

Bachelor of Pharmacy

Pharmacy is a rewarding and noble medical profession. Pharmacists keep an in-depth knowledge of chemistry of drugs and how they react in humans and also how drugs interact with each other. Pharmacists are involved from the starting point of drug production to its end point of consumption by the patients.

In Nepal, qualified pharmacists need to be involved in processes of production, quality control, inspection, storage/supply and dispensing of drugs in hospital setting and community pharmacy outlets.

Against the backdrop delineated above, it is obvious that there has never been a more exciting time to study pharmacy and the demand for pharmacists is strong both at home and abroad. Therefore, for someone, to pursue pharmacy as a career path is an opportune time. Realizing these facts the CIST aims and is committed to produce the pharmacists of high quality and competence, capable of getting themselves absorbed anywhere in the global market.

Course overview:

1. Four years course divided into 8 semesters.
2. Total Credit Hours : 166
 - Theory : 135 credit hours
 - Laboratory: 19 credit hours
 - Seminar: 6 credit hours
 - Dissertation : 6 credit hours
 - Internship:
3. 2 weeks compulsory training in the hospital + retail pharmacy as
4. 2 weeks compulsory “ In plant training in the pharmaceutical industry (final year)
5. University conducts final examination and CIST organized two internal assessments and practical examination in each semester.

Curriculum Structure

1st Year (1st Semester)

Code	Description	Credit hours
PHT 101	Pharmaceutics I (Fundamentals of Pharmacy)	3
PHC 171	Pharmaceutical Chemistry I (General Chemistry)	3
PHC 172	Pharmaceutical Chemistry II (Stereochemistry & Reaction Mechanism)	3
CSC 191	Computer Science (Introductory)	3
MTH 192	Mathematics (Algebra, Trigonometry, Calculus)	3
ENG 193	Communication Skill (Technical English)	3
LAB-1	Pharmaceutical Laboratory	1

Total

19

1st Year (2nd Semester)

Code	Description	Credit hours
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PHT 102	Pharmaceutics II (Physical Pharmacy)	3
BCM 121	Biochemistry I	3
APL 131	Anatomy and Physiology I	3
PHC 173	Pharmaceutical Chemistry III (General Chemistry)	3
PHG 181	Pharmacognosy I (Medicinal Botany)	3
MTH 194	Biostatistics	3
LAB -2	Pharmaceutical Laboratory 2	
LAB -3	Pharmaceutical Laboratory 3	
LAB -2	Pharmaceutical Laboratory 4	
SEM -1	Pharmaceutical Seminar-1	

Total	19
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2nd Year (3rd Semester)

Code	Description	Credit hours
PHT 201	Pharmaceutics III (Dosage forms and Formulations)	3
BCM 221	Biochemistry II	3
APL 231	Anatomy and Physiology II	3
CBL 241	Molecular cell Biology (Genetic Engineering)	3
PHC 271	Pharmaceutical Chemistry IV (Analytical Chemistry)	3
PHG 2 81	Pharmacognosy II (Spectroscopy)	3
LAB-5	Pharmaceutical Laboratory 5	1
LAB-6	Pharmaceutical Laboratory 6	1
LAB-7	Pharmaceutical Laboratory 7	1
SEM-2	Pharmaceutical Seminar-2	1

Total	22
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2nd Year (4th Semester)

Code	Description	Credit hours
PHT 202	Pharmaceutics IV (Dosage forms and Formulations)	3
PHT 203	Pharmaceutics V (Biopharmaceutics A)	3
MBL 251	Pharmaceutical Microbiology I (General)	3
IML 261	Immunology (Fundamental of Immunology)	3
PHC 272	Pharmaceutical Chemistry V (General Chemical Reaction)	3
PHG 282	Pharmacognosy III (Natural Products Chemistry)	3
LAB-8	Pharmaceutical Laboratory 8	1
LAB-9	Pharmaceutical Laboratory 9	1
LAB-10	Pharmaceutical Laboratory 10	1
SEM-3	Pharmaceutical Seminar-3	1

Total	22
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3rd Year (5th Semester)

Code	Description	Credit hours
PHT 301	Pharmaceutics VI (Biopharmaceutics B)	3
PHT 302	Pharmaceutics VII (Pharmaceutical Engineering and Drawing)	3
PHL 311	Pharmacology I (Therapeutics)	3
APL 331	Anatomy and Physiology (Pathophysiology)	3
PHC 371	Pharmaceutical Chemistry VI (Name Reaction)	3
PHG 381	Pharmacognosy IV (Natural Products Chemistry)	3
LAB-11	Pharmaceutical Laboratory 11	1
LAB-12	Pharmaceutical Laboratory 12	1
LAB-13	Pharmaceutical Laboratory 13	1
SEM-4	Pharmaceutical Seminar-4	1

Total 22
3rd Year (6th Semester)

Code	Description	Credit hours
PHT 303	Pharmaceutics VIII (Industrial Pharmacy)	3
PHT 304	Pharmaceutics IX (Hospital Pharmacy)	3
PHL 312	Pharmacology II (Therapeutics)	3
PHC 372	Pharmaceutical Chemistry VII (Quality Assurance of drugs)	3
PHC 373	Medicinal Chemistry I (Natural Drugs)	3
PHG 382	Pharmacognosy V (Himalayan Crude Drugs)	3
LAB-14	Pharmaceutical Laboratory 14	1
LAB-15	Pharmaceutical Laboratory 15	1
LAB-16	Pharmaceutical Laboratory 16	1
SEM-5	Pharmaceutical Seminar-5	1

Total 22
4th Year (7th Semester)

Code	Description	Credit hours
PHT 401	Pharmaceutics X (Cosmetology)	3
PHT 402	Pharmaceutics XI (Clinical Pharmacy)	3
PHL 411	Pharmacology III (Therapeutics and Toxicology)	3
PHC 471	Medicinal Chemistry II (Synthetic drugs)	3
PHG 481	Pharmacognosy VI (Traditional Systems of Medicine)	3
RES 491	Pharmaceutical Research	3
LAB-17	Pharmaceutical Laboratory 17	1
LAB-18	Pharmaceutical Laboratory 18	1
LAB-19	Pharmaceutical Laboratory 19	1
SEM-6	Pharmaceutical Seminar-6	1

Total 22
4th Year (8th Semester)

Code	Description	Credit hours
PHT 403	Social Pharmacy and Pharmaceutical Jurisprudence	3
PHT 404	Pharmacoeconomics and management	3
PHT 405	Pharmacy Practice	3
PRW 491	Project Work	9

Total 15