



Government Polytechnic, Lakhisarai

(Department of Science & Technology)

Government of Bihar, Patna

KNOWLEDGE | SKILLS | OPPORTUNITIES | BETTER TOMORROW

Learn
Create
Innovate
Excel

MECH X TREME

GEAR UP FOR A BETTER TOMORROW

EDITION

2025-26

DEPARTMENTAL
MAGAZINE

Department of
Mechanical Engineering



LEARN



DESIGN



INNOVATE



BUILD



EXCEL

Transforming
Ideas into
Real-World
Solutions



Engineers
Turn Possibilities
into Reality

Editorial Team of Students

Ankita Kumari
Rani Kumari
Ful Kumari
Raushan Kumar
Manav Kumar

Chief Patron

Dr. Rajesh Kumar Ranjan

Principal
Government Polytechnic, Lakhisarai

Editor

Shri Dipu Kumar
Lab Assistant

Department of Mechanical Engineering
Government Polytechnic, Lakhisarai

Co-Editor

Shri Suraj Kumar

H.O.D.,
Department of Mechanical Engg.
Government Polytechnic, Lakhisarai



MECHANICAL ENGINEERING
DRIVES A STRONGER TOMORROW





MECHXTREME

GEAR UP FOR A BETTER TOMORROW

Departmental Magazine | Department of Mechanical Engineering

EDITION
2025-26

*Ideas
Design
Innovate
Excel*

DISCIPLINE
SKILLS
INNOVATION
OPPORTUNITIES
SUCCESS

Message from the Principal

Guiding Today for a Brighter Tomorrow

Dear Students,

It gives me great pleasure to present the latest edition of our departmental magazine "MECHXTREME", a platform that showcases the creativity, talent, achievements and aspirations of our students and faculty members. This magazine reflects the vibrant spirit of the Department of Mechanical Engineering and the collective efforts towards academic excellence, innovation and holistic development.

Diploma education is a strong foundation for a successful career in the field of engineering and technology. It not only imparts technical knowledge but also develops practical skills, problem-solving ability, teamwork, discipline and a sense of responsibility. In today's rapidly changing industrial world, you must continuously upgrade your skills, embrace new technologies and remain adaptable to change.

I encourage all students to attend classes regularly, make the best use of laboratories and facilities, and actively participate in workshops, industrial visits, projects, technical competitions and co-curricular activities. These experiences will help you grow beyond the classroom and prepare you for real-world challenges.

Always uphold the values of honesty, hard work, professionalism and respect for society and the environment. Remember, success is not a destination, but a continuous journey of learning and self-improvement.

I extend my best wishes to the entire editorial team and contributors for bringing out this magazine. May "MECHXTREME" continue to inspire, inform and connect our students, and showcase the vibrant spirit of the Department of Mechanical Engineering.

Wishing you all a bright and successful future.

[Signature]
30.01.2026

Dr. Rajesh Kumar Ranjan
Principal
Government Polytechnic, Lakhisarai



Dr. Rajesh Kumar Ranjan
Principal
Government Polytechnic, Lakhisarai

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

— A. P. J. Abdul Kalam



*Building Skilled Minds
for a Better Tomorrow*



LEARN
PRACTICE
INNOVATE



SKILLED
YOUTH
STRONGER NATION



SUSTAINABLE
TECHNOLOGY
BRIGHTER TOMORROW

MECHANICAL
ENGINEERS
DRIVE
PROGRESS



MECHXTREME

GEAR UP FOR A BETTER TOMORROW

DEPARTMENTAL MAGAZINE
DEPARTMENT OF MECHANICAL ENGINEERING

EDITION
2025-26

*Ideas
Design
Innovate
Excel*

Message from the **H.O.D.**

LEARN
PRACTICE
INNOVATE
EXCEL

DEPARTMENT OF MECHANICAL ENGINEERING



Shri Suraj Kumar

H.O.D.

Department of Mechanical Engineering
Government Polytechnic, Lakhisarai

“Engineering
is the art of
turning ideas into
real solutions
for a better
tomorrow.”

Dear Students,

It gives me immense pleasure to present “MECHXTREME”, the departmental magazine of the Department of Mechanical Engineering, Government Polytechnic, Lakhisarai. This magazine is a platform to showcase the creativity, technical knowledge, innovative ideas, achievements and experiences of our students and faculty members.

Mechanical Engineering is a fascinating and dynamic field that transforms ideas into real-world solutions. As diploma students, you are the future technologists, innovators and problem solvers. I encourage you to build strong fundamentals, develop hands-on skills, adopt new technologies and maintain a spirit of inquiry. Make full use of our laboratories, workshops, industry interactions and learning opportunities to enhance your technical and professional abilities.

Discipline, teamwork, hard work and a positive attitude are the keys to success. Participate actively in projects, industrial visits, internships, seminars, technical competitions and co-curricular activities. These experiences will not only sharpen your skills but also prepare you for the challenges of the real world.

I appreciate the sincere efforts of the editorial team and all contributors for bringing out this magazine. I hope MECHXTREME will continue to inspire every student to learn, innovate and excel, and to contribute towards a better and more sustainable future.

Wishing you all a bright and successful future.

Shri Suraj Kumar

H.O.D.

Department of Mechanical Engineering
Government Polytechnic, Lakhisarai

MECHANICAL
ENGINEERING
DRIVES
PROGRESS



SKILLED
YOUTH



INNOVATIVE
IDEAS



STRONGER
TOMORROW

*Together
We Build Possibilities*



Government Polytechnic, Lakhisarai

(Department of Science & Technology)

Government of Bihar, Patna

SKILLS | KNOWLEDGE | OPPORTUNITIES | BETTER TOMORROW

LEARN
PRACTICE
INNOVATE
EXCEL

VISION AND MISSION

OUR DIRECTION... A BRIGHTER TOMORROW

*Shaping
Technicians
for a Better
Tomorrow*



VISION AND MISSION OF THE INSTITUTE



Vision of the Institute

Equipping young people with a comprehensive education and cutting-edge skills so they can contribute significantly to the state and country.



Mission of the Institute

M1

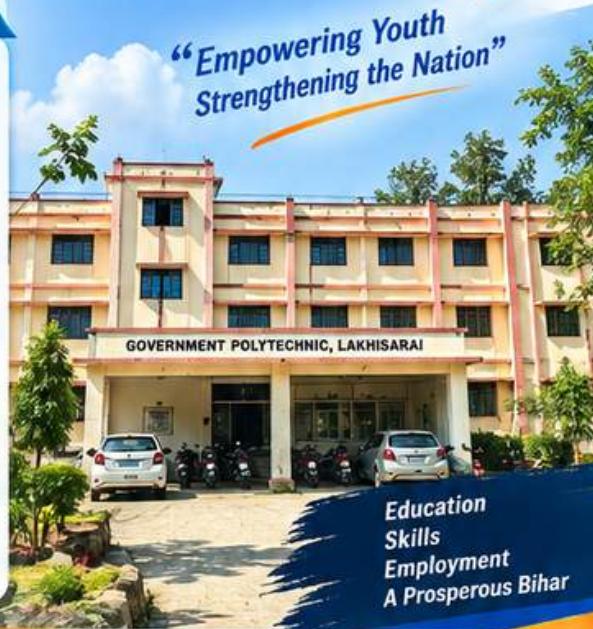
To produce technically proficient engineers with moral and ethical principles by offering professional education.

M2

To educate students and equip them with cutting-edge tools to tackle issues facing business and society.

M3

To inspire learners to love education and do their best to improve their mental, social, and physical well-being.



*"Empowering Youth
Strengthening the Nation"*

Education
Skills
Employment
A Prosperous Bihar



MECHANICAL ENGINEERING DEPARTMENT

DESIGN | ANALYSE | BUILD | SUSTAIN



Vision

To be known as per premier department of Mechanical Engineering in technical education and application of knowledge & skills to the benefit of the society.



Mission

M1

To develop state-of-the-art teaching learning facilities to interpret, apply, disseminate and create knowledge.

M2

To be dynamic, innovative and flexible in devising programs, structures and mechanisms to cope with the changes.

M3

To equip the students with academic, corporate and entrepreneurial leadership, communication skills and global awareness required by the engineering profession and society in general.

M4

To establish an environment that encourages and builds an exemplary degree of citizenship, professional integrity with ethical behavior.



Program Educational Objectives (PEOs)

PEO1

To prepare the students to lead a successful career in industries or to pursue higher studies or to support entrepreneurial endeavors.

PEO2

To build the potential of the students to bridge the gap between industry and academia with skills and innovations.

PEO3

To prepare the students to address social, technical and engineering challenges ethically.



Program Specific Outcomes (PSOs)

PSO1

Capable to establish a career in Mechanical and interdisciplinary areas with the commitment to the society and the nation.

PSO2

Study will be armed with engineering principles, analysing tools and techniques and creative ideas to analyse, interpret and improve mechanical.

*Machines
Move the World,
Ideas Drive
the Future*



FACULTY



Suraj Kumar



Subhash Kumar



Amit Ranjan



Anuj Kumar



Simran Bharati



Sakshi Sinha

Department of Mechanical Engineering

LAB ASSISTANT



Dipu Kumar



Priyanka Kumari



Department of Mechanical Engineering

INSTRUCTORS TEAM



Bipin Singh
Fitting Shop



Bibhash Kumar
Electrician



Chandan Kumar Ray
Sheet Metal Shop



Amit Pratap
Machinist



Shashant Kumar
Welding Shop



Sidhandh Anand
Carpentary Shop



Nikhil Kumar

LAB OF DEPARTMENT





CENTRE OF EXCELLENCE (COE)

SKILLING TODAY FOR A SUSTAINABLE TOMORROW

DEPARTMENT OF MECHANICAL ENGINEERING



OUR
FOCUS

The Centre of Excellence (COE) at Government Polytechnic, Lakhisarai is established to provide advanced learning, practical exposure and hands-on training in emerging technologies. It aims to bridge the gap between academia and industry, foster innovation and develop industry-ready skilled diploma engineers.

LEARN
INNOVATE
BUILD
TRANSFORM



COE – ELECTRIC VEHICLE (EV)

Driving Clean and Sustainable Mobility



Established
Year

2023



Objective

- To promote hands-on learning, research and innovation in Electric Vehicle technology.



Major Facilities

- EV Trainer Kits (MI-EV11, MI-EV12)
- Battery Management System (BMS)
- Motors (BLDC, Hub Motor)
- Charging & Discharging Setup
- EV Diagnostic Tools
- Power Electronics & Controllers



Training &
Skill Development

- Hands-on training for students
- Workshops & expert sessions
- EV maintenance and troubleshooting



Student Projects
& Innovation

- Design and fabrication projects
- Battery performance analysis
- Conversion of conventional vehicle to EV



Impact

- Skill development in green technologies
- Awareness towards clean energy
- Preparing students for future mobility sector



COE – ROBOTICS & AUTOMATION

Building Intelligent Solutions for Tomorrow



Established
Year

2025



Objective

- To develop practical skills and innovation in Robotics, Automation and Smart Manufacturing.



Major Facilities

- Industrial / Educational Robot Kits
- Robotic Arm with End Effector
- Sensors & Controllers
- Embedded Systems & IoT Modules
- Mobile Robot Platform
- Simulation & Programming Tools



Training &
Skill Development

- Hands-on training on robotics
- Programming and automation
- Project-based learning



Student Projects
& Innovation

- Line follower / obstacle avoiding robot
- Pick and place automation
- IoT based smart systems
- Robotics for real-world applications



Impact

- Enhances problem-solving and design skills
- Prepares students for advanced technologies
- Exposure to industry 4.0 and automation

GLIMPSES FROM EV COE LAB



Hands-on Learning | Practical Exposure | Industry Ready Skills

GLIMPSES FROM ROBOTICS COE LAB



From Ideas to Innovation | Robotics for Real-World Applications



OUR ACHIEVEMENTS & ACTIVITIES

- ✓ Regular hands-on training sessions for students
- ✓ Project development and demonstration
- ✓ Expert lectures and industry interactions
- ✓ Participation in technical events and competitions
- ✓ Exposure to emerging technologies
- ✓ Contributing towards a sustainable and self-reliant India



SUSTAINABLE
TECHNOLOGY



SKILLED YOUTH
STRONGER NATION



INNOVATION
FOR A BETTER TOMORROW

Engineers
for a Brighter
Tomorrow



MECHXTREME

GEAR UP FOR A BETTER TOMORROW
Department of Mechanical Engineering
Government Polytechnic, Lakhisarai

EDITION
2025-26

*Ideas
Design
Innovate
Excel*



STUDENTS' ACHIEVEMENTS

Turning Ideas into Impact

Our Students
Our Pride

Project Presentation at Hon'ble Chief Minister's Samriddhi Yatra "Tuning Innovators for a Developed Bihar"



“Our students got the opportunity to present their innovative projects during the Hon'ble Chief Minister Shri Nitish Kumar ji's Samriddhi Yatra. The initiative provided a valuable platform to showcase their technical skills, creativity and problem-solving abilities. The Chief Minister appreciated the students' efforts and encouraged them to continue innovating for the progress of Bihar and the nation.

*Innovation by Students
for a Brighter Bihar*



Team with Project at Samriddhi Yatra



Project Presentation to Hon'ble Chief Minister



Hon'ble Chief Minister Interacting with Students



Project Highlight

✓ Solar Car Project

A solar powered car model designed and developed by our students to promote clean and green mobility. The project demonstrates practical application of renewable energy and innovative design thinking.



*Clean Energy
for a Greener Tomorrow*



Key Outcomes

- ✓ Real-time platform to showcase student innovation
- ✓ Appreciation and encouragement from Hon'ble Chief Minister
- ✓ Boost to students' confidence and motivation
- ✓ Exposure to state-level initiatives and real-world applications
- ✓ Strengthening institute-industry-government connect



Our Students – Our Strength

This achievement reflects the hard work, creativity and dedication of our students and the continuous guidance of our faculty members. We remain committed to providing opportunities for our students to innovate, learn and contribute towards a developed and self-reliant India.



Dream Design Innovate Achieve



SKILLED
YOUTH



SUSTAINABLE
TECHNOLOGY



STRONGER
TOMORROW

*Together
We Build Possibilities*



Government Polytechnic, Lakhisarai

(Department of Science & Technology)

Government of Bihar, Patna

Department of Mechanical Engineering

MECHXTREME 2025-26

Ideas | Design | Innovate | Excel

*Skill
Innovate
Sustain
Lead*



STUDENTS' ACHIEVEMENTS

Participation in Bihar Vikas Mela 2025

A STEP
TOWARDS A
DEVELOPED
BIHAR



Team of Mechanical Engineering Department with Project Models at Bihar Vikas Mela 2025, Gandhi Maidan, Patna

“

Our students got the opportunity to present their innovative projects at the Bihar Vikas Mela 2025 organized by the Government of Bihar at Gandhi Maidan, Patna.

The initiative provided a valuable platform to showcase their technical skills, creativity and problem-solving abilities before the Hon'ble Chief Minister and other distinguished guests.

”

*Proud Students
Proud Department*



Cultural Programme during Bihar Vikas Mela 2025



Project Presentation to Hon'ble Chief Minister Shri Nitish Kumar at Bihar Vikas Mela 2025



Hon'ble Chief Minister Interacting with Students and Viewing Project Models



Project Spotlight

Solar Car Project

A solar powered car model designed and developed by our students, demonstrating the application of renewable energy in transportation.



Key Outcomes

- ✓ Platform to exhibit students' innovation
- ✓ Recognition and appreciation from Hon'ble Chief Minister
- ✓ Interaction with industry experts, policymakers and the public
- ✓ Boost to students' confidence and presentation skills
- ✓ Motivation for higher learning and entrepreneurship



Impact

- ✓ Showcased the technical talent of Govt. Polytechnic, Lakhisarai
- ✓ Strengthened the institute-industry-government connect
- ✓ Increased awareness about clean and sustainable technologies
- ✓ Inspired other students to innovate for societal benefit



RESEARCH & PUBLICATION

EXPLORING KNOWLEDGE | SOLVING REAL-WORLD PROBLEMS | CREATING IMPACT

Design and Development of Non-Contact Image Processing Technique to Monitor Surface Texture during Turning

By: **Shri Suraj Kumar**

H.O.D., Department of Mechanical Engineering,
Government Polytechnic, Lakhisarai

Research
for a Better
Tomorrow



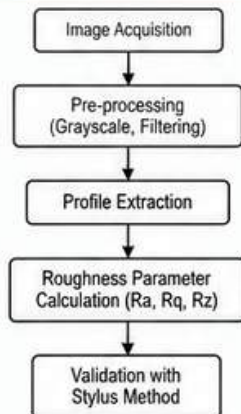
Abstract

Surface roughness plays an important role in determining the functional performance and quality of machined components. Conventionally the surface roughness parameters measurement is done with stylus sylvus instruments. Measurement with stylus is disturbing and is of contact type, it is not suitable for online or non-contact measurement. There is a growing need for a reliable, online and non-contact method for surface roughness parameter measurements. In the last few years, advancement in image processing techniques have provide a basis for developing image-based surface roughness measuring techniques. This paper investigates the effect of cutting speed and feed rate on surface roughness in turning operations on CNC Lathe machine synchronized with a camera and an output device where images are captured and recorded. The experiments were conducted using three different spindle speeds (1200, 1500, and 1800 rpm) and three feed rates (100, 200, and 300 mm/min) on a selected workpiece material. Surface roughness parameters, namely Ra, Rq, and Rz, were measured for each combination of input parameters through conventional stylus probe method. This study investigates the effect of cutting speed and feed rate on surface roughness in turning operations. Experimental data has been validated through MATLAB and agreed with close relation. The result thus presented in the paper would certainly be a great interest of researcher and industrialist working in this field.

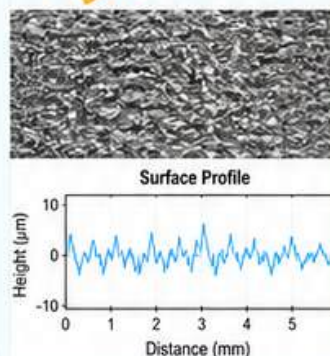
Keywords: Cutting speed; Feed rate; stylus method; Image process: Roughness measurement; MATLAB; Flow chart, Code; Non-contact method;



Experimental Setup: CNC Lathe with Camera



Flow Chart of Image Processing Method



Surface Profile Extracted using MATLAB



Shri Suraj Kumar

H.O.D.

Department of Mechanical Engineering
Government Polytechnic, Lakhisarai



RESEARCH FOCUS AREAS

- Non-Contact Surface Metrology
- Image Processing in Manufacturing
- CNC Machining and Process Optimization
- Real-time Monitoring and Automation
- MATLAB Based Data Analysis
- Smart Manufacturing & Industry 4.0



Publication

- Research Paper (Presented/Published)
- Work under the guidance of Shri Suraj Kumar (H.O.D.)



KEY OUTCOMES

- ✓ Non-contact roughness measurement using image processing
- ✓ Effect of cutting speed and feed rate on surface texture
- ✓ Good agreement between experimental (stylus) and MATLAB results
- ✓ Cost-effective and reliable approach
- ✓ Scope for online and real-time measurement

“Research is the bridge between ideas and a better tomorrow.”

– Shri Suraj Kumar



IDEAS
RESEARCH
INNOVATION
IMPACT

GOVERNMENT POLYTECHNIC, LAKHISARAI

DEPARTMENT OF MECHANICAL ENGINEERING

Technical Learning • Professional Development • Industry Exposure

TECHNICAL EVENT / SEMINAR / WORKSHOP

Student Engagement, Skill Development & Technical Activities

01 TECHNICAL SEMINAR

AI & Technology: Changing the Way We Live

- Date: 10 April 2026
 - Represented by: Nexgen Learning Institute of Technology
 - Resource Person: Er. Rohit Kumar (Trainer Officer)
 - Organized by: Department of C.S. & Electronic Engg.
 - Coordinator: Shri Suraj Kumar
- Focus: AI awareness, emerging digital technologies, education/industry applications and employability.

02 TECHNICAL SEMINAR

AutoCAD & Digital Drafting

- Date: 10 April 2026
 - Represented by: Nexgen Learning Institute of Technology
 - Resource Person: Er. Nikhil Raj (Trainer Officer)
 - Organized by: Civil, Mechanical & Electrical Engineering
 - Coordinator: Shri Suraj Kumar
- Focus: CAD-based drafting, accuracy, standardization, digital drawing practices and industry-relevant skills.

03 WORKSHOP / STTP / ADD-ON TRAINING

Employability Skill Training Programme - Mahindra Pride Classroom

- Coordinator: Shri Suraj Kumar, Department of Mechanical Engineering
- Implementing organization: Naandi Foundation - Mahindra Pride Classroom
- CSR support: Mahindra & Mahindra
- Mode: Offline | Duration: 40 Hours / 7 Days / 20 Sessions
- Target group: Final-year passing-out female Polytechnic students
- Core areas: Life Skills, Soft Skills, Communication, Presentation, Interview Skills, Financial Literacy, Research, Creativity & Problem Solving

KEY OUTCOMES

- ✓ Exposure to current and emerging technologies and professional practices
- ✓ Improved digital/CAD awareness, communication and presentation skills
- ✓ Development of interview readiness, workplace behaviour and employability
- ✓ Support for continuous learning, problem solving and interdisciplinary participation

PHOTO EVIDENCE & STUDENT PARTICIPATION



GOVERNMENT POLYTECHNIC, LAKHISARAI

OTHER ACTIVITIES / AWARENESS & OUTREACH PROGRAMMES

Social Responsibility • Entrepreneurship • Youth Development • Road Safety

INSTITUTIONAL ENGAGEMENT & SOCIAL RESPONSIBILITY

The institute conducts awareness, outreach and social-development programmes to promote responsible citizenship, entrepreneurship, safety, gender equality and healthy youth development.

01 BETI BACHAO BETI PADHAO

Date: 01 August 2025

- Girl child education & empowerment
- Gender equality and equal opportunities
- Women's dignity, rights and safety
- Collective pledge and student sensitization



02 MSME / ENTREPRENEURSHIP AWARENESS

Date: 29 August 2022

- Entrepreneurship & self-employment
- Government and MSME schemes
- Banking/credit support & procedures
- Jeevika and enterprise-development opportunities



03 NASHA MUKTI ABHIYAN / NASHA MUKT YUVA

Date: 02 August 2026

- Awareness against substance abuse
- Healthy, disciplined & responsible lifestyle
- My Bharat portal engagement
- Collective oath / Sankalp activity



04 ROAD SAFETY AWARENESS PROGRAMME

Date: 01 August 2026

- Traffic rules and road signs
- Helmet, seat-belt & speed discipline
- Pedestrian and responsible road use
- Interaction with Road Transport official



KEY IMPACT / OUTCOMES

- ✓ Students developed greater awareness of social responsibility, safety and responsible citizenship.
- ✓ Participants gained exposure to entrepreneurship, government support mechanisms and self-employment opportunities.
- ✓ Youth were encouraged to adopt healthy, disciplined lifestyles and contribute positively to society.
- ✓ Programmes strengthened interaction among students, faculty, government officials and community stakeholders.

PHOTO EVIDENCE



Beti Bachao Beti Padhao



MSME / Entrepreneurship



Nasha Mukti Abhiyan



Road Safety

GOVERNMENT POLYTECHNIC, LAKHISARAI

Departmental / Institutional Documentation • Awareness • Outreach • Student Development

LEARN • PARTICIPATE • SERVE • BUILD RESPONSIBLE CITIZENS

STUDENT PROJECT

SUSTAINABILITY • INNOVATION • WASTE-TO-ENERGY

WASTE PLASTIC TO FUEL

Conversion by Pyrolysis

A student project exploring the conversion of waste plastic into useful fuel, gas and char through a controlled pyrolysis process.

PROJECT HIGHLIGHTS

- PROCESS** Pyrolysis in the absence of oxygen
- INPUT** Waste plastic
- OUTPUT** Fuel oil • Syngas • Char
- FOCUS** Waste management & sustainability

STUDENT GROUP

1. Ankita Kumari
2. Ful Kumari
3. Rani Kumari

PROJECT DOCUMENTATION & SCIENCE POSTERS

PAGE 1

APPARATUS REQUIRED

PYROLYSIS APPARATUS — SCHEMATIC —

APPARATUS REQUIRED:

- Reactor Chamber sealed vessel for pyrolysis
- Furnace / Heater provides controlled heating 300–500°C
- Condenser cools vapors into liquid bio-oil
- Cooling Water System water inlet & outlet for condenser
- Collection Flask collects condensed bio-oil
- Gas Collection System for syngas/byproduct gases
- Nitrogen Gas Supply

at high temperature (400–600°C). It converts polymers into smaller molecules, converting waste plastic into usable fuel oil, gas, and char.

Converts waste into valuable fuel resource
Lowers greenhouse gas emissions vs. incineration

1. PLASTIC WASTE → **2. PYROLYSIS REACTOR** → **3. CONDENSER** → **4. FUEL OIL**

No Oxygen • 400–600°C • Heat

Liquid • Fuel Oil Ready to use
Diesel-like fuel • Ready to use

PAGE 3

Fuel

- Bio-Oil: High energy liquid fuel, usable in generators & engines
- Yield: ~35–40% of biomass input
- Application: Renewable diesel replacement, heating fuel

Fuel

- Syngas: Mixture of CO, H₂, CH₄ for power generation
- Yield: ~25–30% of biomass input
- Application: Cooking, electricity, industrial heating

Char

- Biochar: Carbon-rich solid residue
- Yield: ~20–25% of biomass input
- Application: Soil enhancer, carbon sequestration, water filtration

ENVIRONMENTAL BENEFITS

PAGE 4

Temperature: 50–150°C • Moisture removal

2. PYROLYSIS STAGE

- Chamber is sealed and heated to 400–600°C in oxygen-free environment • Plastic breaks down thermally into hydrocarbon vapors and gases.
- Solid residue (char/carbon) remains in the reactor.

No oxygen present
Thermal decomposition occurs

3. VAPOR TRANSFER

- Generated hydrocarbon vapors flow upward through insulated transfer pipe.
- Vapors move from the pyrolysis reactor toward the condenser unit.
- System ensures sealed transfer to prevent leakage.

Hot vapors transported via steel pipeline

4. CONDENSATION

- Hot vapors enter the condenser coil and are cooled by circulating cooling water.
- Vapors condense back into liquid form as they cool down.
- Converts gaseous hydrocarbons into liquid fuel.

Cooling water input/output
Vapor cools to ~30–50°C



GOVERNMENT POLYTECHNIC, LAKHISARAI

TECHNICAL EDUCATION FOR A BRIGHTER TOMORROW

LEARN | CONNECT | GROW | TOGETHER

*Our Alumni
Our Pride*

ALUMNI INTERACTION

Reconnect • Relate • Inspire

"A journey of learning, growth and endless possibilities."



Date
02 August 2024



Venue
Seminar Hall
Government Polytechnic,
Lakhisarai



Sakshi Sinha
(Session: 2020-23)
Our Esteemed Alumna

"Believe in your potential, stay consistent, and keep learning. The skills you gain today will open doors to a brighter tomorrow."

— Sakshi Sinha
(Session: 2020-23)



About the Session

The Department of Science & Humanities, Government Polytechnic, Lakhisarai organized an Alumni Interaction Session with our esteemed alumna, **Ms. Sakshi Sinha** (Session: 2020-23). The session provided a wonderful platform for students to interact, learn, and gain valuable insights from her journey, experiences, and valuable guidance on career growth, higher studies, and skill development.



Key Discussion Points



Student life experiences and memorable moments



Career opportunities after graduation



Importance of technical skills and continuous learning



Preparation for higher studies and competitive exams



Personality development and communication skills



Guidance to current students



Insights for Students

- ✓ Set clear goals and be disciplined
- ✓ Make the best use of college time
- ✓ Develop technical and soft skills
- ✓ Stay updated with industry trends
- ✓ Believe in yourself and keep learning



Student Interaction

The session was highly interactive with enthusiastic participation from students. Many students asked questions related to career guidance, higher education, placements, and real-world experiences, which were addressed with great clarity and motivation by the alumna.



Impact & Takeaways

- ✓ Motivated students for a better future
- ✓ Increased awareness about career opportunities
- ✓ Helped students set clear goals
- ✓ Strengthened alumni-student bond
- ✓ Valuable guidance for higher studies and skill development

*Alumni
Make Difference*

*"Once a part of our institute,
always a part of our family."*



Learn
from Experience



Build
Strong Networks



Create
a Better Future

GOVERNMENT POLYTECHNIC, LAKHISARAI | DISCIPLINE | SKILL | OPPORTUNITY | SUCCESS

Alumni Interaction

सीखा जो कल, बाँटें आज,
अनुभव से सजाएँ अपना काज।
अलुमनी से मिले नई पहचान,
सपनों को मिले उड़ान।
ज्ञान, प्रेरणा और विश्वास—
सफलता की यही है आस। 🌸



🌸 एक विद्यार्थी की ओर से – हमारी Alumni के नाम

आप चले थे कभी इसी राह,
आज बने हैं हमारी चाह।
जो सपने आपने सच कर दिखाए,
वही सपने हमने भी हैं सजाए।
आपके अनुभव से राह मिली,
मुश्किलों में नई सीख मिली।
आपकी बातें बनीं प्रेरणा,
आगे बढ़ने की मिली भावना।
कल हम भी कुछ बनकर आएँगे,
अपने संस्थान का मान बढ़ाएँगे।
ये रिश्ता यूँ ही बना रहे,

गुरु, विद्यार्थी और Alumni का साथ सदा रहे। 🌸



Ankita Kumari &
Rani Kumari

आपसे मिली सीख, बनी मेरी पहचान,
आपसे ही मिला सपनों को आसमान।
आपकी सफलता देती है विश्वास,
मेहनत से पूरा होगा हर प्रयास।
कल हम भी मुकाम बनाएँगे,
अपने संस्थान का नाम रोशन कराएँगे।
ये रिश्ता यूँ ही कायम रहे,
Alumni और विद्यार्थियों का साथ सदा बना रहे।



Placement

28/01/2026, 13:45

Gmail - Details of Campus Placement Drive – 21st January 2026 - Sheikhpura, BIHAR



TPO CELL G.P. Sheikhpura <tnp.gpsheikhpura@gmail.com>

Details of Campus Placement Drive – 21st January 2026 - Sheikhpura, BIHAR

Susanta Jena <susanta.jena@bancoindia.com>

To: "TPO CELL G.P. Sheikhpura" <tnp.gpsheikhpura@gmail.com>

Cc: Ashok Prajapati <ashok.prajapati@bancoindia.com>

28 January 2026 at 13:08

Dear Sir,

Below listed are Shortlisted we will get offer letter by 05th February 2026.

SR NO	Full Name (As per Aadhar)	STATUS	Date of Birth	Mobile Number	Gender	E-Mail ID	Highest Qualification	Trade / Branch
1	ABHISHEK KUMAR	SELECTED	7-10-2008	6205158839	Man	abhishek799233@gmail.com	DIPLOMA	CIVIL
2	AKASH KUMAR	SELECTED	1-30-2007	7462826254	Man	akashgkshkumar@gmail.com	DIPLOMA	CIVIL
3	ANIKET KUMAR	SELECTED	11-23-2005	7763965646	Man	aniketkumarlkr55@gmail.com	DIPLOMA	MECHANICAL
4	ANKITA KUMARI	SELECTED	9-25-2007	6201537918	Woman	ankitakumari92496@gmail.com	DIPLOMA	MECHANICAL
5	BABBI KUMAR	SELECTED	1-7-2008	8797146629	Man	babbikr084@gmail.com	DIPLOMA	MECHANICAL
6	BALMUKUND KUMAR	SELECTED	1-1-2005	9661379133	Man	balmukundchauhan87@gmail.com	DIPLOMA	MECHANICAL
7	BIMLESH KUMAR	SELECTED	6-10-2005	7564041035	Man	kbimlesh104@gmail.com	DIPLOMA	MECHANICAL
8	CHANDAN KUMAR	SELECTED	12-3-2004	6203394828	Man	Rajakchandand1825@gmail.com	DIPLOMA	CIVIL
9	DHIRAJ KUMAR	SELECTED	5-16-2004	6200746972	Man	dhirajkumarnon2004@gmail.com	DIPLOMA	MECHANICAL
10	DHURV KUMAR	SELECTED	3-22-2006	8521347569	Man	dhruvs8521@gmail.com	DIPLOMA	MECHANICAL

<https://mail.google.com/mail/u/2/?ik=fe18c2b77f&view=pt&search=all&permmsgid=msg-f:1855545328575917078&simpl=msg-f:1855545328575917078>

1/7



Placement

28/01/2026, 13:45

Gmail - Details of Campus Placement Drive – 21st January 2026 - Sheikhpura, BIHAR

30	SACHIN PATEL	SELECTED	9-15-2008	9076067924	Man	sp0682667@gmail.com	DIPLOMA	MECHANICAL
31	SALONI KUMARI	SELECTED	5-2-2008	9534895863	Woman	saloni02052008@gmail.com	DIPLOMA	MECHANICAL
32	SATYA PRAKASH	SELECTED	6-26-2005	6200759641	Man	satyaparkash8051@gmail.com	DIPLOMA	MECHANICAL
33	SATYAM KUMAR	SELECTED	4-17-2006	8409220637	Man	satyamwrs58@gmail.com	DIPLOMA	MECHANICAL
34	SHIVAM KUMAR	SELECTED	3-18-2004	9341582231	Man	Shivampanhesa808442@gmail.com	DIPLOMA	MECHANICAL
35	SHWETA KUMARI	SELECTED	2-2-2007	6200188245	Woman	kumarishweta46653@gmail.com	DIPLOMA	MECHANICAL
36	SUDHIR KUMAR	SELECTED	3-4-2007	9534738653	Man	sudhirkumar0000p@gmail.com	DIPLOMA	CIVIL
37	SULABH KUMAR	SELECTED	2-15-2007	7033644726	Man	kumarsulabh13@gmail.com	DIPLOMA	MECHANICAL
38	SURYAKANT KUMAR	SELECTED	3-21-2006	9508618991	Man	suryakantkumar4555@gmail.com	DIPLOMA	MECHANICAL
39	TRIDEV KUMAR	SELECTED	1-18-2008	9534533900	Man	tridevkumar02762@gmail.com	DIPLOMA	CIVIL
40	VIKASH KUMAR	SELECTED	9-6-2002	7654403929	Man	vikashsho8877@gmail.com	DIPLOMA	MECHANICAL
41	VINAY KUMAR	SELECTED	2-1-2006	7484061967	Man	vk6779884@gmail.com	DIPLOMA	MECHANICAL

From: TPO CELL G.P. Sheikhpura <tnp.gpsheikhpura@gmail.com>

Sent: 28 January 2026 12:10

To: Susanta Jena <susanta.jena@bancoindia.com>

Subject: Re: Details of Campus Placement Drive – 21st January 2026 - Sheikhpura, BIHAR

Caution: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe

Dear Sir,

<https://mail.google.com/mail/u/2/?ik=fe18c2b77f&view=pt&search=all&permmsgid=msg-f:1855545328575917078&simpl=msg-f:1855545328575917078>

3/7

Students Corner



 TECHNICAL MAGAZINE 2025
MECHANICAL ENGINEERING

POETRY • TECHNOLOGY • FUTURE

 **THE WORLD OF TECHNOLOGY**

CIRCUITS ROBOTICS INNOVATION

With every wire and every machine,
A world of innovation can be seen.
Engineers dream, design, and create,
Building a future that can change our fate.

From robots working with human hands,
To smart machines across the lands,
Circuits, computers, tools, and code,
Technology lightens every load.

Mechanical power, electrical might,
New ideas turning darkness to light.
With skill and knowledge as our guide,
We build tomorrow with hope and pride.

Technical minds never fear the unknown.



Er Ranjit Kumar
MECHANICAL ENGINEERING
ROLL NO 24/M/15
BRANCH MECH

GP LAKHISARAI - UMANG 2026
जीपी लखीसराय - उमंग 2026
खेल महोत्सव बिहार 2026
CHAMPION: KUNDAN KUMAR



**ACHIEVEMENT 1 - 100 METER SPRINT Winner**
Kundan Kumar
100 मीटर स्प्रिंट विजेता

**ACHIEVEMENT 2 - 200 METER SPRINT 2nd Winner**
Kundan Kumar
200 मीटर स्प्रिंट द्वितीय विजेता

**ACHIEVEMENT 3 - KABADDI Mechanical Branch Defeated Civil Branch**
Captain Kundan Kumar
कबड्डी मैकेनिकल ब्रांच ने सिविल ब्रांच को हराया कप्तान कुंदन कुमार

GP COLLEGE LAKHISARAI • YEAR 2026 • SPORTS FESTIVAL

Plantation Drive



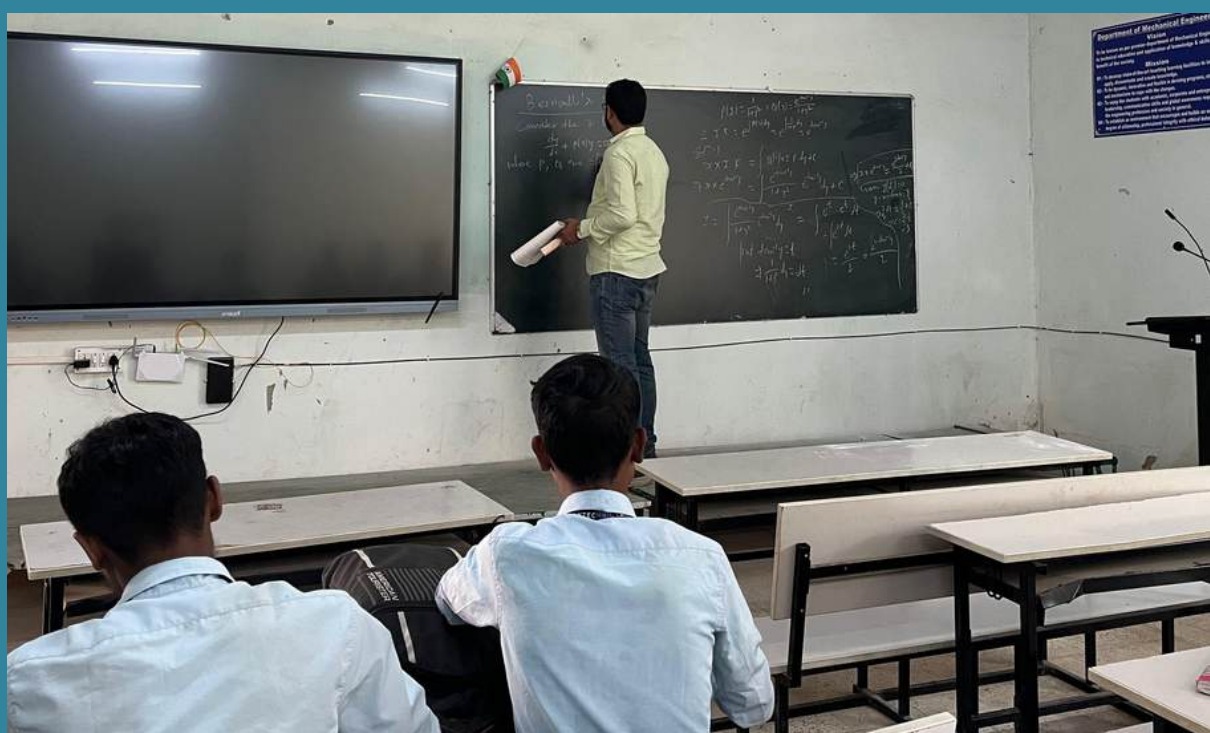
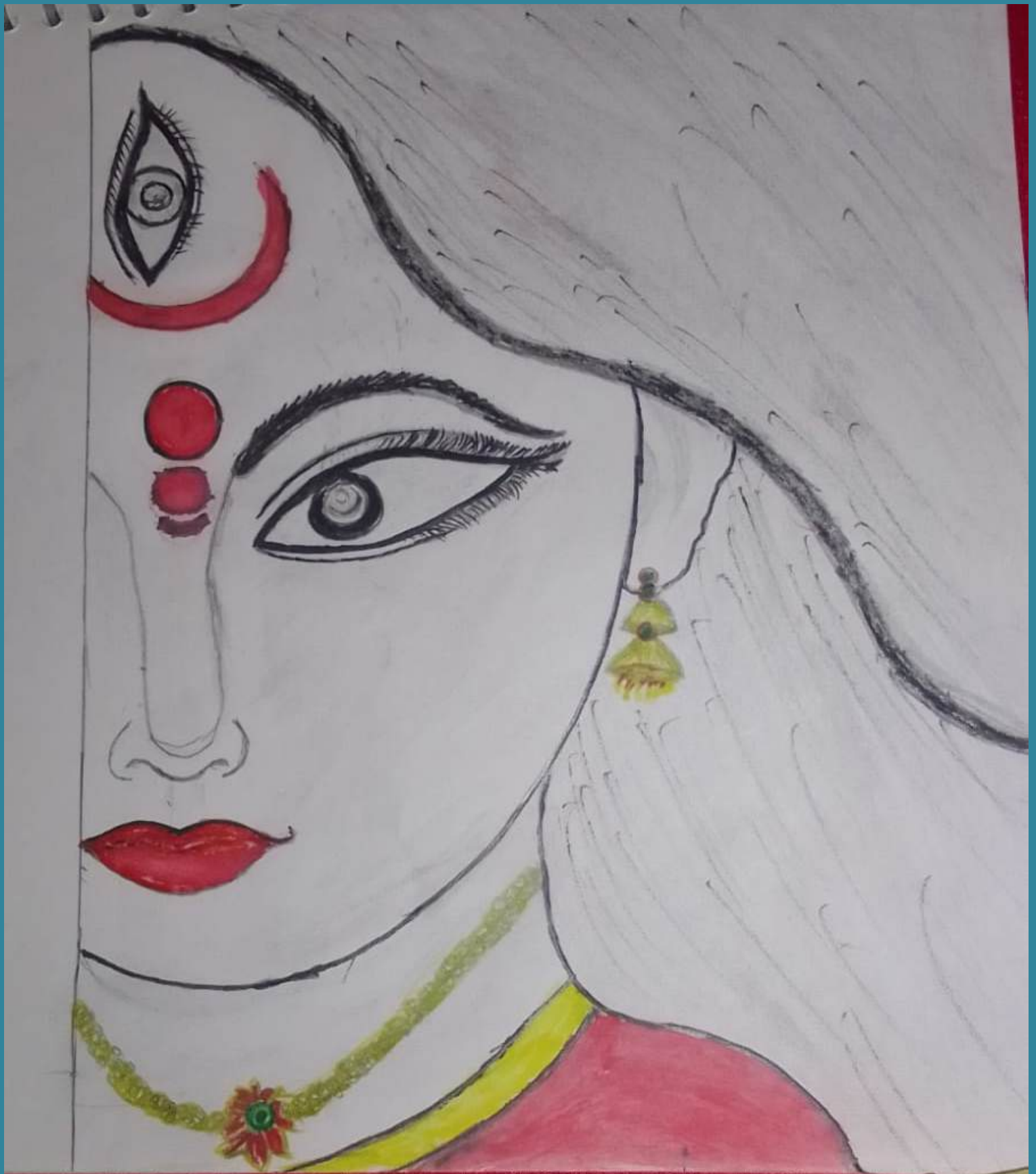


Photo Gallery



Art Gallery





Art by Mdhu , Mechanical Engg , 5 th Sem.

Design & Created By:-



Editor

Dipu Kumar
Lab Assistant in
Department of Mechanical
Engineering



Co-Editor

Suraj Kumar
H.O.D. of Mechanical Engineering

Chief Patron:-



Dr. Rajesh Kumar Ranjan
Principal
Government Polytechnic,
Lakhisarai