



University Department of Pharmaceutical Sciences (UDPS)

Utkal University, Vani Vihar, Bhubaneswar-751004

Add on Course

**Course Name: Elementary Knowledge on Drugs and
Pharmaceuticals**

Venue: UDPS, Utkal University

Course Duration: 35 working hours

Eligibility Criteria: Graduate/ Postgraduate students

Other courses offered by the Department:

1. B. Pharm
2. M. Pharm (Pharmaceutics, Pharmacology, Pharmaceutical Chemistry, Pharmacognosy)
3. Ph.D. in Pharmacy

B. Pharm & M. Pharm courses are approved by Pharmacy Council of India and All India Council for Technical Education.

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Objectives of the course:

- To acquire the basic knowledge on various common drugs & Pharmaceutical substances.
- Knowledge on drugs used against various common diseases.
- Knowledge on various natural drugs and commonly available medicinal plants
- Basic knowledge on various traditional systems of medicine viz. Ayurveda, Unani, Siddha, Homeopathy.
- Basic knowledge on development of different types of Pharmaceutical formulations.
- Knowledge on various Pharmaceutical Acts, Laws and Code of Ethics.

Scheme of Examination

The students admitted into the Add on course are eligible to appear the examination after attending the classes for 35 working hours.

The full mark of the examination (1 theory paper) is 100 and duration of examination is 2 hrs.

The students admitted into the Add on course shall complete the course after securing 50% mark in the final examination.

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Course Name: Elementary Knowledge on Drugs and Pharmaceuticals

Unit I

Drugs used for treatment of common diseases

10 hrs

Dental products, Antacid, ORS, Replacement therapy.

Basic introduction to antimicrobial agents (Antibiotics, Antifungals & antiviral drugs)

Nuclear medicine & diagnostics agents.

Drugs acting on cardiovascular system

Drugs acting on respiratory system

Drugs acting on GI tract

Antiallergic drugs

Drugs used for burn, wound, snake bite and other common ailments

Unit II

Techniques involved in development of various Pharmaceutical formulations 10 hrs

Basic introduction to various dosage forms viz. solid, liquid, semisolid, aerosol, parenteral and their classification.

Calculation of child dose from adult dose

Prescription: Parts of a prescription, Handling of prescription & Errors in a prescription.

Unit III

Drugs of natural origin

9 hrs

Drugs obtained from various natural sources.

Basic metabolic pathways and formation of different primary & secondary metabolites in plant.

Study of some commonly used medicinal plants.

Basic principles involved in traditional systems of medicine viz. Ayurveda, Unani, Siddha,

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Homeopathy.

Unit IV

Various Pharmaceutical acts, rules and code of ethics

6 hrs

Right to Information Act, Medical Termination of Pregnancy Act, Prevention to Cruelty to Animal Act-1960, Basic knowledge of Schedules viz. C, C₁, G, H, M, N, P, T, U, V, X, Y.

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