



ELECTRO VISION



ELECTRICAL & ELECTRONICS ENGINEERING

VISION

- To be a forerunner in producing Electrical and Electronics graduates who will be competent in innovations among federal institutions, be a dynamite entrepreneur, and a skilled representative to complement in industry with ethical values to address the needs of the society and Nation.

MISSION

- To provide academic excellence by adopting innovative teaching and learning methods to enhance lifelong learning.
- To bridge the gap between the industry and academia by undertaking collaborative projects from industry.
- To promote multidisciplinary activities by enhancing the skills of faculty and students to solve complex technological problems of the society.
- To raise entrepreneurs with a passion to contribute to the needs of the society.
- To produce responsible leaders by inculcating moral and ethical values to the faculty and the students.

PROGRAM EDUCATIONAL OBJECTIVES (PEO):

- To enable graduates to pursue successful careers by applying the knowledge and skills acquired during their course to meet professional and industry requirements.
- To prepare graduates with competencies aligned to professional standards, enabling them to qualify competitive examinations, pursue higher education, and perform effectively as skilled professionals in industry.
- To develop ethically responsible professionals who demonstrate integrity, professionalism, effective communication, and the ability to work efficiently in cross-cultural and multidisciplinary team environments while addressing societal challenges.

PROGRAM SPECIFIC OUTCOMES (PSO):

- Provide a strong foundation in mathematical, Science, Electrical and Electronics Engineering to solve electrical and electronics Problems
- Understand, analyze, simulate and design electrical machines, modern electrical drives, latest electronic systems, Embedded and automation of systems and to determine their performance through testing.
- To develop and implement electrical and electronics allied interdisciplinary projects to meet the demands of industry and to provide solutions for energy conservation and sustainability.

MESSAGE FROM THE HOD

Dear Students, Faculty, and Staff,

As we embark on a new academic term, I'm delighted to welcome everyone back to our Electrical and Electronic Engineering department. Let me share some key highlights and updates with you.

>>> CELEBRATING SUCCESS TOGETHER

I want to extend heartfelt congratulations to our faculty and students for their remarkable achievements. Your dedication and hard work have set new benchmarks for our department.

>>> EMERGENCY LAMP FABRICATION

An Emergency Lamp Fabrication Workshop was conducted at GEMS Polytechnic College, offering students hands-on experience in designing and assembling emergency lighting solutions. Participants learned about LEDs, rechargeable batteries, and charging circuits, enhancing their practical skills. The workshop encouraged innovation and technical expertise, making it a valuable learning experience.



>>> TECH FEST 2024

The Tech Fest 2024 at GEMS Polytechnic College was a vibrant celebration of technology and innovation. The event featured seminars, quizzes, paper presentations, and hands-on activities, providing students with a platform to showcase their knowledge and skills. With enthusiastic participation, the fest fostered learning, creativity, and collaboration.

>>> INDUSTRIAL VISIT

The EEE Department organized an industrial visit to provide students with practical exposure to real-world engineering applications. This visit enhanced their understanding of industry operations, bridging the gap between theoretical knowledge and hands-on experience.

>>> SUPPORTING STUDENT GROWTH

Our commitment to student success is stronger than ever. We've been focusing on providing the necessary support and resources to help our students excel both academically and professionally.

>>> LOOKING FORWARD

While we celebrate our past accomplishments, we are also excited about the future. With continued dedication and collaboration, we're poised to achieve even greater milestones in Electrical and Electronic Engineering.

Stay connected for more updates and opportunities to engage with our department. Let's continue to inspire and shape the next generation of engineers.

**WARM REGARDS,
MRS. PAMEELA M
HEAD OF DEPARTMENT**

EVENTS:



GEMS POLYTECHNIC COLLEGE



**THE ELECTRICAL & ELECTRONICS
ENGINEERING DEPARTMENT IN
ASSOCIATION WITH THE ISTE
STUDENTS CHAPTER**

Organises

EMERGENCY LAMP FABRICATION WORKSHOP

PROGRAM DETAILS

- ✓ Venue: GPC Workshop
- ✓ Timing: 11:00 am to 3:50pm
- ✓ Date: 10.08.24

**EVENT CO-ORDINATOR
MR.DAVID NAIK**

 www.gemspolytechnic.edu.in



EMERGENCY LAMP FABRICATION WORKSHOP



Our Department organized an Emergency Lamp Fabrication Workshop on 10th August 2024 for second- and third-year students. The session began with an introduction and presentation by Mrs. Catharine R on lamp fabrication principles. Students then participated in hands-on activities in the workshop, building lamp bases using PVC pipes. The event provided valuable practical experience and enhanced students' technical skills.



**"LIGHT UP YOUR LEARNING -
WHERE IMAGINATION MEETS
INNOVATION IN EVERY LAMP
MADE."**

TECH FEST ORGANIZED BY PLUG-IN ASSOCIATION

The TECH FEST 2024, organized by the Plug-In Association under the EEE Department, was held on 13th and 14th September 2024 at GEMS Polytechnic College. The event saw active participation from all staff and students of the department.

The Plug-In Association Fest at GEMS Polytechnic College began on a vibrant note with an opening prayer and welcome address by Mrs. Pameela M, Head of the DEEE. She also introduced the newly appointed association members and presented them with tokens of appreciation. Principal Mr. Adolf Marvel Raj encouraged students to embrace every opportunity and participate with enthusiasm. Association President Mr. Sailendra Kumar Srivastava then unveiled the day's schedule.

**GEMS POLYTECHNIC
COLLEGE**Accredited Programs
CIVIL | EEE | EEE | EEE | MECH

ASSOCIATION OF
DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING

**TECH FEST**

It's a fantastic way to celebrate Engineers Day!
A tech fest is a perfect opportunity to honour the creativity, innovation,
and technical skills of engineers.

Technical Events

1. Technical Quiz
2. Seminar
3. Paper Presentation
4. See and List the Equipments
5. Circuit Making
6. Circuit Debugging

Date : 13 & 14th Sep 2024
Venue : GPC Seminar Hall

Faculty Coordinator
Mr. V. David Naik

Student Coordinator
Mr. Ujjwal Kumar

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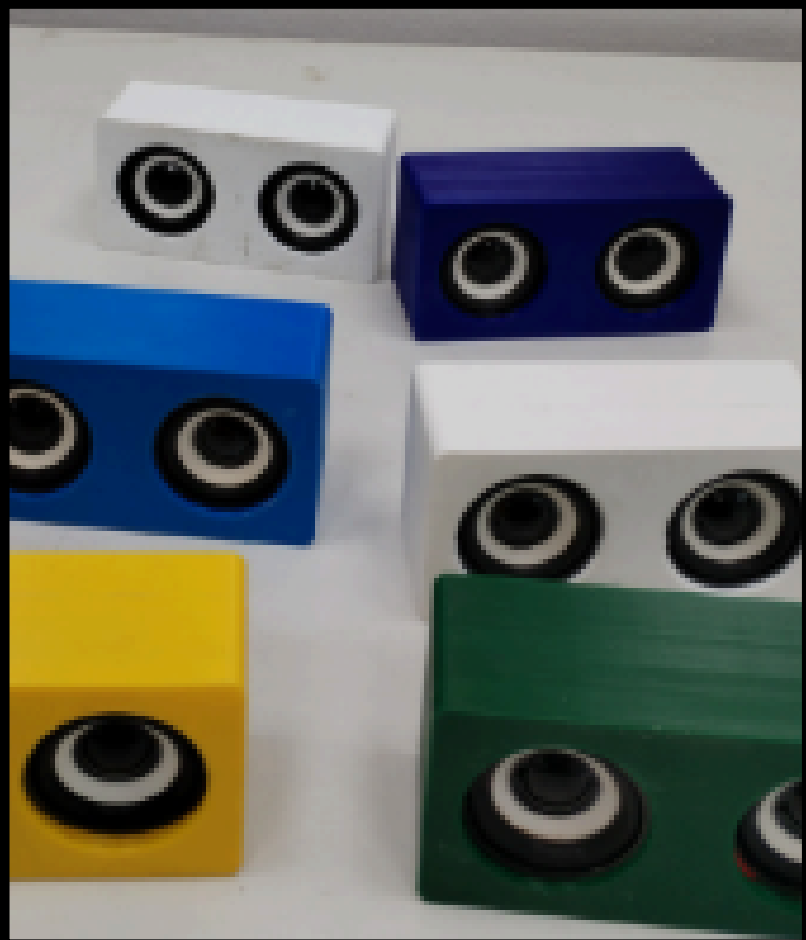
➤➤➤ GUEST LECTURE ON MICROPROCESSOR & ASIC

On 8th October 2024, the EEE Department of GEMS Polytechnic College hosted a guest lecture by Mr. Blessen Isaac, Senior Engineer, NVIDIA, Bangalore, for third-year EEE and EE students. With 34 participants, the session covered Microprocessors and Application-Specific Integrated Circuits (ASIC), blending theory with real-world applications through industry examples. Interactive discussions encouraged critical thinking, creativity, and problem-solving, earning high appreciation from students. The department thanked Mr. Isaac and looks forward to more industry-focused sessions.



SKILL DEVELOPMENT PROGRAM

On 18th July 2024, the GPC Institute Innovation Cell (IIC), in collaboration with the GPC Skill Development Center, organized an Innovation and Design Thinking Activity titled "TheMakers Lab Workshop: Build Your Own Bluetooth Speaker" for 2nd-year Electrical & Electronics Engineering (EEE) students. The event, aimed at fostering innovation and technical expertise, saw the participation of 24 students. Mrs. Pameela, the HOD of the EEE Department, graced the workshop with her presence, while Mrs. Catharine, an IIC member, and Mr. Himanshu, a trainer from Bezallel Skiligence Pvt Ltd, provided technical guidance.



The workshop featured activities such as soldering, 3D printing, assembling components, and a crossword challenge, allowing students to gain hands-on experience. Mr. Raghunath, President of GPC IIC, inaugurated the event with an inspiring note on the importance of innovation and entrepreneurship. By the end of the workshop, students successfully designed and assembled fully functional Bluetooth speakers, marking a successful and enriching learning experience.

➤➤➤ INDUSTRIAL VISIT



On 25th September 2024, the EEE Department of GEMS Polytechnic College organized an industrial visit to WALWHAN Solar BH Ltd, a 25 MW solar plant in Gaya. The visit provided 2nd and 3rd-year students hands-on exposure to solar energy systems, including solar panels, inverters, transformers, and grid connections. Students gained practical insights into renewable energy operations, SCADA systems, and fault protection mechanisms. This enriching experience enhanced their understanding of solar power generation and its applications, bridging the gap between theoretical knowledge and real-world engineering practices.

➤➤➤ SUCCESS STORIES

MR. PREM KUMAR (BATCH:2021-2024):



I am Prem Kumar, a proud alumnus and batch topper of the Electrical & Electronics Engineering (EEE) Department at GEMS Polytechnic College. I'm deeply grateful to this esteemed institution for shaping my academic journey and future.

The EEE Department offers hands-on learning with excellent faculty support and well-equipped labs. GEMS Polytechnic provides top-notch infrastructure—advanced computer labs, a rich library, modern canteen, and facilities for sports and extracurriculars.

Industrial visits, workshops, and seminars boosted my technical skills and confidence. The college fosters innovation, teamwork, and all-round development.

My heartfelt thanks to the Principal, EEE faculty, and management for their dedicated efforts in creating such a nurturing and inspiring learning environment.



**“EXPOSURE TO THE REAL WORLD
INSPIRES INNOVATION IN THE YOUNG
MINDS OF TODAY.”**





Department Toppers

Odd Semester 2024-2025



Congratulations

I SEM



1st

Mr. Sonu Kumar



2nd

Mr. Raviraj Kumar



3rd

Ms. Prachi Kmari

III SEM



1st

Ms. Kajal Kumari



2nd

Mr. Devanshu Kumar



3rd

Ms. Sapna Kumari

V SEM



1st

Ms. Rimjhim Dixit



2nd

Ms. Sapna Kmari



2nd

Mr. Sailendra Kumar



3rd

Mr. Ujjwal Kumar



3rd

Ms. Amrita Kumari

Editorial Members:

1. Ms. Khushboo Kumari - III,
2. Ms. Kajal Kumari - II,
3. Mr. Devanshu - II