

# **Report Bridge Course**

## **Session 2024-25**

A **bridge course** at the start of a college session is designed to help students transition smoothly into their new academic environment, particularly when shifting from school-level to college-level education. This is typically offered across various faculties like BSc, BA, BCom, etc., and its objectives and curriculum are tailored to equip students with foundational knowledge, skills, and academic strategies for their specific streams. Here's an overview of the objectives and curriculum for a general bridge course in these faculties:

### **Objectives of a Bridge Course**

1. **Smooth Transition:** Help Students to Bridge the gap between school education and college-level academic demands.
  2. **Foundation Strengthening:** Provide a refresher of core concepts in key subjects, focusing on areas where students may face difficulties.
  3. **Skill Development:** Introduce academic skills such as critical thinking, research methods, time management, note-taking, and study techniques.
  4. **Exposure to College Environment:** Familiarize students with college facilities, faculty expectations, and academic culture.
  5. **Confidence Building:** Instill confidence in students by giving them a basic grounding in their major subjects before the regular syllabus begins.
  6. **Interdisciplinary Learning:** Encourage a holistic view of learning by exposing students to areas outside their specialization.
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### **For BSc (Science Faculty)**

#### **Department of Mathematics**

##### **Basics of Mathematics:**

- Arithmetic, algebra, basic calculus, and data interpretation skills.

##### **Introduction to Scientific Methods:**

- Hypothesis testing, experiments, observation, data collection, and interpretation.

**Department of Physics:** Basic mechanics, units, and measurements.

**Department of Chemistry:** Atomic structure, periodic table, and chemical bonding.

#### **Department of Botany and Zoology:**

- Overview of the biological sciences, the scientific method, and basic experimental design. Hypothesis formulation and testing, importance of controls in experiments.

- Structure and function of cells (plant and animal), organelles, and basic metabolic processes (photosynthesis, respiration). DNA, Fundamentals of Ecology, Importance of biodiversity and conservation biology.

### **For BA (Arts Faculty)**

#### **Department of English and Hindi**

##### **Critical Thinking & Writing:**

- Essay writing, critical analysis, and reading comprehension.
- Verbal and non-verbal communication, public speaking, presentation skills.

##### **Introduction to Humanities:**

- Introduction and Overview of subjects like Economics, history, political science, geography, sociology, etc by all the respective departments.

#### **Department of Philosophy and Education**

##### **Ethics and Values:**

- Understanding academic integrity and professional ethics.
- Time management, stress management, teamwork, leadership, and self-motivation.

#### **Department of Commerce**

##### **Basic Accounting:**

- Introduction to bookkeeping, balance sheets, ledgers, and financial statements.

##### **Mathematics for Business:**

- Percentages, ratios, simple and compound interest, and profit/loss calculations.

##### **Economics Fundamentals:**

- Introduction to micro and macroeconomics, demand and supply, market structures.

##### **Commerce and Business Environment:**

- Overview of business structures, commerce trends, and global trade.

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#### **Department of Computer Science and BCA**

##### **Digital Literacy:**

- Introduction to MS Office (Word, Excel, PowerPoint), use of internet and online learning platforms.

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**Assessment and Feedback**

- **Diagnostic Tests:** At the start of the course to understand students' current knowledge levels.
- **Interactive Sessions:** Discussions, group activities, and case studies to encourage active learning.
- **Feedback Mechanism:** Continuous feedback on performance, areas of improvement, and strategies for better learning.

This bridge course not only lays the foundation for academic success but also aids in personal development, helping students adjust to the new challenges of college life.

**Principal**