III Semester Skill Enhancement Courses

Mathematics Stream:
Computation using Excel / Basic Analytical Chemistry

Bio-Sciences Stream:
Medical Diagnostics / Basic Analytical Chemistry

Arts Stream:
Historical & Cultural Tourism in India / Rural Development

Commerce Stream:
Principles of Insurance
Computation using Excel

2 Credits


Suggested Books:
Basic Analytical Chemistry

Unit I: Titrimetric Methods in Analysis


UNIT II: Water & Soil pollutant


Reference Books:
6. Environmental Chemistry- Anil Kumar De, Arnab Kumar De 7th Edition

Suggested Applications:
a. Determination of Acetic acid in vinegar.
b. Determination of Alkalinity of soda ash

Suggested Instrumental demonstrations:
   a. Estimation of Mn, Cr, Fluoride and Phosphates in water samples by Spectrophotometer
Medical Diagnostics

2 Credits

Unit I: Introduction to medical diagnostics, Diagnostic methods for analysis of blood and urine

1.1 Introduction to medical diagnostics and its importance
1.2 Blood composition, Leishman's staining, Platelet count using haemocytometer, Erythrocyte sedimentary Rate (ESR), packed cell volume (P.C.V)
1.3 Urine analysis Physical characteristics, abnormal constituents.

Unit II: Non-infection, Infection diseases & Tumours

1.1 Non-infection diseases – causes, types, symptoms, complications, diagnosis and prevention of diabetes (type-I&II), Hypertension (Primary & secondary), testing of blood glucose using glucometer/ kit.
1.2 Infectious diseases - causes, types, symptoms complication, diagnosis and prevention of tuberculosis and hepatitis.
1.3 Tumours – Types (Benign) Malignant), detection & metastasis.

Suggested Readings:

Historical & Cultural Tourism in India


Recommended Books:
11. D. Satyanarayana, Kotha Paryaataka Sthalalu (Telugu).
Unit – I: Introduction of Rural Development:

Unit – II: Determinants & Approaches to Rural Development:

Suggested Readings:
3. Bhalla. G. S. (1994) "Economic Liberalization and Indian Agriculture" (Ed)
I: PRINCIPLES OF INSURANCE

Objectives: The objectives of the course are to

- provide a basic understanding of the Insurance Mechanism
- identify the relationship between Insurers and their Customers and the importance of Insurance Contacts
- give an overview of major Life Insurance and General Insurance Products

UNIT I: Risk Management, Concept of Insurance, Business of Insurance, Insurance Market and Insurance Terminology


UNIT II: Insurance Customer, Insurance Products and Insurance Contracts


Suggested Readings

1. Principles of Insurance: Insurance Institute of India
2. Risk Management: Insurance Institute of India
3. Role of Insurance in Financial inclusion: Brinda Publishing House, Hyderabad
5. Insurance Theory and Practice : Tripathi PHI