



**ANDALAS
UNIVERSITY**

Prospectus of Undergraduate Programme of Pharmacy

Faculty of Pharmacy Andalas University

Faculty of Mathematics and Natural Sciences

2019





Welcome!

I'm pleased to introduce you to Undergraduate Programme of Pharmacy Andalas University! Whether you are current or prospective students, alumni of our programmes, parents, employee or simply just stopping by, you will find information on this prospectus

The Undergraduate Pharmacy Study Programme is well known for its accomplishments in basic and applied pharmaceutical research focusing in Pharmacology and Clinical Pharmacy, Natural Chemistry Product, Pharmaceutical and Analytical Pharmacy This is very much in line with our vision to become a leading Undergraduate Pharmacy Study Program nationally and internationally that produce alumni with tough competitiveness in the field of pharmacy in the year 2028

Our students at both the undergraduate and graduate level enjoy a broad range of opportunities that facilitate them to engage in state-of-the-art research activities under the expert supervision of our faculty. The research activities at this faculty are performed in collaborations with numerous world-class universities, national labs, government institutions and industries both home and abroad. Together with conducive academic atmosphere and excellent facilities, we offer our students a vibrant environment to prepare them for the scientifically and technologically advanced careers of tomorrow.

We hope that you will find information available on this website useful. Thank you for your interest on us. However, information on a prospectus can only go so far and the best way to gain an insight into life at Undergraduate Programme of Pharmacy to visit us and experience it for yourself. Feel free to contact us! We would be more than happy to talk to you, answer any of your questions and walk you through.

Warm regards,

**Prof. Dr. Fatma Sri Wahyuni, Apt
Dean Faculty of Pharmacy**





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Vision, Missions and Objectives

Vision

Become a leading Undergraduate Pharmacy Study Program nationally and internationally that produce alumni with tough competitiveness in the field of pharmacy in the year 2028

Missions

- **Organize quality and competent pharmacy education in the fields of science, technology, clinical and community pharmacy.**
- **Organize quality and continuous pharmaceutical research.**
- **Disseminate the research results to the community.**
- **Establish a network of productive and sustainable cooperation with national and international institutions.**

Objectives

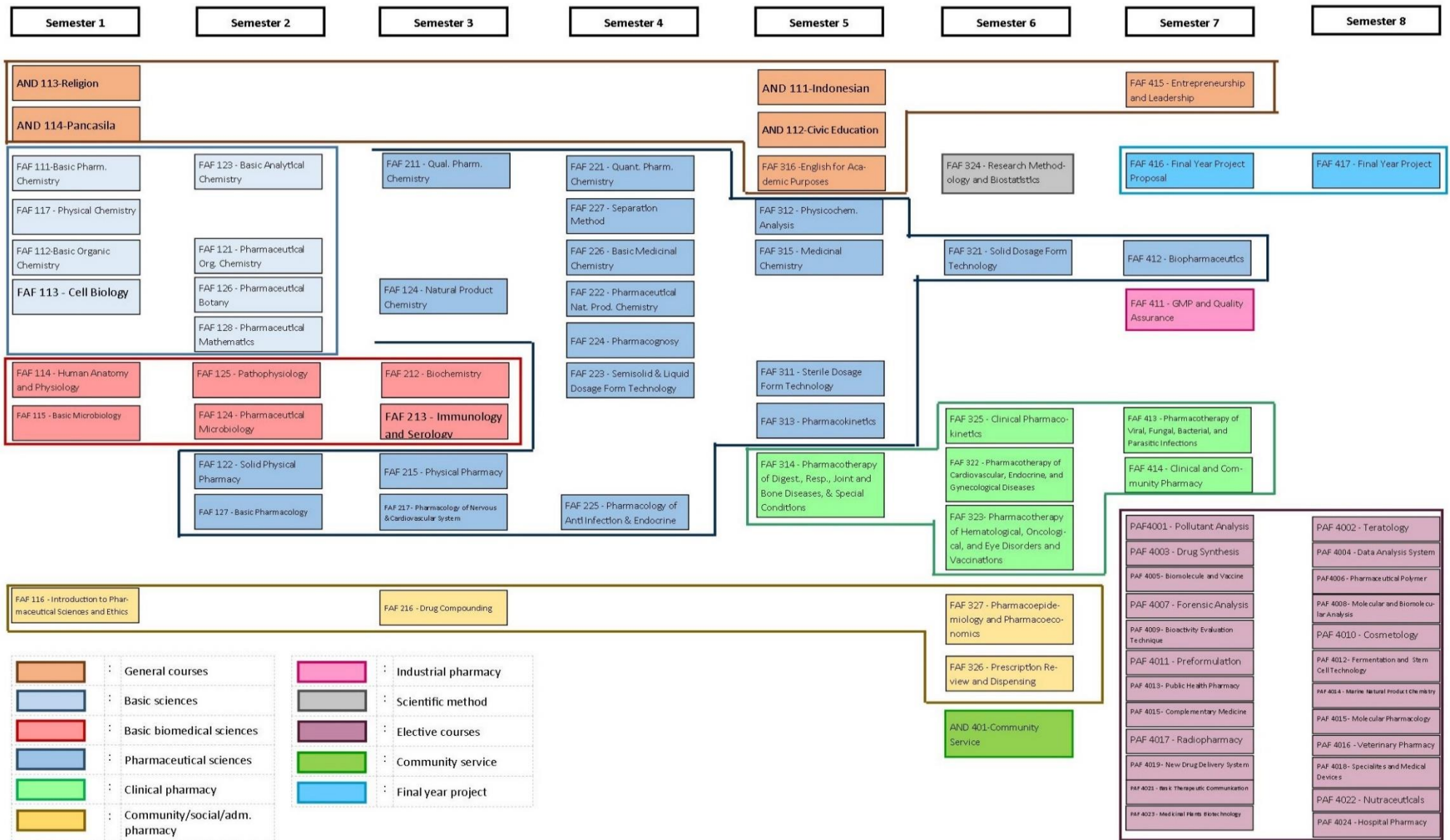
- **To produce pharmacy graduates with high integrity, virtuous, competent and professional in solving various problems in the field of pharmaceutical science/technology, clinical and community pharmacy and being able to compete in the era of globalization.**
- **Generating research outcomes in the pharmaceutical field that contribute to science and technology.**
- **Apply pharmaceutical research results in resolving community and health issues.**
- **Establish a cooperative relationship with various stakeholders, especially in the development of science and technology and its application to obtain financial (Revenue Generating Activity) and non-financial activities**

Programme Specification

Program Name	Undergraduate Pharmacy Study Program, Faculty Of Pharmacy, Andalas University
Year of establishment	1964
Address	Fakultas Farmasi, Universitas Andalas Kampus UNAND, Limau Manis, Padang 25163 Phone: 0751-71682 Fax : 0751-777057 Homepage: http://ffarmasi.unand.ac.id/ Email: dekan@phar.unand.ac.id
Accreditation level	The UPSP-UNAND is accredited "A" by LAM PTKes (2017 - 2022) as the decree of LAM-PTKes no 0596/LAM-PTKes/Akr/Sar/IX/2017 dated September 30 2017. Previously this program has been accredited "A" twice by BAN-PT in 2012 and 2007.
Mode/type of study	Full time/campus-based
Duration of study	4 years/8 semesters (maximum 14 semesters)
Minimum credit	144 credits (sks)
Degree Awarded	S.Farm(Sarjana Farmasi) / B. Pharm
Intake selection	<ul style="list-style-type: none"> National selection (SNMPTN, SBMPTN) Regional selection (SMMPTN)
Admission criteria	<ul style="list-style-type: none"> High school graduates (or equivalent) majoring in natural science Not color blinded Passed the SNMPTN/ SBMPTN/ SMMPTN selection
Programme Objectives	<p>To reach the vision and carry out the mission mentioned above, the study program objectives have been set for each mission as follows:</p> <ul style="list-style-type: none"> To produce pharmacy graduates with high integrity, virtuous, competent and professional in solving various problems in the field of pharmaceutical science/technology, clinical and community pharmacy and being able to compete in the era of globalization. Generating research outcomes in the pharmaceutical field that contribute to science and technology. Apply pharmaceutical research results in resolving community and health issues. Establish a cooperative relationship with various stakeholders, especially in the development of science and technology and its application to obtain financial (Revenue Generating Activity) and non-financial activities

<p>Programme Learning Outcomes</p>	<p>At the end of the study programme, students are</p> <ol style="list-style-type: none"> 1. Perform independent work and lifelong learning based on principles of responsibility and integrity to support intrapersonal development 2. Demonstrate teamwork both in academic and non-academic activities to develop interpersonal network 3. Construct original and valid scientific report based on current technologies 4. Explain the basic knowledge of pharmaceutical sciences including basic sciences and basic biomedical sciences. 5. Explain the interactions between characteristics of drug and human body systems to achieve rational therapy. 6. Analyze the quality and quantity of raw materials included natural and chemical pharmaceutical ingredients in laboratory scale. 7. Identify the natural origin materials as active pharmaceutical ingredients for development of new drug. 8. Demonstrate the preparation and quality control process of pharmaceutical dosage form in laboratory scale. 9. Implement the basic principles of therapeutic communication to patient and community. 10. Apply the concept of clinical and social aspects of drug to achieve a rational therapy. 11. Apply professional pharmaceutical practice in accordance with the values and principle of divinity, morality, ethic, discipline and law
<p>Teaching and learning methods</p>	<p>Lecture, Practice, Student-centered learning (SCL) approach includes Cooperative Learning, Small Group Discussion, , Problem-based learning, Case Study, Collaborative Learning, Discovery Learning and Simulation</p>
<p>Benchmark and reference</p>	<ol style="list-style-type: none"> 1. SN-DIKTI Indonesian Qualification Framework (IQF) 2. Academic Script of the Association of Indonesian Pharmacy Higher Education (APTFI)
<p>Job Opportunities</p>	<p>A large number of alumni continue their studies to the pharmacist profession programme, and work in the pharmaceutical Industries, Cosmetic Industries, Food Industries, Government Agencies such as the Ministry of Health, the Food and Drug Regulator, Hospital and Comunity, and Research Institutes as scientists</p>
<p>Year of last curriculum review</p>	<p>2019</p>

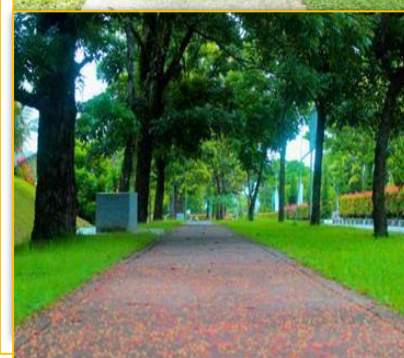
Course Structure



Course Distribution

Compulsory Courses

1 st Semester	Credit	2 nd Semester	Credit
Basic Pharmaceutical Chemistry	2	Pharmaceutical Organic Chemistry	2
Basic Pharmaceutical Chemistry Practice	1	Pharmaceutical Organic Chemistry Practice	1
Basic Organic Chemistry	2	Solids Pharmaceutical Physics	2
Cell Biology	2	Basic Analytical Chemistry	2
Human Anatomy and Physiology)	2	Basic Analytical Chemistry Practice	1
Human Anatomy and Physiology Practice	1	Pharmaceutical Microbiology	2
Basic Microbiology	2	Pharmaceutical Microbiology Practice	1
Introduction to Pharmaceutical Sciences and Ethics	2	Pathophysiology	2
Physical Chemistry	1	Pharmaceutical Botany	2
Pancasila	2	Pharmaceutical Botany Practice	1
Religion and Ethics	2	Basic Pharmacology	2
		Pharmaceutical Calculation	2
Total Credit	19	Total Credit	20
3 rd Semester	Credit	4 th Semester	Credit
Qualitative Pharmaceutical Chemistry	2	Quantitative Pharmaceutical Chemistry	2
Qualitative Pharmaceutical Chemistry Practice	1	Quantitative Pharmaceutical Chemistry Practice	1
Biochemistry	2	Pharmaceutical Natural Product Chemistry	2
Biochemistry Practice	1	Pharmaceutical Natural Product Chemistry Practice	1
Immunology and Serology	2	Liquid and Semisolid Dosage Forms	2
Immunology and Serology Practice	1	Liquid and Semisolid Dosage Forms Practice	1
Natural Product Chemistry	2	Pharmacognosy	2
Physical Pharmacy	2	Pharmacognosy Practice	1
Physical Pharmacy Practice	1	Pharmacology of Anti Infection and Endocrine	2
Compounding	2	Pharmacology of Anti Infection and Endocrine Practice	1
Compounding Practice	1	Basic Medicinal Chemistry	2
Pharmacology of the Nervous System and Cardiovascular	2	Separation Method	2
Total Credit	18	Total Credit	18



5 th Semester	Credit	6 th Semester	Credit
Sterile Dosage Forms	2	Solid Dosage Forms	2
Sterile Dosage Forms Practice	1	Solid Dosage Forms Practice	1
Physicochemical Analysis	2	Pharmacotherapy of Cardiovascular, Endocrine, and Gynecology Diseases	2
Physicochemical Analysis Practice	1	Pharmacotherapy of Cardiovascular, Endocrine, and Gynecology Diseases Practice	1
Pharmacokinetics	2	Pharmacotherapy of Hematological, Oncological, Eye Disorders, and Vaccination.	2
Pharmacokinetics Practice	1	Pharmacotherapy of Hematological, Oncological, Eye Disorders, and Vaccination Practice.	1
Pharmacotherapy of Gastrointestinal, Respiratory Tract, Bone and Joint diseases and Special Conditions	2	Research Methodology and Biostatistics	2
Pharmacotherapy of Gastrointestinal, Respiratory Tract, Bone and Joint diseases and Special Conditions Practice	1	Clinical Pharmacokinetics	2
Medicinal Chemistry	2	Prescription and Dispensing	2
English for Academic Purpose	2	Prescription and Dispensing Practice	1
Bahasa Indonesia (Academic Writing)	3	Pharmacoepidemiology and Pharmacoecconomy	2
Civic education	3		
Total Credit	22	Total Credit	18



7 th Semester	Credit	8 th Semester	Credit
Community Service	4	Final Year Project	3
Quality Assurance & Good Manufacturing Practice (GMP)	2	Elective IV	2
Biopharmaceutics	2	Elective V	2
Pharmacotherapy of Viral, Bacterial, Fungal, and Parasitic Infection	2	Final Year Project	3
Pharmacotherapy of Viral, Bacterial, Fungal, and Parasitic Infection Practice	1		
Clinical and Community Pharmacy	2		
Entrepreneurship and Leadership	2		
Final Year Project Proposal	1		
Elective I	2		
Elective II	2		
Elective III	2		
Total Credit	22	Total Credit	14



Elective Courses



Elective Courses			
Odd Semester	Credit	Even Semester	Credit
Pollutant Analysis	2	Teratology	2
Drug Synthesis	2	Data Analysis System	2
Biomolecule and Vaccine	2	Pharmaceutical Polymer	2
Forensic Analysis	2	Molecular and Biomolecular Analysis	2
Bioactivity Evaluation Technique	2	Cosmetology	2
Pre-formulation	2	Fermentation and stem cell technology	2
Public health pharmacy	2	Natural Product Marine Chemistry	2
Complementary Medicine	2	Molecular pharmacology	2
Radio pharmacy	2	Veterinary pharmacy	2
New Drug Delivery System	2	Specialists and medical devices	2
Basic Therapeutic Communication	2	Nutraceuticals	2
Natural Medicinal Biotechnology	2	Hospital Pharmacy	2



Skills Matrix

A. Compulsory Courses

		Courses		ELO of UPSP												
		Code	Course Name	Credits	1	2	3	4	5	6	7	8	9	10	11	
Year 1	Semester 1	FAF 111	Basic Pharmaceutical Chemistry	2	A		B							2	2	
		FAFP 111	Basic Pharmaceutical Chemistry Practice	1	A		B							1	1	
		FAF 112	Basic Organic Chemistry	2	A		B						1	2		
		FAF 113	Cell Biology	2	A	B							1	2	1	
		FAF 114	Human Anatomy and Physiology	2	A	B						C		1	1	
		FAFP 114	Human Anatomy and Physiology Practice	1	A	B						C		1	1	
		FAF 115	Basic Microbiology	2	A								1	2	1	
		FAF 116	Introduction to Pharmaceutical Sciences and Ethics	2	A								B	1	1	
		FAF 117	Physical Chemistry	1	A										1	
		AND 113	Religion and Ethics	2									A		2	
		AND114	Pancasila	2									A		2	
		Semester 2	FAF 121	Pharmaceutical Organic Chemistry	2	A		B							1	
	FAFP 121		Pharmaceutical Organic Chemistry Practice	1	A		B								1	1
	FAF 122		Solids Pharmaceutical Physics	2	A					B				1	1	
	FAF 123		Basic Analytical Chemistry	2	A		A							1	1	1
	FAFP 123		Basic Analytical Chemistry Practice	1	A		A								1	1
	FAF 124		Pharmaceutical Microbiology	2	A		A			B				1	2	1
	FAFP 124		Pharmaceutical Microbiology Practice	1	A		A			B					1	1
	FAF 125		Pathophysiology	2	A	B							C		1	
	FAF 126		Pharmaceutical Botany	2	A				B					1	1	2
	FAFP 126		Pharmaceutical Botany Practice	1	A				B						1	1
	FAF 127		Basic Pharmacology	2	A	A						C			2	
	FAF 128		Pharmaceutical Mathematics	2	A					C				1	1	

Year 2	Semester 3	Courses		ELO of UPSP											
		Code	Course Name	Credits	1	2	3	4	5	6	7	8	9	10	11
		FAF 211	Qualitative Pharmaceutical Chemistry	2			A		B					1	1
FAFP 211	Qualitative Pharmaceutical Chemistry Practice	1			A		B						1	1	
FAF 212	Biochemistry	2	A	B									1	1	
FAFP 212	Biochemistry Practice	1	A	B									1	1	
FAF 213	Immunology and Serology	2	A	B									1	1	
FAFP 213	Immunology and Serology Practice	1	A	B									1	1	
FAF 214	Natural Product Chemistry	2				A						1	1		
FAF 215	Physical Pharmacy	2	A		B		B					1	1	1	
FAFP 215	Physical Pharmacy Practice	1	A		B		B						1	1	
FAF 216	Compounding	2					A				B	1			
FAFP 216	Compounding Practice	1					A				B	1		1	
FAF 217	Pharmacology of the Nervous System and Cardiovascular	2		A							A	B		1	1
FAF 221	Quantitative Pharmaceutical Chemistry	2			A		B						1	1	
FAFP 221	Quantitative Pharmaceutical Chemistry Practice	1			A		B					1	1	1	
FAF 222	Pharmaceutical Natural Product Chemistry	2			A	A						1	1	2	
FAFP 222	Pharmaceutical Natural Product Chemistry Practice	1			A	A							1	1	
FAF 223	Liquid and Semisolid Dosage Forms	2					A				B	1	1		
FAFP 223	Liquid and Semisolid Dosage Forms Practice	1					A				B		1	1	
FAF 224	Pharmacognosy	2				A	B					1	1		
FAFP 224	Pharmacognosy Practice	1				A	B						1	1	
FAF 225	Pharmacology of Anti Infection and Endocrine	2		A							A	B		2	
FAFP 225	Pharmacology of Anti Infection and Endocrine Practice	1		A							A	B		1	1
FAF 226	Basic Medicinal Chemistry	2		A							B		2	2	
FAF 227	Separation Method	2			A	A	B							1	

	Courses	ELO of UPSP															
		Code	Course Name	Credits	1	2	3	4	5	6	7	8	9	10	11		
Year 3	Semester 5	FAF 311	Sterile Dosage Forms	2					A			B		1			
		FAFP 311	Sterile Dosage Forms Practice	1					A			B		1	1		
		FAF 312	Physicochemical Analysis	2			A	A	B					1	2	1	
		FAFP 312	Physicochemical Analysis Practice	1			A	B	B						1	1	
		FAF 313	Pharmacokinetics	2		A						B	B	1	1	1	
		FAFP 313	Pharmacokinetics Practice	1		A						B	B		1	1	
		FAF 314	Pharmacotherapy of Gastrointestinal, Respiratory Tract, Bone and Joint diseases and Special Conditions	2		B					A	A	A			1	1
		FAFP 314	Pharmacotherapy of Gastrointestinal, Respiratory Tract, Bone and Joint diseases and Special Conditions Practice	1		B					A	A	A			1	1
		FAF 315	Medicinal Chemistry	2		A						A				2	
		FAF 316	English for Academic Purpose	2											1	1	
		AND 111	Bahasa Indonesia (Academic Writing)	3												2	1
		AND 112	Civic education	3									A			2	
	Semester 6	FAF 321	Solid Dosage Forms	2					A			B			1		
		FAFP 321	Solid Dosage Forms Practice	1					A			B			1	1	
		FAF 322	Pharmacotherapy of Cardiovascular, Endocrine, and Gynecology Diseases	2		B					A	A	A			1	1
		FAFP 322	Pharmacotherapy of Cardiovascular, Endocrine, and Gynecology Diseases Practice	1		B					A	A	A			1	1
		FAF 323	Pharmacotherapy of Hematological, Oncological, Eye Disorders, and Vaccination.	2		B					A	A	A			1	1
		FAFP 323	Pharmacotherapy of Hematological, Oncological, Eye Disorders, and Vaccination Practice.	1		B					A	A	A			1	1
		FAF 324	Research Methodology and Biostatistics	2	A								B			1	1
		FAF 325	Clinical Pharmacokinetics	2		A						A	A	B	1	1	1
		FAF 326	Prescription and Dispensing	2								A	A	A		1	
		FAFP 326	Prescription and Dispensing Practice	1								A	A	A		1	1
FAF 327	Pharmacoepidemiology and Pharmacoecconomy	2									A	B		2			

		Courses		ELO of UPSP												
		Code	Course Name	Credits	1	2	3	4	5	6	7	8	9	10	11	
Year 4	Semester 7	AND 401	Community Service	4						A		A	1	1	1	
		FAF 411	Quality Assurance & Good Manufacturing Practice (GMP)	2					B			A	1	1		
		FAF412	Biopharmaceutics	2		A					B	B	1	1	1	
		FAF 413	Pharmacotherapy of Viral, Bacterial, Fungal, and Parasitic Infection	2		B					A	A	A		1	1
		FAFP 413	Pharmacotherapy of Viral, Bacterial, Fungal, and Parasitic Infection Practice	1		B					A	A	A		1	1
		FAF 414	Clinical and Community Pharmacy	2							B	A	A		2	
		FAF 415	Entrepreneurship and Leadership	2									A		1	1
		FAF 416	Final Year Project Proposal	1									A	1		1
		PAF ***	Elective I	2												
		PAF ***	Elective II	2												
	PAF ***	Elective III	2													
		Semester 8	FAF 421	Final Year Project	3								A	1		1
			PAF ***	Elective IV	2											
	PAF ***		Elective V	2												

For specific ELO (1-8)

- A Major contribution
- B Moderate contribution
- C Minor contribution

For generic ELO (9-11)

- 1 Substantial with assessment
- 2 Non-substantial with assessment

B. Elective Course

Courses		ELO of UPSP											
Code	Course Name	Credits	1	2	3	4	5	6	7	8	9	10	11
Elective courses													
PAF 4001	Pollutant Analysis	2	A								1		1
PAF 4003	Drug Synthesis	2				A							
PAF 4005	Biomolecule and Vaccine	2		A	A						1		
PAF 4007	Forensic Analysis	2				A					2	2	
PAF 4009	Bioactivity Evaluation Technique	2		A								1	1
PAF 4011	Pre-formulation	2					A				1	1	1
PAF 4013	Public health pharmacy	2							A	A		2	
PAF 4015	Complementary Medicine	2				A							
PAF 4017	Radio pharmacy	2					A					1	
PAF 4019	New Drug Delivery System	2					A					2	
PAF 4021	Basic Therapeutic Communication	2							A	A		1	
PAF 4023	Natural Medicinal Biotechnology	2				A							
PAF 4002	Teratology	2		A							1		1
PAF 4004	Data Analysis System	2									1		
PAF 4006	Pharmaceutical Polymer	2					A						
PAF 4008	Molecular and Biomolecular Analysis	2			A						1		1
PAF 4010	Cosmetology	2		B			A			A	1	2	
PAF 4012	Fermentation and stem cell technology	2				A							
PAF 4014	Natural Product Marine Chemistry	2				A							
PAF 4016	Molecular pharmacology	2		A								1	
PAF 4018	Veterinary pharmacy	2					A				1	1	
PAF 4020	Specialists and medical devices	2		B					A	A		1	
PAF 4022	Nutraceuticals	2			A							1	
PAF 4024	Hospital Pharmacy	2								A		2	

Course Specification

Compulsory Courses

Basic Pharmaceutical Chemistry

Basic Pharmaceutical Chemistry provides lessons on the definition, scope, benefit of Basic Chemistry for pharmacists, chemistry and its role as the part of natural sciences, periodic table, atom, molecules and ions, colloids, chemical equilibrium, matter: gas, liquid, solid; intermolecular force, chemical bonds, acids and bases, physical properties of solutions, mixtures and solutions, chemical reaction in aqueous solutions, redox reactions, and the principles of electrochemistry

Basic Pharmaceutical Chemistry

Basic Organic Chemistry consists of the basics of organic chemistry, bonds and molecular structure, physical and chemical properties of organic compounds, stereochemistry and conformations, also basic reactions of organic compounds.

Cell Biology

Cell Biology is designed to help students understand the development history on cell theory, cell organizations, and proteins as a macromolecules of cells, biological process including anabolism and catabolism, type of signaling, intracellular receptors, cell surface receptors, initiation of intracellular signaling and signal amplifications, transport systems (active and passive), basics of gene expression, structure and function of plasmid in genetical engineering process, and principles of recombinant products engineering in pharmaceutical field.

Human Anatomy and Physiology

Human Anatomy and Physiology consists of structures and normal functions in body systems, such as nervous systems, respiratory system, circulation system, digestive system, excretion system, locomotor system, hematopoietic system, skin system, sensing system, endocrinal glands, mechanism of function controlling of those systems

Basic Microbiology

Basic Microbiology consists of history of microbiology and its relationship with pharmacy, phylogenetic study, classification and identification of microorganism, biological characteristics of microorganism (bacteria, fungi, virus, and protozoa), growth and microorganism growth, including antibiotics and antiseptics concepts, mechanism of action, test of activity and resistance of antimicrobial compounds, basics of infectious disease, mechanism of microorganism pathogenicity.

Introduction to Pharmaceutical Science and Ethics

This course consists of introduction, pharmacist as a profession, pharmaceutical higher education in Indonesia, pharmaceutical services and competencies, pharmacy and its development, drugs and drug development, drug pharmacokinetic, pharmaceutical dosage form and its design, bioavailability and bioequivalence and drug registration, drug pricing structure and drug distribution, industrial pharmacy, hospital pharmacy, governmental pharmacy, and traditional medicines.

Physical Chemistry

This course explains basic concepts of Physical Chemistry, e.g. application of scales, measurement tools and units used for preparing pharmaceutical dosage forms and calculating drug doses based on patients' body weight, knowledge on matters, ideal gases and real gases which are related to pharmaceutical dosage forms, knowledge on thermodynamics and thermodynamic properties which are utilized in designing pharmaceutical dosage form

Religion and Ethics

This course is a national compulsory course. The central explanation is more elaborated using tawheed approach (acknowledgement on the Oneness of God and incorporating values of tawheed in every aspects of life. The course is started by knowing the universe, humans as the khalifah in the Earth, religions in the world, why choosing Islam as religion, human need on religion, relationship between 'aqidah and sharia, concepts of justice and law supremacy in Islam, rights and duties, etc. This course will be closed by description of akhlaq values as the result of integration between tawheed values and all human activities as the servant of Allah..

Pancasila

This course consists of introduction, Pancasila in discourse, history of Indonesian nation, Pancasila as the foundation of the country, Pancasila as the ideology, Pancasila symbols, Pancasila as the philosophic system, Pancasila as the ethic system, and Implementation of Pancasila.

Pharmaceutical Organic Chemistry

This course provides lessons on functional group organic chemistry which consists of physical and chemical properties of organic compounds including methyl derived organic compounds, organic compounds with electrophilic carbon atoms (alcohol, alkyl halides, ether and epoxide, aldehyde and ketone, carboxylic acid and its derivatives), organic compound with nucleophilic carbon atoms (alkane, alkene, alkyne and aromatic compounds), aliphatic-aromatic compounds: amine, amino acid, peptides, proteins, lipids, carbohydrate, and nucleic acid.

Solid Physical Pharmacy

This course provides lessons on characteristics of active pharmaceutical solid compounds, characterization of solid properties, effect of manufacturing process on solid properties of active pharmaceutical compounds, polymorphism phenomenon, basic properties of particles: density, porosity, particle size distribution, specific surface area of powder, flow properties, wettability, gas-solid adsorption, and water adsorbance of powders.

Basic Analytical Chemistry

This course consists of introduction, the importance of drug qualitative analysis, introduction on drug analysis, initial steps of drug identification, initial reactions, identification of (zat asal), identification of functional groups, identification of anions and cations of inorganic drug compounds, identification of organic drug compounds, introduction to balance and measuring equipments, gravimetry and volumetric analysis including acid-base titration, argentometry, complexometry, iodimetry and iodometry, permanganometry..

Pharmaceutical Microbiology

Pharmaceutical Microbiology consists of history of microbiology and its relationship with pharmacy, phylogenetic study, classification and identification of microorganism, biological characteristics of microorganism (bacteria, fungi, virus, and protozoa), growth and microorganism growth, including antibiotics and antisepsis concepts, mechanism of action, test of activity and resistance of antimicrobial compounds, basics of infectious disease, mechanism of microorganism pathogenicity..

Pathophysiology

This course supports students to understand common terminology in pathophysiology, epidemiology, etiology and risk factors, classification, pathophysiology, clinical manifestations, complication and analysis of diagnosis on disease or disorders on cellular physiology, neoplasia, central nervous system, psychiatry, cardiovascular, digestive system, respiratory system, excretion system, joint, hormone, and skin. This course also provides basis to pharmacology and pharmacotherapy, as well as medicinal chemistry.

Pharmaceutical Botany

This course consists of classification and grouping of high order plants, plant morphology, character and characteristics of plants, vegetative and generative organ of plants, anatomical structures and physiological process that occur in plant cells, development of plant (from embryo to mature), plant cell structure, organelles and ergastic compounds, plant tissue classification, plant metabolism and the role of enzymes, photosynthesis, photolysis reaction, CO₂ fixation, respiration, glycolysis, Krebs' cycle, natural product chemical compounds.

Basic Pharmacology

This course provides lessons on pharmacology in general including general mechanism of action of drug, various pharmaceutical dosage form, route of administrations, pharmacokinetics. Several specific drugs will be studied on their physiological actions, therapeutic effect and toxicity and interaction and incompatibility with other drugs.

Pharmaceutical Mathematics

In general, this course consists of introduction, the importance of mathematics in pharmaceutical science, basic concepts of mathematics including ratio, proportion, and percentage, exponential and logarithm, differential and integral and linear equation and the implementation in pharmaceutical field such as determining drug concentration in a dosage form, calculation of drug shelf-life, degradation rate, elimination and drug dissolution and measurement of pharmacokinetic parameters using calculator and computer programs, and basic statistics on data analysis.

Qualitative Pharmaceutical Chemistry

This course provides drug identification of alkaloids, sulfonamides, barbitals, hormones, antibiotics, antihistamines, vitamins, and identification of drugs in biological samples.;

Biochemistry

This course provides lessons on characteristics of biomolecules (lipids, carbohydrates, amino acids, proteins, nucleic acids, DNA and RNA) and their functions in life. Basic concepts of bioenergetics, metabolism of carbohydrates, lipids, proteins, and diseases due to metabolism disorders, role of vitamins as co-factor, enzyme function and properties.

Immunology and Serology

This course consists of introduction, immunogen and epitope, lymphocyte and lymphoid tissue, immunoglobulin, antigen-antibody reaction, complements, cytokines, hypersensitivity, HLA, immunologic tolerance, autoimmune, immunology of infections and cancer, organ transplantation, immunization, immunomodulation and immunodiagnosis

Natural Product Chemistry

In this course, students will learn basic concepts of Natural Product Chemistry, including biosynthesis of primary metabolite compounds and secondary metabolite, phytochemical screening and phytopharmacology, phenolic, flavonoids, coumarine, quinones, lignin, and tannin.

Physical Pharmacy

This course consists of solid properties of pharmaceutical active ingredients, characterization of solid properties, impact of manufacturing process on solid properties of active pharmaceutical ingredients, polymorphism, basic properties of particles: density, flowing properties, wettability, gas-solid properties, and water adsorbance of powders.

Compounding

Basics of drugs, prescriptions, prescription screening, drug label, drug storage in pharmacy based on its classification, drug dosage, drug balance, Latin terminology and the abbreviations in prescription, powders, ointment, and pills.

Pharmacology of Central Nervous Systems, Autonomous Nervous Systems and Cardiovascular

Drugs affecting parasympathetic and sympathetic nervous system, central nervous system, cardiovascular and digestive system (indication, mechanism of action, dosage, adverse effects, toxicity, contraindication, and resistance)

Quantitative Pharmaceutical Chemistry

This course consists of quantitative analysis for determining the concentration of pharmaceutical compounds based on physical, chemical, physicochemical properties of the compound using gravimetry, volumetry, chromatography (gas chromatography, high performance liquid chromatography, densitometry thin layer chromatography), and spectrophotometry (UV Visible, Atomic Absorbance Spectrophotometry).

Pharmaceutical Natural Product Chemistry

In this course, students learn various structure, biosynthesis pathway, and physicochemical properties of polyketide, terpenoid/steroid, and alkaloids.

Liquid and Semisolid Dosage Technology

This course consists of liquid and semisolid dosage form design including principles of dosage form formulation, relationship of administration route and dosage form and steps of developing dosage form; pre-formulation, excipients, equipment systems in dosage form preparation; formulation; preparation; and dosage form evaluation, particularly liquid and semisolid dosage form

Pharmacognosy

In this course, student learns natural source of drug (plants, animals, mineral), natural source in medication; crude drugs; extracts and pure compounds; crude drugs production; standardization and quality control of crude drugs and extract; good manufacturing practice for traditional medicine.

Pharmacology of Anti Infection and Endocrine

This course explains pathophysiology and pharmacotherapy of several infectious disease, endocrine disorders, adrenal gland disorders, pituitary gland disorders, and pharmacotherapy of hormone as contraception.

Basic Medicinal Chemistry

In this course, students learn chemical structure, normal body condition and the changes due to imbalances of neurotransmitters, hormone, enzymes, and other endogenous compounds, also due to viral, bacterial, and fungal invasion (disease state); interaction of drug/exogenous compounds with receptors and brings the body to normal physiologic condition;; source of drugs/agents, analysis, SAR and QSAR, pharmacokinetic and pharmacodynamic aspects.

Separation Method

This course consists of various separation methods in terms of theories, concepts, instrumentation and application to obtain pure compound (solute) or qualitative and quantitative analytes from mixtures of biological matrices, natural matrices, and pharmaceutical dosage form matrices.

Sterile Dosage Form Technology

This course consists of sterilization technique of sterile dosage forms, basic concept of sterilization test and process, design of sterile dosage form, principles of sterile formulation, pre-formulation, excipients, equipment systems on dosage form preparation, formulation, preparation, evaluation and validation of sterile dosage form.

Physicochemical Analysis

This course give understanding on several spectroscopic techniques in physicochemical analysis of drug compounds in pharmaceutical dosage form. Definition, terminology, basic concepts, operational principle, instrumentation, and the use of each spectroscopic technique for drug analysis (both qualitatively and quantitatively).

Pharmacokinetics

This course consists of drug biotransformation process in the body and pharmacokinetic process of drug (absorption, distribution, metabolism, and excretion)..

Pharmacotherapy of Gastrointestinal, Respiratory Tract, Bone and Joint Diseases and Special Conditions

In this course students learn about nuclear properties, nuclear models, nuclear force, radioactivity, Alpha decay, Beta decay, Fission and Fusion.

Medicinal Chemistry

This course explains structure and activity relationship of various drug pharmacodynamic groups and activity, stability, synthesis and analysis, outline, partial structure, conformation and constitution of drug which affect drug interaction with receptor and analysis method which can be used.

English for Academic Purposes

After taking the EAP, students are able to communicate in English, read textbooks and express their thoughts in English. Students are exposed to UNAND classroom culture and take part in campus activities on a regular basis throughout the EAP program.

Bahasa Indonesia (Academic Writing)

In this course, there are topics related to linguistic knowledge which supports good and correct use of Indonesian language skill. The topics are variation of language, logic of language, Enhanced Indonesian Spelling System, diction, sentences, paragraph, and academic writing.

Civic education

This course is an orientation for students to solidify their insight and spirit of nationality, patriotism, democracy, law awareness, respect on diversity and participation in building nation based on Pancasila. This course consists of nationality, democracy, law, multicultural, and civic education for students to support the statemen who are aware of obligation and rights, smart, skilled, and have character to be reliable in building the nation

Solid Dosage Form Technology

This course consists of solid dosage form design, tablet formulation, operational unit in manufacturing tablets, granule and tablet evaluation, types of tablets, dissolution of solid dosage form, and modified-release dosage form.

Pharmacotherapy of Cardiovascular, Endocrine and Gynecology

This course explains pathophysiology and pharmacotherapy of cardiovascular disorders, renal disorders, endocrine disorders, adrenal endocrine disorders, pituitary endocrine disorders, gynecological disease, hormone pharmacotherapy as contraception.

Pharmacotherapy of Hematological, Oncological Eye Disorders, and Vaccination

In general, this course consists of rational treatment in various diseases of immune system and hematopoietic system, such as autoimmune diseases, allergy, vaccinations, hematopoietic, anemia, blood coagulation disorders. Infectious diseases including viral infection, systemic fungal infection, mycosis, typhoid infection, and TB. Cancer diseases including breast cancer, cervical cancer, lung cancer, colon cancer, prostate cancer, lymphoma Hodgkin and lymphoma non-Hodgkin, acute and chronic leukemia

Research Methodology and Biostatistics

This course consists of theory and technique which can be applied to conduct research. This course emphasizes on experimental research, sampling techniques, data analysis, conclusion, and moral values related to anti-plagiarism.

Clinical Pharmacokinetics

This course consists of application of pharmacokinetic principles on patients, particularly for narrow therapeutic index drugs, including determining dose regimens, dose adjustment on patients based on special conditions (renal failure, hepatic failure, cardiac failure), dose adjustment for special populations (infants, children, geriatrics, obese, and dialysis), drug dose adjustment from intravenous to per oral administration and vice versa, clinical pharmacokinetic aspects in aminoglycosides, cardiovascular drugs (digoxin, lidocaine, procainamide, quinidine), anticonvulsants (phenytoin, carbamazepine, phenobarbital, ethosuximide), cyclosporine and theophylline.

Physicochemical Analysis

This course gives understanding on several spectroscopic techniques in physicochemical analysis of drug compounds in pharmaceutical dosage form. Definition, terminology, basic concepts, operational principle, instrumentation, and the use of each spectroscopic technique for drug analysis (both qualitatively and quantitatively).

Pharmacokinetics

This course consists of drug biotransformation process in the body and pharmacokinetic process of drug (absorption, distribution, metabolism, and excretion)..

Prescription and Dispensing

This course consists of prescription screening and dispensing of Cardiovascular, Hypertension, Diabetes Mellitus and Endocrine, Pediatric, Gastrointestinal, Obstetrics and Gynecology, Infectious Disease, Skin Conditions, Nervous System, and Psychiatric. This is the continuation of Compounding and Pharmacotherapy courses.

Pharmacoepidemiology and Pharmacoeconomics

This course explains concepts of pharmacoepidemiology and pharmacoeconomics, history and development, functions and implementation in pharmaceutical practice.

Community Service Program

This 4-credits course provides opportunity for students to participate in an interdisciplinary community service. Students will be placed in villages/sub-districts and implement various community service programs under the supervision of appointed lecturers.

Quality Assurance and GMP

This course consists of GMP in manufacturing pharmaceutical dosage forms including 12 aspects of GMP; general aspects of GMP, production and quality control, stability and dosage form analysis program, self inspection and quality audit, documentation and qualification and quality assurance.

Biopharmaceutics

This course is an orientation for students to solidify their insight and spirit of nationality, patriotism, democracy, law awareness, respect on diversity and participation in building nation based on Pancasila. This course consists of nationality, democracy, law, multicultural, and civic education for students to support the statement who are aware of obligation and rights, smart, skilled, and have character to be reliable in building the nation

Pharmacotherapy of Viral, Bacterial, Fungal, and Parasitic Infection

In this course, students learn about definition, epidemiology, etiology, reproductive system, life cycle and rational therapy in various cases of diseases caused by parasites, including helminthiasis, protozoan infection, and zoonosis

Clinical and Community Pharmacy

This course consists of basic concepts of clinical pharmacy, history and development of clinical pharmacy, and its implementation in pharmaceutical care in pharmacy and hospital..

Entrepreneurship and Leadership

This course consists of topics on feasibility studies, business planning and its implementation in pharmaceutical field.

Final Year Project Proposal

This is an initial part of students' final project which provides opportunity for students to write their final year project proposal supervised by two research supervisors. At the end of the course, students will present their proposals in a proposal seminar, in front of a lecturers' panel.

Final Year Project

This is a continuation of final year project proposal, in which students will conduct their research, write the thesis, and present the thesis in a research result seminar. After submitting the revised thesis and completing all required courses, the student will take an oral comprehensive examination, in which the students will answer questions posed by an examiners' panel.

Elective Courses**Pollutant Analysis**

This course consists of environmental pollutions types. After completing this course, students are expected to be able to identify, analyze, and monitor environmental pollutions.

Drug Synthesis

This course explains drug synthesis methods, including chemical synthesis or semi-synthesis using biotechnological procedures

Biomolecules and Vaccines

This course explains basic knowledge of biomolecules (carbohydrate, protein, nucleic acid and lipid) and vaccines; classifications and mechanism of vaccines, and application of vaccines.

Forensic Analysis

This course explains visum et repertum, forensic identification method, thanatology, methods of identifications, general toxicology, specific toxicology, forensic assessment and toxic identification.

Bioactivity Evaluation Techniques

This course consists of concepts of bioactivity evaluation techniques, techniques in evaluating bioactivity (in vivo, in vitro, in ovo, or in situ) and how to interpret data of various bioactivity evaluations; animal surgery techniques, operating several experiment tools in bioactivity evaluation, also toxicity evaluation techniques (acute, subacute, sub-chronic, chronic, specific toxicity i.e. mutagen, teratogen, carcinogen).

Preformulation

This course consists of physicochemical properties and crystallographic properties which is essential in formulation process. After completing this course, students are expected to explain basic concepts of substance investigation which are needed to formulate a pharmaceutical preparation.

Public Health Pharmacy

This course explains basic concepts of public health pharmacy, history of development, its development prospect in Indonesia in the future and the implementation of pharmaceutical sciences in increasing public health degree viewed from social and community aspects

Complementary Medicine

During this course, students will learn about Complementary and Alternative Medicine (CAM) system in several countries including Indonesia. Students will get explanation on Indonesian traditional medicines (jamu, standardized herbal medicines, phytopharmaca), and regulation of traditional drug development.

Radiopharmacy

This course explains introduction, atom, radioactivity, radioactive decay, radionuclide production, radioisotope generator, formulation of radiopharmaceutical preparation, labelled compound, radiopharmaceutical kits, evaluation of radiopharmaceutical dosage form and radiation protection, radiation unit and application of radiopharmaceutical dosage form in organ systems

New Drug Delivery System

This course explains drug delivery system, classifications of NDDS, Delivery through polymer membrane, modulation activity biochemically, controlled reverse effect, delivery of drug to specific target, delivery of drug through oral route and NDDS in transdermal route, aerosol as drug delivery system, delivery of drug to lung (MDIs and DPIs), drug delivery system to nasal and colon

Community Service Program

This 4-credits course provides opportunity for students to participate in an interdisciplinary community service. Students will be placed in villages/sub-districts and implement various community service programs under the supervision of appointed lecturers.

Quality Assurance and GMP

This course consists of GMP in manufacturing pharmaceutical dosage forms including 12 aspects of GMP; general aspects of GMP, production and quality control, stability and dosage form analysis program, self inspection and quality audit, documentation and qualification and quality assurance.

Basic Therapeutic Communication

This course explains definition of psychology in pharmaceutical care, communication (definition, purpose and advantage of communication), communication ethics, counselling, drug information service and drug information system.

Natural Medicinal Biotechnology**Teratology**

This course explains in vivo test to assess teratogenicity of chemical compounds to determine its teratogenicity in human.

Data Analysis System

This course consists of basics of data analysis using SPSS software. SPSS helps in selecting methods, design, and data analysis e.g. parametric and non-parametric statistics.

Pharmaceutical Polymers

This course contains subjects on the basic concepts of pharmaceutical polymers: definitions, classifications, and characteristics and applications of pharmaceutical polymers in conventional dosage forms and controlled drug delivery.

Molecular and Biomolecular Analysis**Cosmetology**

This course explains classification of cosmetics, purpose and effects of cosmetics, evaluation of cosmetics, cosmetics preparations based on their purposes, traditional cosmetics, safety of cosmetics, and legislation of cosmetics.

Fermentation and Stem Cell Technology

This course explains development of biotechnology science and its application in pharmacy, including: definition and development of biotechnology, gene heredity and DNA, gene cloning, basic principles of metabolite biosynthesis by microorganism, biosynthesis of antibiotics, biosynthesis of biopolymers, extracellular enzyme production, application of PCR for bacterial identification, production of vaccines, monoclonal antibody, gene mutation, Ames method, mutagenicity test and bacterial resistance test.

Marine Natural Product Chemistry

This course explains basic concepts of Marine Natural Product Chemistry which includes biosynthesis of secondary metabolite compounds from marine, as well as classification of natural compounds which have interesting bioactivity and have potential as drug sources and nutraceuticals.

Molecular Pharmacology

The scope of molecular pharmacology is gene regulation and protein expression in physiologic and pathologic conditions, drug mechanism of action in cellular and molecular level. Drug action target including ion channel, transporter protein, and receptors..

Veterinary Pharmacy

In general, veterinary pharmacy consist of introduction, relationship between pharmacy in veterinary, pharmacokinetics pattern in animals body, drug pharmacokinetics in health and sick animals, characteristics of drug dosage form related to pharmacokinetic and pharmacodynamic properties and animal pathophysiology, inter- and intraspecies variability, BABE, drug incompatibility and interaction, drug dosage form, formulation and evaluation of liquid, semisolid, and solid dosage form, veterinary drug dosage form development, registration and controlling of veterinary dosage form.

Specialist and Medical Devices

This course explains development of biotechnology science and its application in pharmacy, including: definition and development of biotechnology, gene heredity and DNA, gene cloning, basic principles of metabolite biosynthesis by microorganism, biosynthesis of antibiotics, biosynthesis of biopolymers, extracellular enzyme production, application of PCR for bacterial identification, production of vaccines, monoclonal antibody, gene mutation, Ames method, mutagenicity test and bacterial resistance test

Cosmetology

This course explains classification of cosmetics, purpose and effects of cosmetics, evaluation of cosmetics, cosmetics preparations based on their purposes, traditional cosmetics, safety of cosmetics, and legislation of cosmetics.

Fermentation and Stem Cell Technology

This course explains introduction and rational use of over the counter medicines, and pharmacy compulsory drugs, as well as introduction and use of medical devices (reusable or disposable).

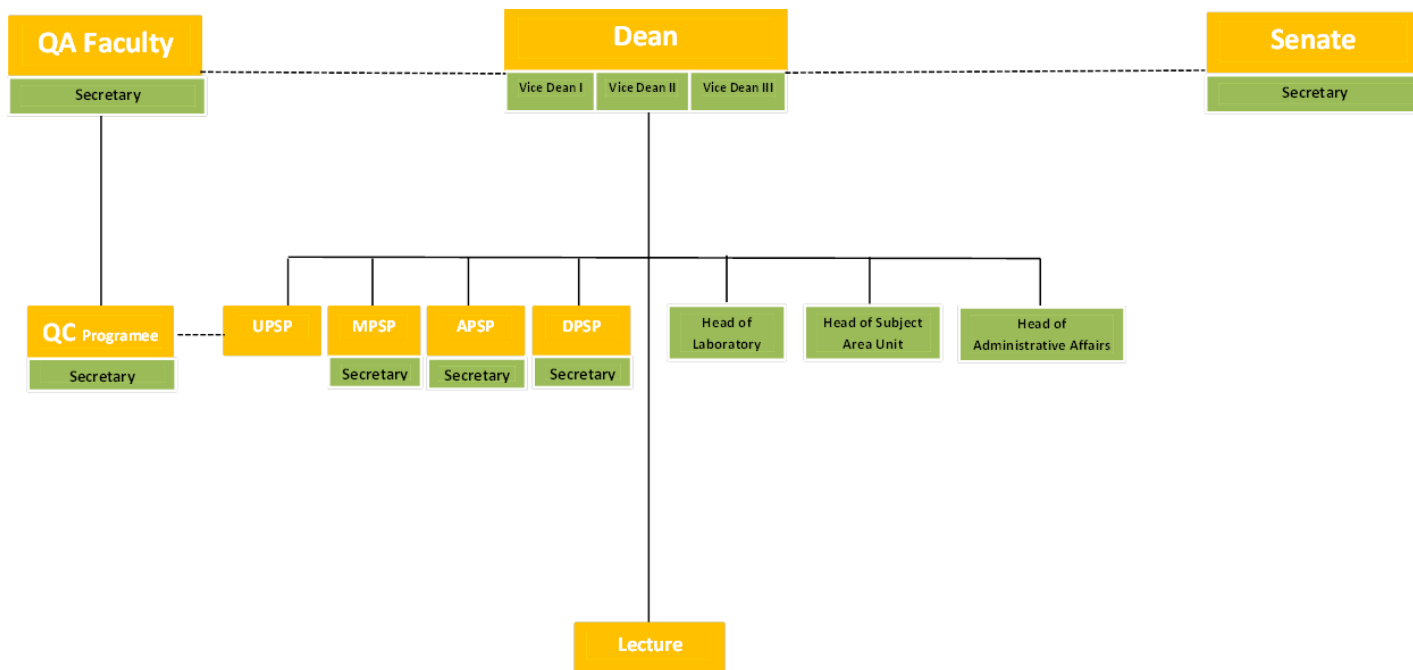
Nutraceuticals

This course provides knowledge on Nutraceuticals.

Hospital Pharmacy

This course consists of Hospital Pharmacy concepts, history and development, functions and implementation in pharmaceutical practice according to Standards of Pharmaceutical Service in Indonesia (Health Minister Ordinance 1197/2004).

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Prof. Dr. Fatma Sri Wahyuni, Apt.



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Dr. Febriyenti, M.Si, Apt



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Deri Kurniawan

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Laboratories and Supporting Facilities

Faculty of Pharmacy has several laboratories to accommodate educational and research activities

The Central Laboratory

The Advanced Pharmaceutical Laboratory for research and educational laboratory that carries Pharmaceutical Organic Chemistry Practice and Physicochemical Analysis Practice. This lab is equipped by several tools such for research and analysis pharmaceutical compound. This laboratory is supported by various equipments such as : Ultrasonic cleanser, Hematology analyzer Cryogenic storage Aspirator, Centrivap concentrator & Centrivap cold trap, rotavapor, Recirculating chiller, Water bath, Vacump pump, Distillation chiller, Water bath, Filtering flask, adaptor silicon, Electromantel, Freeze dryer, TLC spray cabinet II, UV Cabinet 254-366 nm (2), Chamber (3), Chromatotron, Pump controller, Chromatotron, tabung UHP, HPLC, UHPLC, Capillary Electrophoresis, GC-MS, TLC Scanner, FTIR



The Qualitative & Quantitative Pharmaceutical Chemistry Laboratory

The Qualitative & Quantitative Pharmaceutical Chemistry Laboratory is a laboratory for research and educational laboratory that carries Basic Analytical Practice and Analytical Pharmacy Practice. This laboratory is supported by various equipments such as: Spektrofotometer UV-VIS, Furnace, Desikator, Magnetik Strirrer



The Pharmaceutical Microbiology Laboratory

The Pharmaceutical Microbiology Laboratory is a laboratory for research and educational laboratory that carries Pharmaceutical Microbiology. This laboratory is supported by various equipments such as: Microscope, Autoclave Manual, Autoclave Digital, Vortex, Colony Counter, Inkubator Shaker, Laminar Air Flow



The Sterile Dosage Forms Technology Laboratory

The Sterile Dosage Forms Technology Laboratory is a laboratory for research and educational laboratory that carries Sterile Dosage Forms Practice. This laboratory is supported by various equipments such as: pH meter, Ultra Turrax, Climatic Chumber (Humidity), Particle Size Analyzer



The Liquid and Semisolid Dosage Forms Technology Laboratory

The Liquid and Semisolid Dosage Forms Technology Laboratory is a laboratory for research and educational laboratory that carries Compounding Practice, Liquid and Semisolid Dosage Forms Practice and Prescription and Dispensing Practice. This laboratory is supported by various equipments such as: Stokes Monsanto, Harness, Infrared Moisture Balance, Disolution test, "Mini Spray drayer "B-290 BUCHI", OHAUS scale, Magnetik Stirrer



The Pharmacology & Anatomy Physiology Laboratory

The Pharmacology & Anatomy Physiology Laboratory is a laboratory for research and educational laboratory that carries Human Anatomy and Pharmacology of Anti Infection and Endocrine Practice. This laboratory is supported by various equipments such as: Centrifuge, CODA, Biopac, Optic Lab



The Clinical Biochemistry & Imuno-Serology Laboratory

The Clinical Biochemistry & Imuno-Serology Laboratory is a laboratory for research and educational laboratory that carries Biochemistry Practice and Immunology and Serology Practice. This laboratory is supported by various equipments such as: Urinometer, Haemometer Sahli, Desikator, Spektrofotometer UV-VIS



The Pharmacognosy & Pharmaceutical Botany Laboratory

The Pharmacognosy & Pharmaceutical Botany Laboratory is a laboratory for research and educational laboratory that carries Pharmaceutical Botany Practice. This laboratory is supported by various equipments such as: Microscope, Oven, Furnace, Dry Cabinet, Rotary Evaporator



The Natural Product Chemistry Laboratory

The Natural Product Chemistry Laboratory is a laboratory for research and educational laboratory that carries Pharmaceutical Natural Product Chemistry Practice. This laboratory is supported by various equipments such as: Rotary Evaporator

HPLC, GCMS



The Pharmacotherapy Laboratory

The Pharmacotherapy Laboratory is a laboratory for and educational laboratory that carries Pharmacotherapy Practice.



Supporting Facilities



Dorm



Campus Bus



Convention Hall



Lecture Hall



Business Center



Student Center Building



Conference Hall



Library



Biological Research Forest



Mosque



Laboratory



IT Center



Hospital



Sport Facilities



Futsal Pitch

Student Services and Supports

Scholarship

- Bidikmisi Scholarship (<http://bidikmisi.dikti.go.id/>)
- PPA (Improved Academic Achievement) Scholarship
- BBM (Student Learning Support) Scholarship
- KSE (Karya Salemba Empat) Scholarship
- ETOS Andalas University Scholarship
- BAZNAS Scholarship
- Toyota Astra Foundation Scholarship
- Supersemar Scholarship

Counseling Services

- Andalas University Student Counseling Center
- TBK (Faculty's Guidance and Counseling Team)
- ACC (Andalasian Character Center)
- Unand Career Center

Foreign Language Services

- Language Center
- American Corner

Student Activities at Faculty Level

- DPM KM FFUA (Legislative Organisation)
- BEM KM FFUA (Executive Organisation)
- English Club
- Sports Club
- Sains Club
- Music & Art Club

Training & Development

- Student Leadership Training
- TOEFL training
- Programming Training
- Training on Writing Scientific Papers (Guidance on PKM proposal).
- TAC (Training for Andalasian Character)
- AMT (Achievement Motivation Training)
- Soft skill integration with lectures

Extracurricular at University Level

- UKPM (Student Press Activity Unit) Genta Andalas
- UKS-AU (Art Activity Unit Andalas University)
- Rabbani Student Activity Units
- AIESEC University Local Committee
- UKO (Sports Activity Unit)
- Menwa (AU Student Regiment)
- AU Scout
- MAPALA (Student Association for Environmental and Adventure Activity)
- Swordsman Student Activity Units
- Neo-Telemetry
- KSR PMI (Indonesian Red Cross)
- Voluntary Corps
 - KOPMA (Student Cooperative Store)
 - Cinematography
 - PIKA Student Activity Units

Location – Campus Map



Further Information: <https://bit.ly/36D7NtM>



ABOUT THIS PROSPECTUS

Remarks

This prospectus may subject to changes over time. The information will always be updated every academic year e.g., information about fees, courses, staff, and various services available in Universitas Andalas. Any changes on curriculum needs approval from the Universitas Andalas Education Committee.

To ensure that you have all the essential and updated information required to enable you to make any decisions, please check-out the Faculty of Pharmacy website at <http://ffarmasi.unand.ac.id>

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