

Date: 16.08.2019

MOOCs at MAKAUT, WB
(Applicable from the session 2018-2019)

All India Council for Technical Education (AICTE) has introduced Model Curriculum for Bachelor of Technology programme with 160 credits in the entire programme of 4 years, and additional 20 credits will be required to be done for the degree of Bachelor of Technology with Honours. These additional 20 credits will have to be acquired with online courses (MOOCs) as per AICTE. So students will have to complete additional 20 credits through MOOCs within 4 years of time. This creates an excellent opportunity for students to acquire the necessary skill set for employability through massive online courses where the rare expertise of world famous experts from academics and industry are available. Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT, W.B.) has thus decided to introduce AICTE model curriculum for its B.Tech Programmes and suggest baskets for MOOCs available year wise for the four year B.Tech programme from the sessions 2018-2019. The basket for MOOCs will be a dynamic, as courses keep on updating with time.

GUIDELINES FOR MOOCs

MOOCs (Massive Open Online Courses) have been inducted in University curriculum and academic activities in the following ways:

1. MOOCs for Honours Degree at Undergraduate Level.
2. MOOCs for mandatory Coursework of Research Scholars for Ph.D. degree
3. MOOCs are also used for credit transfer as equivalent to theory courses of Curriculum under special consideration.
4. MOOCs for Mandatory Additional Requirements (MAR)

1 (A) MOOCs for B.Tech Honours Degree

For B.Tech Honours Degree, a B.Tech student will have to earn 20 credits from MOOCs from the MOOCs basket specified by the University in addition to 160 credits for B.Tech degree.

The total of 20 credits that is required to attain eligibility for B.Tech Honours degree is distributed over four years in the following way:

1st year: 4-8 credits

2nd year: 4-8 credits

3rd year: 4-8 credits

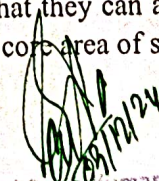
4th year: 4 credits

A student of first year has to cover courses from at least three skills:

1. Computer Programming with Python /R
2. Softskill
3. Ethics

The concept is that, students of all streams are to be equipped with Programming skill in the language that is in high demand worldwide in the first year itself so that they can apply this skill in the subsequent semesters in their different areas including their core area of study.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly Known as WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Soft skill is very essential for grooming of the student and student must be exposed to it in the very beginning of the 4 year long program.

Ethics is something that one should practice. Students are to be made aware of the ethics right in the beginning of the 4 year long program so that they can practice at least some of the ethical norms as applicable to Institutional environment and society, and be prepared to practice ethics in their working life.

MOOCs courses are to be taken from the specified MOOCs basket available in the University website to complete 20 credits.

1 (B) MOOCs for B. Pharm Program

For B. Pharm Honours degree, 4 to 8 credits (at least 3 courses) will have to be obtained by students in addition to the credits specified for B. Pharm degree curriculum during entire period of 4 years. These credits have to be obtained through the MOOCs basket specified by the University.

1 (C) MOOCs for UG Architecture Degree

For B. Arch Honours degree, 8 credits will have to be obtained by the students in addition to B. Arch Curriculum during entire period of 5 years from MOOCs basket as specified.

1 (D) MOOCs for UG Lateral entry students

For lateral entry students, requirement of MOOCs credit will be as per following to obtain honours degree.

For B Tech Courses: 16 credits (2nd year: 4-8 credits, 3rd year: 4-8 credits, 4th year: 4 credits)

For B Pharm Courses: 4 to 6 credits (at least 3 courses)

For B Arch Courses: 6 credits

1 (E) MOOCs for Non-AICTE UG Programs

For Non-AICTE programs, a student will have to do 16 credits from MOOCs in addition to 120 credits for UG degree.

Student has to cover courses in the first year:

MOOCs on R or Python Programming Language

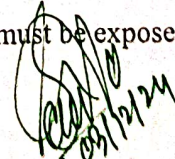
MOOCs on Soft skill

MOOCs on Ethics

The concept is that students of all programs (leading to degree) are to be equipped with Programming skill in the language that is in high demand worldwide in the first year itself so that they can apply this skill in the subsequent semesters in their different areas including their core area of study.

Soft skill is very essential for grooming of the student and student must be exposed to it in the very beginning of the 3 year long program.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (I.U.)

2 of 4

Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly Known as WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Ethics is something that one should practice. Students are to be made aware of the ethics right in the beginning of the 3 year long program so that they can practice at least some of the ethical norms as applicable to Institutional environment and society, and be prepared to practice ethics in their working life.

Remaining of the MOOCs courses are to be taken from the specified MOOCs basket available in the University website to complete 16 credits.

Note:

If a student is unable to complete the specified credits of MOOCs in a particular sem or year, he/she can complete the same in a subsequent semester. However he/she has to take MOOCs from the current MOOCs basket of that particular semester or year. If in a MOOCs basket, no semester or year is mentioned, it can be assumed that the basket is for the whole program.

All MOOCs baskets are dynamic in nature and shall change according to the availability of MOOCs in different MOOCs platforms.

1 (E) MOOCs for Research Scholars for Ph.D. degree

Research scholars have to take MOOCs as mandatory as a part of coursework for Ph.D. degree as per advice of the Research Supervisor. The credits for the course will be as per the assignment of credit for the course in the University website according to the length (in weeks) of the course, even if there is different credit assignment in the MOOCs platforms.

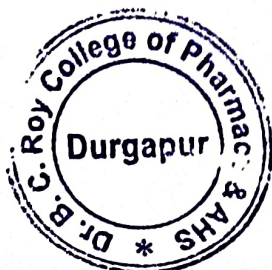
MOOCs for Credit Transfer

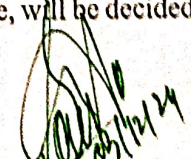
If a student of the university is unable to attend a theory course due to attending internship or any other justified reason, the student may be allowed with special permission of the University to pursue equivalent MOOCs for against the theory course. If required, more than one MOOCs may be necessary to cover the syllabus of the theory course and the student has to complete both the MOOCs to cover the course. Average of the marks obtained in both the courses will be considered for equivalence and credit transfer.

Evaluation of the MOOCs course

Evaluation of the MOOCs courses would be done by the organization by whom it is being offered. In some extraordinary circumstances or evaluation and certification process is not available in the MOOCs platform, University may conduct examination for evaluation.

The modality of evaluation through certified personnel, online or offline, will be decided by the Controller of Examinations of the University.




Prof. (Dr.) Sahir Kumar Samara of 4
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly Known as WEST BENGAL UNIVERSITY OF TECHNOLOGY)

Uploading of MOOCs Data

Every Affiliated Institution has to upload the details of MOOCs data in respect of each student time to time in University portal and/or hard/soft copy as per instruction of the Controller of Examinations of the University. This is applicable for University In-House Programs also.

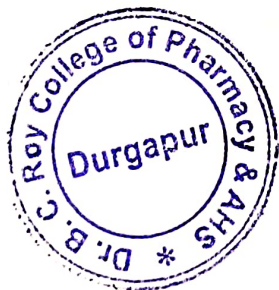
MOOCs for Mandatory Additional Requirements (MAR)


MOOCs in MAR is provided for encouraging every student to enter in Digital Content form of Education from well-known Universities or organizations.

Students can choose any MOOCs course as per their interest area and each MOOCs will have 20 points for earning MAR points. There is no credit system for MOOCs in MAR and the MOOCs courses which are taken for earning credits for Honours degree will not be considered in MAR purpose.

This notification supersedes all earlier instructions regarding MOOCs courses.

By Order




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

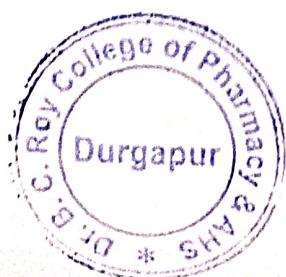
Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)

List of MOOCs for UG Honours degree (AICTE Programmes)
Effective for Odd Semester of 2020-21

MOOCs for B. Pharm (Hons)

Effective for Odd Semester of 2020-21 (REVISED)

Course Name	Duration (weeks)	Credit	Name of the Mooc websites	Availability
Fundamentals of Spectroscopy	12	3	SWAYAM	Available
Organometallic Chemistry	4	1	SWAYAM	Available
Biochemistry	12	3	SWAYAM	Available
Principles and application of NMR spectroscopy	8	2	SWAYAM	Available
Medical Biomaterials	8	2	SWAYAM	Available
Computational systems Biology	12	3	SWAYAM	Available
Bio engineering: An interface with biology and medicine	8	2	SWAYAM	Available
Bio-informatics: Algorithms and application	12	3	SWAYAM	Available
Medical Biomaterials	8	2	SWAYAM	Available
Mass transfer operation-I	12	2	SWAYAM	Available
Soft nano technology	8	2	SWAYAM	Available
Enhancing soft skills and personality	8	2	SWAYAM	Available
Soft skill development	8	2	SWAYAM	Available
Introduction to materials Science and Engineering	12	3	SWAYAM	Available
Statistical Inference	8	2	SWAYAM	Available

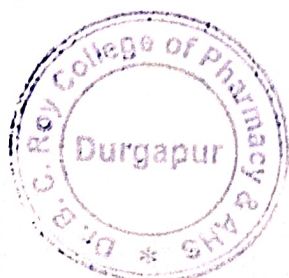


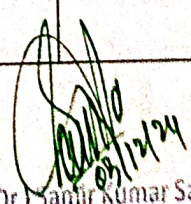
Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)

List of MOOCs for UG Honours degree (AICTE Programmes)
Effective for Odd Semester of 2020-21

Regulatory requirements for medical Device	4	3	SWAYAM	Available
Business statistics	12	3	SWAYAM	Available
Business analysis and data mining modelling using R	12	3	SWAYAM	Available
Basic Real analysis	12	3	SWAYAM	Available
Prescription Drug Regulation, Cost, and Access: Current Controversies in Context	8	2	EDX	Available
Medicinal Chemistry: The Molecular Basis of Drug Discovery	7	2	EDX	Available
Human Anatomy	6	2	EDX	Available
Principle of Biochemistry	15	4	EDX	Available
Health Informatics: The Cutting Edge	5	2	EDX	Available
CERTAIN : Pragmatic Clinical Trials and Healthcare Delivery Evaluations	8	2	EDX	Available
Molecular Biology - Part 1: DNA Replication and Repair	8	2	EDX	Available
Molecular Biology - Part 2: Transcription and Transposition	7	2	EDX	Available
Proteins: Biology's Workforce	5	2	EDX	Available
Autophagy: Research behind the 2016 Nobel Prize in Physiology or	3	1	EDX	Available

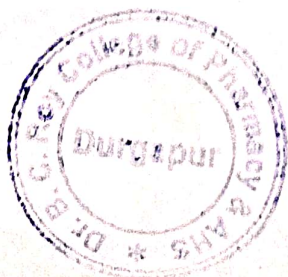


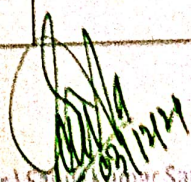

 Prof. (Dr.) Sanjit Kumar Samanta
 M. Pharm., Ph.D (J.U.)
 Principal
 Dr. B. C. Roy College of Pharmacy & AHS
 Durgapur, West Bengal-713206

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)

List of MOOCs for UG Honours degree (AICTE Programmes)
Effective for Odd Semester of 2020-21

Medicine				
The Immune System: New Developments in Research - Part 1	4	1	EDX	Available
Metabolomics in Life Sciences	4	1	EDX	Available
BioStatistics	8	2	EDX	Available
Fundamentals of Scalable Data Science(by IBM)	12	3	COURSERA	Available
Data Analysis and Interpretation	12	3	COURSERA	Available
Machine Learning for Accounting with Python	12	3	COURSERA	Available
Data Processing Using Python	12	3	COURSERA	Available
Introduction to Artificial Intelligence (by IBM)	8	2	COURSERA	Available
Data Science: Foundations using R Specialization	12	3	COURSERA	Available
Python for Data Science and AI	8	2	COURSERA	Available
Data Science: Statistics and Machine Learning Specialization	12	3	COURSERA	Available
Python and Statistics for Financial Analysis	4	1	COURSERA	Available
Applied Machine Learning in Python	12	4	COURSERA	Available
Machine Learning	8	2	NPTEL	Available
Introduction to Machine Learning	12	3	NPTEL	Available
Data Science for Engineers	8	2	NPTEL	Available

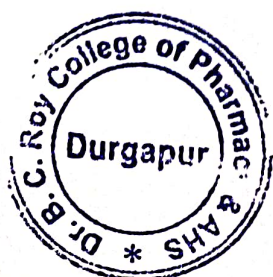


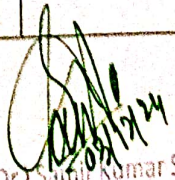

 Prof. (Dr.) Samir Kumar Samanta
 M. Pharm., Ph.D (J.U.)
 Principal
 Dr. B. C. Roy College of Pharmacy & AHS
 Durgapur, West Bengal-713206

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)

List of MOOCs for UG Honours degree (AICTE Programmes)
Effective for Odd Semester of 2020-21

Introduction to Internet of Things	12	3	NPTEL	Available
Infrared spectroscopy for pollution monitoring	4	2	NPTEL	Available
Computer Aided Drug Design	8	2	NPTEL	Available
Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	12	3	NPTEL	Available
Principles Of Downstream Techniques In Bioprocess	12	3	NPTEL	Available
Fundamentals of micro and nanofabrication	12	3	NPTEL	Available
Drug Delivery: Principles and Engineering	12	3	NPTEL	Available
Biomedical nanotechnology	4	2	NPTEL	Available
Non-Parametric Statistical Inference	4	2	SWAYAM	Available
Introduction to Biostatistics	8	2	NPTEL	Available
Business statistics	12	3	SWAYAM	Available
One and two dimensional NMR Spectroscopy for chemists	12		Nptel	Available
Prescription Drug Regulation, Cost, and Access: Current Controversies in Context	8	2	EDX	Available
Medicinal Chemistry: The Molecular Basis of Drug Discovery	7	2	EDX	Available



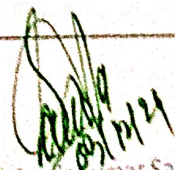

 Prof. (Dr.) Samir Kumar Samanta
 M. Pharm., Ph.D (J.U.)
 Principal
 Dr. B. C. Roy College of Pharmacy & AHS
 Durgapur, West Bengal-713206

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)

List of MOOCs for UG Honours degree (AICTE Programmes)
Effective for Odd Semester of 2020-21

Human Anatomy	6	2	EDX	Available
Principle of Biochemistry	15	4	EDX	Available
Health Informatics: The Cutting Edge	5	2	EDX	Available
CERTAIN : Pragmatic Clinical Trials and Healthcare Delivery Evaluations	8	2	EDX	Available
Molecular Biology - Part 1: DNA Replication and Repair	8	2	EDX	Available
Molecular Biology - Part 2: Transcription and Transposition	7	2	EDX	Available
Proteins: Biology's Workforce	5	2	EDX	Available
Autophagy: Research behind the 2016 Nobel Prize in Physiology or Medicine	3	1	EDX	Available
The Immune System: New Developments in Research - Part 1	4	1	EDX	Available
Metabolomics in Life Sciences	4	1	EDX	Available
BioStatistics	8	2	EDX	Available
Fundamentals of Scalable Data Science(by IBM)	12	3	COURSERA	Available
Data Analysis and Interpretation	12	3	COURSERA	Available
Machine Learning for Accounting with Python	12	3	COURSERA	Available
Data Processing Using Python	12	3	COURSERA	Available

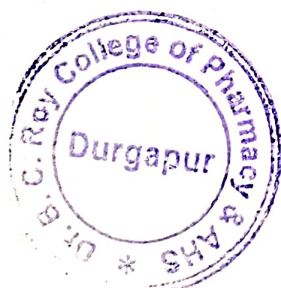




 Prof. (Dr.) Sanfir Kumar Samanta
 M. Pharm., Ph.D (J.U.)
 Principal
 Dr. B. C. Roy College of Pharmacy & AHS
 Durgapur, West Bengal-713206

Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)

List of MOOCs for UG Honours degree (AICTE Programmes)
Effective for Odd Semester of 2020-21

Introduction to Artificial Intelligence (by IBM)	8	2	COURSERA	Available
Data Science: Foundations using R Specialization	12	3	COURSERA	Available
Python for Data Science and AI	8	2	COURSERA	Available
Data Science: Statistics and Machine Learning Specialization	12	3	COURSERA	Available
Python and Statistics for Financial Analysis	4	1	COURSERA	Available
Applied Machine Learning in Python	12	4	COURSERA	Available
Introduction to Machine Learning	12	3	NPTEL	Available
Data Science for Engineers	8	2	NPTEL	Available
Introduction to Internet of Things	12	3	NPTEL	Available
Industrial Pharmacy I	12	3	Swayam	Available




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



List of students undertaken MOOCs during the AY 2023-2024

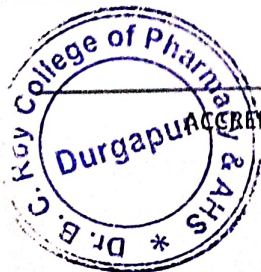
Sl	University Roll No.	Name of the student
1	18905923004	Abir Bhui
2	18905923009	Ankita Sen
3	18905923010	Anuran Ghosh
4	18905923015	Arkya Sasmal
5	18905923017	Arpita Saha
6	18905923018	Asman Al Mamun
7	18905923021	Ayan Mahanti
8	18905923023	Ayush Bakshi
9	18905923026	Chandan Ghosh
10	18905923028	Chayan Karmakar
11	18905923033	Indrajit Patra
12	18905923034	Indranil Bhattacharyya
13	18905923036	Jitendra Mahato
14	18905923040	Kankan Pal
15	18905923041	Kaustav Pal
16	18905923046	Marshall Mandi
17	18905923055	Rahul Samanta
18	18905923063	Rupak Banerjee
19	18905923064	Rupam Mondal
20	18905923070	Sarthak Pal
21	18905923075	Shreya Hazra
22	18905923082	Sriparna Das
23	18905923098	Susmita Debnath
24	18905923103	Trisha Chatterjee
25	18905923104	Upatyaka Bhanja
26	18901922016	Avinandan Khanda
27	18901922075	Debjit Chakrabarti
28	18901922006	Jeet China
29	18901922054	Prithwish Ghosh
30	18901922018	Rakhi Dua
31	18901922104	Santanu Das
32	18901922052	Sayan Kumar Mishra
33	18901922017	Soumen Khanra
34	18901922009	Sourav Gorain
35	18901922042	Sourik Karmakar
36	18901922100	Souvick Maity
37	18901922012	Tathagat Dhal
38	18901922114	Aindrila Dutta
39	18901921075	Animesh Bera



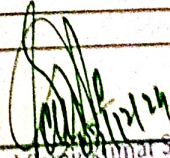


Approved by PCI & Affiliated to MAKAUT, WB and WBSCT&VE&SD
Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal (India)

40	18901921074	Ankan Banerjee
41	18901921043	Anurag Dey
42	18901921049	Arindam Saha
43	18901921070	Aritra Samanta
44	18901921076	Ayon Bug
45	18901921079	Bishal Gorai
46	18901921098	Biswajit Singha
47	18901921071	Buddhadeb Bhunia
48	18901921007	Chandrika Sahoo
49	18901921055	Chayan Bhandari
50	18901921014	Debsen Mallik
51	18901921088	Deepanjan Kesh
52	18901921100	Ishika Halder
53	18901921024	Kousik Giri
54	18901921038	Koyel Nandi
55	18901921092	Mampi Nag
56	18901921064	Monalisa Hembram
57	18901921061	Nirmita Kundu
58	18901921085	Nishu Roy
59	18901921010	Pradipta Sekhar Maity
60	18901921058	Prasansha Pradhan
61	18901921026	Rajdip Ghosh
62	18901921103	Ritesh Ranjan Mahato
63	18901921028	Sabyasachi Pati
64	18901921060	Samridha Bagchi
65	18901921069	Sanjib Ghosh
66	18901921020	Saptadip Sinha Babu
67	18901921101	Sayan Ghosh
68	18901921002	Sayoni Saha
69	18901922004	Shampa Ghosh
70	18901922110	Shankhadip Mandal
71	18901921073	Soham Dutta
72	18901921084	Somnath Mondal
73	18901921087	Soumi Roy
74	18901921041	Soumyabrata Samanta
75	18901921017	Souvik Kumar Hazra
76	18901921036	Souvik Saha
77	18901921004	Subhadeep Dandapat
78	18901921018	Subhadeep Mukherjee
79	18901921015	Subhadip Kundu
80	18901922111	Subhankar Sinha
81	18901921031	Subir Maity
82	18901921034	Sujoy Biswas
83	18901921095	Sumit Sau
84	18901921089	Suraj Patra



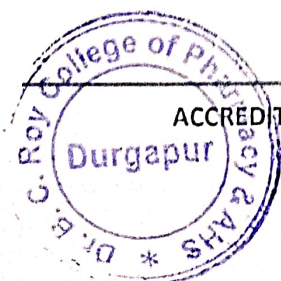
ACCREDITED BY NAAC (B++) & NBA (FOR UG PHARMACY) [2023-2026] (J.U.)


M. Phani Kumar Samanta
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Approved by PCI & Affiliated to MAKAUT, WB and WBSCT&VE&SD
Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal (India)

85	18901921006	Swarnendu Ghosh
86	18901921035	Udit Mondal
87	18901920032	Agnith Maity
88	18901920087	Anik Mukhopadhyay
89	18901920036	Anirban Dan
90	18901920039	Ankan Mukherjee
91	18901920031	Ankita Dey
92	18901920030	Anomita Das
93	18901920043	Anwesha Bandyopadhyay
94	18901920094	Aparesh Bera
95	18901920071	Arijit Sil
96	18901920035	Aritra Nandy
97	18901920056	Arpan Kar
98	18901921117	Arpan Nandi
99	18901920077	Bapi Konai
100	18901920091	Bibekananda Bhui
101	18901920057	Bidhakar Ray
102	18901920076	Bikram Das
103	18901920019	Bilash Patra
104	18901920029	Bithika Banerjee
105	18901921114	Bubai Mohish
106	18901921111	Debjyoti Dey
107	18901920009	Dibendu Sannigrahi
108	18901920044	Indranil Kundu
109	18901920059	Jeet Banerjee
110	18901920103	Jyotiraditya Das
111	18901920006	Koushik Das
112	18901920090	Md Safi
113	18901920002	Md Touheed Ahamed
114	18901920027	Mohan Chandra Baral
115	18901920098	Nabanita Sen
116	18901920038	Neha Das
117	18901921106	Poulami Bisuyi
118	18901920014	Poulami Singha
119	18901921109	Prabir Mondal
120	18901920100	Pritam De
121	18901920073	Pritam Jana
122	18901920020	Pritam Mondal
123	18901920104	Priyanka Jana
124	18901920001	Ram Swarup Chattopadhyay
125	18901920061	Ranadeep Bose
126	18901920081	Rik Karak
127	18901920095	Rittik Paul
128	18901920045	Ritwik Sahoo
129	18901920022	Ritwim Mondal



ACCREDITED BY NAAC (B++) & NBA (FOR UG PHARMACY) [2023-2026] Ph.D (J.U.)


Prof. (Dr.) Samir Kumar Samanta
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Approved by PCI & Affiliated to MAKAUT, WB and WBSCT&VE&SD
Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal (India)

130	18901921113	Riya Kundu
131	18901920067	Rohan Mondal
132	18901920055	Ronajit Mondal
133	18901920003	Sagnik De
134	18901920011	Saikat Goswami
135	18901920016	Sampriti Mishra
136	18901921115	Sandip Ruhidas
137	18901920075	Saptarshi Bhattacharjee
138	18901920050	Sarbartha Das
139	18901920010	Sathi Ghosh
140	18901920085	Saamyabrata Bhattacharya
141	18901920065	Sayan Hati
142	18901920048	Sayan Kar
143	18901920033	Sayan Nandi
144	18901920099	Shankhasree Sen
145	18901920060	Shoaib Akhtar
146	18901920078	Shrabani Das
147	18901920021	Shyamacharan Banerjee
148	18901921105	Siddhanta Mishra
149	18901920101	Sinchan Kumar Roy
150	18901920083	Sk Samim Hossain
151	18901920040	Soham Kundu
152	18901920086	Sougata Ghoshal
153	18901920097	Soumyadeep Guha
154	18901920025	Subhash Ghosh
155	18901920096	Subhra Kanta Mandal
156	18901920007	Subrata Dutta
157	18901920072	Sujata Burnwal
158	18901920092	Suman Maity
159	18901920064	Sumana Das
160	18901921107	Suranjana Basak
161	18901920074	Sushanta Singha
162	18901920054	Sushovan Maity
163	18901920005	Tamal Chatterjee
164	18901920089	Tanushree Pradhan
165	18901920034	Tapabrata Bhanja
166	18901920008	Tushar Debnath
167	18901920049	Vishal Kumar Mahato




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206