



**GEMS POLYTECHNIC
COLLEGE**

GEAR UP

NEWSLETTER •

Department of Mechanical Engineering

GET IN GEAR WITH MECHANICAL ENGINEER

“The way to get started is to quit talking and begin doing.”

-Walt Disney

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E-Mail: mechhod@gemspolytechnic.edu.in

Contact Number: +91 9547061457



GEAR UP

Half-Yearly News Letter

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Department of Mechanical Engineering

GEMS Polytechnic College, Aurangabad, Bihar

E-Mail: mechhod@gemspolytechnic.edu.in, Contact Number: +91 9547061457

Website: <https://gemspolytechnic.edu.in/>



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VISION OF THE DEPARTMENT

To empower the students in the field of Mechanical engineering by providing quality education and technical skills favorable for the development of the state and nation.

MISSION OF THE DEPARTMENT

The Department of Mechanical Engineering is committed, **M1:** To deliver fundamental and skill-based education in mechanical engineering through innovative practices in teaching and learning.

M2: To improve employability through Industrial interaction and collaboration.

M3: To inculcate ethical practices for social upliftment and to uphold human values.

PROGRAM EDUCATIONAL OBJECTIVES:

PEO1: To develop technically competitive diploma engineers in the challenging areas of design and manufacturing and its associated industries in the domain of mechanical engineering being involved.

PEO2: To motivate the diploma engineers to improve their academic career by involving in doing higher education and continuous learning.

PEO3: To Possess a professional attitude as an individual and as a team member with consideration for society, professional ethics and environmental factors.

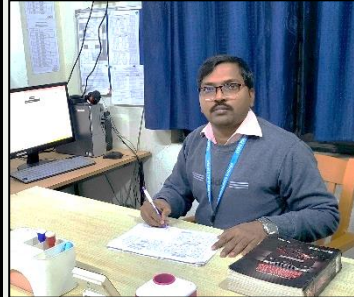
PROGRAM SPECIFIC OUTCOMES:

PSO1: Ability to develop and implement innovative ideas in the area of product development with the help of modern CAD & 3D printing tools.

PSO2: Ability to achieve excellence in the domain of Computer Numerical Control (CNC) operations.

PSO3: Ability to achieve excellence in advanced manufacturing skills for various industrial sectors.

From the Desk of the HOD



Welcome to the Department of Mechanical Engineering! As the Head of the Department, it gives me great pleasure to extend a warm greeting to all students, faculty members, and stakeholders associated with our dynamic department.

The Department of Mechanical Engineering at our institution is committed to fostering a vibrant community of capable and dedicated individuals. Our primary goal is to empower students with a blend of positive attitude, entrepreneurship, and innovation, preparing them for excellence in education and research.

Our carefully designed curriculum and programs are geared towards providing students with comprehensive knowledge, skills, and readiness for the workforce. We aim to cultivate an environment where theoretical knowledge is complemented by hands-on experience, ensuring that our graduates are well-equipped to meet the challenges of the rapidly evolving field of engineering.

Our faculty members, characterized by their reliability, enthusiasm, and experience, continually provide unwavering support. They guide students through their educational journey, inspiring them to strive.

We take pride in building a family of like-minded individuals dedicated to excellence. Each student is encouraged to explore their interests, capabilities, and career aspirations. The department not only imparts quality education but also prepares students for success in their careers, instilling in them the ability to think independently, solve problems, and plan for the latest technological advancements.

We are proud to see our alumni excelling in various fields and making a difference in the world. If you seek more information or wish to connect with us, please feel free to reach out. We are committed to providing support and partnership, working together to create an excellent and prosperous future.

Embrace the Journey: Inspirational Quotes

- "Education is the key to unlocking the golden door of freedom." - George Washington Carver
- "Your education is a dress rehearsal for a life that is yours to lead." - Nora Ephron
- "Believe you can, and you're halfway there." - Theodore Roosevelt
- "The beautiful thing about learning is that no one can take it away from you." - B.B. King
- "Success is not final, failure is not fatal: It is the courage to continue that count." - Winston Churchill
- "The only limit to our realization of tomorrow will be our doubts of today." - Franklin D. Roosevelt
- "Do not wait to strike till the iron is hot, but make it hot by striking." - William Butler Yeats
- "Your time is limited, don't waste it living someone else's life." - Steve Jobs
- "The future belongs to those who believe in the beauty of their dreams." - Eleanor Roosevelt
- "The only way to do great work is to love what you do." - Steve Jobs

Departmental Activities

Department Orientation Program:

The Orientation Program held on May 9, 2023, at the Seminar Hall was organized to provide essential information, details, and rules and regulations to all incoming students. The event was skillfully coordinated by Mr. Eli Yashraj, and the information was presented by Mr. Anil Kolli, the Head of the Department.



GEMS Polytechnic college

Department of Mechanical Engineering

ORIENTATION PROGRAM

2022-2023 Even Semester

09th May 2023

Venue: Cafeteria block
Co-Ordinator: Mr. Eli Yashraj
Contact: +919473568494

*You don't have to be good at the start.
You have to start to be Good.*

The program was structured as follows:

Welcome and Introduction:

- Mr. Eli Yashraj welcomed all attendees, including students and faculty.
- An overview of the day's schedule was presented.

Department Overview:

- Mr. Anil Kolli provided an in-depth overview of the department, its goals, and its mission.
- He highlighted the various programs and courses offered.

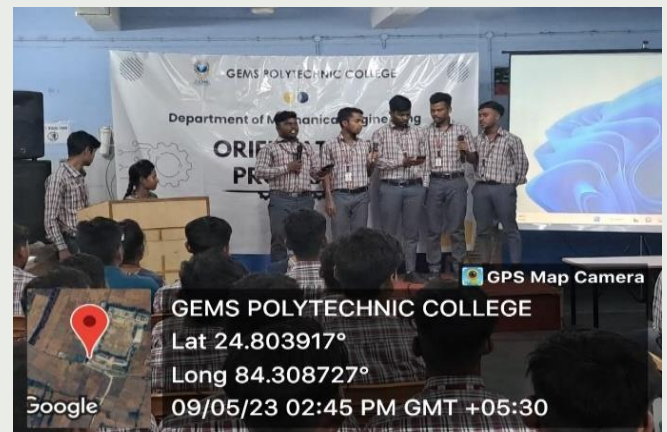
Academic Requirements:

- The academic requirements for each program were explained.
- Information regarding credits, course selection, and grading systems was provided.

Rules and Regulations:

- Mr. Anil Kolli discussed the rules and regulations of the department and the institution.
- He emphasized the importance of adhering to academic integrity and ethical standards.

Campus Resources: Various campus resources, including libraries, laboratories, and support services, were introduced to the students.



Guest Lecture:

On 08th August 2023, a highly informative guest lecture on the "Overview of Thermal Power Plants" was conducted at Seminar Hall as part of our ongoing educational initiatives. The lecture was delivered by Mr. Abhishek Kumar, a Senior Engineer at NTPC Nabinagar, who brought valuable insights and expertise on the subject.

The lecture was followed by an engaging Q&A session where attendees had the opportunity to ask questions and seek clarification on various aspects of thermal power plants. Mr. Abhishek Kumar provided detailed and insightful responses, enhancing the learning experience.

Mr. Abhishek Kumar's guest lecture on the "Overview of Thermal Power Plants" was highly informative and beneficial for all attendees. It not only expanded their knowledge but also provided valuable industry insights. We express our sincere gratitude to Mr. Abhishek Kumar for sharing his expertise with us.

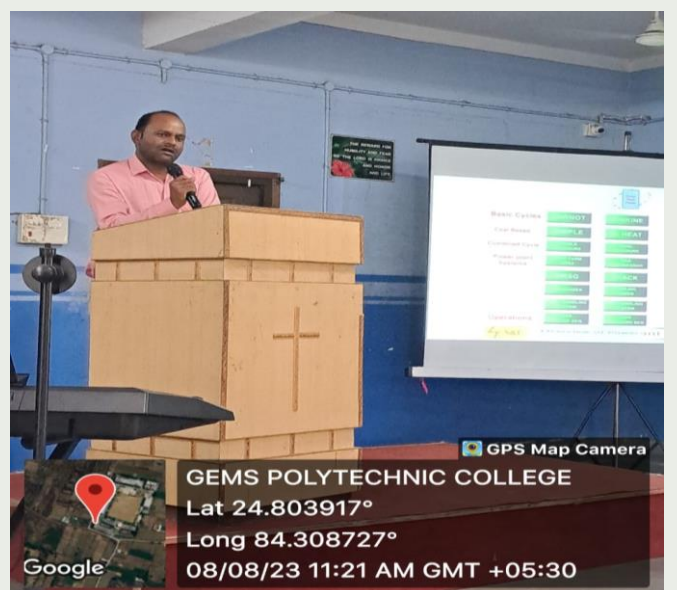
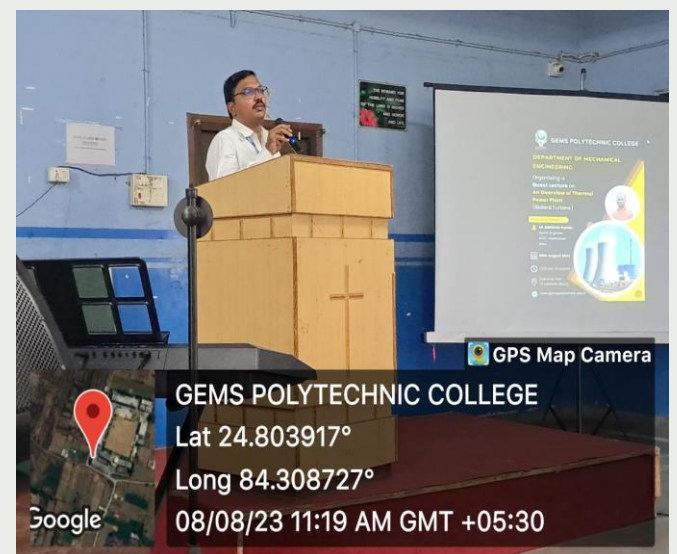
We believe that such guest lectures contribute significantly to the academic and professional development of our students and faculty. We look forward to organizing more such events in the future to foster knowledge exchange and enhance our understanding of various subjects.

GEMS POLYTECHNIC COLLEGE
 DEPARTMENT OF MECHANICAL ENGINEERING

Organising a **Guest Lecture** on **An Overview of Thermal Power Plant (Boiler&Turbine)**

Resource Person
Mr. Abhishek Kumar
 Senior Engineer,
 NTPC, NABINAGAR
 Bihar

08th August 2023
 11:00 am Onwards
 Seminar Hall (Cafeteria Block)
www.gemspolytechnic.edu.in



Faculty Activities


- Mr. Anil Kolli attended the Faculty Development Program (FDP) on "Recent Trends in Advanced Manufacturing Technology" held from 24th April to 28th April 2023. The FDP was organized by D.Y. Patil College of Engineering and spanned a duration of 5 days.
- Mr. Arun Pandian P attended the Faculty Development Program (FDP) on "LabVIEW for Engineers" conducted from 26th May to 28th May 2023. The FDP was organized by Pune Vidyarthi Griha's College of Engineering and Technology in collaboration with G. K. Pate (Wani) Institute of Management, Pune. The program spanned a duration of 3 days.
- Mr. Arun Pandian P participated in the Faculty Development Program (FDP) on "Outcome-Based Education through Student-Centric Teaching-Learning Process" held from 22nd May to 26th May 2023. The FDP was organized by BSIOTR Wagholi, Pune, and spanned a duration of 4 days.
- Mr. Arun Pandian P attended the Faculty Development Program (FDP) on "Recent Trends in Advanced Manufacturing Technology" from 24th April to 28th April 2023. The FDP was organized by D.Y. Patil College of Engineering and spanned a duration of 5 days.
- Mr. Arun Pandian P participated in a one-day Faculty Development Program (FDP) on "AI Powered Presentation Tools" held on 19th August 2023. The FDP was organized by A2Z EduLearningHub LLP.
- Mr. Prabhu Nath attended the Faculty Development Program (FDP) on "Recent Trends in Advanced Manufacturing Technology" from 24th April to 28th April 2023. The FDP was organized by D.Y. Patil College of Engineering and spanned a duration of 5 days.
- Mr. Titus R attended the Faculty Development Program (FDP) on "Recent Trends in Advanced Manufacturing Technology" from 24th April to 28th April 2023. The FDP was organized by D.Y. Patil College of Engineering and spanned a duration of 5 days.
- Mr. Titus R participated in the Faculty Development Program (FDP) on "Outcome-Based Education through Student-Centric Teaching-Learning Process" held from 22nd May to 26th May 2023. The FDP was organized by BSIOTR Wagholi, Pune, and spanned a duration of 5 days.
- Mr. Titus R participated in a one-day Faculty Development Program (FDP) on "AI Powered

"Presentation Tools" held on 19th August 2023. The FDP was organized by A2Z EduLearningHub LLP.

Students Activities

Farewell Day:

On September 8, 2023, our institution bid a fond farewell to the graduating batch of 2020-2023. This heartfelt event was a culmination of their academic journey and an opportunity to celebrate their achievements. The farewell ceremony was organized with the blessings and best wishes of every staff member, creating a memorable and emotional atmosphere.



The poster features a dark blue background with gold decorative elements. At the top center is the GEMS logo, which includes a globe and the text 'GEMS'. Below the logo, it reads 'DEPARTMENT OF MECHANICAL ENGINEERING'. The main title 'Farewell Party' is written in large, bold, gold letters, followed by 'for our Seniors '20' in a smaller, white, cursive font. In the center, there is a photograph of a large group of students and faculty members posing for a group photo in a hall. Below the photo, the event details are listed: 'Date: Friday · September 08', 'Time: 10AM', and 'Venue: Old Cafeteria'. The poster is framed by gold decorative swirls and lines.

DEPARTMENT OF MECHANICAL ENGINEERING

Farewell Party
for our Seniors '20

Date: Friday · September 08
Time: 10AM
Venue: Old Cafeteria

Event Highlights:

- Welcome and Blessings
- Student Speeches
- Staff Appreciation
- Awards and Recognitions
- Video Presentation

The Farewell Day held on September 8, 2023, was a touching and memorable event. It marked the end of an important chapter in the lives of the 2020-2023 batch students and the beginning of new adventures. The blessings and well-wishes from every staff member added a special touch to the occasion.

As they move forward, we hope that the values and knowledge instilled during their time at the institution will guide them towards success and fulfillment. We wish them all the best in their future endeavors.



New Initiatives:

All students of 4th semester have done their minor project by designing, printing and assembling the object in 3D printing machine by batchwise.





Achievements/Success stories

Success Stories:



Mr. Rohit Kumar (2nd year Mechanical Student)

I want to share my journey as a class representative, which has been a testament to the power of dedication, commitment, and responsible leadership. Through my experiences, I hope to inspire others to take on this role and lead their class in the right way.

The Role of a Class Representative:

As a class representative, my primary role was to act as a liaison between our class and the faculty, ensuring that our collective voice was heard and our concerns addressed. This role required a deep sense of responsibility and commitment.

- Dedication and Commitment:
- Organization
- Leading the Class in the Right Way
- Lead by Example
- Student Success and Growth

In Conclusion: Being a class representative is not just about the title; it's about the positive impact you can have on your classmates' lives and educational experiences. I encourage each of you to consider taking on this role and leading your class in the right way. Your journey as a class representative will not only be personally rewarding but will also contribute to the growth and success of your classmates.

Thank you for allowing me to serve as your class representative, and I look forward to seeing all of you continue to excel on your educational journeys.



Mr. Md Amish (Pass out Student)

In the annals of our college's history, my journey from an ordinary student to the college topper is a story of dedication, discipline, and the unwavering support and motivation I received from the staff of the Mechanical Department.

The Beginning: My journey began as a timid and average student in the Mechanical Engineering department. I had a passion for the subject, but I lacked direction and confidence. It wasn't until I crossed paths with the remarkable faculty of the Mechanical Department that my trajectory started to change.

- Obedience and Discipline
- Supportive Environment
- Motivation and Mentorship
- Personalized Guidance
- Achieving Excellence

Conclusion: My success story is a testament to the power of obedience, discipline, and the invaluable support and motivation provided by the Mechanical Department staff. They not only imparted knowledge but also instilled in me the importance of dedication and the pursuit of excellence. Their mentorship transformed me from an average student into a college topper.

To anyone embarking on their academic journey, I offer this advice: embrace discipline, seek guidance and mentorship, and never underestimate the impact of dedicated and supportive staff. Your journey may lead you to unexpected heights, just as it did for me.



EMPOWERING TO EXCEL

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