Digboi College ডিগবৈ মহাবিদ্যালয়
ESTD 1965
Itavata, Digboi, Assam - 786171
Phone & Fax: 03751-264416 Email: digboicollege@yahoo.com Website: digboicollege.edu.in

Course Outcome Exemplars from Glossary

Course Code: PHYSICS C-VI
Course Title: THERMAL PHYSICS
Nature of the Course: Core
Total Credits assigned: 06
Distribution of credit: Theory – 04, Practicals-02

Course Objectives: At the completion of this course, a student will be able to

1. Develop knowledge on the classical laws of thermodynamics and their application
2. Use the knowledge of thermodynamics in various applications in allied fields like Materials science, Condensed matter Physics, Atmospheric Physics, Solar Physics, etc.
3. Probe questions in varied fields of Physics, chemistry and biology based on principles of Thermal Physics.

Semester IV

Course Code: PHYSICS-C-VIII
Course Title: MATHEMATICAL PHYSICS-III
Nature of the Course: Core
Total Credits assigned: 06
Distribution of credits: Theory – 04, Practicals-02

Course Objectives: At the completion of this course, a student will be able to

1. Write a problem in Physics (slightly more advanced than those in Mathematical Physics I and II) in the language of mathematics.
2. Identify a range of diverse mathematical techniques/ideas to formulate, simplify and solve some problems in Physics.
3. Analyze some of the useful mathematical ideas and techniques.
4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of fundamental topics in Physics.
5. Construct a problem in Physics computationally and use simulations to design an experiment.

CORE COURSES

Course Code: PH-C-I
Course Title: Mathematical Physics
Nature of the Course: Core
Total credits assigned: 04
Distribution of credits: Theory-3, Tutorial-1

(1) To impart the knowledge of vector spaces and matrices that is relevant to the study of quantum mechanics.
(2) To develop the working knowledge on partial differential equations (homogeneous and inhomogeneous).
(3) To familiarize the learners with the basics of group theory and properties of Lie groups.
(4) To familiarize the learners with the basics of tensor analysis and to introduce important topics specifically relevant to the theory of relativity.

LSD106: C. ENTOMOLOGY-I

INSECT DIVERSITY AND EVOLUTION

Credits: 4

Marks: 100

1. Introduction to insects: Morphology, External features.
2. Classification of insect: Basis of insect classification upto orders. Origin and evolution of insects, modern concept of insect identification.
3. Classification of economically important groups upto super family/family
4. Comparative study of head, antennae, mouthparts.
5. Comparative study of legs, wings, abdominal appendages, genitalia
6. Insect societies : Groups of social insects and their societies , honey bees, aphids

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Course code: ELECTRONICS-C-2
Course title: MATHEMATICS FOUNDATION FOR ELECTRONICS
Nature of the course: CORE
Total Credit assigned: 06
Distribution of credit: Theory – 04, Practicals-02

Objective of the course: At the completion of this course, a student will be able to

1. Acquire the mathematical skills and learn the techniques that are necessary to embark on the field of electronics.
2. Identify, formulate and solve complex problems in mathematics.
3. Gain the mathematical foundation, including differentiation and integration, multi-variable calculus, linear algebra, differential equations, complex variables, probability and statistics etc. which will help in the study of the broad subject electronics in a much convenient way
4. Apply this knowledge towards modelling and solution of problems in electronics with the help of advanced mathematics that this course provides.

Expected Learner Outcomes: This course will enable the students to

1. Apply concepts to do mathematical modelling and analysis of numerical methods.
2. Develop their knowledge and skills for electronics, through a specialist pathway.
3. Perform independent research to help define the frontiers of knowledge in electronics or related interdisciplinary areas.

Semester II

Semester-I

Course Code: BC101T
Core Course I: Microbiology and Phycology

The objective of this course is to provide knowledge to the students on various forms of microbes and algae - their characteristics and economic importance.

(Credits: Theory-4, Practical-2)

Course Code: BC102T
Core Course II: Biomolecules and Cell Biology

The objective of this course is to expose the students on molecular organisations life and also discusses cellular and molecular processes of life.

(Credits: Theory-4, Practical-2)

Course Code: BC203T
Core Course III: Mycology and Phytopathology

The objective of this course is to expose the students on the fungal world, different fungal diseases; their economic importances etc.

(Credits: Theory-4, Practical-2)

B.Com. (Hons) CBCS **Semester: V**

Course No.: C 511 **PRINCIPLES OF MARKETING**

Marks: 100 (Internal Assessment 20 + Term End 80)
Lecture: 60 Tutorial: 4

Objective: The objective in this course is to help students to understand the concept of marketing and its applications.

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B.Com. (Hons) CBCS **Semester: V**

Course No.: DSE 501 G I MANAGEMENT ACCOUNTING

Marks: 100 (Internal Assessment 20 + Term End 80)
Lecture: 60 Tutorial: 4

Objective: This course provides the students an understanding of the application of accounting techniques for management.

B.Com. (Hons) CBCS **Semester: V**

Course No. DSE 502 G I Advanced Financial Accounting

Marks: 100 (Internal Assessment 20 + Term End 80)
Lecture: 60 Tutorial: 4

Objective: The basic aim of this paper is to acquaint the students with advanced topics in accounting.

B.Com. (Hons) CBCS **Semester: V**

Course No. DSE 501 G III Consumer Behaviour

Marks: 100 (Internal Assessment 20 + Term End 80)
Lecture: 60 Tutorial: 4

Objective: The course aims at perceiving the students the principle factors influencing Consumer Behaviour and Consumer Market.