**Recent Trends and Challenges in Regulation and Standardization of Herbal Drugs and Formulations**

**ITEC-2019-20**

**Course contents**

* Trade in Herbal Drugs: A global perspective
* Botanical standardization of herbal drugs
* Cultivation and Collection practices for medicinal plant materials
* Chemical standardization of herbal drugs
* Qualitative and quantitative determination of contaminants in herbal drug materials
* Modern Analytical Techniques such as HPTLC, HPLC, LC-MS, Capillary electrophoresis (CE) and CE-MS and their applications in identification and characterization of herbal drugs
* Pharmacovigilance of herbal drug
* Safety and efficacy aspects of herbal medicines
* Standardization, quality control, evaluation and New Drug Registration of herbal drugs
* Bottlenecks in regulation of herbal drugs and products
* Challenges in Pharmacokinetics and Pharmacodynamic study of herbal drugs
* Herb-Drug Interactions: Pros and Cons
* Post marketing surveillance of herbal medicines
* Nutraceuticals: Facts and Future
* Hands-on training sessions (2-3) on above mentioned techniques
* Visits to 2 pharmaceutical industries