BIRLA INSTITUTE
OF TECHNOLOGY
MESRA

www.bitmesra.ac.in

# DEPARTMENT OF
# CHEMICAL ENGINEERING

## PLACEMENT BROCHURE
## 2019 - 20

# ABOUT THE DEPARTMENT

The Department of Chemical Engineering provides high standard education in distinct fields of Chemical Engineering & Technology. The department provides two Undergraduate 4-year programmes and Post-Graduate programmes as well as Doctoral programmes. The department also offers a 5-year Integrated M.Sc. Food Technology programme.

**Undergraduate Programmes**

- B.E. (Chemical Engineering)
- B.E. (Plastics & Polymer)

**Post-Graduate Programmes**

- M.E. (Chemical Engineering)

The department has numerous projects sponsored by DRDL, DST, Ministry of New and Renewable Energy, Coir Board etc. to its credit. Major research areas include Nano Technology, Advanced Polymer Composites, Alternative Energy, Bio-Resources Utilization , Pollution Control, Water Treatment technologies, Polymer blends & Inter-penetrating Polymer Networks, Nano Filtration membrane, Recycling of Polymer wastes, Speciality Polymer, Colloids & Interfacial Science, Tissue Engineering, Sensors, Fuel cell membranes etc.

# COURSES OFFERED

## CHEMICAL ENGINEERING

- Fluid Mechanics
- Chemical Engineering Thermodynamics
- Process Calculations and Mechanical Operations in Chemical Engineering
- Heat Transfer Operations
- Petrochemicals and Refinery Engineering
- Numerical Methods
- Transport Phenomenon
- Mass Transfer Operations
- Reaction Engineering
- Biochemical Engineering
- Industrial Chemical Process
- Process Control and Instrumentation
- Modern Separation Process
- Process Modelling, Simulation and Optimization

## PLASTICS & POLYMER

- Fluid Mechanics
- Chemical Engineering Thermodynamics
- Process Calculations and Mechanical Operations in Chemical Engineering
- Heat Transfer Operations
- Numerical Methods
- Mass Transfer Operations
- Reaction Engineering
- Biochemical Engineering
- Industrial Chemical Process
- Process Control and Instrumentation
- Process Modelling, Simulation and Optimization
- Macromolecular Science
- Polymer Technology
- Polymer Blends and Composites
- Elastomer Technology
- Polymer Processing

## MASTER OF ENGINEERING

- Advanced Transport Phenomenon
- Advanced Mathematical Techniques in Chemical Engineering
- Process Equipment design
- Advanced Process modelling, simulation and optimization

# NOTABLE ACHIEVEMENTS

- Department of Chemical Engineering, BIT, Mesra won the Gold Trophy for the Plasticon Award in 2012 in the category of “Best Educational Institute Contributing to Plastics’ sponsored by Finolex Industries Ltd.
- Dr. A.K Sen received the National Award (2012) for Technology in Polymeric Materials by the Ministry of Chemicals and Fertilizers, Govt. of India.
- Department of Chemical Engineering, BIT Mesra won the second position in the Petrofiesta Grand Debate 2014 organized by IIT Kharagpur.
- Succesfully organized International Conference on Chemical Engineering & Advanced Polymeric Materials (ICCEAPM 2016).

# 4 STUDENTS' ACHIEVEMENTS

- Dr. Anirudha Singh (1997 Batch) currently serves as the Assistant Professor of Urology in the John Hopkins University.
- Mr. jitendra Mishra (2001 Batch) currently serves as the Country manager in Samsung Chemicals Thailand Ltd.
- Mr. Shashi Bhushan Singh (2003 Btach) currently serves as a Scientist at the Vikram Sarabhai Space Centre, ISRO.
- Mr. Mukesh Chandra Anchuri (2006 Batch) currently serves as the Co-founder and Chief Marketing Officer at PAYMATRIX.
- Mr. Prashant Kumar (2017 Batch) recieved Indira Gandhi NSS Award for the year 2015-16.
- Ms. Ankita Sinha received Plasticon Award 2012 for the Best Undergraduate Student.
- Mr. Sourav Agarwal and Mr. Manish Chandan (2017 batch) secured 2nd position in Mind Over Matter 2016 organized by TATA Steel.
- Mr. Shivam Rai(2017 batch) secured AIR-14 in Gate 2018 & got selected in BARC.
- Ms. Niharika Singh and Ms. Kayenath Khan (2018 batch) secured 1st position and Mr. Kislay Jha and Mr. Sankalp Sachdev secured 3rd position in Mind Over Matter 2017 organized by TATA Steel.
- Ms. Samiksha Gupta, Ms Kousumi Mukherjee & Mr. Roshan Kumar (2019 batch) secured 1st position in IDP challenge organized by ICT Mumbai.
- Ms. Akanksha Lakra (2019 batch) got selected research internship at Carnegie Mellon University (CMU), Pittsburgh, USA.
- Ms. Shreya Sinha and Ms. Anamika Sinha secured first position in Mind over matter 2018 organised by Tata Steel.
- Ms. Ananya Kant secured first position in Women of mettle 2018 organised by Tata Steel.

# 5 INTERNSHIPS & TRAININGS

The students have in them a varied sense of understanding in the current methods and operating procedures by the help of subsequent internships during the semester and winter breaks. In order to facilitate the students with new advancements, the department also ensures industrial visits over the period of the semester, so that the students are convinced by practical means of the theoretical sorts. These are some of the places wherein our students have worked as interns –

## INDUSTRIES

- Indian Oil Corporation Ltd. (IOCL)
- OIl & Natural Gas Corporation (ONGC)
- Bharat Petroleum Corporation Ltd. (BPCL)
- TATA Steel
- TATA Motors
- TATA Pigments
- Steel Authority of India Ltd. (SAIL)
- Vizag Steel
- Amazon
- Outlook Group
- Exide
- Metallurgical & Engineering Consultants (MECON)
- Jamshedpur Utilities & Services Company (JUSCO)
- Central Coalfields Ltd. (CCL)
- Heavy Engineering Corporation (HEC)
- Central Mine Planning and Design Institute (CMPDI)
- Central Institute of Mining and Fuel Research (CIMFR)
- Praxair India Ltd.
- Neyveli Lignite Corporation (NLC)
- Reliance

## INSTITUTES

- Carnegie Mellon University, Pittsburgh
- Institute of Chemical Technology, Mumbai
- XLRI, Jamshedpur
- IIM Ahmedabad
- IIT BHU
- IIT Guwahati
- Georgia Institute of Technology
- Illineos Institute Of Technology, Chicago
- IIT Kharagpur

# 6 STUDENT ACTIVITIES

## IICHE STUDENTS' CHAPTER

Indian Institute Of Chemical Engineers Students' Chapter BIT Mesra is the official technical group of Department of Chemical Engineering, BIT Mesra Ranchi. The activities of the Students' Chapter specifically includes the following :

- Lectures, Film shows and video shows related to the chemical engineering education and profession.
- Seminars, Workshops, Group Discussion and debates and to promote interaction of the Institute with Industry.
- Book Banks for the use of its members.
- Excursions and Plant Visits of interest to the students of Chemical Engineering.
- Assistance and guidance for students of Chemical Engineering in their career planning and placement.
- Assistance for any other activities of social, technical and educational interest to Student Chemical Engineers.

## COALESCENCE

Coalescence, the annual technical symposium organized by the department of Chemical Engineering BIT, Mesra Ranchi, is all about on incorporating all ideas and coagulating them into one life changing idea.

# 7 OUR PROUD RECRUITERS

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Bharat Petroleum
AVERY DENNISON
Infosys
EXIDE INDUSTRIES LIMITED
BYJU'S The Learning App
TRIDENTGROUP
TATA TATA AUTOCOMP SYSTEMS LIMITED
UTTAM
TATA TATA CONSULTANCY SERVICES
ZS
KPMG
Mu Sigma
stellium
pwc
EXL
TATA TATA STEEL
HYUNDAI
ACC
Reliance Industries Limited
BHUSHAN
JSW
HIL
TATA TRUSTS
BKT
GOODYEAR
EXPRO
ADITYA BIRLA HINDALCO
Capgemini
Sterlite
UpGrad
OPTUM
apollo
accenture High performance. Delivered.
HALDIA PETROCHEMICALS LTD
BIRLA TYRES
SIEGWERK
AXIS BANK

# THANK YOU

For your Time & Attention!

## CONTACT US

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