



GOVERNMENT POLYTECHNIC, SHEOHAR

Department of Mechanical Engineering

MechPulse

Technical Magazine

MechPulse 2K25



STUDENT ACHIEVEMENT AND ACTIVITY

ABOUT THE INSTITUTE

MECH PULSE 2025



GOVERNMENT POLYTECHNIC SHEOHAR

Government Polytechnic Sheohar is one of the premier technical institutions in the state of Bihar, dedicated to imparting quality technical education and fostering professional excellence among students.

Established with the vision of creating skilled, competent and industry-ready diploma engineers, the institute offers course in various branches of engineering and technology.

The institute is approved by AICTE, New Delhi and affiliated to the State Board of Technical Education (SBTE), Bihar.

With a strong focus on academic rigor, practical learning and overall personality development, the institute strives to shape the future of its students and empower them to contribute effectively to the nation's progress.



AT A GLANCE



Establishment Year : 2015



Type : Government



Affiliation : SBTE, Bihar



Approval : AICTE, New Delhi



Location : Sheohar, Bihar



Campus Type : Co-educational



INFRASTRUCTURE & FACILITIES

- ✓ Well-equipped laboratories and workshops
- ✓ Smart classrooms and digital learning resources
- ✓ Central library with wide range of books, journals & e-resources
- ✓ Wi-Fi enabled campus
- ✓ Sports facilities and cultural activities
- ✓ Separate hostels for boys
- ✓ Safe, green and conducive environment



SEAT AVAILABILITY (2025)

BRANCH	INTAKE CAPACITY
Civil Engineering	120
Mechanical Engineering	60
Electrical Engineering	60
Electronics Engineering	60
Computer Science & Engineering	60
TOTAL INTAKE	360



Empowering students with skills, knowledge and values to build a better tomorrow.



COURSES OFFERED

- ⚙ Civil Engineering
- ⚙ Mechanical Engineering
- ⚙ Electrical Engineering
- ⚙ Electronics Engineering
- ⚙ Computer Science & Engineering



OUR COMMITMENT

We are committed to create a dynamic learning environment where students are encouraged to think, innovate and excel. The institute continuously works towards strengthening academic standards, industry collaboration and skill development to ensure bright career opportunities for all.



WHY CHOOSE US?



Experienced & Dedicated Faculty



Industry Relevant Curriculum



Practical Oriented Learning



Placement Assistance



Holistic Development



Eco-friendly Campus



LEARN • INNOVATE • EXCEL
BUILDING SKILLS, SHAPING FUTURES



PRINCIPAL'S MESSAGE

MECH PULSE 2025

It gives me immense pleasure to present **“MECH PULSE 2025”**, the annual magazine of the Department of Mechanical Engineering, at **Government Polytechnic, Sheohar**.

A magazine is not merely a collection of articles and photographs; it is a reflection of the creativity, achievements, aspirations, and collective efforts of students and faculty members. *Mech Pulse 2025 showcases the academic excellence, technical innovations, co-curricular accomplishments, and vibrant activities of our department throughout the year.*



I sincerely appreciate the dedicated efforts of the Editorial Team, faculty members, and students whose hard work and enthusiasm have made this publication possible. Their contributions reflect the spirit of excellence and continuous improvement that our institution strives to nurture.

“Success is achieved when knowledge is transformed into innovation and innovation into service for humanity.”

I wish all readers an enjoyable and enriching experience with **Mech Pulse 2025**.



Principal
Dr. Diwakar Bhagat
Principal
Government Polytechnic, Sheohar



LEARN | INNOVATE | EXCEL



HOD'S MESSAGE

It gives me great pleasure to present **"MECH PULSE 2025"**, the annual magazine of the Department of Mechanical Engineering, Government Polytechnic, Sheohar.

This magazine reflects the academic achievements, technical innovations, creative talents, and extracurricular accomplishments of our students and faculty members. Mechanical Engineering is a dynamic field that plays a vital role in technological progress and industrial development. Our department remains committed to providing quality technical education, practical exposure, and opportunities for holistic growth.

I congratulate the Editorial Team for their dedicated efforts in compiling this publication and appreciate all contributors for sharing their knowledge, ideas, and experiences. I am confident that *Mech Pulse 2025* will inspire students to pursue excellence, innovation, and lifelong learning.

“Engineering is the art of transforming ideas into reality.”

I extend my best wishes to all readers and contributors.

Mr. Rajesh Kumar

Head of Department

Department of Mechanical Engineering

Government Polytechnic, Sheohar



*Ideas fuel innovation,
innovation drives progress,
and progress shapes
a better tomorrow.*

EDITOR'S MESSAGE

Welcome to **"MECH PULSE 2025"**, a platform that celebrates the spirit, creativity, and achievements of the Mechanical Engineering Department.

This magazine is a collective effort of students and faculty members, showcasing departmental activities, technical articles, achievements, creative expressions, and memorable moments from the academic year. It serves as a reflection of our journey, growth, and commitment to excellence.

We sincerely thank the Principal, HOD, faculty members, contributors, and students whose support and enthusiasm made this publication possible. We hope that every page of this magazine informs, inspires, and motivates its readers.

**“Knowledge grows when it is shared,
and innovation thrives when ideas are expressed.”**

Happy Reading!

Editor-in-Chief

Mr. Shishu Ranjan

Lecturer

Department of Mechanical Engineering
Government Polytechnic, Sheohar

Co-Editor

Mr. Kapil Deo Kumar

Lecturer

Department of Mechanical Engineering
Government Polytechnic, Sheohar

.. ABOUT .. THE DEPARTMENT

DEPARTMENT OF MECHANICAL ENGINEERING



The Department of Mechanical Engineering was established with the objective of producing technically competent, skilled and socially responsible diploma engineers. The department is committed to imparting quality technical education with a strong foundation in theory, practical skills and innovative thinking to meet the ever-changing needs of industry and society.



ABOUT THE DEPARTMENT

The department offers a three-year Diploma in Mechanical Engineering program approved by SBTE, Bihar. It blends classroom learning with hands-on training to develop strong fundamentals and practical competence. The curriculum is designed to keep pace with technological advancements and industry requirements.



COURSE OFFERED

- Diploma in Mechanical Engineering

Duration: 3 Years (6 Semesters)

Intake Capacity: 60 Seats



KEY AREAS OF LEARNING

- Engineering Mechanics
- Thermal Engineering
- Manufacturing Technology
- Machine Design
- Industrial Engineering
- Fluid Mechanics
- Metrology & Quality Control
- Computer Aided Engineering
- Automobile Engineering
- Energy & Environment



STRENGTH OF THE DEPARTMENT

- Well qualified, experienced and dedicated faculty members
- Well-equipped laboratories with modern equipment
- ICT enabled classrooms and smart teaching practices
- Strong emphasis on practical training and industry exposure
- Active participation in co-curricular and extracurricular activities



LABORATORIES

The department is well supported by spacious and well-equipped laboratories such as:

- Engineering Mechanics Lab
- Strength of Materials Lab
- Thermal Engineering Lab
- Fluid Mechanics Lab
- Manufacturing Workshop
- Machine Shop
- Metrology & Measurement Lab
- CAD/CAM Lab
- Automobile Lab



ACHIEVEMENTS & ACTIVITIES

STUDENT ACHIEVEMENTS

Our students regularly excel in academic results, project competitions, technical events and sports at institute, district and state levels.

TECHNICAL ACTIVITIES

Workshops, seminars, industrial visits and expert lectures are organized to enhance technical knowledge and practical exposure.

PROJECTS & INNOVATION

Students are encouraged to undertake innovative projects that solve real-life problems and promote creativity and research aptitude.

INDUSTRY INTERACTION

The department maintains interaction with industries to ensure industry-oriented training and better placement opportunities.



OUR COMMITMENT

We are committed to nurturing skilled diploma engineers with ethical values, professional competence and a spirit of innovation. The department strives to create an environment that promotes academic excellence, practical skills and overall personality development for a successful career and lifelong learning.

Building Skills... Shaping Careers... Serving Society...

LEARN • INNOVATE • EXCEL



FACULTY OF



MECHANICAL ENGINEERING DEPARTMENT

HEAD OF DEPARTMENT



Prof. Rajesh Kumar

HOD
Mechanical Engineering

FACULTY MEMBERS



Prof. Vikash Kumar

Lecturer
Mechanical Engineering



Prof. Kapil Deo Kumar

Lecturer
Mechanical Engineering



Prof. Shishu Ranjan

Lecturer
Mechanical Engineering



Prof. Aditya Swaroop

Lecturer
Mechanical Engineering



Prof. Deepak Kumar

Lecturer
Mechanical Engineering

INSTRUCTORS



Mr. Abhay Kumar Singh

Instructor
Mechanical Engineering



Mr. Rahul Kumar

Instructor
Mechanical Engineering



EXPERIENCE

DEDICATION

EXCELLENCE



DEPARTMENT ACTIVITIES & FACILITIES



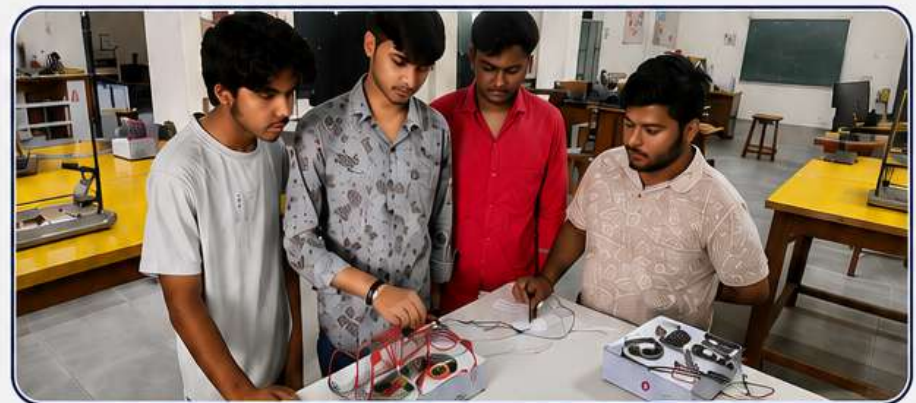
SEMINARS

Seminars are organized regularly for students by experts from academia and industry to enhance knowledge, awareness and technical skills.



SOCIAL AWARENESS PROGRAM

Students actively participate in social awareness programs on various issues to build responsible citizenship and contribute to the betterment of the society.



STUDENT ACTIVITIES

Various technical and co-curricular activities are conducted to encourage creativity, teamwork, leadership and overall development of students.



NEWLY ADMITTED STUDENTS

We welcome our new students to the Mechanical Engineering family and wish them all the best for a bright and successful academic journey.



LEARN

INNOVATE

EXCEL



DEPARTMENT GALLERY



START-UP OUTREACH

Inspiring session with budding entrepreneurs to promote innovation, self-reliance and start-up culture among students.

.....



MATHEMATICS DAY

Celebrating the birth anniversary of Srinivasa Ramanujan through mathematical activities, quizzes and interactive sessions.

.....



AGNIVEER PROGRAM

Awareness program for youth on Agneepath scheme and career opportunities in the Indian Armed Forces.

.....



LEARN

INNOVATE

EXCEL



DEPARTMENT GALLERY



NASHA MUKTI ABHIYAN

Awareness program organized to motivate students towards a drug-free life and build a healthy, responsible society for a developed India.

.....

PLEDGE ON NASHA MUKTI

Students and faculty taking a pledge to stay away from drug abuse and contribute towards a clean and healthy environment.

.....



PARENTS TEACHER MEET

A constructive interaction with parents to discuss students' academic progress, behavior and overall development for better future.

.....



LEARN

| INNOVATE

| EXCEL



GALLERY



PLANTATION PROGRAM



REPUBLIC DAY



JOB FAIR DAY

GALLERY



UMANG PRIZE DISTRIBUTION



STUDENT CREDIT CARD AWARENESS



TEACHERS DAY CELEBRATION

MOTIVATION & QUOTES



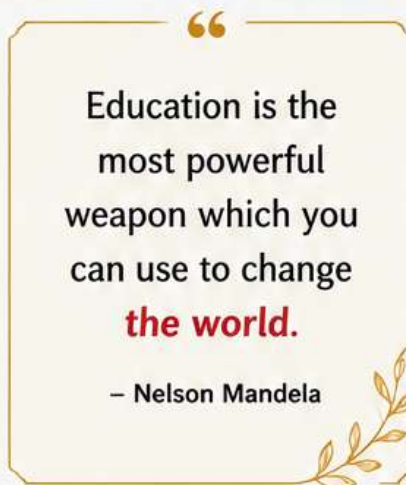
The *future* belongs to those
who *believe* in the
beauty of their *dreams*.

– Eleanor Roosevelt



The only way to
do **GREAT WORK**
is to **LOVE** what
you do.

– Steve Jobs



Education is the
most powerful
weapon which you
can use to change
the world.

– Nelson Mandela



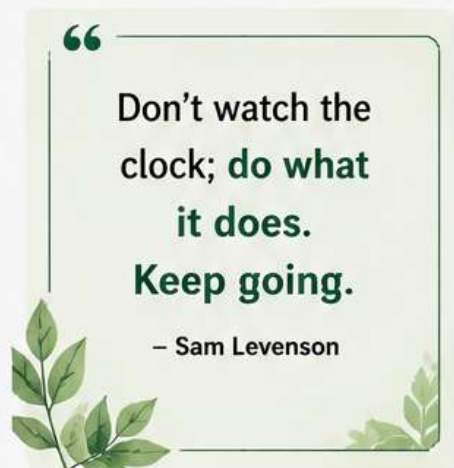
SUCCESS
IS NOT FINAL,
FAILURE
IS NOT FATAL:
IT IS THE COURAGE
TO CONTINUE
THAT COUNTS.

– Winston Churchill



DISCIPLINE TODAY, **SUCCESS**
TOMORROW.

– Unknown



Don't watch the
clock; **do what**
it does.
Keep going.

– Sam Levenson



TEAMWORK



Coming together is
a beginning.
Keeping together is
progress.
Working together is
success.



The expert in
anything was
once a
beginner.

– Helen Hayes

DREAM ♦ BELIEVE ♦ PLAN ♦ WORK ♦ ACHIEVE
Your Future is Created by What You Do Today, Not Tomorrow.