

**UNIVERSITY COLLEGE OF ENGINEERING  
BHARATHIDASAN INSTITUTE OF TECHNOLOGY  
ANNA UNIVERSITY TIRUCHIRAPPALLI - 620 024**

**Placement Brochure – 2022  
B.Tech Pharmaceutical Technology  
(NBA Accredited )**

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The background of the slide features a collection of medical supplies on a white surface. In the foreground, a large syringe with a needle is positioned diagonally. Behind it, several glass vials of different sizes are scattered, some with white caps. There are also several pills and capsules of various colors (red, yellow, blue, white) scattered across the surface. The overall scene is clean and clinical.

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# THE INSTITUTE

University College of Engineering, BIT - Campus is an Institute of Excellence in Technical Education under Anna University, Chennai ([www.aubit.edu.in](http://www.aubit.edu.in)) This institution, previously known known as Anna University Tiruchirappalli, is situated on Pudukottai Highway, 10 kilometres from Tiruchirappalli International Airport. Twelve UG programmes and six PG programmes are available through the institute. Bharathidasan University (now part of Anna University) founded the Department of Pharmaceutical Technology at UCE (BIT-campus) Tiruchirappalli in 1999.



# DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

## Courses Offered

- **B.Tech. Pharmaceutical Technology**
- **M.Tech. Pharmaceutical Biotechnology**
- **Research Programme :Ph.D (Full time /Part time)**

- **Bharathidasan Institute of Technology Anna University, Tiruchirappalli was established in the year 1999 as one of the specialized Department of in the School of Engineering and Technology, Bharathidasan University, Tiruchirappalli with a view to impart high quality technical education.**
- **This Department offers B. Tech in Pharmaceutical Technology since 1999 & M.Tech in Biopharmaceutical and Pharmaceutical Sciences. It Provides Doctoral programme in Clinical field, Pharmacy and Environmental areas with all Doctorate Teaching faculties. Currently they are 10 research scholars are pursuing their PhDs.**



# VALUES

## Vision

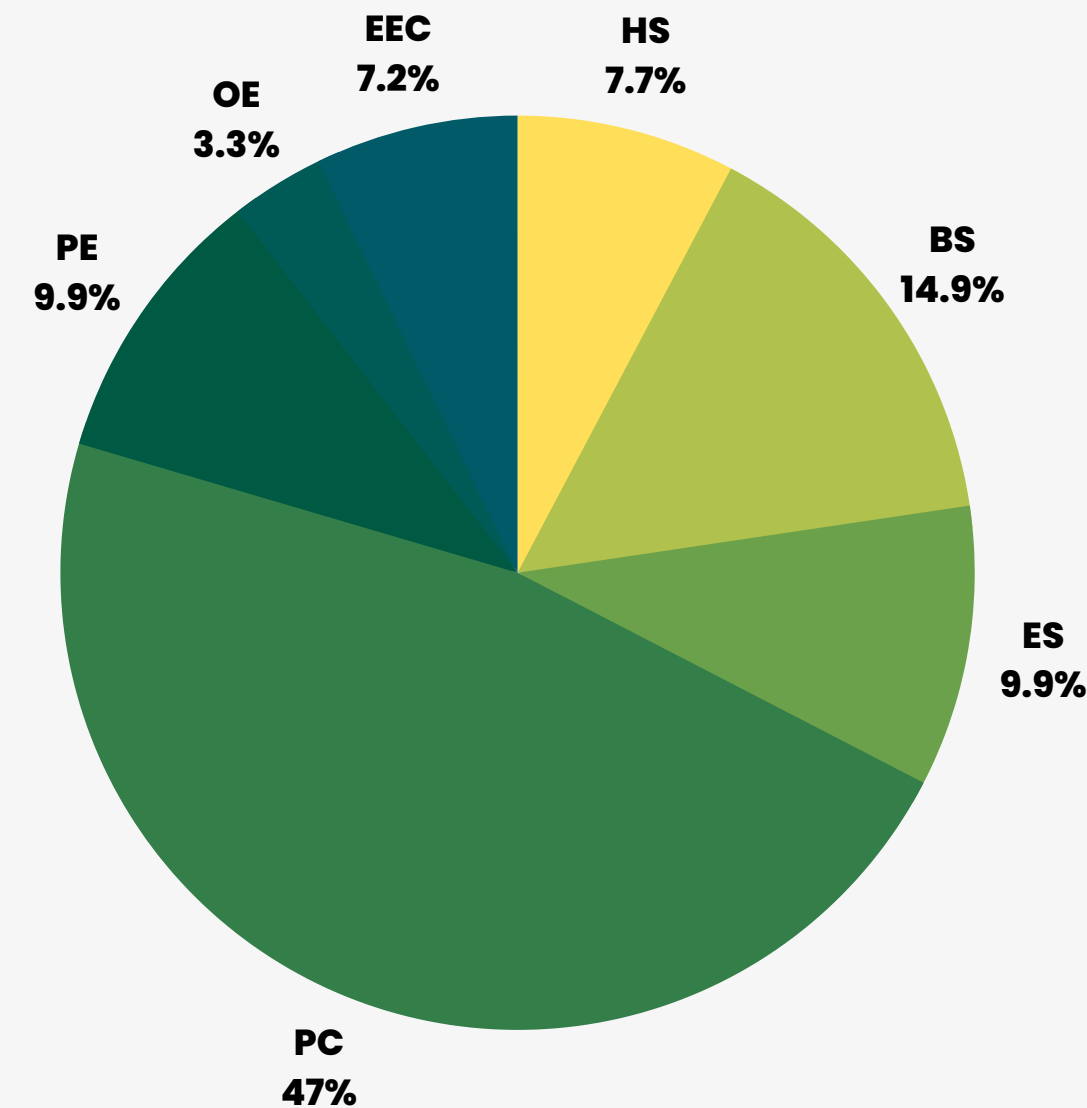
**To provide quality education, foster research and development in Pharmaceutical Technology, evolve innovative solutions for industrial problems and serve for humanity, upraise the department to reach the apex of glory in pharma education and research to be cognizant of as Centre for Excellence.**

## Mission

- **Deeply inoculate the treasure of pharmacy education and research into the inquisitorial minds of students through practicing with state of the art infrastructural facilities to instigate the multi-disciplinary expertise to meet the needs of pharmaceutical and allied industries.**
- **Provide a dynamic educational experience, create outreach opportunities and empower them to become leaders of profession.**
- **Advocate the responsibility to contribute for the improvement in public health by developing and translating concepts into practice within the state and beyond.**

# R - 2017 CURRICULUM

S NO	Subject Area	SEM - I	SEM - II	SEM - III	SEM - IV	SEM - V	SEM - VI	SEM - VII	SEM - VIII	Credit Total
1	Total Humanities and Social Sciences (HS)	4	4	3			3			14
2	Basic Science (BS)	12	7	4	4					27
3	Engineering Science (ES)	9	6			3				18
4	Professional Course (PC)		8	16	21	16	11	13		85
5	Employability Enhancement Course (PEC)					3	9	6		18
6	Professional Elective (PE)					3		3		6
7	Open Electives (OE)					1			10	13
<b>TOTAL</b>		<b>25</b>	<b>25</b>	<b>24</b>	<b>26</b>	<b>26</b>	<b>23</b>	<b>22</b>	<b>10</b>	<b>185</b>



# ***CURRICULUM***

<b>PHARMACY SUBJECTS</b>	<b>CHEMICAL ENGINEERING SUBJECTS</b>
<b>Pharmaceutical Chemistry/Physical Pharmaceutics</b>	<b>Chemical Engineering Thermodynamics</b>
<b>Pharmaceutical Analysis</b>	<b>Stoichiometry and Chemical Process Calculations</b>
<b>Medicinal Chemistry and Pharmacology</b>	<b>Fluid Flow Operations</b>
<b>Biopharmaceutics and Pharmacokinetics</b>	<b>Applied Chemical Reaction Engineering</b>
<b>Regulatory requirements in Pharmaceutical Industries</b>	<b>Fundamentals of Heat and Mass Transfer</b>
<b>Unit Operations in Pharma Industries</b>	<b>Bioprocess Engineering</b>
<b>Technology of Solid/ Semi solid Dosage forms</b>	<b>Experimental Design and Analysis</b>
<b>Computer Aided Drug Design</b>	<b>Bioprocess Engineering Laboratory</b>
<b>Pharmaceutical Packaging Technology</b>	<b>Total Quality Management</b>

# CENTRES OF EXCELLENCE

**National Facility Centre for Drug Development**

**Drug Discovery Development Laboratory**

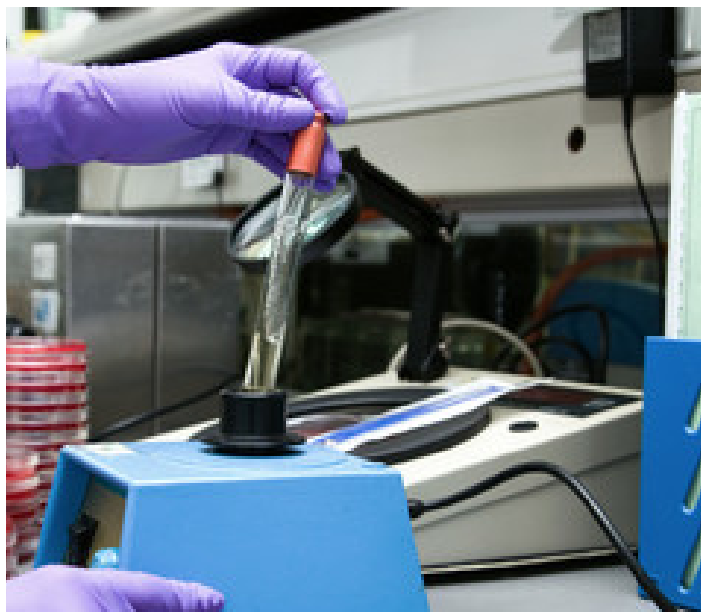
**Centre for Excellence in Nano-bio Translational Research**

**Phytochemical Research Laboratory**

**Magnetic Drug Delivery centre**

- This Department serves as the hub for many centres of excellence and provides various support to the budding research engineering in the field of the Pharmaceutical sciences which is funded by the DST, FIST.
- The centres are headed by the eminent Faculty members of the Department of Pharmaceutical Technology which promotes the students to shine in the field of their expertise





## Novel Drug Delivery System Laboratory

- Magnetic Stirrer with Hot Plate
- Magnetic Stirrer without Hot Plate
- SUB ZERO Constant Temperature bath with circulator
- Laboratory Stirrer Heavy Duty
- Vortex Shaker
- Incinerator (Electric Bunsen with regulator)
- Laboratory Stirrer Heavy Duty

## Chemistry of Natural Products Laboratory

- Binocular Research Microscope
- Digital Electronic Balance
- Compound microscope
- Travelling Microscope
- Micro-tome
- Rotary Vacuum Evaporator
- Pulverizes
- Vacuum Bath Desiccator
- Hot air oven
- UV Vis Spectrophotometer



## Biopharmaceutics & Pharmacokinetic Laboratory



- Digital Disintegration Apparatus
- Hardness Tester
- Pfizer Hardness Tester
- Sieve Brass Frame
- Dissolution Test Apparatus
- Digital Electronic Balance



# Technology of Dosage Forms Laboratory

- Digital Disintegration Apparatus
- Hardness Tester
- Pfizer Hardness Tester
- Dissolution Test Apparatus
- Capsule Die
- Digital Electronic Balance
- Vernier Caliper
- Tablet Coating Machine
- Stand Balance (500g )
- Tablet Dissolution Test Apparatu
- Tablet Friability Test Apparatus
- Tablet polishing machine
- Liquid Filling Machine



## Physical Pharmaceutics Laboratory

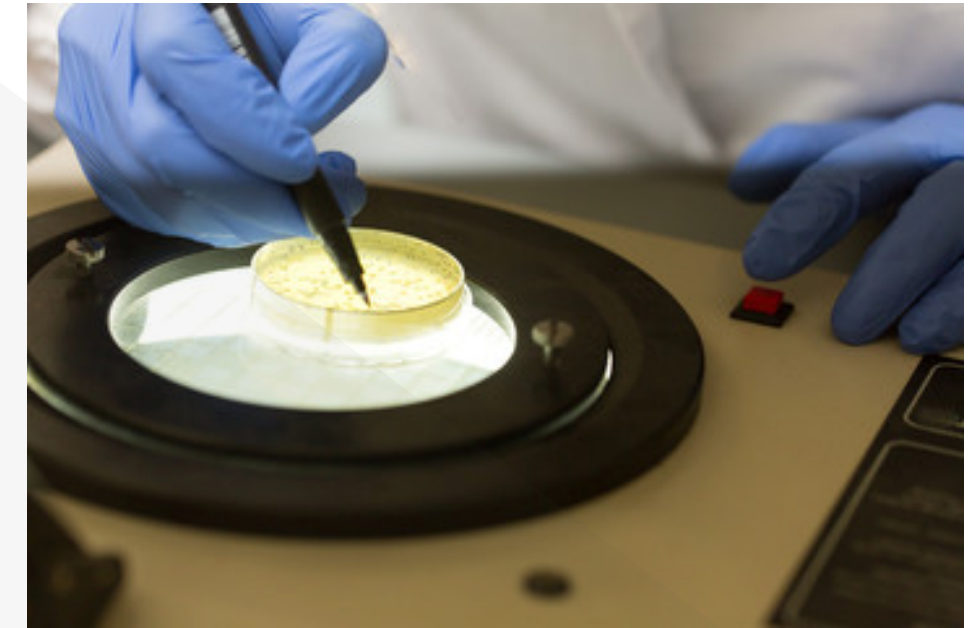
- Sieve Brass Frame
- Magnetic Stirrer with Hot Plate (1 lit)
- Digital pH Meter
- Electronic Top Loading Balance
- Incinerator (Electric Bunsen with regulator)
- Bulk density apparatus
- Tachometer
- Rheometer



## Bioprocess Engineering Laboratory



- Ultra-Sonic Bath
- Magnetic Stirrer with Hot Plate
- Magnetic Stirrer without Hot Plate
- Laboratory Stirrer Heavy Duty
- Vacuum Glass Desiccators
- Digital Water Bath
- Heating Mantle (1000 ml)
- Digital Colorimeter
- Microbial shaker
- Autoclave
- Stainless fume hood
- Digital colony counter
- Stability chamber
- Condenser clamp
- Foam Board



### DST FIST Sponsored Equipment's

- **Stability Chamber**
- **Texture Analyzer**
- **Homogenizer**

# National Facility Centre for Drug Development Equipments

- Liquid Chromatography – Mass Spectrophotometer
- High Performance Thin Layer Chromatography
- Airway Mechanics Analyzer – Inhalation Chamber
- Whole body plethysmograph
- Ultra-Performance Liquid Chromatography
- High Performance Liquid Chromatography
- Inverted Florescence Microscope
- Multimode Microplate Reader
- Zetasizer
- FT-IR Spectrophotometer
- Protein purification system – FPLC
- Spray Dryer
- Freeze Dryer
- UV-Vis Spectrophotometer
- Deep Freezer (-30 ° C)
- Deep Freezer (-80 ° C)
- Auto analyser
- Bio safety
- (Class II) Cabinet
- CO2 Incubator
- Cooling Centrifuge – 4 Nos
- Gel Documentation system
- Gradient Polymerase Chain Reaction Thermal Cycler
- Magnetic Susceptibility Meter
- Digital Microscope with Image Analyser
- ELISA Reader
- Animal Video Tracking Software System
- Rotary Vacuum Evaporator
- Probe Sonicator
- USP Dissolution Apparatus
- Ice-Flaking machine
- Water purification system
- Digital Autoclave

## TEQIP Sponsored Equipment's

- Fully automatic biochemical analyser
- UV- Vis Spectrophotometer
- Lyophilizer
- Auto chemical analyser
- Gradient PCR
- Rotary vacuum evaporator
- Gel electrophoresis
- UV Transilluminator
- Microbial Shaker Incubator



# 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, 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.**

# Alumni

**Cipla**

**Dr.Reddy's**



**Waters**  
THE SCIENCE OF  
WHAT'S POSSIBLE.®



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Anna University



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