

**Gujarat Technological University**  
**Master of Pharmacy**  
**Semester – II**

**Specialization paper - IV**  
**Advances in Pharmaceutical Science**  
**Theory**  
**(Four hours per week, 6 credits)**

1. Nutraceuticals from herbal sources
2. Insecticides and pesticides from natural sources
3. Phytochemical screening technique
4. Advances drug from natural sources of following categories:
  - i. Antidiabetic
  - ii. Cardiogenic
  - iii. Immunomodulators
  - iv. Anti-inflammatory
  - v. Anti-ulcer
  - vi. Anti-malarial
  - vii. Diuretics
  - viii. Anti-oxidant
  - ix. Urolithiatics
  - x. Anti-lipidemic
  - xi. Brain tonic
  - xii. Hepatoprotective
  - xiii. Anti-cancer
  - xiv. Anti-AIDS

**References Books:**

1. Chatterjee T. K – Herbal options
2. Journals-
  - a. Indian Drugs
  - b. Indian Journal of pharmaceutical Education
  - c. Planta Medica
3. Evans W. C – Trease and Evans pharmacognosy (15<sup>th</sup> ed)
4. Kalia A. N – Textbook of Industrial Pharmacognosy.
5. Handa S.S & Kaul K.L. – Supplement to cultivation and utilization of medicinal plants, 1996.
6. Govil J. N, Singh V.K, Siddiqui N. T– Recent Progress in Medicinal plants, Vol., 1-25, , Studim Press , LLC USA.

7. Brunreton J– Pharmacognosy and Phytochemistry of medicinal Plants, (2<sup>nd</sup> ed.), Intercept limited, Newyork, 1999.
8. Robbers J. E, Speedie M. K, Tyler V. E– Pharmacognosy and Pharmacobiotechnology, William and wikins, USA, 2005.
9. Bhat S. V, Nagasampagi B. A, Meenakshi S– Chemistry of Natural Products, Narosa Publishing House.
10. Robbers J. E, Tyler V. E– Herbs of Choice, Haworth Press In. USA-2002.
11. Reinhold L– Progress in Phytochemistry.
12. Wealth of India,Raw Material.