



## **PROGRAMME OUTCOME: BACHELOR OF COMMERCE**

**Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Tulungia**

**North-Salmara, Bongaigaon, Assam-783383**

A Bachelor's degree in Commerce is designed to aware students of the various aspects of business and commerce as well as to equip them with the necessary knowledge, skills, and competencies to succeed in a variety of careers in the business world. Therefore, the degree covers a range of subjects, including accounting and taxation, finance, economics, marketing, human resource management, entrepreneurship, e-commerce, business law, company law, business mathematics and statistics, environmental studies, computer application in business, soft skills and business communication. Thus, under the CBCS system, the students are imparted knowledge relating to various courses, viz., Core Course, Ability Enhancement, Generic Elective, Skill Enhancement, and Discipline Specific Elective. Upon completion of a Bachelor's degree in Commerce, graduates will have a broad understanding of the business spectrum and the skills to work in a variety of roles, such as accounting, finance, marketing, management, or consulting (financial analysts, business analysts, tax consultant, etc. ). Thus, the programme outcome of graduating in Commerce can include:

- To inculcate a strong understanding of business principles, including accounting and taxation, economics, finance, and marketing.
- To develop analytical and problem-solving skills, which are important in the business world. They will be able to use quantitative and qualitative data to identify and solve problems.
- To familiarise students with the process for performing commercial transactions via electronic means.
- To impart a basic understanding of legal and regulatory frameworks that govern businesses. They will be able to interpret and apply these regulations in their work.
- To make them learn about how to work effectively in a team environment. They will be able to collaborate with others to achieve common goals.
- To make them aware of ethical and social issues in the business world.
- To inculcate business communication skills and make them able to communicate effectively with clients, colleagues, and stakeholders.
- To impart computer skills and knowledge to commerce students, as well as to develop their understanding of the use of information technology tools in business operations. The importance of computer education can be perceived in the area of Accounting and Finance, Business Analytics, E-Commerce, Business Communication and Career Opportunities.

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## **PROGRAMME OUTCOME: BACHELOR OF SCIENCE**

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**North-Salmara, Bongaigaon, Assam-783383**

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The college adheres to the syllabi for the B.Sc. programme offered by the Gauhati University. In the science stream, the college provides the Bachelor of Science degree in Botany, Chemistry, Mathematics, Physics and Zoology.

Through the Bachelor of Science programme, the student can acquire the knowledge of science which helps them to understand the phenomena behind the various events taking place in their surroundings. Each subject in its own provide several inputs to the mind of young students and this in result can ignite young minds to observe, analyse and interpret data. Also, students develop a healthy dose of skeptical thinking which in turn helps them in understanding the things in a more insightful manner. By studying this course, students can develop a scientific temperament among themselves. The students can learn various laboratory techniques and develop laboratory skills via hands on experiences with diverse experimental techniques and tools. They also learn several approaches to data analysis and can apply the computational techniques to solve various problems. Through the knowledge of science, the students can make a powerful impact to the society by making them aware about environmental hazards, and the factors affecting them along with practical solution. After getting the degree of B. Sc, the students can continue their higher studies in different fields of science and also pursue research in future. Again with the B. Sc. degree the students can find employment in the different fields as per their subjects as it opens door to several opportunities for pursuance.

### **Programme specific outcome of different subjects:**

#### **B.Sc. in Physics:**

At the end of this program, the students will learn the basic concepts of mechanics, properties of matter, electricity, magnetism, thermodynamics, optics and spectroscopy. They will be able to design, construct and analyze the basic electronics and digital circuits. They will learn how to identify, formulate and analyze complex problems using basic properties of mathematics, physics and statistics. Through quantum mechanics they will be familiar with modern physics. The students will learn the basic programming language and apply it to various numerical problems. In a nutshell, after successful completion of this course, the students will be able to

critically study a physics problem and solve the problem using different tools and analyze the result. They will develop a good communication skill through which they can explain complicated physics problem in a simplified way. They will also develop experimental skill which will help them to undergo research in future.

### **B.Sc. in Chemistry:**

On successful completion of the programme the students will be able to-

- Demonstrate and apply the fundamental knowledge of the basic principles in various fields of Chemistry
- Apply various aspects of chemistry in the field of natural products isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach of the subject.
- Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to Environmental pollution.
- Apply knowledge to build up small scale industry for developing endogenous product.
- Apply the knowledge to develop sustainable and eco-friendly technology in Industrial Chemistry.
- Collaborate effectively on team-oriented projects in the field of Chemistry or other related fields.
- Communicate scientific information in a clear and concise manner both orally and in Writing.
- Inculcate logical thinking to address a problem and become result oriented with a positive attitude.
- Enhance the scientific temper so as to develop a research culture and implementation of the policies to tackle the burning issues at global and local level.

### **B.Sc. in Zoology:**

The B.Sc. CBCS Zoology programme of PDUAM Tulungia is under Gauhati University. The programme aims to provide students with a comprehensive understanding of the principles of zoology, including animal anatomy, physiology, genetics, ecology, behavior, evolution, and taxonomy. Through a curriculum that emphasizes practical knowledge of laboratory experiments and field research, students develop scientific skills, critical thinking skills, and ethical awareness in animal research and animal welfare practices. The program fosters interdisciplinary learning by integrating knowledge from different scientific disciplines, developing effective communication skills, and promoting biodiversity conservation awareness. Graduates will gain a solid foundation in animal science, ethics, interdisciplinary knowledge, and communication skills that will open them up to diverse career opportunities in research, conservation, education, and related fields, as well as ethical practices and environmental protection efforts.

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### **B.Sc. in Mathematics:**

The completion of this program shall enable a student to communicate mathematics effectively by oral, written, computational and graphic means. They will be able to create mathematical ideas from basic axioms, gauge the hypothesis, theories, techniques and proofs provisionally. They will learn how to utilize mathematics to solve theoretical and applied problems by critical understanding, analysis and synthesis and will be able to identify applications of mathematics in other disciplines and in the real world, leading to enhancement of career prospects in a plethora of fields. Through this course the students will appreciate the requirement of lifelong learning through continued education and research.

### **B.Sc. in Botany:**

At the end of this program, students will develop a clear conception of various areas of plant sciences. Students will acquire depth and breadth of knowledge/expertise in the field of Plant Identification. They will be able to identify the major groups of plants and be able to classify them within a phylogenetic framework. They will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life. Students will be able to use the evidence of comparative biology to explain the theory of evolution for the unity and diversity of life on Earth. They will be able to use specific

examples to explain how modification has shaped plant morphology, physiology, and life history. Students will be able to explain the functions at the level of gene, genome, cell, tissue, and flower development of plants. They can also be able to give specific examples of physiological adaptations, reproductions, development, and mode of life cycle of different forms of plants. They will understand the economic importance of plants and their uses for social welfare. They will learn about bioinformatics tools and databases and the application of statistics to biological data. They can also be able to give specific examples of physiological adaptations, reproductions, development, and mode of life cycle of different forms of plants. Students will be able to explain the ecological interconnections among different life forms on Earth by tracing nutrient and energy flow through the environment and structure of populations, communities, and ecosystems. After successful completion of the course, students will be able to explain the experimental techniques and methods of analysis for their area of specialization within biology. Altogether, the program emphasizes improving employability skills corresponding to plant sciences among the students and nurturing and improving research interest among the students to address various modern-day challenges in plant sciences.

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