

SUBJECT - PHARMACOGNOSY

Branch/Discipline - Pharmacy

Minimum Number of class tests to be conducted - 3

Theory (75 hours)

Course Contents -

1. Definition, history & scope of Pharmacognosy including indigenous system of medicine.
2. Various systems of classification of drugs of natural origin.
3. Adulteration & drug evaluation; significance of Pharmacopoeial standards.
4. Brief outline of occurrence, distribution outline of isolation, identification tests, therapeutic effects & pharmaceutical applications of alkaloids, terpenoids, glycosides, volatile oils, tannins & resins.
5. Occurrence, distribution, Organoleptic evaluation, chemical constituents including tests wherever applicable & therapeutic efficacy of following categories of drugs:
 - a. Laxatives: Aloes, Rhuburb, Castor oil Ispaghula, Senna.
 - b. Cardiotonics-Digitalis, Arjuna.
 - c. Carminatives & G.I. regulators-Umbelliferous fruits. Coriander, Fennel Ajowan, Cardamom. Ginger, Black pepper Asafoetida, Nutmeg, Cinnamon, Clove.
 - d. Astringents-Catechu.
 - e. Drugs acting on nervous system-Hyoscyamus, Belladonna, Aconite, Ashwagandha, Ephedra, opium, Cannabis, Nux vomia.
 - f. Antihypertensives-Rauwolfia.
 - g. Ntitussives-Vasaka, Tolu balsam, Tulsi.
 - h. Antirheumatics-Guggul, Colchicum.
 - i. Antitumour-Vinca.
 - j. Antileprotics-Chaulmoogra oil.
 - k. Antidiabetics-Pterocarpus, Gymnema, Sylvestro.
 - l. Diuretics-Gokhru, Punarnava.
 - m. Antidysenterics-Ipecacuanha.
 - n. Antiseptics & disinfectants Benzoin, Myrrh, Nim, Curcuma.
 - o. Antimalarials-Cinchona.
 - p. Oxytocics-Ergot.
 - q. Vitamines-Shark liver oil & Amla.
Enzymes-Papaya, Diastase, yeast.
Perfumes & flavouring agents-Peppermint Oil, Lemon Oil Orange Oil, lemon grass Oil Sandalwood.
Pharmaceutical aids-Honey, Arachis Oil, Starch, Kaolin, Pectin, Olive Oil, Lanolin, Beeswax, Acacia, Tragacanth, Sodium alginate Agar, Guar gum, Gelatin.

- r. Miscellaneous- Liquorice, Garlic, Picrorhiza, Dioscorea, Linseed, Shatavari, Shankhpushpi, Pyrethrum, Tabacco.
6. Collection & preparation of crude drugs for the market as exemplified by Ergot, opium, Rauwolfia, Digitalis, Senna.
7. Study of source, preparation & identification of fibres used in sutures & surgical dressings-cotton, silk, wool & regenerated fibres.
8. Gross anatomical studies of-Senna, Datura, Cinnamon, Cinchona, Fennel, Clove, Ginger, Nuxvomica & ipecacuanha.

PRACTICAL (75 Hours)

1. Identification of drugs by morphological characters.
2. Physical & chemical tests for evaluations of drugs wherever applicable.
3. Gross anatomical studies (t.s.) of the following drugs Senna, Datura, Cinnamon, Cinchona, Coriander, Fennel, Clove Ginger, Nuxvomica, Ipecacuanha.
4. Identification of fibers & surgical dressings.