

# Bridge Course

## DEPARTMENT OF CHEMISTRY

1) Title : 'Basics concepts in Chemistry' (Autonomous)

Duration: 4 Months

Course Contents:

Sr.No	Module
1	Periodic Table
2	Elements, Compounds and Mixtures
3	Chemical Reactions & Balancing Equations
4	Metric System and Unit Conversion
5	Basics of organic chemistry

2) Title : 'Fundamental in Chemistry' (Autonomous)

Duration: 4 Months

Course Contents:

Sr.No	Module
1	State of Matters
2	Chemical Bonding
3	Stereochemistry
4	Chemical Kinetics

## **DEPARTMENT OF BOTONY**

**Title : Bridge Course in Botany**

**Duration: 4 Months**

**Course Contents:**

Sr.No	Module
1	Basic Botany
2	Applied Botany

## **DEPARTMENT OF MATHEMATICS**

**1. Title : Bridge course of Basic Mathematics for commerce (First term)**

**Duration: 4 months**

**Course Contents:**

Sr.No	Module
1	Algebraic foundation
2	Linear equations and inequalities
3	Graphs
4	linear equations and inequalities
5	Systems of equations
6	Expression with exponents
7	Quadratics
8	Polynomials
9	Trigonometry (Basics)
10	Differentiation (Basics)

**2. Title : Bridge course of Basic Mathematics and statistics for science**

**Duration:** 4 months

**Course Contents:**

Sr.No	Module
1	Algebraic foundation Introduction to statistics
2	Basics of Trigonometric
3	Plotting of Graphs
4	Matrices
5	Integration
6	Derivative
7	Probability

**DEPARTMENT OF PHYSICS**

**Title :Bridge Course in Mathematical Physics.**

**Duration:** 6 months

**Course Contents:**

Sr. No.	Module
1	Vector & scalars
2	Line & plane
3	Graphical method
4	Newtons method of differentiation
5	Concept of integration
6	Numerical method of iteration
7	Wave equation

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

**Title : BRIDGE COURSE IN COMPUTER PROGRAMMING FUNDAMENTAL**

**Duration : 4 months**

**Course Contents :**

<b>Sr. No.</b>	<b>Module</b>
1	Introduction to Computers and Programming
2	Principles of Operating Systems
3	Programming, Data Structures, and Algorithms
4	Foundations of Computer Science
5	Computational Problem Solving (using Python and C)