

Faculty of Pharmacy

Curriculum

Liberal Arts Education

■ – Compulsory Subjects   ■ – Elective Subjects

Subject Group	Basic Subjects	Liberal Arts Subjects	Foreign Language Subjects
Classes	Introduction to Environmental Studies	Computer Literacy Application of Computer Literacy Psychology Management and Society Law and Society Introduction to Mathematics Aesthetics Gender and Society Introductory Seminar 1 Introductory Seminar 2	English(Elementary Reading) 1 English(Elementary Reading) 2 English(Elementary Communication) 1 English(Elementary Communication) 2 English(Pre-Intermediate Reading) 1 English(Pre-Intermediate Reading) 2 English(Pre-Intermediate Communication) 1 English(Pre-Intermediate Communication) 2 English(Intermediate Reading) 1 English(Intermediate Reading) 2 English(Intermediate Communication) 1 English(Intermediate Communication) 2

Subject Group	Pharmaceutical Preparatory Subjects	Health and Sports Subjects
Classes	Fundamental Physics Fundamental Chemistry Fundamental Biology The Profession of Pharmacy 1 The Profession of Pharmacy 2 Introduction to Pharmacy and Pharmaceutical Sciences 1 Introduction to Pharmacy and Pharmaceutical Sciences 2 The Principles of Communication Introduction to Laboratory Practices Career Development	Health and Sports Science 1 Health and Sports Science 2 Health and Sports Science 3 Health and Sports Science 4 Scientific Theory of Health and Sports

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Specialized Education Faculty of Pharmac

■ – Compulsory Subjects ■ – Elective Subjects

Classes		1st Year	2nd Year	3rd Year	4th Year	5th Year
Specialized Subjects	Core Subjects	Physical Chemistry 1	Physical Chemistry 2	Organic Chemistry 3	Traditional and <i>Kampo</i> Medicines	
		Fundamental Organic Chemistry	Organic Chemistry 1 Organic Chemistry 2	English for Pharmacy 2	Clinical Pharmacokinetics	
		Anatomy and Physiology 1 Anatomy and Physiology 2	Anatomy and Physiology 3	Pharmacokinetics 2	Self Medication and Medical Statistics	
		Biochemistry 1 Biochemistry 2	Biochemistry 3	Pharmaceutical Technology 2	Chemotherapy and Palliative Medicine	
			English for Pharmacy 1	Bioorganic Chemistry	Radiological Science	
			Pharmacopoeial Examination	Prevention and Control of Infectious Disease		
			Natural Product Chemistry	Public Health		
			Microbiology	Hygienic Chemistry 1 Hygienic Chemistry 2		
			Molecular Biology 1 Molecular Biology 2	Pharmacology and Pathophysiology 1 Pharmacology and Pathophysiology 2 Pharmacology and Pathophysiology 3 Pharmacology and Pathophysiology 4 Pharmacology and Pathophysiology 5 Pharmacology and Pathophysiology 6		
			Economics of Health and Welfare	Pharmaceutics		
			Pharmaceutical Botany and Pharmacognosy	Drug Informatics		
			Structural Analysis	Drug Delivery Systems and Biomedicine		
			Immunology	Pharmaceutical Law		
			Pharmacokinetics 1	Nutritional Science		
			Basic Pharmacology	Communication Skills in Pharmacy Practice		
			Pharmaceutical Technology 1			
			Analytical Chemistry			
			How the Body Goes Wrong			
			Mechanisms of Abnormal Values in Clinical Tests			
			Environmental Sciences			
			Clinical Psychology and Ethics			

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Classes		1st Year	2nd Year	3rd Year	4th Year	5th Year
Specialized Subjects	Laboratory Exercise		Laboratory Exercise for Fundamental Analytical Chemistry (Analytical Chemistry) Laboratory Exercise for Fundamental Analytical Chemistry (Biochemistry) Laboratory Exercise for Fundamental Chemistry 1 Laboratory Exercise for Fundamental Chemistry 2 Laboratory Exercise for Fundamental Biology (Physiology) Laboratory Exercise for Fundamental Biology (Microbiology) Laboratory Exercise for Advanced Chemistry 1 Laboratory Exercise for Advanced Chemistry 2	Laboratory Exercise for Advanced Biology (Pharmacology 1) Laboratory Exercise for Advanced Biology (Pharmacology 2) Laboratory Exercise for Physical Chemistry Laboratory Exercise for Pharmaceutical Technology Laboratory Exercise for Advanced Analytical Chemistry (Environmental Sciences) Laboratory Exercise for Advanced Analytical Chemistry (Hygienic Chemistry) Laboratory Exercise for Pharmaceutics Laboratory Exercise for Drug Informatics		Clinical Practice 1 : Hospital Pharmacy Clinical Practice 2 : Community Pharmacy
	Advanced Exercise Subjects	Exercise: Fundamental Chemistry Exercise: Fundamental Biology Exercise: Fundamental Physics Exercise: Anatomy and Physiology 1	Exercise: Physical Chemistry 1 Exercise: Physical Chemistry 2 Exercise: Fundamental Organic Chemistry Exercise: Organic Chemistry 1 Exercise: Anatomy and Physiology 2 Exercise: Anatomy and Physiology 3 Exercise: Biochemistry 1 Exercise: Biochemistry 2 Exercise: Biochemistry 3 Exercise: English for Pharmacy 1 Exercise: Natural Product Chemistry Exercise: Microbiology Exercise: Molecular Biology 1 Exercise: Economics of Health and Welfare	Exercise: Organic Chemistry 2 Exercise: Organic Chemistry 3 Exercise: Pharmacopoeial Examination Exercise: Molecular Biology 2 Exercise: Structural Analysis Exercise: Immunology Exercise: Pharmacokinetics 1 Exercise: Pharmacokinetics 2 Exercise: Basic Pharmacology Exercise: Pharmaceutical Technology 1 Exercise: Pharmaceutical Technology 2 Exercise: Prevention and Control of Infectious Disease Exercise: Public Health	Exercise: English for Pharmacy 2 Exercise: Bioorganic Chemistry Exercise: Hygienic Chemistry 2 Exercise: Pharmacology and Pathophysiology 3 Exercise: Pharmacology and Pathophysiology 4 Exercise: Pharmacology and Pathophysiology 5 Exercise: Pharmacology and Pathophysiology 6 Exercise: Drug Informatics Exercise: Drug Delivery Systems and Biomedicine Applied Exercise 18(Bioorganic Chemistry/Drug Delivery Systems and Biomedicine) Applied Exercise 19 (Hygienic Chemistry 1 /2) Applied Exercise 20 (Pharmacology and Pathophysiology 4/Prevention and Control of Infectious Disease) Applied Exercise 21 (Pharmaceutics and Drug Informatics)	

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Classes		1st Year	2nd Year	3rd Year	4th Year	5th Year
<b>Specialized Subjects</b>			Exercise: Pharmaceutical Botany and Pharmacognosy  Exercise: Analytical Chemistry  Applied Exercise 1 (Anatomy and Physiology 1/2) Applied Exercise 2 (Biochemistry 1/2) Applied Exercise 3 (Physical Chemistry 1/2) Applied Exercise 4 (Analytical Chemistry) Applied Exercise 5 (Natural Product Chemistry/Pharmaceutical Botany and Pharmacognosy) Applied Exercise 6 (Fundamental Organic Chemistry/Organic Chemistry 1) Applied Exercise 7 (Anatomy and Physiology 3) Applied Exercise 8 (Biochemistry 3)	Exercise: Hygienic Chemistry 1  Exercise: Pharmacology and Pathophysiology 1 Exercise: Pharmacology and Pathophysiology 2  Exercise: How the Body Goes Wrong  Exercise: Mechanisms of Abnormal Values in Clinical Tests  Exercise: Pharmaceutics  Exercise: Environmental Sciences  Exercise: Pharmaceutical Law  Applied Exercise 9 (Pharmacopoeial Examination and Structural Analysis) Applied Exercise 10 (Molecular Biology 1/2) Applied Exercise 11 (Microbiology/Immunology) Applied Exercise 12 (Abnormal Values in Clinical Tests/How the Body Goes Wrong) Applied Exercise 13 (Organic Chemistry 2/3) Applied Exercise 14 (Environmental Sciences/Public Health) Applied Exercise 15 (Basic Pharmacology/Pharmacology and Pathophysiology 1) Applied Exercise 16 (Pharmacokinetics 1/2) Applied Exercise 17 (Pharmaceutical Technology 1/2)	Applied Exercise 22 (Pharmacology and Pathophysiology 2/3)  Applied Exercise 23 (Pharmacology and Pathophysiology 5/6)	
	<b>Advanced Exercise Subjects</b>					

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授業科目		4th Year	5th Year	6th Year
<b>Integrated Pharmaceutical Education</b>		Therapeutic Management Summary of Fundamental Pharmaceutical Sciences Clinical Practice : Preliminary		Summary of Pharmaceutical Sciences Complementary Summary of Pharmaceutical Sciences
<b>Advanced in Pharmaceutical Education</b>	<b>Practical Pharmaceutical Sciences</b>		Extension 1: Career Development (Physics and Analysis) Extension 2: Career Development (Chemistry) Extension 3: Career Development (Biology) Extension 4: Career Development (Hygienic) Extension 5: Career Development (Pharmacology and Pathophysiology) Extension 6: Career Development (Pharmaceutics and Pharmaceutical Technology) Extension 7: Career Development (Professionalism) Externship Interprofessional Education Understanding Medical Care Clinical Nutritional – Care Science English Communication for Medical Care Selfcare and Elderly care Pharmacist in Emergency and Preventive Medicine Therapeutic Exercise Pharmaceutical Discovery and Development	Advanced Medicine and Pharmaceutics  Pharmacy Specialization
	<b>Pharmaceutical Sciences Research</b>	Fundamental Research Skills	Research Activity of Pharmacy 1 Exercise: Research Activity of Pharmacy 1 Applied Exercise: Research Activity of Pharmacy 1	Research Activity of Pharmacy 2 Exercise: Research Activity of Pharmacy 2 Applied Exercise: Research Activity of Pharmacy 2