

**UNIVERSITY COLLEGE OF ENGINEERING, BIT CAMPUS
ANNA UNIVERSITY
TIRUCHIRAPALLI**

UNDERGRADUATE PLACEMENT BROCHURE
(NBA Accredited)

DEPARTMENT OF PETROCHEMICAL TECHNOLOGY



CONTENTS

ABOUT THE INSTITUTE

ABOUT THE DEPARTMENT

CURRICULUM

LABORATORY FACILITIES

LIBRARY

ALUMNI

CONTACT



HISTORY OF BIT



Formerly The School Of Engineering And Technology, Was Established By Bharadidasan University In 1999. Later The Name Of Institute Was Changed Into Bharadidasan Institute Of Technology.

BIT was taken over by Government Of Tamilnadu As Anna University Of Technology, Tiruchirappalli. It was established on 1st February 2007 as a result of a decision to split Anna university into six technical universities.

BIT

In December 2007, it was converted into an affiliating university, almost all engineering colleges in the south district under its fold and absorbed all the government engineering colleges in tamilnadu as its constituent colleges.

On September 14, 2011 a bill was passed to merge back the universities and as a result now it is again named as Bharadidasan institute of technology, Anna university, Tiruchirappalli.

DEPARTMENT OF PETROCHEMICAL TECHNOLOGY

VISION

- To be a Department of Excellence in the field of Petrochemical Technology.

MISSION

- To craft the students as potential technologists endowed with pragmatic skills.
- To produce competent engineers to identify the emerging industrial, societal needs and address the same through innovative and eco-friendly solutions.
- To fulfil the aspirations and expectations of the future generation by designing suitable academic, research and extension programmes.

ABOUT THE DEPARTMENT

- ❖ The Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli was established in the year 1999 as one of the specialized Departments of the School of Engineering and Technology, Bharathidasan University, Tiruchirappalli with a view to impart high quality technical education.
- ❖ The Department offers B.Tech in Petrochemical Technology since 1999, offered M.Tech in Energy conservation and management from academic year 2009 -10 to 2012 – 13 and offering Doctoral programme in Chemical, Energy and Environmental areas from 2009. Currently five teaching staff members of the department and 16 research scholars are pursuing their Ph.Ds.
- ❖ The Department received two DST funded projects and one collaborative DBT funded project for Rs. 65.13 lakhs. The department has generated consultancy funds for the worth of Rs. 45.7 Lakhs from industries like Sandoz, city corporation etc...

CURRICULUM

The curriculum is drafted to ensure an optimal blend of relevant theoretical and practical aspects. The curriculum and syllabi of the programme is being continuously upgraded and revised to fulfil the requirements of the industries.

SUBJECTS

CHEMICAL ENGINEERING	PETROLEUM ENGINEERING
Industrial Chemical Technology	Petroleum Exploration And Exploitation Techniques
Fluid Flow Operations	Natural Gas Engineering
Mechanical Operations	Petroleum Crude Processing Technology
Process Calculations	Petrochemical Unit Process
Engineering Thermodynamics	Petroleum Secondary Process Technology
Heat Transfer	Multicomponent Distillation
Mass Transfer Fundamentals	Petrochemical Derivatives
Mass Transfer Operations	Petroleum Process Equipment Auxiliaries
Principles Of Chemical Kinetics	Equipment Design And Drawing I
Chemical Reaction Engineering	Equipment Design And Drawing II
Process Dynamics And Control	Process Instrumentation
Water Treatment And Management	Safety And Risk Management

LABORATORY FACILITIES

FLUID FLOW OPERATIONS

- Friction factor determination for laminarflow
- Friction factor determination for turbulentflow
- venturi meter
- centrifugal pump
- Flow through packed bed
- Pitot tube in circular conduit
- Flow through a helical coil
- V - Notch
- Orifice meter
- Fluidized bed column
- Reynolds Apparatus
- Bernoulli's Theorem Apparatus
- Rotameter Test Rig

MASS TRANSFER

- Diffusivity apparatus
- Tray dryer
- Steam distillation unit
- Wetted wall column
- Vapor - liquid equilibrium equipment setup
- Solid in air diffusion apparatus
- Liquid – liquid extraction in packed bedtower
- Simple distillation unit
- Stage wise Leaching
- Soxhlet Extraction apparatus

HEAT TRANSFER

- Composite Walls Apparatus
- Natural Convection Apparatus
- Forced convection apparatus
- Stefan Boltzmann Apparatus
- Vertical Condenser
- Horizontal Condenser
- Shell and Tube Heat Exchanger
- Parallel Flow (Double pipe Heat Exchanger)
- Counter Flow (Double pipe Heat Exchanger)
- Plate type Heat Exchanger
- Jacketed pan evaporator

MECHANICAL OPERATIONS

- Ball mill
- Roll mill
- Jaw crusher
- Leaf filter
- Drop weight crusher
- Terminal Falling Velocity
- Sieve shaker (1 HP single phase)

TECHNICAL ANALYSIS

- Hydrocarbon gas chromatography
- Muffle Furnace
- UV – VIS Spectrometer
- Electronic balance

LABORATORY FACILITIES

CHEMICAL REACTION ENGINEERING

- Isothermal Semi - Bath Reactor
- Packed Bed Reactor
- Continuous Stirred Tank Reactor (CSTR)
- Plug flow & CSTR Connected in series
- RTD Studies in Tubular Reactor
- RTD Studies in CSTR
- RTD Studies in Packed Bed Reactor
- Isothermal Batch Reactor
- Adiabatic Batch Reactor
- Laboratory Stirrer Equipped 4000 rpm (0.5HP single phase)
- Magnetic Stirrer With Hot Plate
- Laboratory Stirrer Equipped 4000 rpm (0.5HP single phase)
- Plug Flow Reactor With Air Compressor (New)
- Cascade CSTR (New)
- RTD Studies in Packed Bed Reactor With Air Compressor (New)
- Reactor Cum Distillation
- Isothermal Batch Reactor (New)
- Isothermal CSTR With Air Compressor + Electronic Balance (New)
- Four CSTR of equal volume Connected in series

PROCESS DYNAMICS AND CONTROL

- LVDT characteristics module
- 1st and 2nd order system
- Interacting and Non Interacting Systems
- Purge control system with air compressor and Computer
- Cascade Control Trainer and SCADA software
- Control Valve Trainer

PETROCHEMICAL ANALYSIS

- Orsat Apparatus
- UV Spectrophotometer
- Refractive Index
- KF Titrator
- Total Acidity Determination
- Centrifuge machine

LABORATORY FACILITIES

RESEARCH LABORATORY

- Electronic Balance ATX 224 SHIMADZU
- Incubator Shaker
- Programmable Timer
- Fermenter
- UV Spectrophotometer
- Biosorptive Foam Column
- Numeric UPS
- Laminar Airflow Chamber
- Digital Homogenizer
- Digital Overhead Stirrer
- Electronic Precision Balance
- Ph/MV meter
- Taylor Uortex Column fabrication
- RDC Extraction column
- Water double distillation
- 2 KVA online UPS
- Hot air oven
- High speed centrifuge
- Hybridization Incubator

PETROLEUM PRODUCT TESTING

- Bomb Calorimeter
- Automatic Flash point Apparatus
- Rotary Vacuum Evaporator
- Hydrometer
- Viscometers
- Ductility Apparatus
- Penetrometer
- Softening Point Apparatus
- ASTM Distillation
- Refractive Index
- Copper Strip Corrosion

LIBRARY

About BIT Central Library

- BIT Central library is the knowledge center of the institute for an academic and research activities. It has been catering to the information needs of the intellectuals and ignited minds of the institute.
- It covers an area of 748 sqm spanning the ground floor and first floor with an ample study space (180 sqm). The ground floor is Air-conditioned.
- It has the following facilities for the faculty, staffs and the students: Multimedia, Internet, reprography and a CD-ROMs collection.
- The college subscribes to most of the major technical journals including American Chemical Society, Blackwell Publishing Ltd, Cambridge University Press, Elsevier, Emerald Group, IEE/IEEE, John Wiley & Sons, Professional Engineering Publishing Ltd, Nature Publishing Group, National Research Council of Canada, Sage Publications, SIAM, Society of Manufacturing Engineers, Springer Science & Business Media, Taylor and Francis, Urban & Fischer Verlag journals.
- A library committee headed by the Dean, comprising of all the Heads of Departments, and Student Representatives, meets every semester to discuss the functioning of the Library.

LIBRARY

COLLECTIONS

S.NO	RESOURCES	TOTAL
1.	No. of books	24,770
2.	Print journals	30
3.	Back volume of Journals	537
4.	Audio cassettes	12
5.	Educational CD's	763
6.	Print magazines	36
7.	Newspapers	8
8.	Thesis and Projects	621

RESOURCES

S.NO	RESOURCES	TOTAL
1.	No.of Databases	3
2.	subscribed E- Magazines	260
3.	E-	37
4.	E-Journals	13,000
5.	+ E-books 1,00,000	
		+

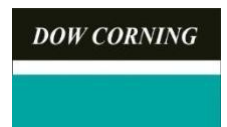
SPECIAL COLLECTIONS

S.NO	DETAILS	TOTAL
1.	TEQIP	950
2.	GATE	63
3.	TOEFL	6
4.	Communication skills Materials	5
5.	GMAT	2
6.	CDROM	763
7.	Thesis and Projects	621

ALUMNI



Tamilnadu Petroproducts Ltd.



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