

2.13 Records

To be maintained for all Practical Work

2.14 Dissertation

As mentioned in Project work to be done (clause 2.16)

2.15 Speciality Training if any

As mentioned in Syllabus (clause 2.6)

2.16 Project work to be done if any

All the students shall submit a thesis/dissertation on the basis of regular research work in Semester III to IV under the supervision of a teacher (project guide). The format for printing the thesis is given in Annexure 4.

The Internal Examiner (project guide) and External Examiner appointed by the University shall evaluate the project at the end of Fourth semester. (Annexure 4)

2.17 Any other Requirements [CME, Paper Publishing, etc.,]

As mentioned in Course outline (clause 2.4)

2.18 Prescribed/Recommended textbooks for each subject

As mentioned in Syllabus (clause 2.6)

2.19 Reference books

As mentioned in Syllabus (clause 2.6)

2.20 Journals

All Pharmacy and related Medical Journals

2.21 Logbook

Registers to be maintained :

The Institution have to maintain registers for student activities such as Seminar/Assignment (Semester I & Semester II), Journal club presentation (Semester III & Semester IV), Minutes of Research Monitoring committee (Semester III & Semester IV), and Co-curricular activities (Semester I to IV) in addition to the mandatory general records as specified by the University from time to time.

Program Committee

The M. Pharm. programme shall have a Programme Committee constituted by the Head of the institution in consultation with all the Heads of the departments.

The composition of the Programme Committee shall be as follows:

A teacher at the cadre of Professor shall be the Chairperson; One Teacher from each M. Pharm specialization and four student representatives (two from each academic year), nominated by the Head of the institution.

Duties of the Programme Committee:

- Periodically reviewing the progress of the classes.
- Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- Communicating its recommendation to the Head of the institution on academic matters.
- The Programme Committee shall meet at least twice in a semester preferably at the end of each sessional exam and before the end semester exam.

2.5 Duration

The program of study for M.Pharm. shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by the Kerala University of Health sciences.

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

2.6 Syllabus

Given separately for each specialisation.

2.7 Total number of hours

As mentioned in Course outline (clause 2.4)

2.8 Branches if any, with definition

As mentioned in Syllabus (clause 2.6)

2.9 Teaching Learning methods

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses.

2.10 Content of each subject in each year

As mentioned in Syllabus (clause 2.6)

2.11 Number of hours per subject

As mentioned in Syllabus (clause 2.6)

2.12 Practical Training

As mentioned in Course outline (clause 2.4)

2.4.17. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report.

The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Objective(s) of the work done	15Marks
Methodology adopted	20Marks
Results and Discussions	20Marks
Conclusions and Outcomes	20Marks

Total	75Marks
<i>Evaluation of Presentation:</i>	
Presentation of work	25Marks
Communication skills	20Marks
Question and answer skills	30Marks

Total	75Marks

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

2.4.18. Industrial training

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester-VI and before the commencement of Semester-VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

2.4.19. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.

Fifth Year

S.No	Name of Subject	No. of hours of Theory	No. of hours of Practical	No. of hours of Tutorial
(1)	(2)	(3)	(4)	(5)
5.1	Clinical Research	3	-	1
5.2	Pharmacoepidemiology and Pharmacoeconomics	3	-	1
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	2	-	1
5.4	Clerkship *	-	-	1
5.5	Project work (Six Months)	-	20	-
	Total hours	8	20	4=(32)

*Attending ward rounds on a daily basis.

Sixth Year:

Internship or residency training, including postings in specialty units. The student should independently provide the clinical pharmacy services to the allotted wards.

- (i) Six months in General Medicine department, and
- (ii) Two months each in three other speciality departments.

2.5. Duration

The duration of the course shall be six academic years (five years of study and one year of internship or residency) full time with each academic year spread over a period of not less than 200 working days. The period of six years duration is divided into two phases –

Phase I – consisting of first, Second, Third, fourth and the fifth academic year.

Phase II – consisting of internship or residency training during the sixth year involving posting in specialty units.

It is a phase of training wherein a student is exposed to actual pharmacy practice or clinical pharmacy services and acquires skill under supervision so that he or she may become capable of functioning independently.

2.6. Syllabus

As mentioned in "Content of each subject in each year" (clause 2.10)

The concept of health care counselling shall be incorporated in all relevant areas.