

**Mangaon Taluka Education Society's**  
**Doshi Vakil Arts College and G.C.U.B. Science &**  
**Commerce College, Goregaon-Raigad**

**PROGRAM OUTCOMES (PO), PROGRAM-SPECIFIC OUTCOMES (PSO),  
COURSE OUTCOMES (CO)**

**BACHELOR OF SCIENCE (B.Sc.)**

**Program Outcome (PO)**

PO1 - The purpose is to develop B.Sc. students so that they may form a highly productive and constructive unit of society. This enables them to serve society better. It is expected from a science graduate to have a scientific temperament that encompasses certain qualities like analytical thinking, problem-solving, reasoning, creative thinking, critical analysis, researcher attitude, and approach. This will go with the framework of the law of nature and facts. The goal is to impart such distinctive qualities to a science graduate, which should be the outcome of the B.Sc. program.

PO2 - Keeping the program outcome in mind, we will provide quality education in pure science to the students of this area, which is predominantly rural. And the very objective is to prepare a science student of the distinctive quality who can be self-sufficient in making their career and become part of the development system of the nation. Implicitly this has been carried out by-product, i.e. by a quality student who gets a proper place in one's career and the society.

**Program Specific Outcome (PSO)**

PSO-1. Gain the knowledge of Science subject through theory and practicals.

PSO-2. Create an awareness of the impact of science on the environment, society, and development outside the scientific community.

PSO-3. Use a modern tool, technique, or software.

PSO-4. Solve the problem and also think methodically, independently and draw a logical conclusion

PSO-6. Understand good laboratory practices and safety.

PSO-7. Develop research-oriented skills.

PSO-8. Make aware and handle the sophisticated instruments/equipment.

## T.Y. B.Sc. V & VI Sem

Sr.No.	Course Name	Course Outcome
1	<b>Physical chemistry</b>	<ul style="list-style-type: none"><li>❖ To impart skills in Kinetics and Chemical Reactions.</li><li>❖ Know the qualitative properties of the solution, the depression in freezing point, elevation in boiling point, and osmotic pressure.</li><li>❖ Learn the molecular spectroscopy, Raman spectra, Electronic and Mossbauer, ESR, NMR, and their application.</li><li>❖ Realize the terms ionic strength, activity coefficient, and Debye-Huckel equation.</li><li>❖ Study Nuclear Chemistry &amp; polymer chemistry.</li><li>❖ Solve the cell reaction and calculate EMF.</li><li>❖ Understand the De-Broglie hypothesis and Uncertainty principle</li></ul>
2	<b>Inorganic Chemistry</b>	<ul style="list-style-type: none"><li>❖ Upon successful completion, students should be able to: Describe bonding models that can be applied to consider the properties of transition metal compounds.</li><li>❖ The students are familiar with the inorganic halogen compounds, coordination compounds, and transition elements.</li><li>❖ They get well exposure to solids. This course gives an introduction to the basic concepts of solid state chemistry. Topics covered include coordination chemistry, MO and VB theories, and silicates theories.</li><li>❖ Find out the point group of inorganic molecules.</li><li>❖ Learn molecular orbital and its orientation.</li><li>❖ Learn the concept of symmetry elements in molecules.</li><li>❖ Study the electronic configuration &amp; properties of lanthanides and actinides.</li></ul>

3	<b>Organic chemistry</b>	<ul style="list-style-type: none"> <li>❖ Students of T.Y. BSC acquired knowledge about organic reactions' synthesis and mechanism. From spectroscopy, students have interpreted the spectra and determined the structure of organic molecules. This is helping them in various research activities.</li> <li>❖ Study the various name reaction with examples.</li> <li>❖ Learn the mechanism of rearrangement reaction, and use synthetic reagents of oxidation and reduction for solving the problems.</li> <li>❖ Understand the factors affecting UV-absorption spectra, Interpret IR spectra on basic values of IR frequencies.</li> <li>❖ Discuss the problem of UV, IR, and NMR.</li> </ul>
4	<b>Analytical chemistry</b>	<ul style="list-style-type: none"> <li>❖ Study Voltammetry and Polarography as an analytical tool.</li> <li>❖ Measure the absorbance of atoms by AAS.</li> <li>❖ To understand different types of separation techniques.</li> <li>❖ To study the principle, construction, and working of GC and HPLC.</li> <li>❖ To give comprehensive knowledge about chromatographic techniques used to separate amino acids.</li> <li>❖ Discuss the problem based on distribution coefficient and extraction techniques.</li> </ul>
5	<b>Drugs &amp; Dyes</b>	<ul style="list-style-type: none"> <li>❖ This course gives an idea about the cause of disease synthesis of drugs.</li> <li>❖ Use of dyes, synthesis of dyes, and observed effect of dyes industries on the environment.</li> </ul>

# **Faculty of Arts (B.A.)**

## **Department: History**

### **Program Outcome**

The B.A. graduates will be acquainted with the social, economic, historical, geographical, political, ideological, and philosophical traditions and thinking.

- ❖ The B. A. program enables the students to acquire knowledge of human values framing the base to deal with various problems in life with courage and humanity
- ❖ A responsible, dutiful citizen of a country with character.
- ❖ The ability of critical thinking and creativity.

### **Program Specific Outcomes**

#### **Mechanism of communication of PSOs and COs**

- The Programme Specific Outcomes and the Course Outcomes of the UG (in History) program are communicated to the students and teachers by placing them in the college website
- Displaying them on the college notice boards at the beginning of the academic year.
- Module wise syllabus discussing students through presentation (PPT) at the beginning of each semester.

#### **Students shall be able to:**

- Students learned the history of India (especially the making of modern India and the struggle for independence) and landmarks in world history.
- Understand the facts, chronology, and scope of Indian History.
- Enable the students to understand the political, socio-economic, and cultural developments in the medieval age.
- Students have accurate knowledge of the most significant events and personalities of the period under study and encourage to understand the making of the modern world.

### **Course Outcome**

<b>Sr. No</b>	<b>Course / Paper Title</b>	<b>Outcome</b>
<b>3</b>	a) Core Course IV History of Medieval India (1000 CE – 1526 CE) Semester - V  b) Core Course V History of Modern Maharashtra (1818 CE-1960 CE) Semester - V	<ul style="list-style-type: none"><li>• Acquaint the students with the history of early Medieval India that laid the foundation of the Sultanate in India. Students can study the contribution of Vijayanagar and Bahamani kingdoms to Medieval Indian History. They can examine the administrative, socio-economic and cultural aspects of Medieval India.</li><li>• Acquaint students with regional history. To understand political and socio-economic developments during the 19th and 20th centuries. To create an understanding of the movement that led to the formation of Maharashtra.</li></ul>

Sr. No	Course / Paper Title	Outcome
	<p>c) Elective Course VI A (With Project) Introduction to Archaeology Semester – V</p> <p>a) Core Course IV History of Medieval India (1526 CE – 1707 CE) Semester – VI</p> <p>b) Core Course V History of Contemporary India (1947 CE- 2000 CE) Semester – VI</p> <p>c) Elective Course VI A (With Project) Introduction to Museology and Archival Science Semester – VI</p>	<ul style="list-style-type: none"> <li>• Inform students about Archaeology. To familiarize students with the various types of Archaeology Sources. iv. To acquaint the students with the history of India since the emergence of the Mughal rule. To understand the administration of the Mughal Empire. To study the rise of the Maratha Power.</li> <li>• Students can understand the process of making the Constitution and the Integration and Reorganization of Indian States, acquaint the students with the political developments in India after Independence, and comprehend the socio-economic changes and progress in science and technology in India.</li> <li>• Students can acquaint students with the various types of Museology. To inform students about the developments in Archival Science.</li> </ul>

# Department of Marathi

## Course Outcomes

Class	Semester	Course	Outcomes
T.Y.B.A.		Marathi Paper – IV	1. From the study of inscriptions, students understand the origin of the Marathi language and the development period of Marathi.
			2. The study of different sects and their literature from the medieval period.
			3. Students are introduced to the scholarly literature of that period.
			4. Students are introduced to the prose and verse literature of the medieval period.
		Marathi Paper – V	5. Students get the teachings of equality and brotherhood from medieval saint literature.
			1. Students are introduced to Indian literature.
			2. Students can study the theories put forward by different literary scientists in Indian literature. This study helps students understand ancient literature.
			3. Students are introduced to Western literature.
			4. Students can study the theories laid down in Western literature.
		Marathi Paper – VI	
			1. Students are introduced to the relationship between literature and society.
			2. Students can study the interrelationships between literature and society through different literary works.
			3. Students can study literary works in different literary streams.

## **Department of Geography - Semester V**

### **Course (Paper) Name and No.: Geography of Settlements**

- CO1 Understand the nature and scope of Settlement Geography and the characteristics of rural and urban settlements.
- CO2 Understand the structure of houses and building materials and regional variations of rural settlement in India.
- CO3 Understand the history of world settlements and factors responsible for world settlements.
- CO4 Understand the classification and morphology, pattern and nature, and process of rural and urban settlements
- CO5 Understand the process of urbanization, urban problems, and smart cities in India.

### **Course (Paper) Name and No.: Geography of Maharashtra**

- CO1 Understand the location, administrative setup, and geographical personality of Maharashtra
- CO2 Understand the drainage and climate in Maharashtra
- CO3 Understand the natural and human resources of Maharashtra
- CO4 Understand the agriculture, fishing, and livestock resources in Maharashtra.
- CO5 Understand the growth and development of industries, trade, and transport in Maharashtra

### **Course (Paper) Name and No.: Tools and Techniques in Geography for Spatial Analysis-I (Practical)**

- CO1 Understand the basic concept and types of map projections.
- CO2 Understand the Basic Elements of a map and able to area calculation.
- CO3 Able to read and interpret topographical maps.
- CO4 Able to use the computer with basic Microsoft and SPSS software.
- CO5 Able to prepare the thematic maps by using different techniques of data analysis by using the GIS software

## **Semester VI**

### **Course (Paper) Name and No.: Environmental Geography**

- CO1 Understand the nature, scope, importance, and man-environment relationship in Environmental Geography
- CO2 Understand the Structure, functions, and types of the ecosystem.

- CO3 Acquire knowledge about biodiversity and its importance and Management.
- CO4 Understand the concept, types, distribution, and hotspots of biodiversity
- CO5 Understand environmental problems their Cause, Effects, and Remedies.

**Course (Paper) Name and No.: Geography of Tourism and Recreation**

- CO1 Understand about nature, scope, development, and factors of tourism development
- CO2 Understand infrastructure and ancillary services for tourism
- CO3 They understand about types and impacts of tourism
- .CO4 Understand Planning and organization of tourism
- CO5 Understand the potential of tourism sectors in Maharashtra and India
- CO6 Know about national tourism policy.

**Course (Paper) Name and No.: Tools and Techniques in Geography for Spatial Analysis-II(Practical)**

- CO1 Understand the Meaning and types of data and its presentation.
- CO2 Understand and able to solve the examples of measures of central tendency, dispersion and deviation and correlation, regression, and hypothesis testing.
- CO3 Able to collect and analysis of data sampling.
- CO4 Able to collect the field data, it's processing and writing of research report.



# **BACHELOR OF COMMERCE (B.Com.)**

## **Program Outcome (PO)**

PO1 - The students will be ready for employment in functional areas like accounting, Marketing, Management, Advertising, Economics, and business law.

PO2 - Learners will gain knowledge of various disciplines of commerce, business, accounting, economics, finance, auditing, and marketing. It aims toward the success of students in Research, Inventions, Industrial jobs, and contributions in Nation building.

## **Program Specific Outcome (PSO)**

PSO 1 - Students will learn relevant managerial and accounting career skills, applying both quantitative and qualitative knowledge to their future careers.

PSO 2 - Students have choices to pursue professional courses such as CA, M.COM, MBA, CMA, ICWA, CS, etc

PSO 3 - Students can play roles of businessmen, entrepreneurs, managers, and consultants, which will help learners to possess knowledge and other soft skills.

PSO 4 - Students will acquire the skills of effective communication, decision making, and problem-solving that can be used at personal and professional levels.

PSO 5 - Learners will be able to be involved in various co-curricular activities to demonstrate the relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.

## **T.Y.B.Com. (Sem V & VI)**

<b>Sr.No.</b>	<b>Course Name</b>	<b>Course Outcome</b>
1	Financial Accounting	<ul style="list-style-type: none"><li>❖ Creates awareness about company accounts with the provision of various companies acts.</li><li>❖ Provides knowledge about the buyback of shares, and investment accounts with their accounting treatment.</li><li>❖ Imparts knowledge about the accounting treatment of amalgamation of companies, Foreign currency transactions.</li><li>❖ Helps students in gaining practical knowledge of accountancy.</li></ul>
2.	Cost Accounting	<ul style="list-style-type: none"><li>❖ Impacts the knowledge of various costs based on element behaviour and functions.</li><li>❖ Helps in ascertaining the cost of materials and labour.</li><li>❖ Creates an understanding of the various techniques of costing like Contract, Process, Standard, and Marginal.</li><li>❖ Imparts knowledge of the various emerging concepts of cost accounting like cycling costing, Bench Marking, etc.</li></ul>
		<ul style="list-style-type: none"><li>❖ Intercepts and familiarizes students with different and basic concepts of the marketing mix, MIS, and Marketing Research.</li></ul>

3.	M.H.R.M	<ul style="list-style-type: none"> <li>❖ Updates students about marketing challenges faced by marketing managers in the 21st century.</li> <li>❖ Makes students aware of competitive strategies for market leaders, and various aspects of the market.</li> <li>❖ Refurbishes students with fundamental aspects of HRM, the role, functions, and process of HRM.</li> <li>❖ Explains to students the applications of HRIS and different theories of leadership and motivation.</li> <li>❖ Updates learners with recent trends in HRM and makes students aware of challenges faced by HR managers</li> </ul>
4.	Marketing Research	<ul style="list-style-type: none"> <li>❖ The student should be able to</li> <li>❖ Understand the process of marketing research and its different processes</li> <li>❖ Identify sources of information</li> <li>❖ Understand different research methods</li> <li>❖ Apply selected research methods</li> <li>❖ Analyze and interpret both qualitative and quantitative data.</li> <li>❖ Build a simple questionnaire from a web-based survey administration site.</li> </ul>
5.	Export Marketing	<ul style="list-style-type: none"> <li>❖ Furnishes learners with basic concepts and a global framework for export marketing.</li> <li>❖ Instructs learners about basic financial incentives and updates them with current trends in export marketing.</li> <li>❖ Provides information regarding product planning and pricing decisions for export marketing.</li> <li>❖ Instructs students regarding various sources of export finance and provides knowledge regarding export procedures and documentation.</li> </ul>
6.	Business Economics	<ul style="list-style-type: none"> <li>❖ Assess the performance of commercial banks in agricultural credit.</li> <li>❖ Identifies and explains economic concepts and theories related to the behavior of economic agents, markets, industry legal institutions, social norms, and government policies.</li> <li>❖ Creates an understanding of the nature of International Trade and the nature of international organizations such as the United Nations, the International Bank for Reconstruction and Development (World Bank), the International Monetary Fund, World Trade Organization and their effects on business.</li> <li>❖ Creates an understanding of the rate of exchange and how the rate of exchange is determined.</li> </ul>

