

## Message From Principal



**Dr. (Prof.) Mithun Bhowmick**  
Principal

Realizing the need of pharmacy in human health care and role of Pharmaceutical Industry on economic front of the country, Bengal College of Pharmaceutical Sciences and Research was established under the umbrella of SKS Group of Institutions. Started in 2008 college has shown phenomenal growth in academics, co-curricular and extracurricular activities.

We strongly believe in relationship-based model for teamwork. A family of dedicated teachers, administrative and supporting staff is committed to achieve excellence in every work we do. Clarity in thinking, excellent infrastructure, well equipped laboratories, well stocked library, thought provoking and inspiring scientific museum, software assisted office and library management systems, cultural centre, sport facilities and conducive environment makes learning more interesting and far easy for students and staff as well.

Our quality policy is to maintain highest standards in education, extension and research in order to create student community full of wisdom; through imparting knowledge, inculcating skills and developing the right attitude and thus contribute in creating a sensitive and responsive society that follows ethical and moral values, that thinks logical and rational, and that prospers in peace.

During last decade, pharmaceutical industry underwent a complete transformation due to liberalization, globalization, emerging GATT era and then India becoming a member of WTO coupled with major shift in Government's economic policy. All these events led to severe competition, demand of high quality standards of drugs and pharmaceuticals, introduction of new generation of drugs, emerging biotechnological methods for the production of extremely efficacious drugs. Therefore our goal is to produce a workforce of pharmaceutical technologists who will be globally acceptable for their technological skills, their quality of work and a habit of hard work.

We are proud to have sound academic and well experienced faculty such that other envy us. The institute provides excellent learning environment with 100% placement assistance facilities. It has an excellent infrastructure with ergonomically designed auditorium, medicinal plant garden, seminar hall, the state of art laboratories and classrooms equipped with computers and modern teaching aids.

Our Institute has been approved by Pharmacy Council of India u/s 12 of Pharmacy Act for conducting B.Pharm course from the year 2008 & D.Pharm course from the year 2019 and has received approval from AICTE for conducting M.Pharm course from the academic year 2014.

Our College has been honoured with the Education Excellence Award and the 'Best Upcoming Pharmacy College in West Bengal' by the Brand Research Academy. I am sure that with support of Management, Faculty, Staff and Students we will achieve our goals.

## About BCPSR

- Estd : 2008
- Affiliation : MAKAUT, West Bengal
- Approval : AICTE and PCI, New Delhi
- College Code : 242
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Bengal College of Pharmaceutical Sciences and Research was founded in the year 2008 to further the cause for pharmaceutical education. The natural green surrounding around the Institute provides an ideal ambience for learning education and research. The medicinal plants garden houses plants of medicinal importance which aims at generating an aptitude for research and development. The institute's mission is to impart vibrant, comprehensive and innovating learning to our students enabling them to be pharmaceutical managers / pharmacists with strong cultural values and to provide an ideal teaching environment to face the emerging global challenges.

The course provided by the Bengal College of Pharmaceutical Sciences & Research are approved by Pharmacy Council of India, New Delhi and hence, all the graduating B.Pharm students are provided with license by the PCI for pharmacy practice.



## Salient Features



Premier Award Champion in NEN E-Week

- Bengal Branch of Association of Community Pharmacists of India (ACPI), Manipal.
- NSS Unit under State Youth Affairs.
- Only Member of Drug Discovery Network (DDN) from East
- Only Pharmacy College in Eastern India as National Entrepreneurship Network (NEN)
- Serene and positive learning environment.
- Highly competent, dynamic, qualified and dedicated faculty.
- Well equipped, sophisticated state-of-the-art Labs with modern instruments.
- CPCSEA approved Natural animal house facility.
- High speed internet connectivity.
- Regular workshop on Grooming and Soft Skill Development.
- Compulsory English Language Lab for all.
- Regular exposures to external workshops, seminars, cultural and Sports activities.
- Monday Hobby classes (Music, Photography, Film, Meditation etc.).
- Rich spacious AC- library with nearly 5000 books,
- Free Wi-Fi campus
- 100% assistance for bank loan facilities
- Periodical Industrial & Hospital visits.
- 100% Placement in Blue Chip Pharma, FMCG and KPO Companies.
- Separate hostel facilities for boys and girls.
- Modern and hygienic on-campus cafeteria.
- On-campus bank with ATM.
- Separate Multi-gym for boys and girls.
- Free health-check facility for the students and staff members.
- Medicinal Plant garden housing 130 species of plants.

## National Seminar

BCPSR Organized a National Seminar on “Application of Pharmaceutical Sciences for Healthy Lifestyle and Growth” on 5th Nov.2019. A prestigious global platform that perfectly defines the architecture of Medical Science, Pharmaceutical Technology, Moral and spiritual spheres. Helping people across globe to combat with the challenges the world is facing in technology, our events covers all the drastically challenging problems and reproduces unique solutions to it. This is the event whose focal length is all about maintaining the lust for science and technology while achieving immortality via moral and spiritual means in providing unique solutions. The speakers at the event include Dr. Prof. A.C.Ganguly, Director, SKSGI, Durgapur, Dr.Sumanta K. Ghosh, Asst. Drug Inspector, DGHS, Government of India, Dr. Hemant K. Nayak, Dept. of Paediatric Cardiology, Mission Hospital, Mr. Tushar K. Matia, Senior Cardiologist, Mission Hospital, Durgapur, Prof. Biplob Loha Choudhary, Professor & Incharge, Centre Of Journalism & Mass Communication Visva Bharti University, Santiniketan, Prof. Sanchita Badhopadhyay, Principal BCE, Durgapur, Prof. S.K. Brahmachari, Dean Academics, BCET, Durgapur. In addition to the scientific sessions by eminent speakers, a Poster Presentation session was also organised, to inculcate an urge among participants to involve in research projects based on Pharmaceutical methodologies. More than 350 delegates were participated in the program from BCPSR & other colleges concluded with certificate distribution to the delegates.

# Laboratories

At present Bengal College of Pharmaceutical Sciences & Research has 16 well-equipped, well-maintained, state-of-the-art laboratories. The laboratories are developed as per the norms of Pharmacy Council of India and All India Council for Technical Education. These are designed and equipped with modern high value instruments like Spectrophotometer, Auto Clave, BOD Incubator, Micro-centrifuge, Rota Rod, Analgesiometer, Brookfield viscometer etc. to give the industrial and research approach. The available laboratories are

## 1 Pharmaceutics Laboratory

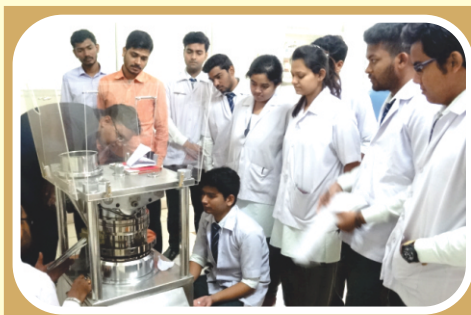
In Pharmaceutical laboratory students get training how to Formulate, manufacture and test different dosage form of Medicines (such as Tablets, Capsules, Ointments, liquid Orals, Parenterals etc.). It is equipped with tablet Compression, tray Drier, Ointment Filling Machine, Dissolution Apparatus, Disintegration Test Apparatus, Friability Test Apparatus etc.

## 2 Pharmaceutical Chemistry Laboratory

Here students learn to synthesize different chemical compounds having medicinal value in healthcare system. It also includes their identification by different laboratory techniques, different methods of purification and determination of percentage of purity of those chemical compounds. The study of different isomers and DNA structures by different models are done in this laboratory. Instruments available in the laboratory are Melting Point Apparatus, Distillation Unit, Buchner Funnel Filtration Unit, Hot Air Oven, muffle Furnace etc.

## 3 Pharmaceutical Analysis Laboratory

In this Laboratory students are taught different testing techniques of different dosage forms of medicines. The instruments available in this laboratory include UV-Visible Spectrophotometer, Karl-Fischer Apparatus, Flame Photometer, Polarimeter, Colorimeter etc.



4 Microbiology Laboratory

In this laboratory students are trained to perform microbiological experiments like preparation of culture media, identification of microorganisms, staining procedures, motility testing, sterility testing, environmental monitoring, raw material testing, antibiotic bioassays, antimicrobial activity of Plant extracts, minimum inhibitory concentration, screening of antibiotic producing microbes etc. This knowledge of microbiological methods is required for production and analysis of different Pharmaceuticals and other products in industry. Various instruments are commonly used in our laboratory to perform the experiments includes - Microscopes, Hot Air Oven, Autoclave, Incubator, Centrifuge, Membrane Filter, Laminar Air Flow, Colony counters etc.

5 Pharmaceutical Engineering Laboratory

In Pharmaceutical Engineering Laboratory students get exposure to different techniques of unit operation like Grinding of Lumps of Chemical Compounds, Fluid Flow Techniques, Heat Transfer Technique, Characteristics of Procedures, Motility Testing, Sterility Testing, Drying and Filtration Techniques etc. The instruments Available in the laboratory are Reynold's apparatus, Ball Mill, Sieve Shaker, Distillation Apparatus etc.

6 Pharmacognosy Laboratory

In Pharmacognosy laboratory, students learn different technique of extraction from herbal plants, isolation of different constituents present in the extract and their identification. Procedures for preparation of Herbal medicine are also taught. The laboratory is equipped with the instruments like Microtome, Microscopes, TLC Apparatus, Column Chromatograph, Soxhlet apparatus, Percolator etc.



### 7 Medicinal Chemistry Laboratory

Here students learn to synthesize and characterize the medicinally active chemical constituents. Separate Balance room is provided with each laboratory. These Laboratories help in acclimatizing the student with the Chemistry aspect of the Pharmacy profession which helps them in their carrier as an analytical chemist, Research and Development and in Post graduate studies. The Laboratory is equipped with Microwave for hastening synthesis process and follows Green Chemistry Principles.

### 8 Engineering Drawing Laboratory

In engineering drawing lab students are learning the Convention of drawing, sections & sectional views, Different types of joints & fittings. In addition to this there is a scope for learning various instruments (construction & working principles) which includes agitators, ball mill, various mixers, centrifuges, dryers, evaporators etc.

### 9 Pharmacology Laboratory

The Pharmacology lab consists of equipments to indentify The activity of various drugs samples. These includes Digital Actophotometer, Histamine Chamber, Plethysmograph, Convulsiometer, Analgesiometer and Single and Double organ Bath with Kymograph to study the effect of drugs on animals.

### 10 Pharmaceutical Technology Lab I & II

In Pharmaceutical Technology Lab students are involved in preparation, evaluation & packaging of different dosage forms like solution, emulsions, suspensions, ointments, Pastes, Gels and also different cosmetic preparations. Formulation and evaluation of different types of tablets and capsules are also carried out in these laboratories.





### Computer Laboratory

Our Institute believes that today's pharmaceutical technologists must be able to bridge the information technology with pharmaceutical sciences. We have developed our computer laboratory on that basis. Computing facilities for students include 35 computers connected to the Windows NT server and LAN. The network enables the faculty and staff for information sharing and communication. The students have easy access to the internet. Also the lab is used for the state of the art English Language laboratory.



### Medicinal Plants Garden

In order to impart a basic knowledge of medicinal plants in the subject of Pharmacology and Phytochemistry a medicinal garden containing plants of folklore and medicinal importance is established in the campus of BCPSR. This will enhance the students to identify the medicinal plants and to generate the aptitude for research in Phytochemistry and Pharmacology. Our Institute presently is having around 130 kinds of plants of medicinal importance and all the plants are tagged with their scientific and local nomenclature.



### Animal House

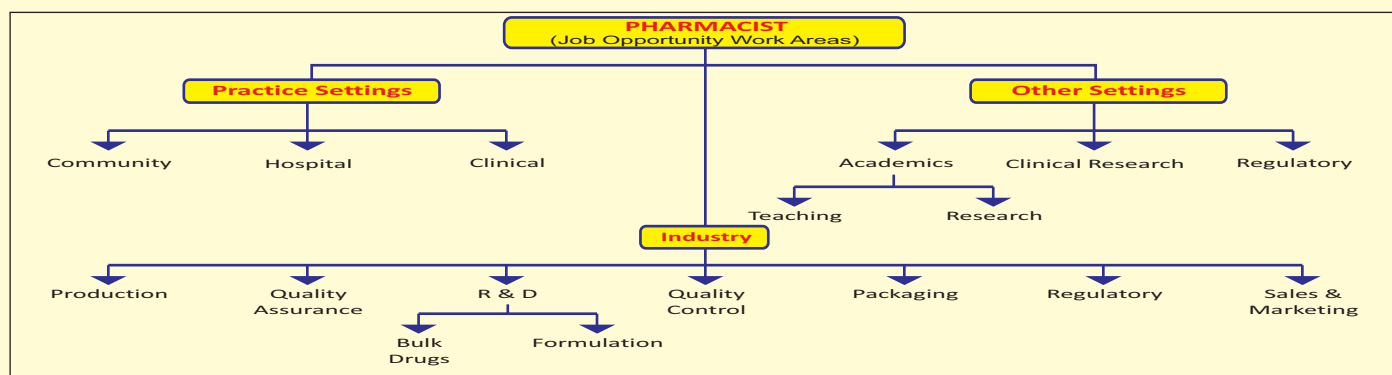
A state of the art animal house facility, approved by CPCSEA, New Delhi, India, under the Ministry of Environment and Forest is a matter of pride for the Institute. The students and faculty are privileged to get hands-on-training & research with several species of experimental animal. Moreover, these animals act as source of natural refreshment within the concrete boundaries.

## Courses at a Glance

Under Graduate Course	Intake	Duration
B.Pharm	100	4 Years
B. Pharm (Lateral Entry)	10	3 Years
Post Graduate Course	Intake	Duration
M.Pharm (Pharmaceutics)	15	2 Years
D. Pharm	60	2 Years



## Job Prospects



## Student And Faculty Development Programme

- The Institute is empaneled in the Board of Practical training, Eastern Region for GOI training facility for the graduating students.
- All the students of 3rd year successfully completed the Industrial Training in various industries in Kolkata and Bhopal e.g. Lupin, Alkem Laboratories, Indchemie, Gluconate Health Limited, Shine Pharma Ltd, Caplet India Pvt.ltd., Albert David, Apollo Hospital, Cadilla, Park Benz, East India Pharmaceuticals, Cipla, Torrent Pharmaceuticals, etc. etc.
- An Expert Lecture for by a specialized HR team of Apollo Hospital on the subject “Role of Training & Development in career building” for the grooming of students so that they are well prepared for interview by improving their overall personality by enriching their mind with basic skill needed to learn via training & Development and helps them to know their strengths and



overcome their weaknesses and succeed in the interviews.

- A Powerful Skill oriented and Placement Centric Workshop IBTC-2020 organized by DC Crackers in association with E-cell IIT Kanpur dated 27th & 28th Feb 2020 to educate the students regarding numerous skills of Self – Development so that they can scale themselves to the maximum possible heights of their careers.
- The Faculties/Students have successfully enrolled into different online courses using the Swayam/NPTEL portal for MOOCs and have secured Certification from eminent Universities in India.
- Regular session on Spoken English and Communication Skills from 1st to 4th year students.
- BCPSR faculties participated and got certified in Faculty Development Program at Birla Institute of Technology, Mesra.
- Involvement of faculty members in quality Improvement Program of AICTE as well as Various National and International Conferences, Seminars and workshops.
- Students under the guidance of faculty made presentations on their experimental research work in different National and International seminars in various Institutions in India.
- 24 research publications have been published by faculty members in different National and International journals with SCI impact of 19 cumulating it above 50 since the inception.

## Recognition and Achievements

### Recognition

- In the past Our College has been honoured with the 'Education Excellence Award' and the 'Best Upcoming Pharmacy College in West Bengal' by the Brand Research Academy.
- Ministry of Human Resources Development (MHRD), Government of India launched the program of Unnat Bharat Abhiyan (UBA). Indian Institute of Technology, New Delhi has been designated to be the National Coordinating Institute (CI), by MHRD for UBA. Bengal College of Pharmaceutical Sciences and Research was chosen as the Participating Institute and is working under the directions of Indian Institute of Technology (IIT), New Delhi.
- IBTC-2020 Workshop organized by DC Crackers in association with E-cell IIT Kanpur with BCPSR as Zonal centre dated 27th & 28th Feb 2020. This workshop is 02 Days Championship Program and the title of workshop is "Personality Development & Career Planning" along with a National Level Competition whose Grand Finale is going to be organized at IIT Kanpur.

### Achievements

- We have successfully organized National Conference on “Applications of Pharmaceutical Sciences for Healthy Lifestyles and Growth” on 5th of November, 2020.
- Our Students always come up with flying colours in the Semester Examinations with toppers securing CGPA of 9 and above.
- Two of our students have cracked the prestigious Graduate Pharmacy Aptitude Test (GPAT) 2020. Our faculties were actively involved in training the students for GPAT in helping/Involving them in Doubt clearing sessions and Concept Building.
- Our BCPSR students have successfully cracked the On/Off Campus interview drive conducted by one of the most best & reputed Companies like GlaxoSmithKline, Cipla, Fresenius Kabi, Alkem, Nestle India Limited Ltd, Omics International, Pulsus Healthtech, Hetero Labs Ltd, Cognizant, etc.
- 04 Faculties/Staff of BCPSR got selected for the Post of Pharmacist Grade III under Health & Family Welfare Department, Government of West Bengal.
- 05 of BCPSR faculties participated and got certified in Faculty Development Program at Birla Institute of Technology, Mesra.
- Students from second year B.pharm, represented the college at SMART INDIA HACHATHON-2020 (SIH-2020), with an innovative project on “An Indoor Natural Air Purifier”. While another group of students of Third year B.Pharm, took part with a solution dealing with “Warm Mattresses for Patients with Automatic Hydraulic Bed”.
- BCPSR is an active participant of MOOCs (Massive Open Online Courses) using the SWAYAM platform. BCPSR serves as a Local Chapter for NPTEL (National Platform for Technology Enhanced Learning) courses. The Students have successfully enrolled into different online courses such as: Medical Biomaterial, Biotechnology, Cell Culture Technologies and Bioenergetics of Life Processes, etc. In this semester (January- April 2020), 172 students of different semesters of our college have successfully enrolled into around 34 online courses using the Swayam/NPTEL portal for MOOCs and have secured Certification from

eminent Universities in India.

- 33 Students of our college, got selected as Zonal Winners in India's Biggest Training Championship (IBTC-2020) Workshop organized by DC Crackers in association with E-cell IIT Kanpur whose Grand Finale is going to be organized at IIT Kanpur.
- Our students have also participated and won various prizes in inter-college events like Zentech-2020, Ahleka-2020, Sports-2020 and various other Events
- Students have achieved great success and won prizes in the field of Presentation both oral and poster at conferences/Seminars organised at various institutes of India.
- Students have received Awards for excellence in event like debate, painting and pharm-charade at ZENTECH-2020, an inter-college fest organized by a Pharmacy College.
- Students have also took active participation and fared well with flying colours in events like Memory-race, Dance, Badminton, Open Mic, Running Race, etc. in the inter-college sports meet organized by the SKS groups of Institutions for its various colleges.
- After the Nation-wide Lockdown due to COVID 19 Pandemic, our faculties have dedicated immense effort in successfully delivering online interactive video lectures, conducting online virtual labs and providing the requisite content to the students on a daily basis as per the syllabus.
- Online Interactive Classes are being conducted using platforms like ZOOM (discontinued after MHA Notification), Cisco WebEx, Teamlink video conferencing app, etc. and notes and online tests are being done using platforms like Google Classroom, WhatsApp, etc.
- They have also utilized this lockdown time as an opportunity to obtain various National and International certifications by competing in quiz, online open courses and have constantly encouraged the students to do the same.
- The students have actively carried out various Extra-curricular activities like singing, poetry, photography, videography, cooking, collage, etc. as well as awareness videos on COVID 19 as mandated by the university for MAR activities.
- BCPSR have also organized National Online Quiz Event with Certification on COVID 19 Awareness & Prevention to contribute in social awareness campaign through this effort. Being Involved with the healthcare system passively, our faculties & students have taken up the responsibility of constantly making the common man aware about the Do's & Don'ts of Covid-19 through the social media & other means during this lockdown period.
- We believe in "Vince-te-Ipsum" I.e. Knowing and surpassing oneself everyday with new achievements.

## Training & Placement

Many reputed companies came for the recruitment drive for the Final Year Students UG & PG. Maximum of students were placed in different sector (i.e., Sales and Marketing, Production, QA, QC, Pharmaceutical industry, Pharmacovigilance, Scientific writing, Hospital and Retail Pharmacist) excluding those who are interested for higher study. Number of pool campus recruitment drive was organized in BCPSR for Cipla, Glaxo Smith Kline (GSK), Fresenius Kabi, Patanjali Ayurved Ltd., Byju's, Sasta Sundar ventures Ltd., Jaro Education, Pulsus Healthtech LLP, Cognizent, Macleods Pharma, OMICS International, GSK, Apollo Hospital Enterprise Ltd., etc.

We have successfully organized our alumni meet 2019 on 14 September 2019. Around 80 alumni joined in the alumni meet and cultural fest. We have Inaugurated a Alumini booklet 2019. This booklet contains the contact details and present designation of Pass-out students. This booklet was distributed to 4th year students for their help in Placements.

BCPSR students have undergone Industrial Training as well as training in different Hospitals in the Semester Break in different Industries like: Lupin, Alkem Laboratories, Indchemie, Gluconate Health Limited, Shine Pharma Ltd, Caplet India Pvt.ltd., Albert David, Apollo Hospital, Cadilla, Park Benz, East India Pharmaceuticals, Cipla, Torrent Pharmaceuticals, etc. which helps them to enrich their practical as well as technical knowledge.

Our Recruiters

