

The background image shows a student in a workshop setting, wearing safety glasses and a blue apron, focused on working on a mechanical assembly. The assembly is mounted on a metal frame and includes various components like gears, belts, and electronic parts. Several large, open-end wrenches are hanging on the wall in the background, and a few are visible in the foreground, creating a sense of a well-equipped engineering environment.

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YANTHROHAM

DEPARTMENT OF MECHANICAL ENGINEERING
GLOBAL ACADEMY OF TECHNOLOGY

MECHANICAL ENGINEERING



ABOUT THE DEPARTMENT

Mechanical Engineering is one of the broadest and the most versatile engineering profession finding its application in all fields of technology. The boost in the manufacturing sector has raised the demand for Mechanical Engineers exponentially.

The uniqueness of the discipline incorporates skills and expertise in the areas of Design, Manufacturing, Mechanics and Thermal sciences besides inter-disciplinary subjects that are essential to most sectors of industry. The educational objective of ME@GAT with intake of 120 students is to prepare students to successfully establish themselves in professional careers, innovate and exercise leadership in their positions to the benefit of society.

Our Vision

Become one of the leading providers of education in mechanical engineering with emphasis on research, development, and innovation for the benefit of society.

Our Mission

- Impart quality technical education in the field of mechanical engineering through excellent teaching-learning process, modern infrastructure, and computing tools
- Prepare students for successful careers by providing placements and encouraging research, development, and innovation through industry-institute interaction
- Instill professional ethics and environmental consciousness amongst students through inclusive development programs

HOD MESSAGE



Dr. Bharat Vinjamuri

Dear Students, Faculty, and Mechanical Engineering Enthusiasts,

We are thrilled to highlight recent accomplishments and ongoing initiatives in the Mechanical Engineering Department at the Global Academy of Technology. Our department is equipped with state-of-the-art laboratories, including CNC technology, 3D Printing, and Automation through Hydraulics and Pneumatics, providing students with hands-on experience that aligns seamlessly with industry standards.

In collaboration with Toyota Boshoku Automotive India Pvt. Ltd., we have established a Center of Excellence in Automotive Technology, offering our students invaluable industry exposure. Additionally, our AICTE-funded R&D center is making significant strides in advancing mechanical engineering knowledge and applications.

Our dedicated faculty members, with 70% holding doctoral degrees, mentor students toward success in various industries. Our graduates excel in core engineering fields at organizations such as BOSCH, TATA, Toyota, ACE Micromatic, Tech Mahindra, and Collins Aerospace, as well as in leading IT companies like TCS, Wipro, Deloitte, Infosys, and Capgemini. Many of our students are also pioneering in specialized areas like Robotics, Additive Manufacturing, Material Technology, and Automation, contributing to the forefront of technological innovation.

Our commitment to nurturing the next generation of Mechanical Engineers remains strong as we continue to prioritize excellence in education, research, and innovation.

Best regards,

Head, Department of Mechanical Engineering
Global Academy of Technology

STUDENT FORUM



FUMES – Forum of United Mechanical Engineering Students

Under the esteemed forum FUMES (Forum of United Mechanical Engineering Students), we are thrilled to announce the establishment of three dynamic clubs designed to foster innovation, standardization, and personal growth:

BUREAU OF INDIAN STANDARDS (BIS) CLUB

On May 27, 2024, the Standards Club organized a highly successful BIS Orientation and Standards Writing Competition. This event was a fantastic opportunity for students to engage with industry standards and gain valuable insights into standards creation and implementation. A total of 59 enthusiastic students, all members of the Standards Club, actively participated in the event. The event was guided by Mr. Mohan Kumar P.N., a distinguished Resource Team Member from BIS, who shared his expertise and provided invaluable mentorship to the participants. Top performed students were felicitated with cash awards, acknowledging their hard work





INNOVATIVE ROBOTICS CLUB (IRA)

Innovative Robotics Club, a hub for aspiring roboticists to explore, create, and innovate in the ever-evolving field of robotics was inaugurated on 27th May 2024. This initiative was done in association with NEWRRO Technologies and is dedicated to advancing students' knowledge and hands-on experience in the field of robotics.



LIFE SKILL ENHANCEMENT CLUB

Focused on the holistic development of our students, this club aims to equip them with essential life skills that go beyond the classroom and into real-world success.

Short pitch winners under the forum FUMES



VALUE ADDED PROGRAM

‘INTRODUCTION TO MATLAB FOR MECHANICAL ENGINEERS’

5-day value added program was conducted between 25/06/2024 to 29/06/2024 to the 6th Sem students. The program was inaugurated by esteemed guest Mr. Rakshit B. S. of CoreEL Technologies. The program included sessions on Vibrations, Matrix operations, visualizations and Hands-on session solving simple problems on MATLAB and Simulink. This program helped students to acquire knowledge about MATLAB and SIMULINK tool applied to industrial problems.



EXPLORING MATERIALS THROUGH COMPREHENSIVE CHARACTERIZATION

5-day value added program was conducted between 25/06/2024 to 29/06/2024 to the 4th Sem students. The program was inaugurated by esteemed guest Dr. Sethuram D, Professor, Department of Mechanical Engineering, PES University, Bengaluru. Resource persons include Akshatha Venkatesha working as Research Engineer @ ola electric Battery innovation centre, Bengaluru, Karnataka, India.

The objective of the program was to have fundamental understanding of the basic principles of material characterization, Hands-On experience with characterization techniques, develop skills to interpret material properties and data, enhance the ability to select suitable materials for specific applications and foster innovation in material application and research.



KSCST FUNDED PROJECTS

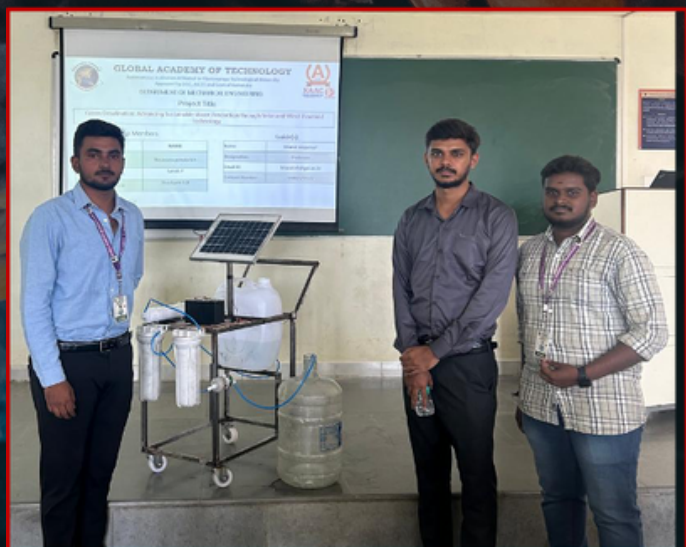
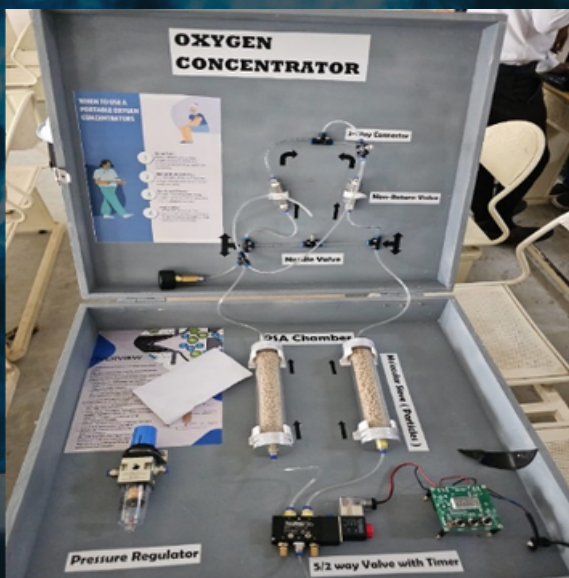
THE FOLLOWING PROJECT WORKS WERE APPROVED BY KSCST FOR FUNDING FROM GOVT. OF KARNATAKA

Slno .	USN	Name of the batch	Guided by Dr.Bharat V	<u>Title of the work</u> Green Desalination: Advancing sustainable water Production through Solar and wind - powered Technology
1	1GA21ME420	SHASHANK S D		
2	1GA21ME418	SATISH P		
3	1GA21ME400	BASAVANAGOWDA B Y		

The Following Project works were approved by KSCST for funding from Govt. of Karnataka

Slno .	USN	Name of the batch	Guided by Dr.Shreekala N	<u>Title of the work</u> Fabrication of low cost portable oxygen concentrator using pressure swing adsorption technique
1	1GA20ME025	SAAHIL S PAWAR		
2	1GA20ME030	SWARUP SANTHOSH M		
3	1GA20ME027	SHREYAS M		

The above said project got selected for state level poster presentation and exhibition held at Sharanabasava University, Kalburgi on 9th and 10th August.



SKILL ENHANCEMENT SESSIONS

Skill enhancement sessions for mechanical engineering students were organized to provide practical knowledge and experience that complements their academic studies. These sessions were aimed to equip students with industry-relevant skills, improve their problem-solving capabilities, and foster innovation in the field of mechanical engineering.

Skill enhancement sessions organized for the 6th semester students to equip them with the required knowledge are shown below.



Speaker: Rahul Sreekumar

Regional Director

MANYA-The Princeton Review

Bangalore

Topic: Career building & Profile building for higher studies abroad

Date: 21-05-2024

Speaker: Dr. V. Ravi kumar
Associate Professor
Mechanical Engineering
GAT, Bangalore Topic: Enable the students to identify and execute product-based Projects
Date: 25-05-2024



Speaker: Mr. Ajay

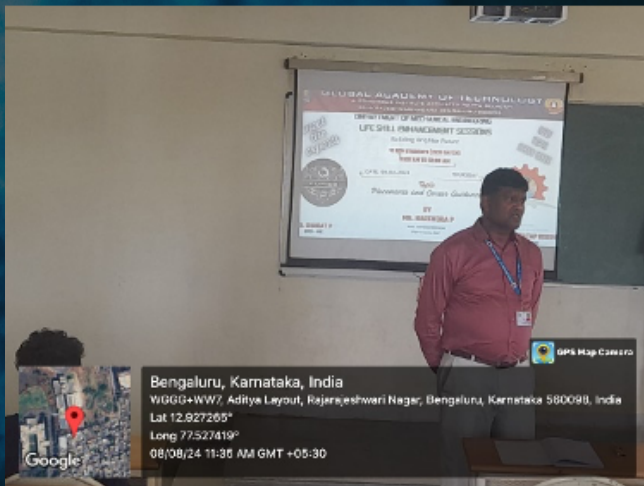
LMS, Bangalore Topic:

Unlocking the achievements opportunities abroad Date: 10-06-2024

Speaker: Dr. Bharat V.
Professor & HoD, ME
GAT, Bangalore

Topic: 'Resume Building & Social
Networking'

Date: 12-07-2024



Speaker: Mr. Narendra.P
Asst General Manager
Placements, GAT
Bengaluru

Topic: 'Placements and career guidance'

Date: 08-08-2024

Below are the Skill enhancement sessions organized for the 4th semester students to equip them with the required knowledge.



Speaker: Dr. G. R. Gurunagendra
Associate Professor, Dept of ME,
GAT, Bangalore

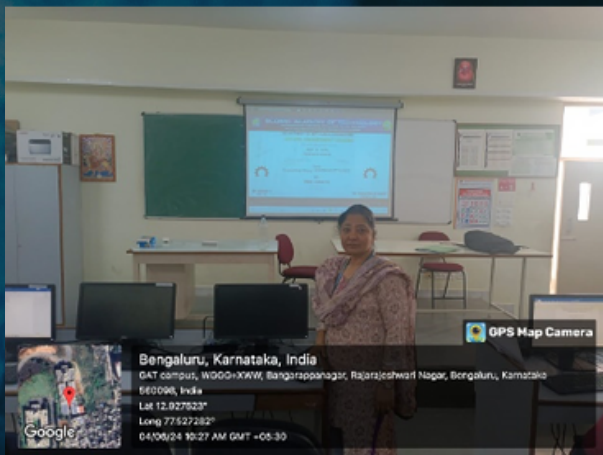
Topic: 'Entrepreneurship Awareness'

Date: 20/05/2024

Speaker: Dr. Bharat V.
Professor & HoD, ME
GAT, Bangalore

Topic: 'Profile Building & Social
Networking using LinkedIn'

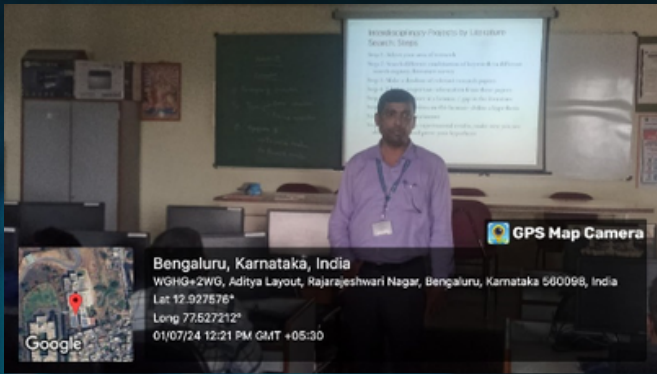
Date: 24/05/2024



Speaker: Mrs. Asha P B.
Assistant Professor,
Dept of ME, GAT, Bangalore
Topic: 'Formatting using Microsoft Word'
Date: 04/06/2024

Speaker: Dr. Roshan Joy Martis.
Associate Professor,
Dept of CSE, GAT, Bangalore
Topic: 'Writing Conference
Papers'
Date: 11/06/2024





Speaker: Dr. Roshan Joy Martis.

Associate Professor,

Dept of CSE, GAT, Bangalore

Topic: 'Hands-on Session on Literature Search'

Date: 1/07/2024

Speaker: Mr. Kiran R.

Assistant Professor,

Dept of ME, GAT, Bangalore

Topic: 'Vocabulary Enhancement through speaking skills'

Date: 05/07/2024 & 09/07/2024



Speaker: Mrs. Asha P B.

Assistant Professor,

Dept of ME, GAT, Bangalore

Topic: Basics of Excel

Date: 01/08/2024



MINI PROJECT EXHIBITION

The Mini Project Exhibition was conducted by the Department of Mechanical Engineering to provide students with an excellent platform to showcase their creativity, innovation, and technical skills. This event encouraged students to apply theoretical knowledge to practical, real-world engineering problems through small-scale projects. It served as a valuable opportunity for students to demonstrate their understanding of design, fabrication, and problem-solving while gaining hands-on experience with various mechanical systems.



INDUSTRIAL VISIT



A batch of III sem Mechanical Engineering students of Global Academy of Technology along with faculty in charge Dr. V Ravikumar and Mr. X Francis staff member visited Alliage metal castings Foundry on 05th January 2024.

An Industrial visit to Alliage Metal Castings Private Limited

An Industrial visit to Hindustan Aeronautics Limited (HAL) Foundry and Forging Division



A batch of V sem Mechanical Engineering students of Global Academy of Technology along with faculty in charge Dr. G R Gurunagendra and Mr. Hanumanthu staff member visited HAL Foundry and Forging Division on 05/01/2024.

An Industrial visit to Central Manufacturing Technology Institute (CMTI)



A BATCH OF IV SEM MECHANICAL ENGINEERING STUDENTS OF GLOBAL ACADEMY OF TECHNOLOGY ALONG WITH FACULTY MR. POORNACHANDRA AND DR. V. RAVIKUMAR VISITED CMTI YESVANTHPUR ON 27/06/2024.

STUDENTS ACHIEVEMENTS



Mr. Naveen V of 7th Sem won the VTU state level Men's Wrestling competition on 20th Nov 2023.

Janny Vasanth of 2nd Sem participated in 23rd VTU youth festival BLISSBEAT – 2024 held at SJC Institute of Technology during March 27-30, 2024



Janny Vasanth won 1st prize in Instrumental solo during the INTERACT2K24

STUDENTS PLACEMENTS

The list of the students placed in reputed companies during placement drive is shown below.

Sl.No.	Name	Company placed
1	ADITYA SURESH	M. S. Enterprises
2	BHARATH GOWDA N	Shakti Precision Components (INDIA) Pvt. Ltd.
3	NAVEEN M	Scalexuss Aero Solutions
4	TARUN P	Bosch Ltd
5	ULHAS N	Alliage Metal Castings Pvt. Ltd.
6	VIVEK R	Scalexuss Aero Solutions
7	BASAVANA GOWDA B Y	Scalexuss Aero Solutions
8	BASAVANAGOWDA GG	MAC Machine Tools & Automation
9	GOVINDARAJU SL	Scalexuss Aero Solutions
10	HARISH GOWDA M	Shakti Precision Components (INDIA) Pvt. Ltd.
11	HARISH T	Shakti Precision Components (INDIA) Pvt. Ltd.
12	KALYAN RAO M	Scalexuss Aero Solutions
13	LIKHITH RAO KS	Scalexuss Aero Solutions
14	MANU R	Shakti Precision Components (INDIA) Pvt. Ltd.
15	NAVEEN KUMAR A D	Scalexuss Aero Solutions
16	NAVEEN V	ENCON Engineering Solutions
17	PUNEETH GOWDA R	Shakti Precision Components (INDIA) Pvt. Ltd.
18	SATISH P	Shakti Precision Components (INDIA) Pvt. Ltd.
19	SHASHANK.H	Scalexuss Aero Solutions
20	VARUN S	Scalexuss Aero Solutions
21	VIKAS R	Scalexuss Aero Solutions
22	YESHWANT B N	Matrix Solutions Pvt. Ltd
23	ANANYA S	Bharat Fritz Werner Ltd. (BFW)
24	ANJALI V	TIMKEN
25	MOHITHA DIWAKAR	Bharat Fritz Werner Ltd. (BFW)
26	SURAKSHA S	Bharat Fritz Werner Ltd. (BFW)
27	DILEEP KUMAR L	247 Digitize Services Pvt Ltd.
28	GAUTHAM SINDHYA M V	TENNECO
29	YASHWANTH M S	DIFACTO Robotics and Automation

"ಹಸಿರೇ ಉಸಿರಾಗಲಿ"

ಗಾಳಿಯ ಶುದ್ಧತೆ ಇಲ್ಲದೆ ಪಡದೇವು ಉಸಿರಾಟದ ಸಮಸ್ಯೆ
ಅರಣ್ಯ ವಿನಾಶದಿಂದ ಆಗಿದೆ ವಾತಾವರಣದ ಅವ್ಯವಸ್ಥೆ I
ಪರಿಸರ ದಿನದ ಆಚರಣೆ ಸೀಮಿತವಾಯಿತು ದಿನಕ್ಕೆ
ಒಲವಿಲ್ಲದೆ ವಿಫಲವಾಯಿತು ಇಂದಿನ ಪೀಳಿಗೆ II

ಅಂದಿನ ದಿನ, ಬಂಜರು ಭೂಮಿಯೂ ಅಭಯಾರಣ್ಯವು
ಇಂದಿನ ವ್ಯಥೆ, ವರ್ಣಚಿತ್ರಗಳಾಗಿದೆ ಅಭಯಾರಣ್ಯವು I
ಮಾನವ ದುರಾಸೆಗೆ ಅಳಿವಿನಂಚಿನಲ್ಲಿದೆ ಪ್ರಾಣಿ ಪಕ್ಷಿಗಳ ಬಾಳು
ಎಲ್ಲಿಗೆ ಬಂದು ನಿಂತಿದೆ ನೋಡು ಮಾನವ ಕುಲದ ಬಾಳು II

ಕಾಡಿದ್ದರೆ ನಾಡು, ನಾಡಿದ್ದರೆ ನಾವು, ಇದು ಪರಿಸರದ ಮಂತ್ರ
ಹಸಿರೇ ಉಸಿರು ಆಗಲಿ ನಮ್ಮ ಬದುಕಿನ ಮಂತ್ರ I
ಸಸಿಗಳ ನೆಟ್ಟಿ ಪ್ರೋಷಣೆ ಮಾಡೋಣ
ಆರೋಗ್ಯಕರ ಗಾಳಿ ಸವಿಯೋಣ II

ಗುಡ್ಡ ಬೆಟ್ಟಗಳಲ್ಲಿ ವನ್ಯಜೀವಿಗಳು ಇರಲಿ
ಎಲ್ಲೆನ್ನೋಡಿದರಲ್ಲಿ ಗಿಡಮರಗಳು ಕಾಣಲಿ I
ಪ್ರಕೃತಿ ಸುಂದರ ನೋಟವೇ ಚೆಂದ
ಪಕ್ಷಿಗಳ ಕುಣಿದಾಟವೇ ಅಂದ II

ಯಂತ್ರವ, ಪರಿಸರ ಸಂರಕ್ಷಣೆಗೆ ಬಳಸೋಣ
ಗ್ರಾಮಾಭಿವೃದ್ಧಿ ಯೋಜನೆ ಪಾಲಿಸೋಣ I
ಸ್ವಚ್ಛ ಸುಂದರ ದೇಶವ ಕಟ್ಟೋಣ
ಅದಕ್ಕಾಗಿ ನಾವೆಲ್ಲರೂ ಜೊತೆಗೂಡೋಣ II

- ಡಾ. ರಾಜೇಶ್ ಆರ್,
ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು
ಯಾಂತ್ರಿಕ ವಿಭಾಗ
ಗ್ಲೋಬಲ್ ಆಕಾಡೆಮಿ ಆಫ್ ಟೆಕ್ನಾಲಜಿ
ಬೆಂಗಳೂರು -೫೬೦೦೯೮

YANTHROHAM

FACULTY CO-ORDINATOR

DR. SHREEKALA N

STUDENT CO-ORDINATOR

S PRAJEETH YADAV

JANNY VASANTH M S

DEPARTMENT OF MECHANICAL ENGINEERING

GLOBAL ACADEMY OF TECHNOLOGY