

**VEER NARMAD SOUTH GUJARAT UNIVERSITY,
Advanced Post Graduate Diploma in Medicinal Plants**

**Phytochemistry & Pharmacological screening of herbal drugs
(DMP 104)**

Phytochemistry:

- I. Carbohydrates: mono and disaccharides, sugar alcohols, sugar acids, sugar amines. Polysaccharides: dextrans, inulin, matrix polysaccharides, gums and mucilages
- II. proteins : peptides, lectins,
- III. Lipids, Volatile oils Fattyacids and fatty oils Sesquiterpenes, diterpenes, triterpenes and tetraterpenes
- IV. Glycosides: anthraquinones, isothiocynates, Flavonols, Lactones phenols Saponins and cardiac glycosides
- V. Alkaloids, indoles, isoquinolines, tropanes, pyridine and piperidine, steroidal alkaloids.
- VI. Bitter principle
- VII. Phenols and tannins
- VIII. Antibiotics
- IX. Phyto-inorganic chemistry

Pharmacological screening of herbal drugs:

- I. Need for phyto-pharmacological evaluation
- II. Evaluation of anti diabetic agents
- III. Evaluation of anti microbial agents
- IV. Evaluation of anti diarrheal agents