

BENGAL SCHOOL OF TECHNOLOGY

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) (Formerly known as West Bengal University of Technology) & West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCT&VE&SD)

Accredited by NAAC with "A" Grade, Accredited by NBA for B. Pharm

Sugandha, Delhi Road, Near Chinsurah Railway Station, Dist: Hooghly-712 102, West Bengal



Est'd: 2006

5.5. Innovations by the Faculty in Teaching and Learning

With the recent advancement in the frontiers of Information and Communication Technology in general and innovations in teaching techniques in particular which mandates the integration of Advance techniques, the faculty members are regularly updating their teaching pedagogy to tune with the need of the day and thereby contribute to the improvement of student learning.

- The institute has augmented the infrastructural facility by way of converting Chalk and Board classrooms to **Smart classrooms** for both UG and PG programs. The smartboards installed in the classrooms are of high-grade configuration. With the availability of number of smart classrooms for UG and PG, faculty members get motivated to imbibe in them the skills and techniques of making the best use of ICT facilities leading to a paradigm shift from the traditional method to a hybrid method.
- In addition to the smart boards and smart rooms, the institute also provides **LCDs** installed in few of the classrooms for common use to teach the students with the aid of PPTs which provides academic ambience of its kind for innovative teaching with an in-built commitment for quality education. Each classroom is also provided with CCTV cameras for surveillance. This facilitates not only bringing accountability and visibility in the teaching techniques but also it supports conduct of assessments and examinations in an unbiased transparent manner bringing quality in the students as well.
- During the period of COVID 19 pandemic, the **Teaching-Learning Techniques** are redrafted from the traditional Chalk and Talk method to the technology driven **online teaching tools** like **Zoom, Google Classroom, Great Learning**, etc, apart from referring to YouTube videos for providing virtual classroom environment.
- The **online e- resources** like ChemSketch, SPSS, TEST, RASMOL, AUTODOCK, ORIGIN2017, TURBO C3 4.0, ORACLE XE and GRAPH PAD PRISM 5.0, Ex-Pharm 2.0 are used as an effective teaching technique.
- The faculty members prepare topic wise video lectures in the relevant subjects as per the prescribed curriculum for use by the students and stakeholders. The video lectures are also open to all and comments are invited by peer review, students, critique and others for further improvement of the video lectures or updating the content as and when required. Some of the sample video lectures list is furnished hereunder.

Atanu Chatterjee
[Criteria Co-ordinator]

Paramita Dey
[NBA Co-ordinator]

Attested


Dr. P. Suresh
Principal
Bengal School of Technology
Sugandha, Delhi Road
Hooghly, Pin-712102, W.B



BENGAL SCHOOL OF TECHNOLOGY

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) (Formerly known as West Bengal University of Technology) &

West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCT&VE&SD)

Accredited by NAAC with "A" Grade, Accredited by NBA for B. Pharm

Sugandha, Delhi Road, Near Chinsurah Railway Station, Dist: Hooghly-712 102, West Bengal

Estd: 2006

<u>CLASS AND YEAR</u>	<u>SUBJECT WITH COURSE CODE</u>	<u>NAME OF THE FACULTY</u>	<u>YOU TUBE VIDEO LINK</u>	<u>TOPIC NAME</u>
B.Pharm 2 nd year. 3 rd sem	Organic Chemistry (PT-314)	Dr. Atanu Chatterjee	https://youtu.be/jGaQxtEIH-H-c	Aromaticity
B.Pharm 2 nd year. 4 th sem	Pharmacology- I (PT-418)	Sudipta Roy	https://youtu.be/jlgdQIPwDxQ	Sedatives and Hypnotics
B.Pharm 2 nd year. 4 th sem	Pharmacology- I (PT-418)	Sudipta Roy	https://youtu.be/_vNmA7jM1W4	Centrally Acting Skeletal muscle relaxants-II
B.Pharm 3 rd year. 6 th sem	Biopharmaceutics (PT-616)	Dr. Raja Majumder	https://youtu.be/SKwf_12lDBw	Protein Binding
B.Pharm 3 rd year. 6 th sem	Biopharmaceutics (PT-616)	Dr. Raja Majumder	https://youtu.be/KtM3rlekKE8	Volume Of distribution
M.Pharm. 1 st year 2 nd sem	Cosmetic and Cosmeceuticals (MPT- 2064)	Dr. Saumya Das	https://youtu.be/iErPGuzYDR8	Cosmetic preparations for eyes
B.Pharm 3 rd year, 6 th sem	Pharmaceutical Quality Assurance (PT-611)	Dr. Dharmajit Pattanayak	https://youtu.be/C_ipdf6OXbk	Quality Control of Packaging Material Part- I
B.Pharm 3 rd year, 6 th sem	Pharmaceutical Quality Assurance (PT-611)	Dr. Dharmajit Pattanayak	https://www.youtube.com/watch?v=40ByXob0esg	ICH GUIDELINES Multidisciplinary
B.Pharm 3 rd year /5 th sem	Industrial Pharmacy (PT- 516)	Dr. Paramita Dey	https://youtu.be/9Pc1TBbv1ZU	Sterility testing of Parenterals
B.Pharm 4 th yr/ 7 th Sem	Industrial Pharmacy II (PT-716A)	Dr. Paramita Dey	https://youtu.be-SGZ4A6wV6c	Pilot Plant Scale-up Technique
B.Pharm 3 rd year, 6 th Sem	Medicinal Chemistry (PT-613)	Dr. Atanu Chatterjee	https://youtu.be/8SrlU6slp94	Aminoglycoside
B.Pharm 3 rd year, 6 th Sem	Medicinal Chemistry (PT-613)	Dr. Atanu Chatterjee	https://youtu.be/ojIDf1UCyOk	Clindamycin

Attested

Atanu Chatterjee
[criteria co-ordinator]

Paramita Dey
[NBA Co-ordinator]


Dr. P. Suresh
Principal
Bengal School of Technology
Sugandha, Delhi Road
Hooghly, Pin-712102, W.B.



BENGAL SCHOOL OF TECHNOLOGY

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) (Formerly known as West Bengal University of Technology) &

West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCT&VE&SD)

Accredited by NAAC with "A" Grade, Accredited by NBA for B. Pharm

Estd: 2006

Sugandha, Delhi Road, Near Chinsurah Railway Station, Dist: Hooghly-712 102, West Bengal

<u>CLASS AND YEAR</u>	<u>SUBJECT WITH COURSE CODE</u>	<u>NAME OF THE FACULTY</u>	<u>YOU TUBE VIDEO LINK</u>	<u>TOPIC NAME</u>
B.Pharm 2 nd year, 3 rd sem	Physical Pharmaceutics-I (PT-316)	Dr. Raja Majumder	https://www.youtube.com/watch?v=ryUemxWR_fQ	States of matter, Gaseous state, Liquefaction of gas, Critical temperature, Critical pressure, Lyophilisation
B.pharm 2 nd year, 4 th sem	Physical Pharmaceutics-II PT-416	Dishari Dutta	https://www.youtube.com/watch?v=AuTINx8CA6A	Forces acting in a suspension
B.pharm 2 nd year, 4 th sem	Physical Pharmaceutics-II PT-416	Dishari Dutta	https://www.youtube.com/watch?v=IqQ_VqmNvyc	Excipients of Suspension
B.Pharm 1 st year, 2 nd sem	Pharmaceutical Organic Chemistry PT-213	Dr. Sasmita Dash	https://youtu.be/OMECj17fBXU	An Overview on the properties of Alkene
B.Pharm 1 st year, 2 nd sem	Pharmaceutical Organic Chemistry PT-213	Dr. Sasmita Dash	https://youtu.be/6_Cwap1IFUrK	Chemical Reaction of Alkenes
B.pharm 1 st year, 2 nd sem	Pathophysiology PT 216	Mr. Shaibal Chandra	https://youtu.be/R1yAJjKJaO4	Hepatitis
B.pharm 1 st year, 2 nd sem	Biochemistry PT-214	Dr. Sasmita Dash	https://youtu.be/3o1t9P0SvbQ	Enzymes with Therapeutic and Diagnostic Importance
M.Pharm, 1 st year 2 nd sem	Cosmetic & Cosmeceuticals MPT 2064	Dr. Saumya Das	https://www.youtube.com/watch?v=7aoTo2aOaY4	Herbal ingredients used in skin care
B.pharm 1 st year, 1 st sem	Pharmaceutics I- PT- 106	Ms. Anisha Chakrabarty	https://youtu.be/KMVXM A7PkzE?si=vbUY42IdCSxXM6Gs	Emulsion- Definition, Classification and Methods of Identification
B.pharm 1 st year, 1 st sem	Pharmaceutics I- PT- 106	Dr. Raja Majumder	https://youtu.be/NJDhBNRGMxA	History of Pharmacopoeia
B.Pharm 3 rd year, 5 th sem year	Industrial Pharmacy II PT-513	Dr. Paramita Dey	https://youtu.be/HEwrx-3zPvY?si=_rXJwCHbOuhuryCJ	Parenteral Preparations

Attested

Atanu Chatterjee
[Criteria Co-ordinator]

Paramita Dey
[NBA Co-ordinator]

Dr. P. Suresh
Principal
Bengal School of Technology
Sugandha, Delhi Road
Hooghly, Pin-712102, W.B.

BENGAL SCHOOL OF TECHNOLOGY

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) (Formerly known as West Bengal University of Technology) &

West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCT&VE&SD)

Accredited by NAAC with "A" Grade, Accredited by NBA for B. Pharm

Sugandha, Delhi Road, Near Chinsurah Railway Station, Dist: Hooghly-712 102, West Bengal



Estd: 2006

<u>CLASS AND YEAR</u>	<u>SUBJECT WITH COURSE CODE</u>	<u>NAME OF THE FACULTY</u>	<u>YOU TUBE VIDEO LINK</u>	<u>TOPIC NAME</u>
B.Pharm 2 nd year, 4 th sem	Medicinal Chemistry PT-413	Dr. Sasmita Dash	https://www.youtube.com/watch?v=coaUq4F6PX0	Narcotic Analgesic
B.pharm 1 st year 2 nd sem	Biochemistry PT-214	Ms. Trisha Chatterjee	https://youtu.be/UbCsugkTZ_M?si=wq44CsrrXaS17A1K	Carbohydrates- Definition, Classification and Biological Significance
B.Pharm 2 nd year, 3 rd sem	Organic Chemistry (PT-314)	Dr. Atanu Chatterjee	https://youtu.be/22TH0S6R0M4?feature=shared	Cycloalkane part 1
B.Pharm 2 nd year, 3 rd sem	Organic Chemistry (PT-314)	Dr. Atanu Chatterjee	https://youtu.be/qvBkASzz-s?feature=shared	Cycloalkane part 2
B.pharm 2 nd year, 4 th sem	Pharmaceutical Organic Chemistry, PT- 414	Mr. Subhabrata Banerjee	https://youtu.be/UTxGha8EY7Q?si=1eVCZTdAmcC3gFTw	Optical Isomerism
B.Pharm 2 nd year, 4 th sem	Medicinal Chemistry PT-413	Dr. Sudip Kumar Kar	https://youtu.be/fz7a.XOi27cA	Drug Metabolism
B.Pharm 3 rd year, 7 th sem	Industrial Pharmacy II PT-716A	Dr. Anandamoy Rudra	https://youtu.be/CB0tK9DFiok?si=4ONLy17UFiA7V0Y5	QbD
B.Pharm 4 th yr/ 8 th Sem	Advanced Instrumental Analysis PT- 810C	Ms. Sayani Paul	https://youtu.be/omHMOpbqbls	Mass Spectroscopy
B.pharm 1 st year, 1 st sem	Human Anatomy and Physiology PT- 105	Mr. Arghya Bhattacharya	https://youtu.be/o4SVZnArl1g?si=WlHfMhMeLZR_yd9wy https://youtu.be/5JC4teVtLWs?si=R31jB00L_NHvUq	Blood and Disorders
B.pharm 1 st year, 1 st sem	Human Anatomy and Physiology PT- 105	Mr. Shaibal Chandra	https://youtu.be/CAmtUFbnD1Q	Rheumatoid Arthritis
B.pharm 1 st year, 1 st sem	Pharmaceutics I- PT- 106	Ms. Debosmita Das	https://youtu.be/3RWppBL5rd0?feature=shared	Prescription

Attested

Atanu Chatterjee
[criteria co-ordinator]

Paramita Dey
[NBA Co-ordinator]


Dr. P. Suresh
Principal
Bengal School of Technology
Sugandha, Delhi Road
Hooghly, Pin-712102, W.B.

BENGAL SCHOOL OF TECHNOLOGY

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) (Formerly known as West Bengal University of Technology) &

West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCVT&VE&SD)

Accredited by NAAC with "A" Grade, Accredited by NBA for B. Pharm

Sugandha, Delhi Road, Near Chinsurah Railway Station, Dist: Hooghly-712 102, West Bengal



Est'd: 2006

<u>CLASS AND YEAR</u>	<u>SUBJECT WITH COURSE CODE</u>	<u>NAME OF THE FACULTY</u>	<u>YOU TUBE VIDEO LINK</u>	<u>TOPIC NAME</u>
B.Pharm 3 rd year, 5 th sem	Industrial Pharmacy II PT-513	Ms. Arunima Nag	https://youtu.be/eV-111rbb-k?feature=shared	Preformulation Studies
B.Pharm 3rd year, 6th sem	Medicinal Chemistry III PT 613	Dr. Suchandra Goswami	https://youtu.be/KsD4NPUYC-Y?feature=shared	Penicillin
B.Pharm 3rd year, 6th sem	Pharmaceutical Biotechnology PT 619	Ms. Annesha Chakraborty	https://youtu.be/NpEN5rI1crg	Biosensors
B.Pharm 3rd year, 6th sem	Quality Assurance PT 611	Dr. Debasish Bhattacharje e	https://youtu.be/ksRonfWw3zY?si=Kf9kTqS6DSXcB5z2	Pharmaceutical Quality and Quality Management System
B.pharm 1 st year 2 nd sem	Computer Applications In Pharmacy PT 203	Mr. Sayan Kumar Dhar	https://youtube.com/playlist?list=PLfN4_zLDF0suih9WiPOlrfh4NeK90xAr&si=GhmVcUpx-f6U7KaV	HTML

- All the students are provided with official email Id of BST in the name of each student. All academic information like lesson plans, syllabus, scheme of Instructions, scheme of Examinations, Circulars, Notifications, Course handouts and lecture notes on regular basis are communicated for individual use. Further, the Great Learning LMS software is also available for communicating (both ways) on aspects related to teaching tools, assignments, deadlines, reports and such other aspects as may be needed from time to time regarding academic and examination activities as may be required.
- Need based special care is also initiated to improve the quality of **Slow Learners**.
- The **College website** is also a source of communication of information to the students and stakeholders which is kept dynamic for regular updating.
- **Add-on-program** as a pre-requisite course as may be needed are offered as an optional component.

Attested


Dr. P. Suresh
Principal

Bengal School of Technology
Sugandha, Delhi Road
Hooghly, Pin-712102, W.B.

Atanu Chatterjee
[Criteria Co-ordinator]

Paramita Dey
[NBA Co-ordinator]

BENGAL SCHOOL OF TECHNOLOGY

Approved by Pharmacy Council of India, New Delhi
Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) (Formerly known as West Bengal University of Technology) &
West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCT&VE&SD)
Accredited by NAAC with "A" Grade, Accredited by NBA for B. Pharm
Sugandha, Delhi Road, Near Chinsurah Railway Station, Dist: Hooghly-712 102, West Bengal



Estd: 2006

- The **web-based** learning system is also encouraged by way of motivating the students to pursue online open access courses of NPTEL, SWAYAM & others through MOOCs as a quality improvement initiative.
- **Simulation models** are also used to demonstrate various pharmacological experiments to minimize/ avoid the use of laboratory experimental animals.
- **Herbarium, Charts, Models, Specimens** which are used for demonstration of experiments are displayed in the College Museum for an experiential learning.
- **Machine room** is provided with machines of pilot plant use to provide hands-on experience in the manufacturing of the dosage forms. Apparatus, instruments are also available to the students for carrying out In-process Quality Control and Evaluation of the Dosage forms with an ambience of industrial practice.
- As a part of experiential learning, students are sent to the pharma industries for undergoing practical training of 1 month duration after the completion of 6th semester & before commencement of 7th semester as a summer training.

Attested

Atanu Chatterjee
[Criteria Co-ordinator]

Paramita Dey
[NBA Co-ordinator]


Dr. P. Suresh
Principal
Bengal School of Technology
Sugandha, Delhi Road
Hooghly, Pin-712102, W.B.