

**Department of Pharmaceutical Technology
Jadavpur University**

Kolkata 700 032, India



*Information
Brochure
2005*



Department of Pharmaceutical Technology Jadavpur University

Kolkata 700 032, India



- Pioneering Institute in Eastern India imparting Pharmaceutical Education and Research from 1963.
- Offers B. Pharm, M. Pharm and Ph.D (Pharm) degrees
- Seven Disciplines: Pharmaceutical Chemistry, Pharmaceutics, Pharmacology, Pharmacognosy, Pharmaceutical Biochemistry, Pharmaceutical Microbiology, Pharmaceutical Engineering
- Recently started (2005) M. Pharm in Clinical Pharmacy course
- Excellent infrastructure
- Well-equipped laboratories
- Well-organized Library
- Access to the Digital Library
- Qualified faculties
- Runs different Research Projects under different Govt. sponsored (UGC, AICTE, ICMR, DST, DBT, CSIR etc.) and Industry sponsored schemes.
- Intake in UG level through W. B. Joint Entrance Exam. and in PG level through All India GATE.



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- Medicinal Plant Garden
- Well-equipped Animal Room
- Well equipped Seminar Room
- Bioequivalence Centre set up in the Department
- Ravichandran Centre for Advanced Pharmaceutical Education and Research set up in the Department
- QIP Centre for AICTE sponsored M. Pharm and PhD courses
- International and National Collaborations
- Worldwide recognition in Research Activities
- Editorial activities of the Faculty members for International Journals.
- New Innovations, patents
- International Publications in Journals of repute
- Individual faculty awards like AICTE Career Award, DST BOYSCAST Fellow, DST Young Scientist etc.



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INFRASTRUCTURE AND RESEARCH FACILITIES

A. Laboratory: Well equipped laboratories to conduct the courses as well as carry out advanced research. Minor instruments are placed in the laboratories; however, large and costly instruments have been placed in the central instrument rooms (1st, 2nd and 3rd Floors) and research laboratories of the faculties of different disciplines.

Special equipments available:

- | | |
|---|---|
| 1. HPLC – 3 Nos | 2. U.V Spectrophotometer – 4 Nos. |
| 3. FTIR (Fourier Transform Infra-red) Spectroscope | 4. Silicon Graphics Workstation |
| 5. CO ₂ Incubator | 6. Brunswick Fermenter |
| 7. Sequencing apparatus (Perkin Elmer) | 8. Deep Freezer, -80°C |
| 9. Cold Centrifuge – 3 Nos., -20°C, 20,000 rpm. | 10. Gas Chromatograph(G.C) |
| 11. Basket dissolution apparatus with auto-sampler. | 12. Lyophiliser |
| 13. Rotary evaporator | 14. Kalweka (all purpose attachments for tablets) |

B. Library Facility: Well- organized Departmental Library having approx. 5500 books in various specializations. Besides this, there are Central Library and Digital Library facilities.

C. Computational facility: Adequate



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Some of the instruments under various departmental schemes:

FIST

Table Top Centrifuge Machine

Ice Making Machine

Incubator Shaker

Laminer Air Flow System

Ultrasonic Homogenizer

Automated Water Bath

Mini Tablet Press with 10 Station

Table Top Freeze Drier

Water Purification System

Inverted Microscope

Thermal Cyclor

Table Top Refrigerated Centrifuge

Luminescence Spectrometer LS45



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COSIST

- | | |
|------------------------------------|---------------------------------|
| 1. CO ₂ incubator | 2. Silicon Graphics Workstation |
| 3. Gene sequencer | 4. Spectrocolorimeter |
| 5. Balance (digital top loading-3) | 6. Rotary Vac Evaporator |
| 7. Polarimeter | 8. Digital Photo Actometer |
| 9. Brunswick Fermenter | |

DSA

FT-IR, Spectrofluorimeter, HPLC

UGC 10th Plan

Digital Spectrophotometer, Polarimeter, Refractometer, pH Meter



MODROBS

Dissolution apparatus (Electro Lab)

HPLC



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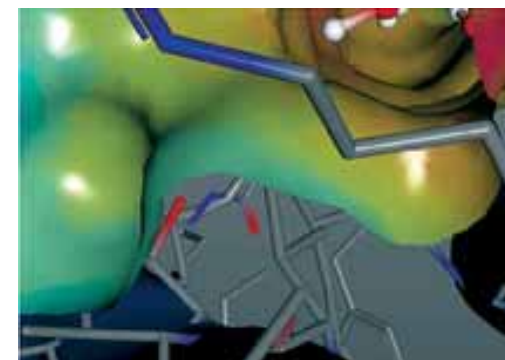
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Research Areas

- 1. Separation techniques, Particle engineering*
- 2. Antisense technology, chemoprevention by gene manipulation and gene delivery*
- 3. Drug-lipid interaction*
- 4. Adsorptive bubble separation method*
- 5. Screening and exploring mechanism of action of natural products for treating chronic inflammatory conditions; purification and characterisation of bioactive peptides from marine organisms*

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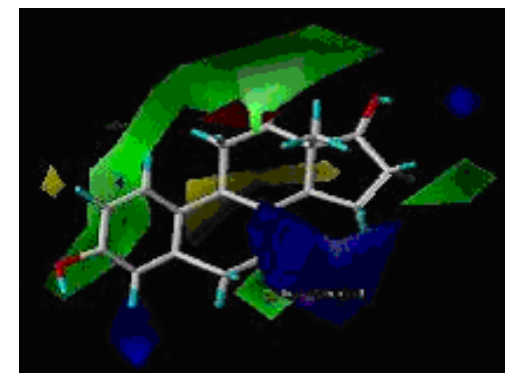
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Research Areas

- 6. PhytoChemistry*
- 7. Synthetic Chemistry*
- 8. QSAR and Molecular Modeling; Cheminformatics;
Drug Design; Ecotoxicological Modeling*
- 9. Cell Biology*
- 10. Biopharmaceutics and
Pharmacokinetics*

(Contd.....)



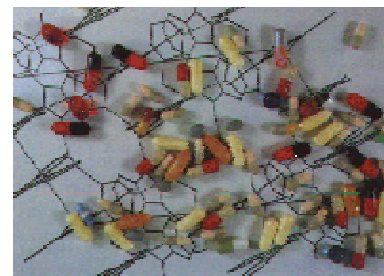
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Research Areas

- 11. Pharmaceuticals with special reference to Controlled Release Drug Delivery Systems, Dosage Form Design and Evaluations.*
- 12. Antibiotic production by immobilization. Antibiotic biosynthesis and biosynthetic enzymes. Enzymes isolation and purification. Semisynthesis of penicillins*
- 13. Anticancer Drug Design*
- 14. Synthesis of Coordination Compounds as Anticancer Agents.*



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Sl no	Name	Specialization	Email id
A. Professors			
1.	Amal Kr. Banerjee	Pharmaceutics	akbj@yaho.com
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C. Lecturers (Sr)			
18.	Kunal Roy	Pharmaceutical Chemistry	kunalroy_in@yaho.com
19.	Pulok Kr. Mukherjee	Pharmaceutical Chemistry	pulokm@yaho.com
D. Lecturers			
20.	Tapan Kr. Chatterjee	Pharmacology	NIL
21.	Tuhinadri Sen	Pharmacology	tssen@hotmail.com



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Students' performance

- Excellent performance in All India Graduate Aptitude Test in Engineering (GATE)
- Encouraging placement through the Campus Interviews
- Ex-students are well-placed in different responsible positions in industries and academic/research institutions within India and abroad. Some of the ex-students manage different Pharmaceutical Companies



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