



Amrita School of Pharmacy

Offering Bachelors, Masters and Doctoral Programs in Pharmacy

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PHARMACY COURSES

The school runs academic programs for the undergraduate level to the Ph. D levels.

COURSE - I :- B. Pharm

COURSE - II :- PHARM. D (REGULAR) AND PHARM. D(POST BACCALAUREATE)

COURSE - III :- M. Pharm

- M. Pharm - PHARMACY PRACTICE (HOSPITAL & CLINICAL PHARMACY)

- M. Pharm - PHARMACEUTICS

- M. Pharm - PHARMACEUTICAL CHEMISTRY

COURSE IV :- Ph. D IN PHARMACEUTICAL SCIENCES



Anti-ragging Committee for the Academic Year 2012-2013

Name of the Members

Dr. Sabitha .M

Principal, School of Pharmacy

Dr. Sujit Nair

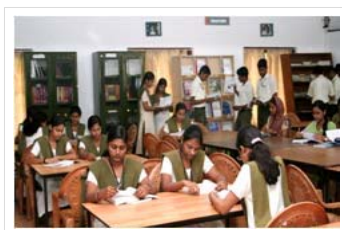
Professor, Department of Pharmaceutics

Mr. Emmanuel James

Assistant Professor, Department of Pharmacy Practice

COURSE I

B. PHARM



The B. Pharm Degree Course follows a semester pattern from year 2010 onwards. Selection is based on the rank obtained in the All India entrance test conducted by Amrita Vishwa Vidyapeetham.

B. Pharm Degree Course is a four-year program (8 semester) with two months practical training in industry and hospital. The B. Pharm degree is a versatile interdisciplinary program preparing graduates with a sound knowledge and understanding of the science, technology, and practice of pharmacy.

The course comprises the following major areas of study:

Pharmaceutical Chemistry and Pharmaceutical Analysis (Chemistry of drugs)

Pharmaceutical Chemistry enables the student to synthesize, purify and identify the medicinal agents and the Pharmaceutical analysis look after the quality control and quality assurance aspects of medicines.

Pharmaceutics:

The subject deals with the practical aspects of formulation, preparation and analysis of various pharmaceuticals and cosmetics. A graduate shall be able to formulate, store, dispense, and analyse the prescription and/or manufacture the pharmaceuticals and cosmetics at the commercial level. It also helps the student acquire knowledge and skill to apply quality assurance principles, including legal and ethical aspects involving drugs, delivering a quality assured product as per the pharmacopoeial, WHO and ISO standards. Practical aspects of product detailing and marketing of pharmaceutical products are also taught.

Pharmacology:

This helps the student gain knowledge and scientific information regarding pharmacology of drugs, practical aspects of pharmacological screening for various medicinal agents using the animal model for pharmacology calculations, biological standardisation, and in-vivo drug interactions and toxicity studies

Pharmacognosy:

The subject of Pharmacognosy deals with drugs of natural sources like herbal drug cultivation methods, bio-technological methods, formulation and production of pharmaceutical herbal products and their evaluation. The students will develop adequate skill to extract, purify, identify, and know the therapeutic value of herbal/crude/natural products.

Pharmacy Practice:

The subject of Pharmacy Practice deals with Hospital, Clinical and Community Pharmacy. It provides understanding of the processes involved in providing primary healthcare, drug information and other clinical pharmacy service in different practice environments. This enables students to acquire knowledge of clinical studies for patient counseling drug information, adverse drug reaction monitoring, toxicological studies, therapeutic drug monitoring and other similar aspects of Clinical Pharmacy. Amrita School of Pharmacy is associated with various clinical trials of drugs and post marketing studies being carried out at our hospital. AIMS is identified by the National Pharmacovigilance Centre as its primary peripheral pharmacovigilance centre in the state of Kerala.

COURSE OF STUDY

B. Pharm

Semester 1	Semester 2	Semester 3	Semester 4
Pharmaceutical Chemistry- I & II (Inorganic)*	Pharmaceutical Chemistry -II *(Elementary Organic Chemistry)	Pharmaceutical Chemistry - III (Pharmaceutical Organic Chemistry)	Pharmaceutical Chemistry - IV (Heterocyclic & Stereochemistry)
Dispensing Pharmacy*- I	Dispensing Pharmacy - II*	Physical Pharmacy -I*	Physical Pharmacy - II *
Principles of Hospital Pharmacy (Hospital Pharmacy - I) *	Drug Store Management (Hospital Pharmacy - II)*	Social and Community Pharmacy	Pharmaceutical Microbiology
Human Anatomy and Physiology - I *	Human Anatomy and Physiology - II *	Pharmaceutical Technology	General Pharmacology
Computer Application and Audio Visual Programmes #	Mathematics and Biostatistics#	Pharmacognosy - I*	Pharmacognosy - II*
Value Based Education and Environment Science #	Basic Concepts of Social Life and Psychology	Pharmaceutical Analysis -I	Pharmaceutical Chemistry - V (Biochemistry)
Semester 5	Semester 6	Semester 7	Semester 8
Pharmaceutical Chemistry - VI (Chemistry of synthetic drugs)	Pharmaceutical Chemistry - VII (Medicinal Chemistry)	Pharmaceutical Analysis - III * (Instrumental)	Pharmaceutical Chemistry - VIII (Medicinal Chemistry and Drug Design)
Biopharmaceutics and Pharmacokinetics	Pharmaceutical Jurisprudence	Formulation Technology	Industrial Pharmacy
General Pathophysiology	Pharmacy Practice - Concepts and Management	Pharmacotherapy - I	Pharmacotherapy- II
Systemic Pharmacology -I*	Systemic Pharmacology II*	Systemic Pharmacology - III *	Biochemical Pharmacology (Biological Screening and Drug Development)
Phytochemistry	Research in Pharmacy & Clinical Research trials	Industrial Pharmacognosy	Clinical Pharmacy Practice
Pharmaceutical Biotechnology	Pharmaceutical Analysis II*	Project #	Project

* Practical Examination will be conducted at the end of Semester II, Semester IV, Semester VI, Semester VIII respectively.

School level examination only.

Course Fees

B.Pharm

Class	Tuition Fees	Uniform and other fees	Hostel, Mess	Total
1 st year	55,000	39,400	25,400	1,19,800
2 nd year	55,000	20,900	25,400	1,01,300
3 rd year	55,000	20,900	25,400	1,01,300
4 th year	55,000	22,400	25,400	1,02,800
TOTAL				4,25,200

** Fees mentioned above are at current levels. Institution reserves the right to revise the same at any time without notice. All the fees for the first year shall be paid at the time of joining.*

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COURSE II

PHARM. D (REGULAR) AND PHARM. D(POST BACCALAUREATE)

Doctor of Pharmacy is a hospital oriented globally accepted pharmacy programme. We have started the programme Pharm.D(Regular) & Pharm. D (P.B) in 2010.

Doctor of Pharmacy (Pharm.D) Regular course: This is a six year course after completion of the plus two with science stream. The course is approved by the Pharmacy Council of India and the intake is 30students per annum.

The course is designed to make the students competent for patient medication therapy, management and improve patient outcomes. The students are their clinical knowledge and skills to manage patients with chronic or acute illness, collaborate other health care providers to provide cost effective care, formulation of drug related issues, evaluate patients and family members on the correct way to administer medication etc, The students are undergo internship/residency during the final year (6th year) for one year in the hospital, specialty teaching hospital in the campus.

Course Fees

Pharm.D (Regular)

Class	Tuition Fees	Uniform and other fees	Hostel, Mess	Total
1 st year	1,10,000	41,900	41,600	1,93,500
2 nd year	1,21,000	24,400	41,600	1,87,000
3 rd year	1,33,000	24,400	41,600	1,99,000
4 th year	1,46,000	24,400	41,600	2,12,000
5 th year	1,61,000	24,400	41,600	2,27,000
TOTAL				10,18,500

** Fees mentioned above are at current levels. Institution reserves the right to revise the same at any time without notice. All the fees for the first year shall be paid at the time of joining.*

Doctor of Pharmacy (Pharm. D) Post Baccalaureate) : This is a three year course after B. Pharm graduation. The course is approved by AICTE and PCI. The current annual intake of students is 10. There will be internship or residency for an year (in the final year) in the hospital. After completion of the course the candidates work a fully integrated member of the health care team and help maximize drug efficacy, minimize drug toxicity and promote cost effectiveness.

Course Fees

Pharm.D (Post Baccalaureate)

Class	Tuition Fees	Uniform and other fees	Hostel, Mess	Total
1 st year	1,80,000	46,100	41,600	2,67,700
2 nd year	1,80,000	31,300	41,600	2,52,900
TOTAL				5,20,600

** Fees mentioned above are at current levels. Institution reserves the right to revise the same at any time without notice. All the fees for the first year shall be paid at the time of joining.*

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COURSE III

M. PHARM

M. PHARM - two years masters degree program in different specialities of pharmacy

M. PHARM - Pharmacy Practice (Hospital and Clinical Pharmacy)

The aim of this course is to equip the pharmacy professional with the required skills, attitudes and knowledge to become a practicing clinical pharmacist and mould him as an efficient member of the health care team.

M. PHARM - Pharmaceutics

This program helps the students to become an experts in formulation development assessment of bioavailability and other technical aspects of drugs and cosmetics and help them to become competent professionals to work in the various units of the pharmaceutical industry.



M. PHARM - Pharmaceutical Chemistry

This course gives necessary orientation and practical training in handling the various quality control and quality assurance activities related to medicines and cosmetics and their ingredients.

(All the above courses have been approved by All India Council for Technical Education (AICTE))

EXAMINATION

There shall be one annual examination at the end of the first academic year called M.Pharm Part I examination. The Part II examination of the course shall consist of a dissertation in any one of the following areas:

M. Pharm - Pharmacy Practice

Hospital Pharmacy
Clinical Pharmacy
Drug Store Management
Community Pharmacy

M. Pharm - Pharmaceutics

Advanced Drug Delivery System
Advanced Industrial Pharmacy
Biopharmaceutics and Pharmacokinetics

M. Pharm - Pharmaceutical Chemistry

Advanced Organic Chemistry
Advanced Medicinal Chemistry
Advanced Phytochemistry

COURSE OF STUDY

Master of Pharmacy (M.Pharm) Part I - Course of study shall consist of the following five papers:

Pharmacy Practice (Hospital and Clinical Pharmacy)

Paper 1. Modern Pharmaceutical Analytical Techniques
Paper 2. Principles of Research
Paper 3. Hospital Pharmacy, Community Pharmacy and Drug Store Management.
Paper 4. Pharmacy Practice and Toxicology.
Paper 5. Pathophysiology and Pharmacotherapy

Pharmaceutics

Paper 1. Modern Pharmaceutical Analytical Techniques

Paper 2. Principles of Research
 Paper 3. Advanced Drug Delivery Systems
 Paper 4. Advanced Industrial Pharmacy
 Paper 5. Biopharmaceutics and Pharmacokinetics

Pharmaceutical Chemistry

Paper 1. Modern Pharmaceutical Analytical Techniques
 Paper 2. Principles of Research
 Paper 3. Advanced Organic Chemistry
 Paper 4. Advanced Medicinal Chemistry
 Paper 5. Advanced Phytochemistry

Course Fees

M.pharm

Class	Tuition Fees	Hostel fee	Other fees	Total	Payable to the college
1 st year	1,50,000	16,000	39,000	205,000	205,000
2 nd year	1,50,000	16,000	27,000	1,93,000	1,93,000
TOTAL				3,98,000.00	

**Fees mentioned above are at current levels. Institution reserves the right to revise the same at any time without notice. All the fees for the first year shall be paid at the time of joining.*

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COURSE IV

Ph.D. IN PHARMACEUTICAL SCIENCES

Amrita School of Pharmacy offers Ph. D. degree in various areas of drug research. Topics related to Pharmacy Practice, Pharmaceutics, Pharmacology, Pharmaceutical Chemistry, Herbal Drugs, Quality Control, Biotechnology, Nanotechnology, Pharmaceutical Management and other aspects of Pharmaceutical Sciences are some of the special areas of interest of the Ph.D. program.

The students have the option of pursuing their Ph. D. as a three-year full-time program or a four-year part-time program, based on a Master's Degree in Pharmaceutical Sciences or subjects like biological and health sciences related to various aspects of Pharmaceutical Sciences. The student shall carry out an individual research project and submit a thesis under the supervision of a senior scientist. Once the project is approved, the research scholar will defend his thesis in a public viva-voce examination.

NEW COURSES

The School is in the process of starting M. Pharm programmes in Herbal Drug Standardisation and Pharmacology In addition to the existing M.Pharm programmes during the year 2011.

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