

Master in Pharmacy (M. Pharm)

All India Council Of Technical Education (AICTE) and Pharmacy council of India (PCI) approved 2 years postgraduate programme offered by Gupta College of Technological Sciences affiliated to West Bengal University of Technology (WBUT).

Minimum Eligibility for application

An application for admission to the M. Pharm course requires a minimal qualification of a B. Pharm degree from any recognized University of India with not less than 60% marks in aggregate. Selection of candidature is done on the basis of the scores obtained in an entrance test conducted by the university (WBUT), which includes a written examination followed by a viva voice, by a board of institutional experts.

About the programme

Pharmacy being an emerging branch of healthcare is spreading its realms into other modern technology based branches of biology like biotechnology, nanotechnology, computer drug designing and bioinformatics. Our programme offers each student, a firm footing into these modern technology based subjects through thorough class room courses, in-depth practical hands-on in the laboratories along with assignment and guidance for motivated research.

Programme content

The master degree course offers specialization in the enlisted branches of pharmacy which has a course content as follows:

PHARMACEUTICAL CHEMISTRY

SEMESTER-I

A. THEORY

SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-103(1)	Advanced Pharmaceutical Chemistry-I	4				3
02	MBS-101	Bio-Statistics (Common paper)	4				2
03	MPT-101	Modern Pharmaceutical Analytical Techniques (Common paper)	4				3
04	MPT-103(2)	Advanced Pharmaceutical Chemistry-II	3				2
Sessional							
05	MPT-181	Seminar					1
06	MPT-193(1)	Pharmaceutical Chemistry Lab.			4		3
	MPT-191	Pharmaceutical Analysis Lab.			4		3
							17

FULL MARKS FOR PAPER WITH 2 / 3 CREDIT POINT = 100

FULL MARKS FOR PAPER WITH 1 CREDIT POINT = 50

FULL MARKS FOR PAPER WITH 5 CREDIT POINT = 200

FULL MARKS FOR PAPER WITH 9 CREDIT POINT = 300

SEMISTER-II

<u>A. THEORY</u>							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-203(1)	Advanced Pharmaceutical Chemistry-III	3				2
02	MPT-209	Pharmaceutical Bio-technology	4				3
03	MPT-212	Process validation & CGMP (Common paper)	4				3
04	MPT-203(2)	Advanced Pharmaceutical Chemistry-IV	2				2
Sessional							
05	MPT-281	Seminar					1
06	MPT-293	Pharmaceutical Chemistry Lab.			4		2
							13

SEMISTER-III

<u>A. THEORY</u>							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-314	Research Method & Clinical Trials	3				2
01	MPT-391	Synopsis					5
02	MPT-392	Presentation					3

SEMESTER-IV**A. THEORY**

SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-493	Thesis					9
02	MPT-493(1)	Defence of Thesis					3
							12

The Synopsis and presentation of 1st semester and Thesis and Defence of Thesis in 4th Semester should be assessed in presence of External Examiner(s). The Final Credit should be awarded to the student of the above mentioned subjects by both the internal and external examiners.

PHARMACEUTICS**SEMESTER-I****A. THEORY**

SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-106	Dosage form design parameters & pharmaceutical product development	4				3
02	MBS-101	Bio-Statistics (Common paper)	4				2
03	MPT-101	Modern Pharmaceutical Analytical Techniques (Common paper)	4				3
04	MPT-116	Bio-pharmaceutics & pharmacokinetics	3				2
Sessional							
05	MPT-181	Seminar					1

06	MPT-196	Pharmaceutical Technology Lab.			4		3
	MPT-191	Pharmaceutical Analysis Lab.			4		3
							17

FULL MARKS FOR PAPER WITH 2 / 3 CREDIT POINT = 100

FULL MARKS FOR PAPER WITH 1 CREDIT POINT = 50

FULL MARKS FOR PAPER WITH 5 CREDIT POINT = 200

FULL MARKS FOR PAPER WITH 9 CREDIT POINT = 300

SEMISTER-II

A. THEORY							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-206(1)	Drug Delivery System	3				2
02	MPT-209	Pharmaceutical Bio-technology	4				3
03	MPT-212	Process validation & CGMP (Common paper)	4				3
04	MPT-206(2)	Physical Pharmaceutics	2				1
Sessional							
05	MPT-281	Seminar					1
06	MPT-296	Bio-pharmaceutics Lab.			4		2
							13

SEMISTER-III

A. THEORY					
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)		CREDITS

			L	T	P	TOTAL	
01	MPT-314	Research Method & Clinical Trials	3				2
02	MPT-391	Synopsis					5
03	MPT-392	Presentation					3
							10

SEMISTER-IV

<u>A. THEORY</u>							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-496	Thesis					9
02	MPT-496(1)	Defence of Thesis					3
							12

The Synopsis and presentation of 1st semester and Thesis and Defence of Thesis in 4th Semester should be assessed in presence of External Examiner(s). The Final Credit should be awarded to the student of the above mentioned subjects by both the internal and external examiners.

PHARMACOLOGY

SEMESTER-I

<u>A. THEORY</u>							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-108(1)	General Pharmacology	4			4	3
02	MBS-101	Bio-Statistics (Common paper)	4			4	2

03	MPT-101	Modern Pharmaceutical Analytical Techniques (Common paper)	4			4	3
04	MPT-108(2)	Advanced Pharmacology	3			3	2
Sessional							
05	MPT-181	Seminar					1
06	MPT-198	Pharmacology Lab			4	4	3
	MPT-191	Pharmaceutical Analysis Lab.			4	4	3
						23	17

FULL MARKS FOR PAPER WITH 2 / 3 CREDIT POINT = 100

FULL MARKS FOR PAPER WITH 1 CREDIT POINT = 50

FULL MARKS FOR PAPER WITH 5 CREDIT POINT = 200

FULL MARKS FOR PAPER WITH 9 CREDIT POINT = 300

SEMISTER-II

<u>A. THEORY</u>							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-208(1)	Clinical Pharmacology	3			3	2
02	MPT-209	Pharmaceutical Bio-technology	4			4	3
03	MPT-212	Process validation & CGMP (Common paper)	4			4	3
04	MPT-208(2)	Molecular Pharmacology	3			3	2
Sessional							
05	MPT-281	Seminar					1
06	MPT-293	Pharmacology Lab.			4	4	2
						18	13

SEMESTER-III

A. THEORY							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-314	Research Method & Clinical Trials	3			3	2
01	MPT-391	Synopsis					5
02	MPT-392	Presentation					3
						3	10

SEMESTER-IV

A. THEORY							
SL. NO.	CODE	THEORY	CONTACTS (PERIODS/WEEK)				CREDITS
			L	T	P	TOTAL	
01	MPT-493(1)	Thesis					9
02	MPT-493(2)	Defence of Thesis					3
							12

The Synopsis and presentation of 1st semester and Thesis and Defence of Thesis in 4th Semester should be assessed in presence of External Examiner(s). The Final Credit should be awarded to the student of the above mentioned subjects by both the internal and external examiners.

Career Scopes

A postgraduate degree in pharmacy may open up opportunities in career development in national and international levels with vast scopes of employment in

- Research and development in multi-national and national pharmaceutical, cosmetic technology industries as well as in research organizations under CSIR, ICMR, DST etc
- Product Planning and Formulation Designing
- Product Management
- Import and Export Quality Control Management
- Clinical Pharmacy
- Academics: College and University Teaching and Research
- Regulatory affairs: In government and statutory bodies in drug development, manufacturing regulations, implementation and quality control , Director of drug control