



Thapar Institute of Engineering and Technology
(Deemed to be University)

CHEMICAL ENGINEERING



JOB OPPURTUNITY

- Piping Design Engineering
- Process Equipment Design
- Process Design & Simulation
- Refinery & Petro Chemical
- Oil & Gas Industry
- Fertilizer Industry
- Food & Agro Industry
- Pharma Sector
- Water & Waste Water Treatment
- Power Plants
- Steel Plants

What is Chemical Engineering?

American Institute of Chemical Engineers (AIChE)

“Chemical engineering is the profession in which knowledge of mathematics, chemistry, and other natural sciences gained by study, experience, and practice is applied with judgment to develop economic ways of using materials and energy for the benefit of mankind”

Vision of the Department

To be recognized as a leader committed to excellence in higher education, research and innovation that meets the aspirations of the global community.

Mission of the Department

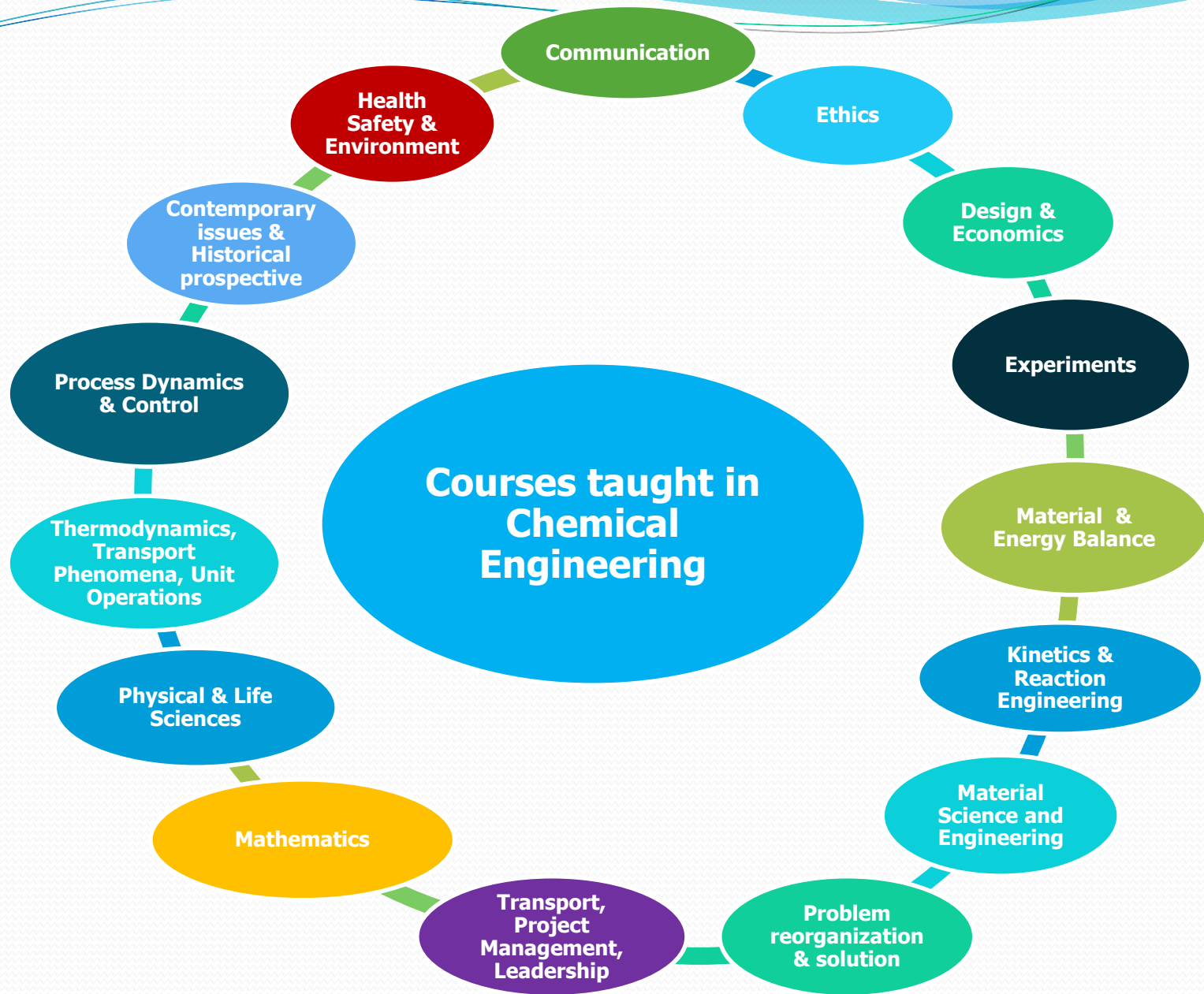
- To provide professional environment conducive to faculty, students and staff to make lasting contributions to be advancement of knowledge.
- To be dynamic, innovative and flexible in devising UG & PG programmes in chemical engineering.
- To provide globally competent chemical engineers having creative skills and ethical values.
- To carry out cutting-edge research and development for the benefit of society.

Department Profile

- Year of Establishment: 1952
 - Started with Ph.D. Program
- Present Degree Programs
 - B. E. (Chemical Engg.): Started in 1996
 - * Initial Intake = 40
 - * Present Intake = 60
 - M. Tech. (Chemical Engg.): Started in 2008
 - Ph.D.
- Certification/Accrediation
 - NBA Re-Accrediation in 2017
 - NAAC Accreditation in 2016
 - ISO: 9001 Certification
- Department Societies
 - IIChE, AIChE (Student Chapter)

Silent features of B. E. Program

- Present intake: 60
- Admission through JEE Mains Examination
- Outcome based teaching
- Regular review of curriculum
- Six months project semester in industry
- Capstone project (Senior design project)
- Projects based learning in many courses



Faculty strength

Faculty Position	Total Available	Faculty having Ph.D.
Professor	04	04
Associate Professor	06	06
Assistant Professor	05	03
Total	15	13

Major Achievements (2014-2017)

Research Publications:	
✓ SCI Journals	148
✓ Book Chapters	10
✓ PhD Ongoing	23
✓ PhD Completed	08
Sponsored Research Projects:	
✓ Ongoing	08 (INR 236 Lakhs) (\$363076)
✓ Completed	12 (INR 127 Lakhs) (\$195384)
Infrastructure Project:	
✓ DST-FIST (2016)	220 Lakhs (\$338461)
✓ Foreign Visits	10

Industry Collaborations (2014-2017)

Industry

- Reliance Industries Ltd. Jamnagar, Gujarat
- IOL Chemicals & Pharmaceuticals Ltd, Barnala
- Trident Ltd, Barnala
- Crompton Greaves Ltd. Mumbai
- Setia Paper Mills, Muktsar
- Shreyans Industries Ltd., Ahmedgarh

Radiotracer Experiments at Plant Site (IOL CP, Barnala)



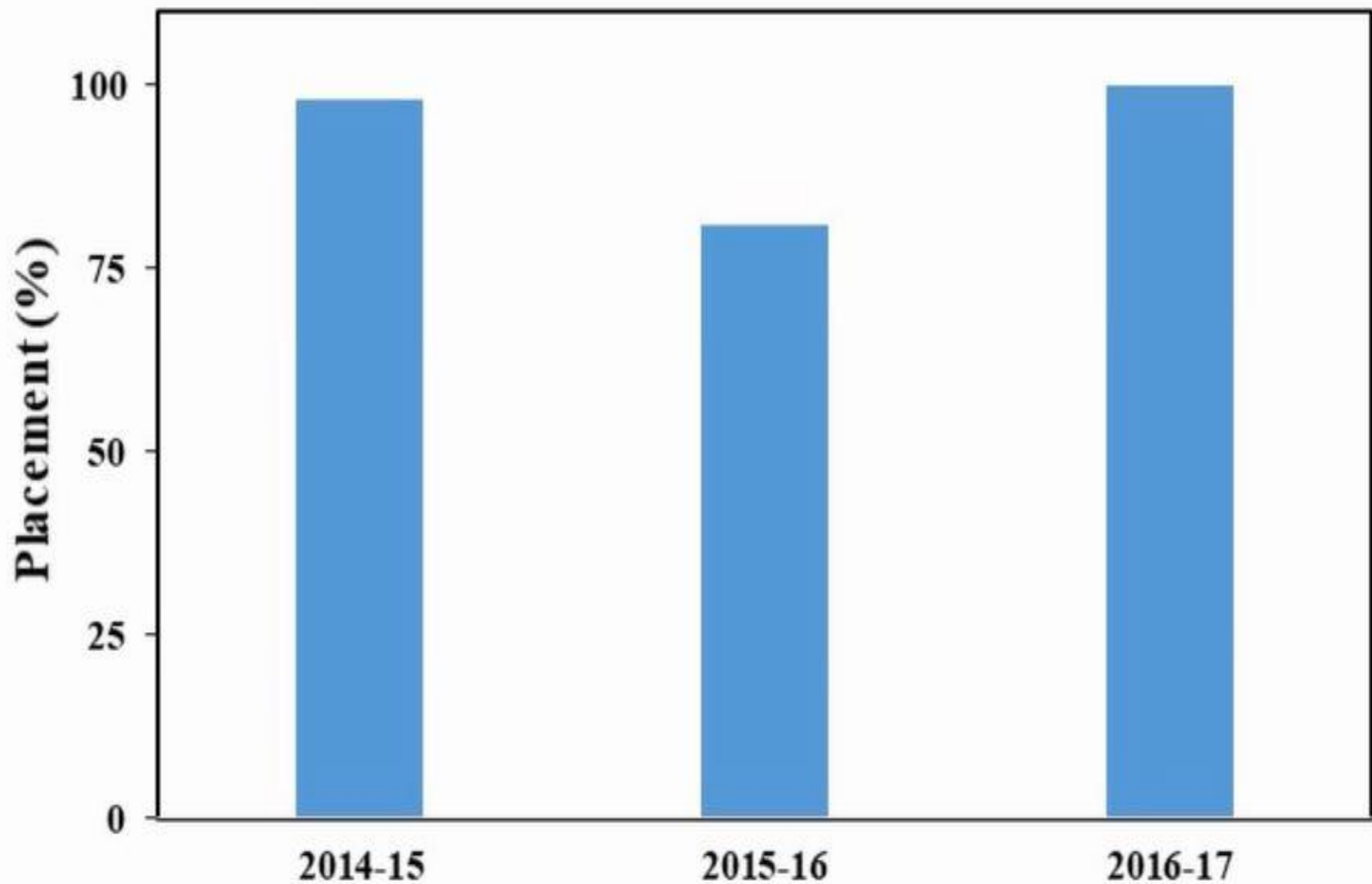
Academic Collaborations

Universities	Others
<ul style="list-style-type: none">• IIT Delhi• IIT Roorkee• IIT BHU• ISM Dhanbad• IIT Kharagpur• IIT Jodhpur• NIT Jalandhar• GNDU, Amritsar• Punjabi University, Patiala• Punjab University, Chandigarh• Amity University, Noida	<ul style="list-style-type: none">• Indian Institute of Petroleum (IIP), Dehradun• HPCL, R&D, Bangalore• Bhabha Atomic Research Centre, Mumbai• Polymer Institute, Slovakia

Placements in Core/IT/Other Organizations

CORE	IT	Others
<ul style="list-style-type: none">• Jubilant Industries• Honeywell• Reliance Industries• IOL Chemicals & Pharmaceuticals• Reliance Petrochemical Industries• Triune Energy Services• Ind-Swift Laboratories	<ul style="list-style-type: none">• Spectra Medix• Tata Consultancy Services• Xion Multiventures	<ul style="list-style-type: none">• Deolite Consulting India• J.P. Morgan• Om Careers• Allan Lloyds Group• Silver Peak Global

Placement Data for Students Having CGPA > 6



DEPARTMENT OF
CHEMICAL ENGINEERING

FPM LABORATORY

DEPARTMENT OF CHEMICAL ENGINEERING
Faculty of Engineering
The American University in Cairo



HEAD
DEPARTMENT

DEPARTMENT OF CHEMICAL ENGINEERING
Faculty of Engineering
The American University in Cairo



DEPARTMENT OF CHEMICAL ENGINEERING
Faculty of Engineering
The American University in Cairo



Computational & Simulation Lab



DEPARTMENT OF CHEMICAL ENGINEERING
LABORATORY SAFETY GUIDELINES

Fluid Particle Mechanics Lab



Mass Transfer Lab



Reaction Engg. Lab



Process Control Lab



Our Alumni

B.E. (Chemical Engineering)

Mr. Jasjeet Singh (2005 batch pass out)

Principal Consultant, DNV GL

Stockport, United Kingdom



Further Education

University of Aberdeen

MBA, Business Administration and Management,

2006 - 2007

Our Alumni

B.E. (Chemical Engineering)

Mr. Mohit Mukheja (2006 batch pass out)

Director, Client Services

Blue Ocean Market Intelligence

Toronto, Ontario, Canada



Further Education

- Claremont Graduate University
MBA, Management, 2007 - 2009

Our Alumni

B.E. (Chemical Engineering)

Mr. Karanbir Singh (2007 batch pass out)

HR Business Partner,

Diversity & Inclusion Lead, Intel Corporation

Bengaluru, India

Further Education

Symbiosis Centre For Management and Human Resource

Development

MBA (H.R.), 2010 - 2012



Our Alumni

B.E.(Chemical Engineering)

Mr. Deepak Sharma (2004 batch pass out)

Chemical Process Engineer, Monsanto Company

Missouri, USA

Further Education

Illinois Institute of Technology, USA

Master of Science (MS), Chemical Engineering, 2007 - 2009



Our Alumni

B.E. (Chemical Engineering)

Mr. Deepak Malhotra (2006 batch pass out)

Technical Service Engineer, Axens

Paris Area, France



Our Alumni

B.E.(Chemical Engineering)

Mr. Mudit Jain (2007 batch pass out)

Consultant

The Boston Consulting Group

Houston, Texas

Further Education

North-western University - Kellogg School of
Management

Master of Business Administration (M.B.A.), 2013 - 2015



Our Alumni

B.E. (Chemical Engineering)

Ms. Suchia Duggal (2006 batch pass out)

Senior Project Engineer,
Siluria Technologies, Inc.

San Francisco, California, USA



Our Alumni

B.E.(Chemical Engineering)

Ms. Dipika Garg (2012 batch pass out)

Post Delivery Service Engineer with Equipment

UOP Honeywell MNC

India



Our Alumni

B.E. (Chemical Engineering)

Ms. Nirati Arora (2009 batch pass out)

Senior Analyst,
Domestic Planning, American Airlines

Austin, Texas



Further Education

The University of Texas at Austin, Master of Business
Administration (MBA), 2013 - 2015

Our Alumni

B.E. (Chemical Engineering)

Ms. Shruti Marwaha (2011 batch pass out)

Project Lead

The Boston Consulting Group (BCG)

India



Further Education

Indian Institute of Management Ahmedabad Master of
Business Administration - MBA, 2011 - 2013

Our Alumni

B.E. (Chemical Engineering)

Mr. Gautam Jain (2011 batch pass out)

Market Risk Analyst

Shell

India



Further Education

IIM Shillong, PGDM, Business Administration and
Management, 2013 - 2015

Our Alumni

B.E. (Chemical Engineering)

Mr. Pushkal Wadhwa (2013 batch pass out)

Process Engineer

Air Liquide Global E&C Solutions

India



Our Alumni

B.E.(Chemical Engineering)

Mr. Ritwik Dwivedi (2013 batch pass out)

Instruments Advisor

UOP Honeywell Company

India



Our Alumni

B.E. (Chemical Engineering)

Mr. Saurav Khanna (2013 batch pass out)

Process Engineer

CRB Consulting Engineers

Michigan, USA

Further Education

Rutgers University

Master of Science (MS), Chemical Engineering, 2015 - 2017



Our Alumni

B.E. (Chemical Engineering)

Ms. Shifia Mittal (2013 batch pass out)

Program Manager

Amazon

India



Further Education

Indian Institute of Technology, Roorkee, India

M.B.A. Marketing and Operations, 2013 - 2015

Our Alumni

B.E. (Chemical Engineering)

Mr. Shreyans Sipani (2013 batch pass out)

Co-Founder & Chief Technology Officer,

Original4Sure

India



Our Alumni

B.E. (Chemical Engineering)

Mr. Harshit Sharma (2013 batch pass out)

Associate Process Specialist,

Fluor Corporation

India

Further Education

Duke University - The Fuqua School of Business

MBA, Strategy, 2017 - 2018



Our Alumni

B.E. (Chemical Engineering)

Mr. Kushal Chandra (2013 batch pass out)

Senior Analyst,
The Home Depot, Inc
Georgia, USA



Further Education

University of Minnesota - Carlson School of
Management

Master of Science (MS), Business Analytics, 2016 - 2017

Our Alumni

B.E.(Chemical Engineering)

Mr. Sahil Vinayak (2007 batch pass out)

Assistant Manager,

Flipkart

India



Further Education

Thapar University

MBA, Operations & Finance, 2010 - 2012

Our Alumni

B.E. (Chemical Engineering)

Mr. Nipun Garg (2011 batch passout)

PhD Researcher,

Chemical Engineering, Technical University of Denmark

Denmark



Further Education

DTU - Technical University of Denmark

Master of Science in Engineering (M.Sc.), Petroleum
Engineering, 2014 - 2016

Our Alumni

B.E. (Chemical Engineering)

Mr. Amit Gupta (2003 batch passout)

Vice President,
State Bank of India

India

Further Education

Goa Institute of Management,
M.B.A. (Finance) 2006-2008



Our Alumni

B.E. (Chemical Engineering)

Mr. Sandeep Bhaskar (2002 batch passout)

President,

Sustainability, Trident

India

