

# **CHEMISTRY MODULES OBJECTIVE AND SYLLABUS**

## **LEVEL 1 MODULES**

### **CM1111: Inorganic Chemistry 1 (Essential Module)**

**Workload: 4-1-0-2-3**

#### **Aims & Objectives**

This module introduces some basic concepts of modern inorganic chemistry. In the first part, the atomic structure, the bonding models (Lewis structure, valence bond theory, basic molecular theory), basic concepts of acids and bases, redox reactions will be covered. In the part 2, the periodicity and chemistry of most main group elements will be included.

#### **Syllabus**

##### **Part One: Basic Concepts**

1. Atomic Structure
  - 1) Atomic Quantization
  - 2) Schrödinger Equation for hydrogen atom
  - 3) Many-electron systems
2. Chemical periodicity and the periodic Table
3. Molecular structure and bonding
  - 1) Lewis structure
  - 2) Valence bond theory
  - 3) Basic molecular orbital theory
4. Acid - Base and donor - acceptor chemistry
  - 1) Brønsted-Lowry concept
  - 2) Lewis concept
5. Reduction and Oxidation

##### **Part Two: Chemistry of Selected Main Group Elements**

1. Hydrogen and Group 1
2. Group 2
3. Group 13
4. Group 14
5. Group 15
6. Group 16
7. Group 17
8. Group 18

### **CM1121: Organic Chemistry 1 (Essential Module)**

**Workload: 4-2-0-2-2**

#### **Aims & Objectives**

The module deals primarily with the basic principles to understand the structure and reactivity of organic molecules. Emphasis is on substitution and elimination reactions and chemistry of various functional groups. You will be taught the basic concepts on how simple molecules can be constructed. Reactions mechanism, organic transformations and stereochemistry will also be discussed.

By reading this modules, students should be able to:

- i. Understand and be able to apply and evaluate simple organic reaction transformations, functional group interconversion and C-C bond formation reactions.
- ii. Understand the scope and limitations as well as the mechanisms of organic reactions.
- iii. Understand the importance of stereochemistry and be able to view three-dimensional structures with ease.
- iv. Describe and explain currently held views of chemical bonding, and account for the chemical reactivity of reactions.

# Chemistry Modules Objective And Syllabus

**JS Bruner**



## **Chemistry Modules Objective And Syllabus:**

**Evaluation in a Modular Self-paced Introductory Chemistry Course** Eugene Joseph Kales,1978      **Resources in Education** ,1982 Serves as an index to Eric reports microform      Caribbean Issues and Developments Commonwealth Secretariat,1996 The Secretariat s work programme on improving basic education is targeted to teacher education in Commonwealth countries It is widely recognised that teachers are central to quality education A well prepared and motivated teaching force is essential for effective teaching and learning The Secretariat is engaged therefore in a range of measures which include seminars workshops and development as well as the publication of resource materials for the training and professional development of teachers      EPA-430/1 ,1979-05      Water Quality Instructional Resources Information System (IRIS) ,1979      *Resources in Education* ,1992      **Graduate Studies** ,1994      *Book of Abstracts* ,1977      **Chemical Engineering Education** ,2003      **The Journal of the Institution of Engineers, Australia** Institution of Engineers, Australia,1974      *Chemistry and Industry* ,2005      **Current Index to Journals in Education** ,1985      **Journal of Engineering Education** ,2002      GCSE Science Graham Hill,1997 Intended for achieving examination success this series replaces the former GCSE Study Guides This book which are part of the new Revise GCSE series offers complete study and reference support for the Science GCSE course as well as being a revision guide for the Science GCSE examinations and Scottish Standard Grade It provides a breakdown of the syllabuses and exam structure for every exam board advice on studying revising coursework and exams topic by topic coverage clearly presented with many examples and diagrams quick tests for every topic to check progress and a bank of recent GCSE exam questions with answers to fine tune exam techniques

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