

Scheme and Syllabus

M.Sc. Pharmaceutical Chemistry

IEC School of Basic & Applied Sciences



Atal Shiksha Nagar (Kallujhanda), P.O.
Mandhala, Village- Nanakpura,
Pinjore-Nalagarh highway, District - Solan,
Himachal Pradesh – 174103

1st Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
MPCH-101	Organometallics and Nuclear Chemistry	4	1	0	4	4.5	60	40	100
MPCH-102	Basic Pharmacology	4	1	0	4	4.5	60	40	100
MPCH -103	Chemical Bonding	4	1	0	4	4.5	60	40	100
MPCH-104	Biostatistics and computers	4	1	0	4	4.5	60	40	100
MPCH-151- P	Chemistry Lab-I	0	0	4	4	2	30	20	50
MPCH-152- P	Chemistry Lab-II	0	0	4	4	2	30	20	50
MPCH-153- P	Biostatistics and computers-Lab	0	0	4	4	2	30	20	50

2nd Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
MPCH-201	Biochemistry	4	1	0	4	4.5	60	40	100
MPCH-202	Advanced organic chemistry	4	1	0	4	4.5	60	40	100
MPCH -203	Coordination Chemistry	4	1	0	4	4.5	60	40	100
MPCH-204	Stereochemistry and Thermo -analytical Methods	4	0	0	4	4	60	40	100
MPCH-251- P	Chemistry lab-III	0	0	4	4	2	30	20	50
MPCH-252- P	Advanced organic chemistry lab	0	0	4	4	2	30	20	50
MPCH-253- P	Coordination Chemistry-Lab	0	0	4	4	2	30	20	50
Seminar	Seminar	0	0	0		1	100	0	100

3rd Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
MPCH-301	Modern pharmaceutical analytical techniques	4	1	0	4	4.5	60	40	100
MPCH-302	Medicinal chemistry	4	1	0	4	4.5	60	40	100
MPCH -303	Environmental Biotechnology	4	1	0	4	4.5	60	40	100
MPCH-304	drug delivery system & bio pharmaceuticals	4	0	0	4	4	60	40	100
MPCH-351- P	Modern pharmaceutical analytical techniques- Lab	0	0	4	4	2	30	20	50
MPCH-352- P	Medicinal chemistry- Lab	0	0	4	4	2	30	20	50
MPCH-353- P	Pharmacokinetics Practical-Lab	0	0	4	4	2	30	20	50

4th Semester

Course Code	Course Title	L	T	P	CH	CP	Int. A	ESE	Total
MPCH-401	Pharmaceutical process chemistry	4	1	0	4	4.5	60	40	100
MPCH-402	Chemistry of natural products	4	1	0	4	4.5	60	40	100
MPCH-403	Dissertation	0	0	15	40	12	50	50	100

L – Lecture; **T** – Tutorial; **P** – Practical; **CH** – Contact hour; **CP** – Credits points; **Int. A** – Internal assessment; **ESE** – End-semester exam