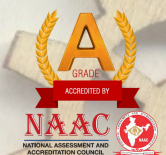


MAGAZINE 2025 - 26

YANTHROHAM



**DEPARTMENT OF MECHANICAL ENGINEERING
GLOBAL ACADEMY OF TECHNOLOGY**



ABOUT THE DEPARTMENT

MECHANICAL ENGINEERING



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 60 students is to prepare students to successfully establish themselves in professional careers, innovate and exercise leadership in their positions to the benefit of society.

VISION

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

MISSION

M1: Impart quality technical education in the field of Mechanical Engineering through excellent teaching-learning process, modern infrastructure and computing tools.

M2: Prepare students for successful careers by providing placements and encouraging research, development and innovation through Industry-Institute Interaction.

M3: Instil professional ethics and environmental consciousness amongst students through inclusive development programs.

PROGRAM EDUCATIONAL OBJECTIVE (PEOs)

PEO of Graduate students in Mechanical Engineering aims to have:

PEO1: Engineering competence, critical thinking, creativity, and ethical inclusivity in professional practice.

PEO2: Continuous intellectual growth through advanced education, professional development, independent inquiry, and experiential learning.

PEO3: Leadership and teamwork excellence throughout professional careers.

PROGRAM SPECIFIC OUTCOMES (PSOs)

After successful completion of Mechanical Engineering Program, the graduates will be able to:

PSO1: Specify, design, and analyze machine elements using CAD/CAE software.

PSO2: Evaluate thermal performance of Heating, Ventilation & Air-Conditioning systems, Electronic systems, Solar Roof Top Photo-Voltaic systems using experimental approach or /and CFD tools and design these systems for better performance.

PSO3: Develop composite materials, manufacturing processes and products in an efficient, safe and cost-effective manner.

HOD'S MESSAGE



Dr. Bharat Vinjamuri

Dear Students, Faculty, and Mechanical Engineering Enthusiasts,

We are delighted to share some of the recent milestones and ongoing initiatives from the Mechanical Engineering Department at the Global Academy of Technology. Our department proudly houses cutting-edge laboratories, featuring advanced CNC technology, 3D Printing, and Automation through Hydraulics and Pneumatics, offering students immersive, hands-on experiences that align closely with contemporary industry practices.

In a significant collaboration with Toyota Boshoku Automotive India Pvt. Ltd., we have set up a Center of Excellence in Automotive Technology, providing students with unparalleled exposure to real-world automotive innovations. Alongside this, our AICTE-funded R&D Center continues to make remarkable progress in expanding the frontiers of mechanical engineering knowledge and practical applications.

Our dedicated faculty team, with 70% holding doctoral degrees, remains committed to mentoring students, guiding them toward success in diverse industries. Our graduates are making their mark in core engineering domains at esteemed organizations such as BOSCH, TATA, Toyota, ACE Micromatic, Tech Mahindra, and Collins Aerospace, while others thrive in renowned IT firms like TCS, Wipro, Deloitte, Infosys, and Capgemini. Many of our alumni are also at the forefront of specialized fields including Robotics, Additive Manufacturing, Material Technology, and Automation, actively contributing to cutting-edge technological advancements.

As we look ahead, our unwavering commitment is to foster the next generation of mechanical engineers by continuing to emphasize excellence in education, research, and innovation.

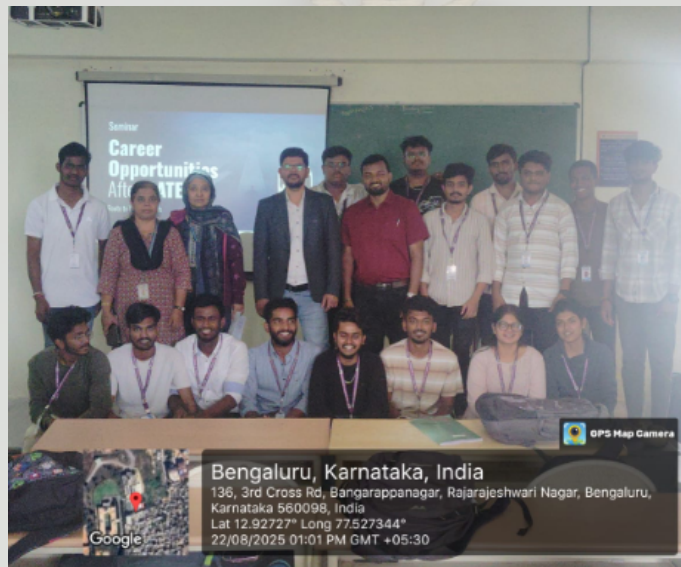
Best regards,

Head, Department of Mechanical Engineering

Global Academy of Technology

GUEST LECTURE DETAILS

The Department of Mechanical Engineering, Global Academy of Technology, successfully organized a guest lecture on “Career Opportunities after GATE” on 22nd August 2025. The session was conducted for V semester students, with a total of 42 students in attendance. The guest speaker for the event was Mr. Vipin Mishra, GATE | IMS GATE Academy, who shared valuable insights into higher education and career paths available after qualifying for the GATE examination.



Guest Lecture on Career Opportunities after GATE by Mr. Vipin Mishra on 22nd August 2025.

Guest lecture on “Opportunities for students and faculty- Early-stage entrepreneurs” was successfully conducted by IIC and Department of Mechanical Engineering, Global Academy of Technology, on 11th August 2025. The speaker for the lecture was Sumedh Kaulgud, Co-founder and Director, InnAccel Technologies Pvt. Ltd., Bengaluru and Manoj Kaulgud, Industry Mentor / Trainer – Automotive & Quality Systems, Bengaluru.



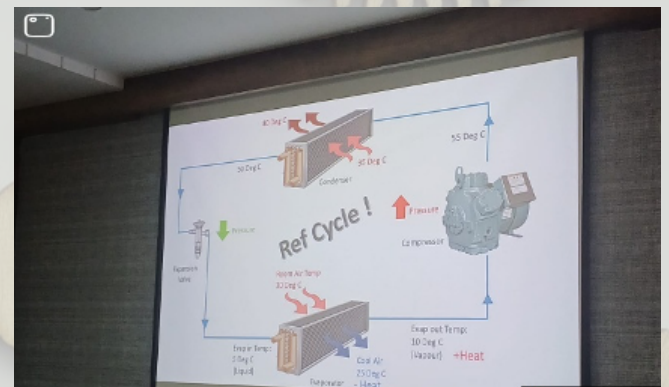
Mr. Sumedh Kaulgud on 11th August 2025

Guest lecture on "Next-Gen HVAC: A Pathway for Tomorrow's Engineers" was conducted by Department of Mechanical Engineering in association with ISHRAE student's chapter on 7th May 2025. Mr. Mohan Nimbalkar J, Student Chair ISHRAE, founder and director for Harmony Projects and Silicon Education Bengaluru, provided students with insights into the latest advancements in HVAC technologies and their role in sustainable engineering.



Guest lecture on "Next-Gen HVAC: A Pathway for Tomorrow's Engineers" by Mr. Mohan Nimbalkar J, on 7th May 2025.

A guest lecture on "Refrigeration cycles in HVAC" was successfully presented by Mr. Mukundan M S, Secretary ISHRAE Bangalore Chapter & Director M S Enterprises and Mr. Mohan Nimbalkar on 11th Sept 2025. The speakers explained the importance of refrigeration cycles in maintaining thermal comfort, energy efficiency, and sustainability in modern HVAC applications.



Mr. Mukundan M S, and Mr. Mohan Nimbalkar on 11th Sept 2025.

As part of Engineers Day celebration and Orientation program for lateral entry students, a lecture on Carrier Opportunities for Mechanical Engineers by Mr. Mohan Nimbalkar J was organized on 15th September 2025.



Guest lecture on 'Carrier Opportunities for Mechanical Engineers' by Mr. Mohan Nimbalkar J on 15th September 2025.

Miss. Meena Faculty at Global Academy of Technology, trained the students of 5th Sem on Curriculum Vitae Building between 11 AM to 1 PM on 11th November 2025.



Training on building Curriculum Vitae on 11th November 2025 by Miss Meena.

STUDENT TRAINING PROGRAM

The Student Training Program for students of 5th Sem was conducted 9th Sept 2025 by Mr. Atul Negi, a postgraduate from Uttarakhand Technical University and the lead mentor at IMS GATE Academy. Training was done in 2 sessions between 9 AM to 1 PM on “Introduction to Theory of Machines” and “Gear Trains”. Mr. Negi’s clear explanations and practical examples helped participants connect theoretical knowledge with real-world applications, enhancing their problem-solving skills.



The Student Training Program for students of 5th Sem by Mr. Atul Negi on 9th Sept 2025

FACULTY DEVELOPMENT PROGRAM (FDP)

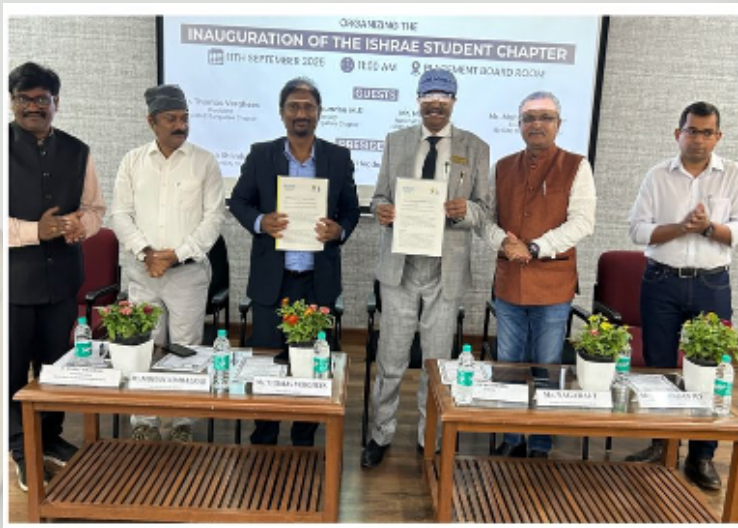


FDP on Applied Robotics and Automation for Modern Manufacturing from 27th – 31st Jan 2026 at DIFACTO Robotics and Automation

A five-day Faculty Development Programme (FDP) on “Applied Robotics and Automation for Modern Manufacturing” was organized from 27th January 2026 to 31st January 2026 at DIFACTO Robotics and Automation, Bidadi, Bengaluru. The FDP aimed to enhance faculty members’ understanding of modern industrial robotics, automation systems, PLC programming, and real-time manufacturing practices. The program successfully bridged the gap between academic knowledge and industrial applications by combining theoretical sessions with hands-on exposure and industrial visits.

ISHRAE STUDENTS CHAPTER INAUGURATION AT GAT

Installation of Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) on 11th September 2025, aiming at enhancing industry-institute interaction and providing our students with-a platform for professional growth in the fields of HVAC&R and allied technologies. The Program included signing of MoU with ISHRAE chapter and distribution of ISHRAE membership certificates to student members of Global Academy of Technology.



Installation of Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) and signing of MoU on 11th September 2025

INNOVATE X - GREEN INNOVATION PROJECT EXHIBITION IN ASSOCIATION WITH ISHRAE

Department of Mechanical Engineering, Global Academy of Technology (GAT), Rajarajeshwari Nagar, Bengaluru in association with The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), through its Students Activity Committee – South Zone, successfully organized “INNOVATE X – Green Innovation Project Exhibition” on 20th December 2025 at Global Academy of Technology (GAT), Rajarajeshwari Nagar, Bengaluru. The event aimed to promote sustainable engineering solutions and encourage innovation among engineering and architecture students. The exhibition witnessed enthusiastic participation from various colleges across south India. A total of 16 teams with participants from reputed institutions across Karnataka and Tamil Nadu participated.



BOOT CAMP ON INDUSTRIAL HYDRAULICS & PNEUMATICS

Boot Camp program on Industrial Hydraulics & Pneumatics, organized by the Department of Mechanical Engineering, Global Academy of Technology (GAT), conducted jointly with ACS College of Engineering, Bangalore in association with FESTO India Pvt. Ltd. From 03-11-2025 to 07-11-2025. The program was coordinated by Mr. Poorna Chandra, Mr. Kiran R and Dr. Rajesh R under the guidance of Dr. Bharat V, HoD, Mechanical Engineering Department.

The program was designed to provide hands-on exposure and industry-oriented learning to students, focusing on the practical applications of hydraulic and pneumatic systems widely used in modern industries. The boot camp featured insightful sessions delivered by eminent professionals from leading organizations. A total of 46 students participated in the boot camp, including 23 students from GAT and 23 students from ACS College of Engineering. The program offered them an excellent platform to enhance their technical skills through interactive sessions and demonstrations.



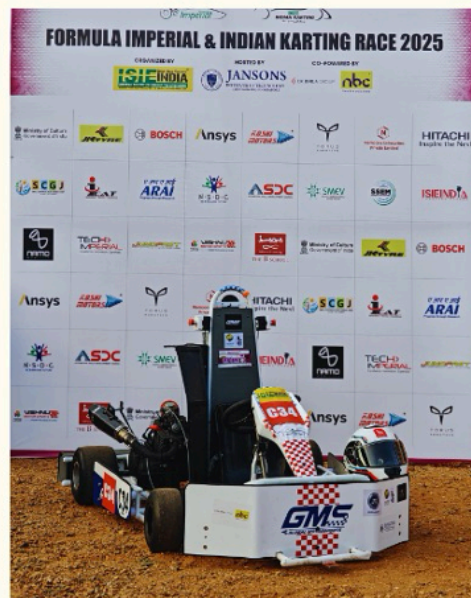
PROJECT EXPO FOR V AND VII SEMESTER STUDENTS

A Project Expo for V and VII Semester students was conducted by the Department of Mechanical Engineering on 1st December 2025.



INDIAN KARTING RACE 2025

Team Global Motorsports made their first successful appearance in the Motorsports Event held at Coimbatore, Coastt High Performance Center organized by ISIEINDIA and Jansons Institute of Technology.



Every bolt tightened, every late night - all for this moment.

INDIAN KARTING RACE 2025

INDUSTRIAL VISIT

An industrial visit was organized for V semester Mechanical Engineering students to Festo Didactic India Pvt. Ltd., Hosur on 7th November 2025. The visit aimed to provide students with practical exposure to modern manufacturing processes, automation technologies, and quality control systems employed in a world-class industrial facility.



Industrial Visit to Festo Didactic India Pvt. Ltd., Hosur on 7th November 2025.

An industrial visit was organized for III semester Mechanical Engineering students to Alliage Metal Castings Pvt. Ltd. Peenya on 8th December 2025. The visit aimed at providing students with practical exposure to manufacturing of specialized metal products such as excavator components, serving industries like construction and aerospace with durable cast alloy products



IMTMA DELIVERED A COURSE ON DESIGN OF TRANSMISSION ELEMENTS

IMTMA (Indian Machine Tool Manufacturers' Association) organizes visits to its technology centres in Bengaluru, Pune, and Gurgaon for industrial training, as well as factory tours during events like IMTEX at the Bangalore International Exhibition Centre (BIEC).

For more than three decades, IMTMA training programmes have been empowering the manufacturing industry by enabling knowledge and skill upgradation. The training centre provides hands-on, on-site and online training programmes for both fresh engineers and industry professionals. The training programmes cover all the aspects from “Design to Despatch” with a holistic approach towards improving manufacturing excellence.

Our 6th Sem students of B.E Mechanical attended a six-day program on Design of Transmission Elements especially Gears, springs and belt drives from experienced industry professionals from 18th March 2026 to 25th March 2026 from 9 to 5 PM at IMTMA.



VI Sem Mechanical students of Global Academy of Technology attending the lecture on Design of Transmission Elementary Elements.

IMTMA DELIVERED A COURSE ON MEASUREMENTS AND METROLOGY

Our 4th Sem students of B.E Mechanical attended a six-day program on Measurements and Metrology with 10 hrs of training and Geometric dimensioning and Tolerancing (ASME Standard) for 30 hrs from experienced industry professionals from 18th May 2026 to 22nd May 2026 from 9 to 5 PM at IMTMA.



STUDENTS PARTICIPATE IN AUTODESK DESIGN LEAGUE AT BMS COLLEGE OF ENGINEERING

Students from the Mechanical Engineering Department (MED), GAT, actively participated in the Autodesk Design League held during the International-Level Annual Technical Symposium – Phase Shift 2025 at BMS College of Engineering on 19th and 20th September 2025 under the guidance of Mr. Maruthi G V. Students showcased exceptional abilities in 3D design modeling, problem-solving, creativity, and engineering presentation skills, competing against teams from various national and international institutions. Their outstanding performance resulted in the following achievements:

Team 1: Prajeeth Yadav and Kaashi Balaji – First Prize

Team 2: Pushya and Chandana – Third Prize



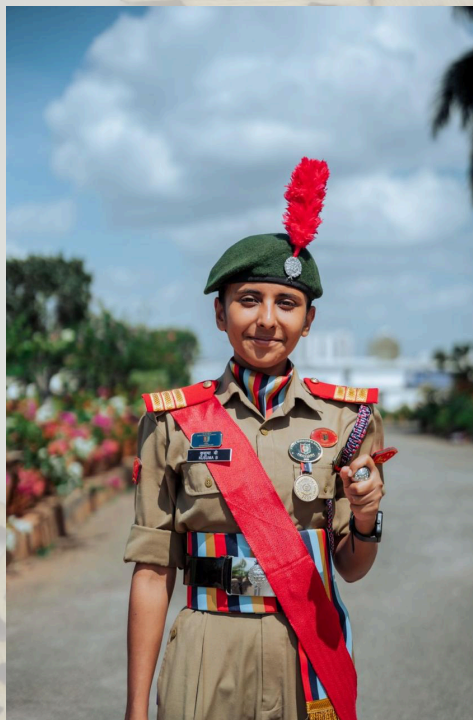
Students winning 1st and 3rd prize in Autodesk Design League held on 19th and 20th September at BMS College of Engineering.

STUDENTS ACHIEVEMENT

ACHIEVEMENTS OF KUSUMA

VTU Karnataka, state level 2026 championship
Bonze medalist.

Previous records 2025 VTU silver medalist
2026 ALL INDIA inter university championship.



ACHIEVEMENTS OF NIKITHA

Bengaluru urban district weightlifting
championship 2025-26

°BRONZE MEDAL under junior category

(-47kg)

° BRONZE MEDAL under senior category

(-47kg)



VTU State-Level Powerlifting Competition
2025-26 Held at RVITM on 7th and 8th
November.

(Gold medal) under (-47 kg)



VTU state level weightlifting
championship 2025-26

Held at global academy of
technology on 27th October
(Bronze medal) under (-48kg)



VTU state level wrestling
championship 2025-26

Held at Maharaja institution of
technology Mysore on 18th and
19th October
(Silver medal) under (-50kg)

VTU state level judo championship 2025-26
Held at Maharaja institution of technology
Mysore on 18th and 19th October
(Silver medal) under (-48kg)



National participate at wrestling under(
-50kg) held at guru Kashi University
Punjab



Vtu State level Kho-Kho
Tournament 2026-27 (gold medal)
held at SJMIT Chitradurga from
13th March 2026 to 14th mar
2026

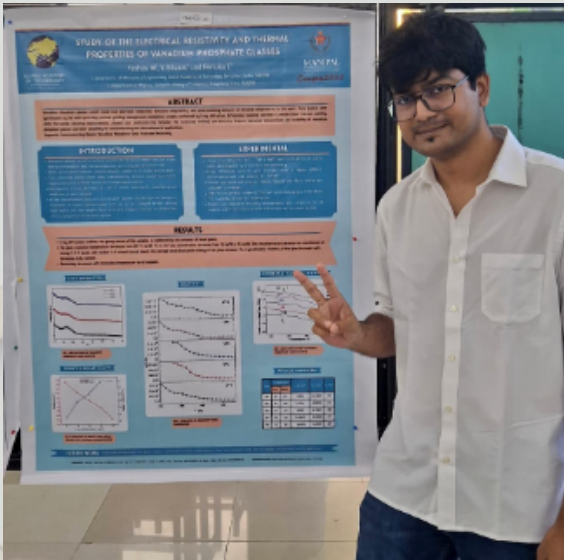


Represent the VTU in All India
Inter University tournament of
Wrestling women held at Guru
kashi university ,Bathinda
,punjab From 15th to 17th
January 2025-26

STUDENTS PARTICIPATED IN APPLIED SCIENCE AND ADAVANCE MATERIAL ICASAM 2025 HELD AT BNMIT

Participated in Applied science and Adavance material ICASAM 2025 held at BNMIT banglore from 28th Nov 2025 to 29th Nov 2025 (project:neuro gloves by voice control)





Yashas M of 1st Sem, Mechanical Engineering Department presented his research paper titled "Study of the Electrical Resistivity and Thermal Properties of Vanadium Phosphate Glasses" at the 13th National Conference on Condensed Matter Physics and Applications, held at Manipal Institute of Technology, Manipal on Dec 8th - 9th 2025.



The Torchbearers team, comprising Yashas M, Pavana D G, Raghavendra S, and Mohammed Saadataayan Shaik from the 1st Semester, Mechanical Engineering Department, secured first place at the IDT Project Expo held at Global Academy of Technology for their project titled "Vibe 1 - A Vibration Resistant Phone Holder." On 8th Jan 2026.

STUDENT ART



Sanjana

STUDENT LITERATURE

THE MISTRY BRIDGE OF ERODA

Oh! the people of Eroda, the luckiest souls ever alive carrying the bloodline of mystery, love and magic. But still lucky are those who find their soulmate within 22 years of age or their would be tragic. But where do they find their soulmate? They had a mystery bridge where it was floating and there was a sacred tree on a single large stone which was connected to the Bridge. But how?

They worshiped the tree, were honest to the gods, being loyal and loving towards each other. Once, a girl named Inez was suffering from PTSD (post traumatic stress disorder) as she lost her father who was the only one she thought was who loved her after her mother's death, and yes! He had another charming wife. But Inez thought that she had no interest. Her loss and illness made her think so much that she wouldn't listen to herself and yes, what else could a 14 year old, do? Moving on, though her step mother, Nils Sjoberg cared her a lot. Inez would never listen to her as she thinks she (Nils Sjoberg) and her 2 kids Olivia and Canon was the reason for her father Williams's death. Her isolation and trauma made her careless about herself and led her to another disease of skin allergy. On the day of the ceremony which was on 13th December all the people who turned 17 were assembled at the bridge to know their soulmate. The tree would let them know when they had plucked each

of the leaf from the tree and either a girl of a boy would go there near the tree and say their name. Believe it or not the other guy or girl's leaf (who are their soulmates) would shine brighter and would let them know. When it was Inez's turn, she called out her name but to her horror there was none to be her match, among those present there. Then she called out her name and cursed herself with leprosy for not being chosen. She was isolated from everyone. Her step mother got to know about this and came running towards her. Inez was about to jump from the bridge but her mother stopped her. She tried to calm her restless daughter from the incident. But the curse was spreading all over really fast and people started to curse her for her impurity. Then when her mother hugged her without thinking about the curse, Inez started to recover and the rashes started to heal, there was a bright light within the tree. Then the gods came down and told, "Dear Inez, now you think soulmates are only meant to be couples where you have a mother who loves you more than her children". Inez started to think and with her tearful eyes she called her mother first time, "Mom!" And then by hearing to this miracle many people across the country started to visit the tree.

Chaitra C
1GA24ME008
MECHANICAL DEPARTMENT

Chaitra

BUTTERFLY AT MY ABODE

Chaitra C

Mechanical department

1GA24ME008

An urban potted garden is mine,
where I spend my Tea time,
It is a soothing leisure time...
When, I share my thoughts with the vine,

Vibrant Butterflies visit a while,
In search of scented floral shine,
Laying their larvae at times...
Under the yummy abode of the Lime.

One day, during tea time,
Raving, at the sight of under twigs of lime..
I wondering... the thief in crime.
Its the Larvae camouflaging, scavenging
the leaves of Lime

Busy munching the tangy leaves day by day;
Larvae grew, grew and grew,
From a tiny speck to a pod of pea ..until the day,
.... it articulated to a shape of cocoon..a new.

Few days passed by, under the cocoon care,
The Baby Butterfly uncaged from its care..
Its the Baby fly's Blissfull unwinding sight..
With a hope of life, took its First flight!
Wow! The Futterby's first flight!
What an wild awesome sight!



Chaitra

FACULTY POEM

"ಧರ್ಮದ ದೀಪ"

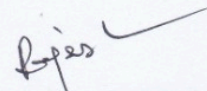
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'ಆಗಲಿ ಅಧರ್ಮಕ್ಕೆ ತಕ್ಕ ಶಾಸ್ತಿ
ಪರಮಾತ್ಮನೇ ಇದಕ್ಕೆಲ್ಲ ಸಾಕ್ಷಿ

ಬೇವು ಬೆಳ್ಳದಂತಿರಲೇ ಜೀವನವೆಲ್ಲ
ಸುಖಮಯ ಬದುಕು ಕಾಣಬೇಕೇ ನೀವೆಲ್ಲ
ಆರಾಧಿಸಿರಿ ಪರಮಾತ್ಮನಲ್ಲ
ಸಿಗಲಿ ಮೋಕ್ಷವು ನಿಮಗೆಲ್ಲ

ಶಾಂತಿ, ಪ್ರೀತಿ, ಧರ್ಮದಿ ಬೆಳೆಯೋಣ
ಮೋಹಮಯ ಲೋಭಕ ದಾಸರಾಗದಿರೋಣ
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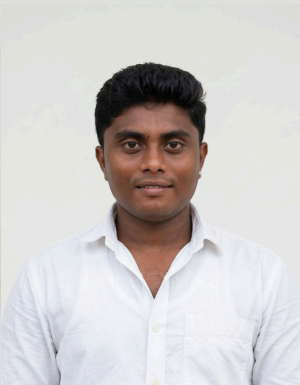

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ಬೆಂಗಳೂರು - ೫೬೦೦೯೮

YANTHROHAM



FACULTY COORDINATOR

Dr. Shreekala N



EDITOR

S Prajeeth Yadav



DEPARTMENT OF MECHANICAL ENGINEERING

GLOBAL ACADEMY OF TECHNOLOGY

