

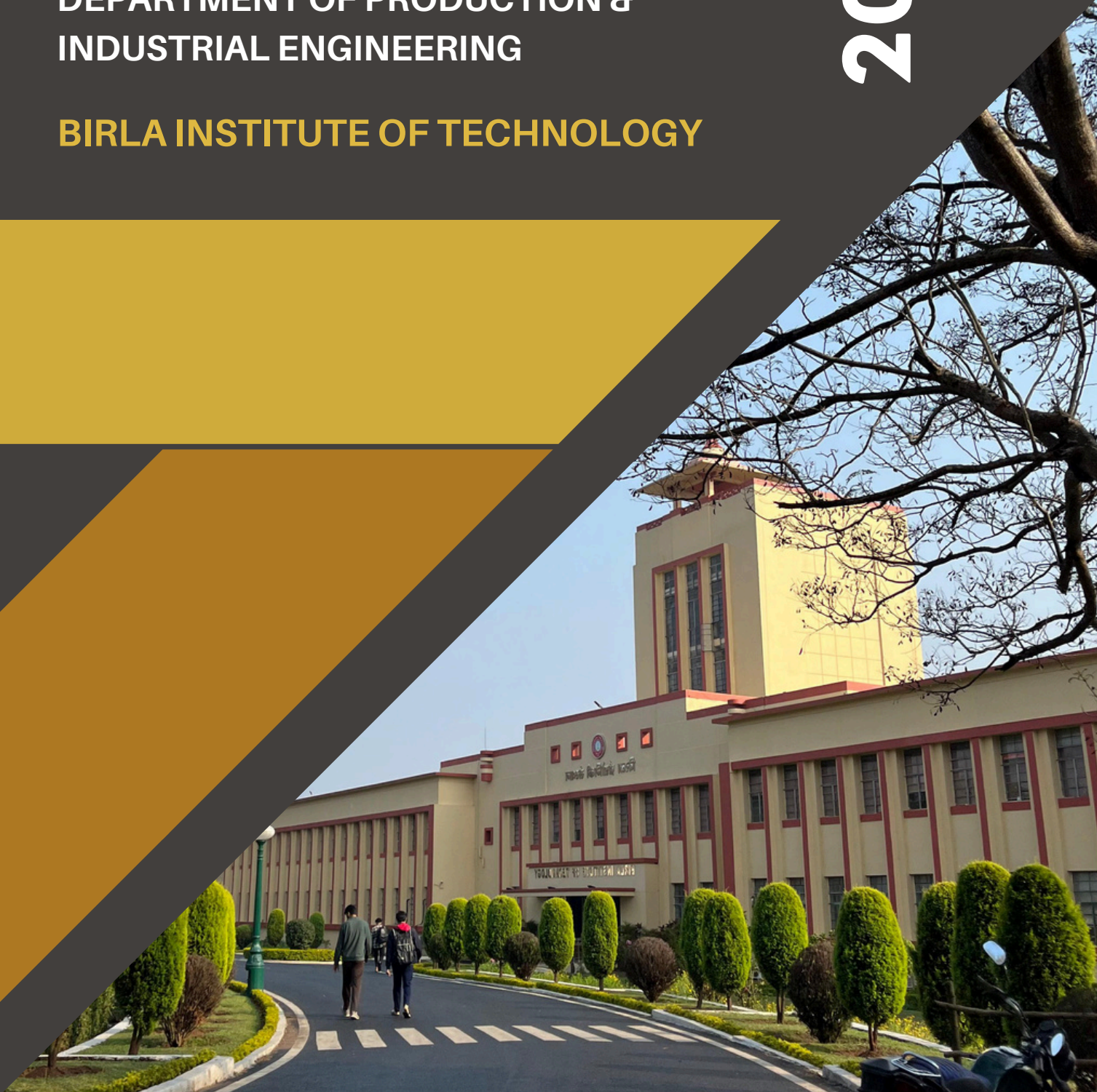


PLACEMENT BROCHURE

DEPARTMENT OF PRODUCTION &
INDUSTRIAL ENGINEERING

BIRLA INSTITUTE OF TECHNOLOGY

2024-2025





ABOUT THE DEPARTMENT

Department of Production Engineering since its inception in 1964 has been trying to impart quality education to undergraduates and train them to meet the demands of the manufacturing industry. The department has established links with the industry, R&D organizations, consultancy organizations and academic the cause of manufacturing engineering. The department sees itself as a pathfinder of emerging technologies and techniques in the area to be technologically and managerially sound to meet the challenges of the open market in the present era of globalization.

PROGRAMS OFFERED

UG PROGRAMMES

**B.Tech in Production
Engineering**

PG PROGRAMMES

**M.Tech in Automated
Manufacturing
Systems**

COURSES OFFERED

B.TECH

- PRODUCTION OPERATION MANAGEMENT
- LOGISTICS AND SUPPLY CHAIN MANAGEMENT
- STATISTICAL QUALITY CONTROL
- FOUNDRY, FORMING AND WELDING TECHNOLOGIES
- ENGINEERING ECONOMY, COSTING AND ACCOUNTING
- DESIGN OF MACHINE ELEMENTS
- MODELLING AND SIMULATION LAB
- MACHINE DRAWING AND CAD LAB
- MACHINE TOOL DESIGN
- PROJECT ENGINEERING
- WORK SYSTEM DESIGN
- OPERATIONS RESEARCH

M.TECH

- MANUFACTURING AUTOMATION
- MODELLING AND SIMULATION
- DATA ANALYTICS
- MANUFACTURING SIMULATION LAB
- ROBOTICS & ROBOT APPLICATIONS
- COMPUTER INTEGRATED MANUFACTURING
- SOFT COMPUTING IN MANUFACTURING AUTOMATION
- AUTONOMOUS SYSTEMS LAB
- COMPUTER AIDED DESIGN & DRAFTING LABORATORY

RESEARCH AREAS

- Precision forming
- Welding
- Cam and rapid prototyping
- Nontraditional manufacturing
- Metal casting and powder metallurgy
- Metalworking tribology
- Design of manufacturing systems
- Lean and sustainable manufacturing
- Planning and scheduling in manufacturing environment
- Quality and reliability engine work design and human factor engineering





LABORATORIES & FACILITIES

- **FMS AND ROBOTICS**
- **METROLOGY**
- **METALLURGY**
- **MANUFACTURING**
- **MECHATRONICS WORK STUDY**
- **ERGONOMICS METAL FORMING**
- **MACHINE TOOL & AUTOMATION**
- **NON-TRADITIONAL MANUFACTURING**
- **WELDING SHOP**
- **FOUNDRY SHOP**
- **FORGING SHOP**
- **PATTERN MAKING SHOP**

SOFTWARE

- **AUTOCAD**
- **ANSYS**
- **CREO**
- **NX-4**
- **MATLAB**
- **CATIA**
- **LINGO**
- **STAADPRO**
- **ASPENTECH**

STUDENT BODIES

Team Srijan: Leading the Charge in Formula Electric Vehicles

- Team Srijan, with 40 engineering students, has been a pioneer in Formula Student since 2007. The team has represented India at events like FS UK, FS Italy, and FS Germany, initially excelling in Combustion and now focusing on electric vehicles. Their latest prototype, "Garud," has achieved notable success in Formula Bharat and Formula Green.

Designing and Manufacturing the Vehicle

- Students working in the club undergo rigorous training in SolidWorks, ANSYS, and MATLAB. They handle all aspects of fabrication, including machining, welding, and assembly, followed by over two months of rigorous testing.

Success Beyond College

- Alumni excel in the automotive industry and management roles, thanks to the blend of engineering skills and professionalism developed within the team.

Collaborative Excellence

- While Team Srijan focuses on Formula vehicles, Team Firebolt and Team Aveon specialize in ATVs. All teams emphasize rigorous training and professional development, driving innovation and career success.



ACHIVEMENTS

- Soumil Dutta qualified GRE in 2022.
- Madhukant Prince qualified GATE 2022 with AIR 224 from Production Engineering and AIR 1427 from Mechanical Engineering Stream.
- Utkarsh qualified GATE 2022 with AIR 211 from Mechanical Engineering Stream.
- Amit Kumar secured AIR 179 (PI) in GATE 2021.
- Three students won Campus Innovathon 2020, organized by Gilbarco Veeder Root India, securing 2nd place with a cash prize and PPI offers.
- Jyoti won the Tata Steel Mind Over Matter Spark The Innovation Season 6 (2019), organized by Tata Steel.
- Aditya Kumar Lal and Aditya Singh secured first rank all over India in Deloitte Technoutsav CCTC 2019, winning a cash prize and PPOs in Deloitte US India.
- Shreya won the Mind Over Matter annual innovation challenge organized by Tata Steel.
- Aditya Singh got the first rank in the zone and was awarded a cash prize.
- Aastha Sah, member of Team Compact, stood second in the business conclave at IIM Bangalore.
- Students received PPI opportunities by finishing in top teams in the ZS Campus Beats challenge held by ZS Associates.
- Four students were selected as summer research interns at Illinois Institute of Technology, Chicago.

OUR RECRUITERS



Let's Get In Touch

CONTACT US



+91651-2275566



placement@bitmesra.ac.in



www.bitmesra.ac.in



Ranchi, Jharkhand, 835215

