	ME	GATE
24. Km. Laxmi	50736	F	ME	GATE
25. Isha Singh	49169	F	ME	GRE
26. Prakhar Tonk	49206	M	ME	GRE
27. Oojus Chaudhary	49184	M	ME	CAT
28. Puneet Kakkar	49204	M	ME	CAT
29. Hitesh Ranjan	49213	M	ME	CAT

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Glimpses of Student Activities



Annual technical fest-Technozarre

SAEINDIA COT COLLEGIATE CLUB & MUNDUS TECHNOLOGY PVT.LTD
PRESENT

AN INTERACTIVE WORKSHOP ON
VEHICLE DYNAMICS

DATE: 6-7 APRIL, 2019
TIME: 9 AM ONWARDS
VENUE: 114BN NCT

Certificate of merit to all students from Mundus Technology Pvt. Ltd.




SWATI PATHAK (CHAIRPERSON)

<https://technoastus.co.in>

CONTACT INFO:
PRINCE RAJ-9568102855
KARTIKY KOTNALA-976068445

Mail us at : saeindiacot12@gmail.com
Register with us at our website : saeindiacot12.com

Workshop on vehicle dynamics in association with MUNDUS TECHNOLOGY PVT. LTD. was organised wherein students learned automotive parts and their assembly and engine simulation with the help of softwares like LOTUS, SHARK and SolidWorks.

TEQIP-III, COLLEGE OF TECHNOLOGY, PANTNAGAR & COLOSSEUM 2019



PRESENTS
Autoqueria
"UNLEASH YOUR AUTOPASSION"

COORDINATOR
SWATI PATHAK
7500680448

CO-COORDINATOR
PRINCE RAJ
9568102855

[/saeindiacotcollegiateclub](https://saeindiacotcollegiateclub) www.gbpuat-tech.ac.in/SAE saeindiacot12@gmail.com

“AUTOQUERIA” organised at college level in Annual Fest “Colosseum”



Supra 2022



Events Organized by MECH CHAP in COLOSSEUM



Glimpses of MECHANICAL PREMIER LEAGUE (MPL)



Extra Curricular Activities

Kabaddi

“I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do.” – Leonardo da Vinci



Badminton



Athletic Meet



Volunteers of NSS- Mechanical Engineering Unit performing Nukkad on "Nasha Mukti" theme



Volunteers of NSS- Mechanical Engineering Unit teaching underprivileged children of Sanjay Colony, Pantnagar

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PROGRAM OUTCOMES

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the **engineering and management principles and apply these to one's own work, as a member and leader** in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



MECH CHAP presents

APTITUDE TEST

GROUP DISCUSSION

PERSONAL INTERVIEW AND MUCH MORE...

DESTINABLE '19

MENT DRIVE

VENUE 114 BN, NCT

CHAIRPERSON
OOJUS CHAUDHARY



MECH CHAP

MECHANICAL PREMIER LEAGUE

20 Nov 2019 ONWARDS

CHAIRPERSON
SAURABH BISHOP

JUNKYARD WARS

LEASH THE JUNKIE IN YOU

Event Sponsored By TEQIP-3

VENUE:
DATE: 3
TIME: 9 AM



Designed By:
Sonika Chauhan
 Assistant Professor
 Mechanical Engineering Department
 COT, GBPUAT-Pantnagar.