



Industrial Technology Institute
Ministry of Technology & Research



Certificate Courses

(1) Analysis of flavours, fragrances and isolates using classical and computer assisted advanced GC/GCMS & LC methods.

Topics: Introduction to theoretical and practical knowledge of analysis of spices, essential oils and oleoresins, trends in global and local spice, essential oil and oleoresin industry.

Practicals: Hands on experience on separation techniques, Classical methods of analysis, Chromatographic separation and quantification techniques, selectivity, operational criteria, problem solving and conditions for optimum separation.

27th - 29th October 2010

(2) (a) Quality Control and Standardization of herbal drugs

Topics: Need for Quality Control and Standardization, Substitution and Adulteration, Good Agricultural practices, Standardization techniques, Instrumental techniques used in analysis, Regulatory aspects for registration, DNA fingerprinting and Usage and Clinical aspects of herbal drugs.

Practicals: Pharmacognostical identification, Qualitative and Chemical analysis, Phytochemical analysis, Chromatographic analysis/Finger printing, Densitometry, Extraction and isolation of marker compounds, Analysis of heavy metals, pesticide residues, microbial purity and aflatoxin, Analytical specifications of different types of herbal drugs.

(b) Practical training Course on Bioassays

Topics and Practical: Enzyme inhibitory, Antioxidant, Antimicrobial and Cytotoxicity assays and Insecticidal bioassays.

Course 2a: 1st - 5th November 2010; **Course 2b:** 8th - 10th November 2010

(3) Herbal Drugs Manufacturing Management

Topics: Overall knowledge to set up small scale herbal drugs manufacturing unit and its management, Rules and regulations pertaining to herbal drugs manufacturing, Layout design and Machinery and equipments.

Practicals: Quality assessment of raw materials/finished products, value addition to herbal drugs, raw material suppliers, packaging, costing, marketing strategies and practical demonstration of preparation of medicated herbal oil/herbal balm/ointment/herbal tea and visiting a small scale herbal manufacturing unit.

15th - 17th November 2010

(4) Plant Tissue and cell culture

Topics: Introduction to basic theoretical concepts in plant tissue culture and its applications.

Practicals: Hands on laboratory practices on aseptic techniques, culture methodology, laboratory equipment, micropropagation, callus induction, plant cell culture and protoplast culture.

22nd - 26th November 2010

Course fee (Exclusive tax): Courses 1, 3 = Rs.20,000/-

Courses 2a, 2b, 4 = Rs.25,000/-

Courses 2a + 2b = Rs.40,000/-

Co-ordinator: Dr(Mrs)Selvaluxmy Chelvendran

Registration Forms to be sent to:

Dr.G.A.S.Premakumara

Head, Herbal Technology Section

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Tel: 011 2 379 800; Fax: 011 2 379 848, For registration forms are available: www.iti.lk