

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemical Engineering - NOC:Pharmacognosy and Phytochemistry

Subject Co-ordinator - Prof. Galvina Pereira

Co-ordinating Institute - IIT Bombay and Institute of Chemical Technology, Mumbai

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction to Pharmacognosy and Phytochemistry
- Lecture 2 - Introduction to Drugs of Natural Origin
- Lecture 3 - Introduction to Primary, Secondary Metabolites and Biosynthetic building blocks
- Lecture 4 - Biosynthesis of Terpenes - Acetate Mevalonate and MEP pathway
- Lecture 5 - Shikimic Acid Pathway
- Lecture 6 - Introduction and Classification of Lipids
- Lecture 7 - Evaluation, Extraction and Refining of Lipids
- Lecture 8 - Examples of lipid containing drugs castor oil, sesame oil and coconut oil
- Lecture 9 - Examples of lipid containing drugs karanja oil, wool fat, bees wax and carnuba wax
- Lecture 10 - Volatile Oils: Properties, Extraction, Evaluation and Examples
- Lecture 11 - Carbohydrate based drugs
- Lecture 12 - Carbohydrates based drugs : Starch and Pectin
- Lecture 13 - Carbohydrates based drugs : Honey, Chitin and Chitosan
- Lecture 14 - Carbohydrates based drugs : Sodium alginate, Carrageenan, Guar Gum
- Lecture 15 - Soluble and Insoluble fibres
- Lecture 16 - Introduction and Classification of Tannins
- Lecture 17 - Different sources and evaluation of Tannins
- Lecture 18 - Biosynthesis, Distribution of tannins
- Lecture 19 - Distribution of tannins - Part 1
- Lecture 20 - Distribution of tannins - Part 2
- Lecture 21 - Introduction to Alkaloids
- Lecture 22 - Classification of Alkaloids
- Lecture 23 - Drugs Containing Alkaloids - Part 1
- Lecture 24 - Drugs Containing Alkaloids - Part 2
- Lecture 25 - Drugs Containing Alkaloids - Part 3
- Lecture 26 - Glycosides
- Lecture 27 - Anthraquinone Glycosides
- Lecture 28 - Cardiac Glycosides
- Lecture 29 - Triterpene and Diterpene Glycosides

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

- Lecture 30 - Cyanogenetic, Isothiocyanate and Phenolic Glycosides
- Lecture 31 - Introduction to flavonoids
- Lecture 32 - Flavonoids Containing drugs - Part 1 : Orange peel, Buckwheat, Strawberry)
- Lecture 33 - Flavonoids Containing drugs - Part 2 : Soy bean, Milk thistle, Grape peel)
- Lecture 34 - Lignan Containing drugs (Podophyllum, Linseed, Piper cubeba, Sesame)
- Lecture 35 - Coumarin containing drugs (Psorelea, Ammi majus, Aflatoxin)
- Lecture 36 - Introduction to Carotenoids
- Lecture 37 - Carotenoids containing drugs (Saffron, Annotto, Marigold)
- Lecture 38 - Quinones containing drugs
- Lecture 39 - Naphthoquinones containing drugs
- Lecture 40 - Iridoids containing drugs
- Lecture 41 - Introduction to Resins
- Lecture 42 - Resins containing drugs
- Lecture 43 - Oleo-gum-resins containing drugs
- Lecture 44 - Oleo-resins containing drugs
- Lecture 45 - Resins containing drugs
- Lecture 46 - Introduction to Quality Control of Herbal Drugs
- Lecture 47 - Methods of Quality Control of Herbal Drugs
- Lecture 48 - Physical Methods of Quality Control of Herbal Drugs - Part 1
- Lecture 49 - Physical Methods of Quality Control of Herbal Drugs - Part 2
- Lecture 50 - Chemical Methods of Quality Control of Herbal Drugs
- Lecture 51 - Quantitative Evaluation of Herbal Drugs Using Spectroscopic Methods
- Lecture 52 - Quantitative Evaluation of Herbal Drugs Using Chromatographic Methods - Part 1
- Lecture 53 - Quantitative Evaluation of Herbal Drugs Using Chromatographic Methods - Part 2
- Lecture 54 - Quantitative Evaluation of Herbal Drugs Using Gas Chromatography Methods
- Lecture 55 - Quantitative Evaluation of Herbal Drugs Using Biological Methods
- Lecture 56 - Application of Databases for Plant Search
- Lecture 57 - Natural Product Databases for Phytochemical Search
- Lecture 58 - Natural Product Databases for Studying Phytochemical Properties
- Lecture 59 - Databases for Studying Spectral Properties
- Lecture 60 - Natural Product Databases for Studying Pharmacokinetic and Pharmacodynamic Properties