



Holy Grace

Academy of Engineering

(Approved by AICTE | Affiliated to KTU)

DEPARTMENT OF
MECHANICAL
ENGINEERING

MECHANICA

INNOVATION | DESIGN | EXCELLENCE

OFFICIAL NEWSLETTER OF THE
DEPARTMENT OF MECHANICAL ENGINEERING



VOLUME 1

ISSUE 1



EVEN SEMESTER 2025-26

HIGHLIGHTS INSIDE



SPORTS EXCELLENCE

Champions on Track, Excellence in Action



ACADEMIC EXCELLENCE

Toppers, Achievements & Rise of the Phoenix



RESEARCH & PUBLICATIONS

Faculty and Student Research Contributions



PLACEMENT SUCCESS

Our Students, Our Pride



INDUSTRY CONNECT & EXPOSURE

Learning Beyond Classrooms



STUDENT ACHIEVEMENTS

Milestones, Awards & Recognitions

EDITORIAL BOARD



Patron

Prof. A. S. Chandrakanta
Director



Principal

Dr. Prasanth K



Chief Editor

Nandu S
Head of the Department,
Mechanical Engineering



Faculty Editorial Team

- Mr. Akhil Vinod V
- Mr. Leo Yohannan
- Mr. Sarath K M
- Mr. Arun C A

Engineering Ideas. Building Solutions. Shaping Tomorrow.

DEPARTMENT OF MECHANICAL ENGINEERING
HOLY GRACE ACADEMY OF ENGINEERING



FROM THE HOD'S DESK



NANDU S

Head of the Department
Mechanical Engineering

It gives me immense pleasure to connect with all our students, faculty, and well-wishers through the first edition of our department newsletter, **MECHANICA**.

This newsletter reflects the dynamic spirit, academic excellence, and innovative mindset that define our department.

I am proud of the dedication and hard work of our students and faculty members who continue to strive for excellence in academics, research, sports, and beyond.

Let us continue to learn, innovate, and grow together, building a future that we can all be proud of.

“

*Success is not determined by where one starts,
but by the determination to keep moving forward.*

”



SPORTS EXCELLENCE

TOM JOSEPH

S6 MECHANICAL ENGINEERING

We are proud to celebrate the outstanding achievement of our student, **Tom Joseph**, for securing **GOLD MEDALS** in both the 400m and 800m race at the KTU Inter-Collegiate Meet 2026 with new meet records.



GOLD MEDAL – 400m



GOLD MEDAL – 800m



NEW MEET RECORDS



**REPRESENTED KTU AT
INTER-UNIVERSITY ATHLETIC MEET**



Champions on Track, Excellence in Action!

Congratulations!

Congratulations to our students of 8th semester (Batch 2022-26) on achieving an outstanding **80%** pass percentage in the latest KTU S7 results!

WE ARE PROUD OF YOU!

OUR TOPPERS



KRISHNARAJ P R



JOSEPH BENNY



ANJAL C S



ARUN PRAKASH



Congratulations to
ANJAL C S
on winning the
MECHPRIZE!

Organized under the esteemed **National Council for Technology and Training (NACTET)**, this achievement reflects true dedication, technical excellence, and innovation in the field of Mechanical Engineering.

We are proud of your accomplishment and wish you continued success in all your future endeavors.

Keep striving, keep achieving! ★





Hearty CONGRATULATIONS!

to our S6 students for achieving

61.5%

PASS PERCENTAGE

in SEMESTER 5 Results

Kudos to the dedication, consistency and teamwork of our students and faculty for this incredible achievement.

Your hard work has truly paid off!

★ SEMESTER 5 TOPPERS ★



**ALAN JOBY
THOMAS**

SGPA 8.24



ARJUN R

SGPA 7.24



**MAHADEV
JOSHY**

SGPA 7.65



NIKHIL C T

SGPA 7.02



**MUHAMMAD
RAMEES M**

SGPA 7.76



**VIBINKRISHNA
P U**

SGPA 7.01



SAYANTH K S

SGPA 7.28



TOM JOSEPH

SGPA 7.72

THE RISE OF THE PHOENIX



From 0% to 61.5% – A Story of Resilience

Every great achievement begins with a challenge. In Semester 3, our batch faced a tough phase with 0% pass percentage.

But setbacks don't define us — our response does. With renewed focus, relentless hard work, strong peer support, and the guidance of our faculty, we turned the tide.

From countless study hours to never giving up, we rose, we rebuilt, and we succeeded.

**“ It's not about how you fall,
it's about how high you rise!
We didn't just bounce back,
we rose like a Phoenix. ”**

SEMESTER 3

PASS PERCENTAGE

0%

SEMESTER 5

PASS PERCENTAGE

61.5%

We rose. We rebuilt. We soared.

PROUD OF OUR JOURNEY. EXCITED FOR WHAT'S NEXT!



HARD WORK

The fuel that kept us going.



TEAMWORK

Stronger together, unstoppable together.



FOCUS

Clear goals, consistent efforts.



SUCCESS

The result of never giving up.

This is not just a result. This is our comeback story.

Onwards and Upwards!





RESEARCH & PUBLICATIONS

Driving Innovation. Creating Impact.



FACULTY RESEARCH SPOTLIGHT

Dr. Prasanth K and Nandu S

"Comparison of Low Carbon Fuel Options for Commercial Shipping"



Published in **IJIRT**
(International Journal of
Innovative Research in
Technology)



This publication highlights the department's commitment to research excellence and contributing to global knowledge.



STUDENT PUBLICATION & FINAL YEAR PROJECT

Experimental Evaluation of TVOC and Toxic Gas Accumulation in Real-World Vehicle Cabin Conditions

AUTHORS

- Krishnaraj P R
- Abhinav Shaiju
- Anjal C S
- Arun Prakash
- Joseph Benny



Published from the Final Year B.Tech Project. This work showcases our students' ability to solve real-world problems through innovative research.



RESEARCH-DRIVEN LEARNING

Encouraging curiosity and innovation.



INDUSTRY-RELEVANT PROBLEM SOLVING

Addressing real-world challenges.



PUBLISHED WORK

Showcasing quality research outcomes.



FACULTY-STUDENT COLLABORATION

Stronger together for a better tomorrow.



INDUSTRIAL VISIT

Students of the Department of Mechanical Engineering visited the KINFRA International Exhibition Centre, Kochi, as part of an industrial exposure programme.

The visit provided valuable insights into modern manufacturing technologies, industrial automation systems, emerging engineering solutions and current industrial practices. It enriched the students' practical knowledge and broadened their perspective on the industrial world.

KEY OUTCOMES

- ✓ Exposure to advanced manufacturing technologies
- ✓ Understanding of industrial automation systems
- ✓ Interaction with industry professionals
- ✓ Awareness of emerging engineering trends and future opportunities





NEW FACES, NEW HORIZONS

Warmest welcome to our newest members of the
Mechanical Engineering family!

Two new beginnings. One journey. Infinite possibilities.



AKANGZULU LONGCHAR

S2 MECHANICAL



From Nagaland,
The Land of the Brave

A Proud Milestone After Five Years!

We are delighted to welcome
Akangzulu Longchar, our first student
from Nagaland in the Department of
Mechanical Engineering after five
years.



His journey to Holy Grace is a testament
to dreams that travel across distances
and find their purpose here.
We are proud to have him with us!



DEEPTHA VAKKAYIL

S2 MECHANICAL



Proud to be a
Woman in Mechanical
Engineering

Breaking Barriers. Building Futures.

Deeptha Vakkayil represents
courage, curiosity and confidence.
Her presence inspires more young
women to dream big and choose
Mechanical Engineering.



You don't just belong here,
you are shaping the future here.
Welcome, Deeptha!



Different backgrounds. One destination. Countless opportunities.
Welcome to the family, Akangzulu and Deeptha!



LOOKING AHEAD TO ODD SEMESTER 2026

Our aspirations. Our goals. Our commitment to excellence.



1. AICTE ATAL VAANI FDP ON SUSTAINABLE ENERGY

We look forward to the approval
and successful conduct of the
ATAL VAANI FDP by AICTE on
Sustainable Energy.



2. ABOVE 80% RESULTS

We aim to achieve above
80% pass percentage in the
upcoming semester through
consistent effort, support
and guidance.



3. HIGH QUALITY PROJECTS

Building innovative, industry-
relevant and high quality
projects from the new batch
of final year students.



4. MORE PUBLICATIONS

Encouraging faculty and
students to publish more
research papers in reputed
journals and conferences.



5. MoU SIGNING WITH NEW ORGANISATIONS

Strengthening industry-academia
collaboration by signing MoUs
with new organisations for
mutual growth.



6. FULL ADMISSIONS IN UPCOMING S1 BATCH

We aim for full admissions in
the upcoming S1 Mechanical
Engineering batch, welcoming
more bright minds.



7. INDUSTRY INTERACTION & SKILL DEVELOPMENT

Enhancing industry exposure, internships and skill development
initiatives to prepare our students for future challenges.



8. CONTINUOUS IMPROVEMENT

Striving for overall academic excellence, holistic
development and a culture of lifelong learning.



Dream. Design. Develop.

Together, let's achieve greater heights!



Mala, Thrissur



+91 8086097900
+91 9496331444



www.holygraceengineering.com



office@holygraceengineering.com



Dr. Prasanth K.

Principal,
Holy Grace Academy of Engineering

“

The maritime sector represents one of the most promising frontiers for mechanical engineers, combining innovation, sustainability, and global impact.

”

— Dr. Prasanth K.

Mechanical Engineering Beyond the Horizon:

Opportunities in the Marine Sector

By Dr. Prasanth K.

Principal, Holy Grace Academy of Engineering

The oceans have always been the silent highways of human civilisation. They connect nations, support economies, and sustain life. In today's globalised world, more than 80 percent of international trade by volume is carried by sea. Behind every ship that crosses these vast waters lies the ingenuity and hard work of engineers—and at the heart of that effort is mechanical engineering.

Mechanical Engineering is often associated with machines and industries on land, but its applications at sea are equally vast, dynamic, and challenging. From the smallest coastal vessels to the largest container ships and offshore platforms, mechanical engineers ensure that these complex systems operate safely, efficiently, and sustainably.

A ship is a moving city. It is a harmonious integration of propulsion systems, power plants, fuel systems, thermal systems, steering gear, deck machinery, and countless auxiliary components. Designing, operating, and maintaining these systems require strong fundamentals, analytical thinking, and a deep understanding of thermodynamics, fluids, materials, and control systems. Our discipline provides the perfect foundation for this demanding environment.

The marine sector is also at the forefront of a global transformation. With growing concern over climate change and stricter environmental regulations, the industry is pursuing cleaner and smarter solutions. Alternative fuels such as LNG, methanol, green ammonia and hydrogen are gaining momentum. Hybrid and fully electric propulsion, energy-efficient hull designs, and waste heat recovery technologies are becoming mainstream.

This transition opens up exciting opportunities for mechanical engineers to innovate and make a meaningful impact. The future of shipping will be defined by sustainability, digitalisation, and automation. Smart ships equipped with sensors and data analytics can predict failures, optimise performance, and reduce emissions. Autonomous vessels are no longer a concept of the future; they are being developed and tested today.

The scope for mechanical engineers extends beyond ships to offshore energy systems, subsea equipment, port infrastructure, and shipbuilding industries. Careers are available in design offices, shipyards, classification societies, maritime consultancies, research institutions, and naval organisations. The work environment is truly global, offering exposure to diverse cultures, technologies, and challenges.

For our students, this means a world of possibilities. A career in the marine sector not only promises professional growth and financial stability but also the satisfaction of contributing to global trade, energy security, and environmental sustainability.

As future mechanical engineers, I encourage you to look beyond traditional boundaries, explore new horizons, and be part of this exciting journey. The oceans still hold mysteries, and they need bright minds to solve complex problems and create a better, cleaner world for generations to come.





Holy Grace

Academy of Engineering

(Approved by AICTE | Affiliated to KTU)

ENGINEER YOUR FUTURE WITH PURPOSE.

At the Department of
Mechanical Engineering,
we inspire minds, nurture talent
and build tomorrow's innovators.
Be part of a legacy of excellence.
Build. Innovate. Impact.

ADMISSIONS OPEN
2026-27

**B.TECH
MECHANICAL
ENGINEERING**

WHY CHOOSE US?



INDUSTRY-ORIENTED LEARNING

Curriculum designed
to meet industry
needs and global
standards.



EXPERIENCED FACULTY

Learn from qualified,
dedicated and
passionate educators.



MODERN LABORATORIES

State-of-the-art labs
to explore, experiment
and excel.



STRONG INDUSTRY CONNECT

Collaborations, internships
and live projects for
real-world exposure.



RESEARCH & INNOVATION

Encouraging ideas,
innovation and
impactful research.



PLACEMENT & HIGHER STUDIES

Excellent placement
support and guidance
for higher studies
worldwide.

DREAM. DESIGN. DEVELOP.

— Today's Learning. Tomorrow's Leadership. —

JOIN A COMMUNITY THAT
BUILDS ENGINEERS
AND SHAPES FUTURES.



Mala, Thrissur



+91 8086097900
+91 9496331444



www.holygraceengineering.com



office@holygraceengineering.com

INNOVATION • DESIGN • EXCELLENCE
DEPARTMENT OF MECHANICAL ENGINEERING