

Study Plan

Doctor of Pharmacy Program (International Program) is a 6-year program of no less than 223 credits (coursework 189 credits and internship 34 credits)

1 st Year		
Semester 1		
Code	Name	Credits (Lecture-Lab-Self Study)
ICCH 192	General Chemistry	3 (3-0-6)
ICGE 101	Basic Academic Writing and Research	3 (3-0-6)
ICGE 128	How to Know What Is Good? - Moral Reasoning and Behavior	3 (3-0-6)
ICGE 129	Diversities in Multilingual Societies	1 (1-0-2)
ICGE 134	Positive Psychology	3 (3-0-6)
ICGE 141	Fundamental Entrepreneurship	3 (3-0-6)
ICMA 190	Statistics for Science	3 (3-0-6)
ICMA 192	Biological Statistics Laboratory	1 (0-3-1)
Total		20

1 st Year		
Semester 2		
Code	Name	Credits (Lecture-Lab-Self Study)
ICBI 190	Ethics for Biological Sciences	3 (3-0-6)
ICBI 191	Cell Biology	3 (3-0-6)
ICCH 193	Organic Chemistry	3 (3-0-6)
ICGE 102	Advanced Academic Writing and Research	3 (3-0-6)
ICGE 103	Public Speaking	3 (3-0-6)
ICGE 133	Leadership and Change for a Global Society	3 (3-0-6)
ICMA 191	Calculus	3 (3-0-6)
ICSC 190	Scientific Research and Presentations	1 (1-0-2)
Total		22

2 nd Year		
Semester 1		
Code	Name	Credits (Lecture-Lab-Self Study)
PYBN 201	Principles of Medicinal Chemistry	2 (2-0-4)
PYBP 201	Intro to Pharmacy Profession and Professional Communication	2 (2-0-4)
PYBS 201	Human Anatomy, Physiology and Pathophysiology I	2 (2-0-4)
PYBS 211	Basic Physical Assessment for Pharmacists	1 (0-3-1)
PYBS 202	Human Anatomy, Physiology and Pathophysiology II	2 (2-0-4)
PYBS 203	Human Anatomy, Physiology and Pathophysiology III	2 (2-0-4)
PYBS 204	Biochemistry and Genetics	3 (3-0-6)
PYDN 201	Principles of Drug Control	2 (2-0-4)
PYDN 211	Principles of Drug Control Laboratory	1 (0-3-1)
Total		17

2 nd Year		
Semester 2		
Code	Name	Credits (Lecture-Lab-Self Study)
PYBS 205	Microbiology for Pharmacy	3 (3-0-6)
PYBS 215	Microbiology for Pharmacy Laboratory	1 (0-3-1)
PYBS 206	Fundamental Immunology	1 (1-0-2)
PYCP 201	Biopharmaceutics and Pharmacokinetics	2 (2-0-4)
PYCP 202	Basic Pharmaceutical Care and Pharmacotherapy of Personal Products	2 (2-0-4)
PYCS 201	Pharmacology I	3 (3-0-6)
PYCS 211	Pharmacology Laboratory I	1 (0-3-1)
PYCS 202	Applied Biochemistry	3 (3-0-6)
PYDN 202	Drug Control I	2 (2-0-4)
PYDT 201	Introduction to Pharmaceutical Technology	1 (1-0-2)
Total		19

3 rd Year		
Semester 1		
Code	Name	Credits (Lecture-Lab-Self Study)
PYCN 301	Medicinal Chemisry I	2 (2-0-4)
PYCP 301	Symptomatology for Pharmacists	2 (2-0-4)
PYCP 311	Basic Pharmacy Practice Skills	1 (0-3-1)
PYCS 301	Pharmacology II	4 (4-0-8)
PYDN 301	Medicinal Plants and Natural Products	3 (3-0-6)
PYDN 311	Medicinal Plants and Natural Products Laboratory	1 (0-3-1)
PYDN 302	Drug Control II	2 (2-0-4)
PYDS 301	Introduction to Bioproduct	2 (2-0-4)
PYDT 301	Pharmaceutical Technology in Solid and Solution Systems	2 (2-0-4)
PYDT 311	Pharmaceutical Technology in Solid and Solution Systems Laboratory	1 (0-3-1)
Total		20

3 rd Year		
Semester 2		
Code	Name	Credits (Lecture-Lab-Self Study)
PYAP 301	Drug and Health System	2 (2-0-4)
PYCN 302	Medicinal Chemisry II	2 (2-0-4)
PYCP 302	Pharmacotherapy in Infectious Diseases	2 (2-0-4)
PYCP 303	Pharmacotherapy in Skin, Musculoskeletal, Eyes, Ear, Nose, and Respiratory Disorders	2 (2-0-4)
PYCP 304	Pharmacotherapy of Common Diseses in Community Pharmacy	2 (2-0-4)
PYCP 312	Pharmacy Practice for Essential Skills in Community Pharmacy	1 (0-3-1)
PYCS 302	Pharmacology III	2 (2-0-4)
PYDS 302	Quality Assurance and Quality Control of Bioproducts	1 (1-0-2)
PYDT 302	Pharmaceutical Technology in Dispersed Systems	2 (2-0-4)
PYDT 312	Pharmaceutical Technology in Dispersed Systems Laboratory	1 (0-3-1)
PYDT 303	Pharmaceutical Solid and Sterile Dosage Forms	2 (2-0-4)
PYDT 313	Pharmaceutical Solid and Sterile Dosage Forms Laboratory	1 (0-3-1)
Total		20

4 th Year		
Semester 1		
Code	Name	Credits (Lecture-Lab-Self Study)
PYAP 401	Hospital Pharmacy Management	2 (2-0-4)
PYAP 402	Quantitative Methodology and Statistics in Pharmacy	2 (2-0-4)
PYAP 403	Pharmacy Laws and Ethics in ASEAN	2 (2-0-4)
PYCP 401	Pharmacotherapy in Cardiovascular Diseases	2 (2-0-4)
PYCP 402	Pharmacotherapy in Endocrine and Gastrointestinal Diseases	2 (2-0-4)
PYCP 403	Pharmacotherapy in Electrolyte Disorders, Nephrological and Urological Diseases	2 (2-0-4)
PYCP 407	Pharmacogenetics and Applications	1 (1-0-2)
PYCP 411	Pharmacy Practice Skills for Basic Clinical Activities in Hospital	1 (0-3-1)
PYDN 401	Nutraceuticals	1 (1-0-2)
PYDT 401	Pharmaceutical Extemporaneous Preparations	1 (1-0-2)
PYDT 411	Pharmaceutical Extemporaneous Preparations Laboratory	1 (0-3-1)
PYDT 402	Industrial Pharmacy	2 (2-0-4)
PYXX xxx	Free Elective	2 (2-0-4)
Total		21

4 th Year		
Semester 2		
Code	Name	Credits (Lecture-Lab- Self Study)
PYAP 404	Pharmacoepidemiology	2 (2-0-4)
PYAP 405	Pharmacoeconomics	2 (2-0-4)
PYAP 416	Government Affairs and Public Regulation for Health Products	1 (0-3-1)
PYCN 401	Evidence-based Phytotherapy	2 (2-0-4)
PYCN 402	Diet Therapy	2 (2-0-4)
PYCP 404	Pharmacotherapy in Neurological and Psychiatric Diseases	2 (2-0-4)
PYCP 405	Pharmacotherapy in Hematologic and Oncologic Diseases	2 (2-0-4)
PYCP 406	Pharmacotherapy in Special Population	2 (2-0-4)
PYCP 408	Clinical Pharmacokinetics and Pharmacometrics	1 (1-0-2)
PYCP 418	Clinical Pharmacokinetics and Pharmacometrics Laboratory	1 (0-3-1)
PYCP 412	Pharmacy Practice Skills for Advanced Clinical Activities in Hospital	1 (0-3-1)
PYXX xxx	Free Elective	2 (2-0-4)
Total		20

5 th Year		
Semester 1		
Code	Name	Credits (Lecture-Lab-Self Study)
PYAP 511	Business Start-up Management and Administration in Pharmacy	2 (0-6-2)
PYCP 501	Undesirable Drug Effects and Clinical Toxicology	3 (3-0-6)
PYCP 502	Personalized Medicine	3 (3-0-6)
PYCP 513	Pharmacy Literature Evaluation and Drug Information	1 (0-3-1)
PYCU 541	Professional Practice in Hospital	3 (0-14-4)
PYCU 542	Professional Practice in Community Pharmacy	3 (0-14-4)
PYDP 501	Drug Product Quality Assessment in Practice	2 (2-0-4)
PYDT 501	Next Generation of Pharmaceutical Products	2 (2-0-4)
PYXX xxx	Free Elective	2 (2-0-4)
Total		21

5 th Year		
Semester 2		
Code	Name	Credits (Lecture-Lab-Self Study)
PYSU 591	Special Project	3 (0-9-3)
PYXX xxx	Professional Elective 1	2 (2-0-4)
PYXX xxx	Professional Elective 2	2 (2-0-4)
PYXX xxx	Professional Elective 3	2 (2-0-4)
PYXX xxx	Professional Elective 4	2 (2-0-4)
PYXX xxx	Professional Elective 5	2 (2-0-4)
PYXX xxx	Professional Elective 6	2 (2-0-4)
Total		15

6 th Year		
Semester 1		
Code	Name	Credits (Lecture-Lab-Self Study)
PYCP 651	Pharmaceutical Care Clerkship in Medicine	4 (0-16-4)
PYCP 652	Pharmaceutical Care Clerkship in Ambulatory Care	4 (0-16-4)
PYCP 653	Pharmaceutical Care Clerkship in Community Pharmacy	4 (0-16-4)
PYCP 654	Professional Practice in Medication Management in Hospital	4 (0-16-4)
Total		16

6 th Year		
Semester 2		
Code	Name	Credits (Lecture-Lab-Self Study)
PYXX xxx	Elective Clerkship 1	4 (0-16-4)
PYXX xxx	Elective Clerkship 2	4 (0-16-4)
PYXX xxx	Elective Clerkship 3	4 (0-16-4)
Total		12