

### **Arts & Commerce College**

Warwat Bakal Tq. Sangrampur Dist - Buldhana (M.S.)

- Principal -Dr. Shriram Yerankar M.A., M.Phil, Ph.D. 9423722316 NAAC Reaccredited with 'B' Grade

College Code: 327

- President -Shri. Krushnarao Ingle (Ex. M.L.A.)

(EX. M.L.A.) 07266-221449

Website: www.acscwb.co.in

E-mail: 327accwb@gmail.com

Criterion II: Teaching- Learning and Evaluation

#### 2.6 Student Performance and Learning Outcome

Session-2023-2024

#### **Supporting Documents**

Metric No.	Sr. No.	Content / File Description	Document Link
2.6.1.	A	Teachers and students are aware of the stated Programme & Course outcomes of the Programme offered by the institution.	

SATPUDA EDUCATION SOCIETY, JALGAON JAMOD'S

# ts & Commerce College

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#### **CERTIFICATE**

This is to certify that the documents attached as supporting documents for Criterion II: Teaching, Learning and Evaluation are verified from the college record and found to be correct to the best of my knowledge.



Warvat Bakar Dist. Buldana Arts & Commerce College Warvat Bakal Dist- Buldana

# 2.6.1 Program & course outcomes for all programs offered by the Institution are stated & displayed on website & communicated to teachers & Students.

The website link For Program & course outcomes For All Programs

https://acscwb.co.in/wpcontent/uploads/2023/06/PO-PSO-CO.pdf

The institution emphasizes outcome-based education, fostering critical thinking, problem-solving skills, experiential, and participative learning. Aligned with Sant Gadge Baba Amravati University's syllabi, the university frames learning outcomes (PO, PSO, and CO) for its undergraduate and postgraduate programs and are mentioned in prescribed syllabus of the respective course and program. These outcomes are prominently displayed on the college website and departmental notice boards. They are communicated to students during the annual induction program by the Principal, IQAC coordinator, and senior faculty members. Subject teachers also share these outcomes during classroom sessions, and they are accessible in departments and the library.

#### ARTS & COMMERCE COLLEGE, WARVAT BAKAL

#### BA COURSE OUTCOMES (COs) old syllabus

#### B.A. Part I (English Compulsory)

By completion of this course students will be able -

- 1) To understand the use of parts of speech and tenses
- 2) To write personal, business letters.
- 3) To write Curriculum Vitae properly.
- To construct sentences of English Language.
- 5) To able to use verb forms properly.
- 6) To construct story Building.7) To compose Fax and Email.
- 8) To write notices, Agendas and Minutes.

#### B.A. Part II (English Compulsory)

By completion of this course students will be able -

- To construct and use of simple, complex and compound sentences.
- 2) To employ interpersonal conservations.
- To employ casual conversations.

#### B.A. Part III (English Compulsory)

By completion of this course students will be able -

- 1) To develop reading skills.
- 2) To develop speaking skills.
- 3) To develop listening skills.
- 4) To develop writing skills.

#### B.A. Part I (History)

By completion of this course students will be able -

- 1) To understand the genesis of history and the development of history writing in India.
- 2) To understand the sources of ancient India and the Civilizations like Indus and Aryan.
- 3) To understand the history of Ancient India.
- 4) To understand the roles of Mourya, Gupta and Vardhana Empires in India.

#### B.A. Part II (History)

By completion of this course students will be able –

- 1) To understand the formation, expansion and consolidation of *Sultanet Shahi* and Mughal Empire.
- To understand the formation, expansion and consolidation of British Empire in India under East India Company.
- 3) To understand the consequences of national Movement in India.

#### B.A. Part III (History)

By completion of this course students will be able –

- To understand the changes of Europe after the French Revolution and Political changes in Asian and African Countries.
- 2) To understand the causes of I and II World War.
- To understand the formation of UNO to maintain peace around the world.
- To understand the conflict of democracy and Socialism after Second World War.
- To understand the emergence of Cold War.
- 6) To understand the World History.

#### B.A. Part I (Political Science)

By completion of this course students will be able-

- To understand the rights of the President and the Governors
- 2) To understand the principles of the different Political Parties.
- 3) To understand the duties of Prime ministers and Cabinet.
- 4) To understand the function of opposite Parties.
- 5) To understand the duties and rights of the parliament and Supreme Court.

#### B.A. Part II (Political Science)

By completion of this course students will be able-

1) To understand the administration and laws of England,

America and China.

- 2) To understand the Presidential and Parliamentary Democracy.
- 3) To understand the political happening of SAARC and Other countries.
- To understand the structure and function of united nation Organizations (UNO).

#### B.A. Part III (Political Science)

By completion of this course students will be able-

- To understand Ways to make the democracy successful.
- 2) To understand Western and Indian Political thoughts.
- 3) To understand the concept of state of Mahatma Gandhi and Aristotle
- To understand the nationalist thought of Vivekananda.
- 5) To understand the principles of democracy of Bejhot, Abraham Lincoln and Dr. B.R.Ambedkar.

#### B.A. Part I (Economics)

By completing this course, students will be able

- To get the knowledge of the basic principles of Economics.
- 2) To get the knowledge of the basic concepts in Economics.
- 3) To get the knowledge of the demand supply and market structure.
- 4) To learn the nature of Maharashtra Economy.

#### B.A. Part II (Economics)

By completing this course, students will be able

- 1) To know the basic concept and theories of Macro Economics.
- 2) To learn the structure of Indian Banking System.
- 3) To get the information of the role of RBI in Indian economy.
- 4) To learn the information of the role IMF, World Bank, WTO in Indian Economy.
- 4) To get the knowledge of the employment and inflation theories.

#### B.A. Part III (Economics)

By completing this course, students will be able:-

- 1) To learn the basic concept and theories in Demography Science.
- 2) To get the knowledge of Indian Population issues.
- 3) To learn the structure of Indian Economy.
- 4) To get the knowledge of the basic economic problems and their solution in Indian Economy.
- 5) To learn the concept of Environment.

#### B.Com. PROGRAM OUTCOMES (POs)

After the completion of B. Com. program the students are able to:

- PO1. Acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice.
- PO2. To develop Numerical ability.
- PO3. Acquire the accounting knowledge, management principles, retail trading, banking and insurance transactions, business economics and financial management.
- PO4. Acquire knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge relating to corporate law and business
- PO5. Do a business of their choice or choosing a profession or can become employees having basic knowledge and skill required for such activities.

#### **B.Com. PROGRAM SPECIFIC OUTCOMES (PSOs)**

PSO 1: The students can get the knowledge, skills and attitudes during the end of the B.com degree course.

PSO 2: By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, Cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents and Government employments and so on.

PSO 3: Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC, UPSC as well as other courses.

PSO 4: The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.

PSO 5: Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.

PSO 6: Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator as well as other financial supporting services.

PSO 7: Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO 8: Students will be able to do their higher education and can make research in the field of finance and commerce.

#### **B.Com. COURSE OUTCOMES (COs)**

#### SEM I COMPUTER FUNDAMENTAL AND OPERATING SYSTEM -I

To impart basic knowledge about Computer, Word Processing, Fundamentals of Computer, Computer Organization, Memory organization of Computer, Concept, Types, Input / Output Devices, Word Processing Formatting Document.

#### **PRINCIPLES** SEM **ECONOMICS**

To impart Economic Laws, Nature, Characteristics, Limitation & Importance, Utility Approach, Elasticity of Demand, Production Function, Cost and Revenue. SEM I ADVANCED

#### **ACOOUNTANCY**

Accounting basic impart To Knowledge as applicable to business, Accounting Transactions, Rectification of errors, Sub-sidiary Book, Cash Book, Depreciation Methods, Bank Reconciliation statement.

#### SEM I PRINCIPLES OF BUSINESS ORGANIZATION

To impart Commerce and Industry, Business, Merger and Acquisition, New Enterprises, Trade In India. SERM II COMPUTER

FUNDAMENTAL AND OPERATING SYSTEM -II

To impart basic knowledge about

#### SEM - III COMPANY ACCOUNTS

This course enable the students to develop awareness about company account, Issue, forfeiture and Re-issue of Shares, Final Accounts of company, Incorporations, to prior of Company, Amalgamation Absorption of Company

#### SEM - III BUSINESS MATHEMATICS

The objective of this course is to enable the students to have such minimum knowledge of Mathematics, Natural Numbers, Integers H.C.F. & L.C.M., Linear Equation, Percentage, Discount, Commission and Brokerage, Average, Profit and Loss Mathematics of Finance, Simple Interest, Compound Interest, Ratio and Proportion, Ratio and percentage, Concept of proportion, Simple and Compound proportion, Direct and inverse proportion.

#### SEM-III AUDITING

To impart Meaning of Auditing, Objectives & Advantages, Types of Audit, commencement of business audit, Internal Check system, Audit checking program, Routine Vouching, Verification and Valuation of Assets and liabilities, Company Auditor, Appointment, Power, duties, Liabilities, Audit of Divisible Profit, Dividend, Audit Report, Types of Report, Audit of Banking, Insurance &

#### SEM V COST ACCOUNTING

This course exposes the students to the basic concepts and tools used in Cost provide Accounting and understanding of the applications of Cost Accounting techniques determination of cost of production.

#### SEM V BUSINESS ENVIRONMENT

The contents herein intend to develop the ability to understand and interpret sector wise business environment of

#### SEM V BUSINESS REGULATORY FRAMEWORK

To help the students to understand the concept of business Laws and it's applications in business regulation.

#### SEM V PROCESS BUSINESS I

The course aims to educate the students with the different factors which effect business. This course aims to develop ability to understand and scan business environment as well as process in order to analyses the opportunities and take decisions under the uncertainty.

#### SEM V CO-OPERATIVE BUSINESS

To grasp the historical development of Co-operatives in India. To Understand and appreciate theoretical development of the co-operative enterprises in India. To appreciate role and relevance of cooperatives in the present economic Computer, MS-Word Processing 2007 and MS-PowerPoint 2007, Operating System Basics, Operating System [Advance], Modern communications, Word Processing working with Table and Graphics, PowerPoint Presentation SEM II BUSINESS ECONOMICS

To impart Business and Managerial Economics, Market Structure, Factors Pricing.

#### SEM II FINANCIAL ACCOUNTING

To develop conceptual understanding financial fundamentals of accounting system and to impart skills in accounting for various kinds of business transaction, Accounts of Non-Special Institutions, trading Accounting Areas : Accounts of Cooperative societies, Accounting for Agriculture Farms, Hire purchases & purchase Accounts, Installment Insolvency Account of and Individuals, Laws of insolvency- Provisions for preferential creditors, Meaning of insolvency, Procedure of insolvency, Problems on Insolvency Accounts.

#### SEM II PRINCIPLES OF BUSINESS MANAGEMENT

Concept. To impart Management Directing, Organizing, Planning. Controlling.

Educational Institutions.

#### SEM-III MONETARY SYSTEM

To impart Barter System of Exchange and its Problems, Definition and Nature of Money, Functions and Importance of Money, Kinds of Money, Price Fluctuations, Money Market and Capital Market.

SEM-III Information Technology & Business Data Processing-I

The objective of this course is to familiarize with basics of Information Technology and use of Spreadsheet Package for Business Data Processing CORPORATE TV SEM-

ACCOUNTING This course enable the students to develop awareness about corporate accounting.

#### SEM IV BUSINESS STATISTICS

The objective of this course is to enable the students to have such minimum knowledge of Statistics.

#### SEM IV INCOME TAX

To know Basic concepts, Computation of Income, Income from other sources, Income Tax Authorities and Return of income.

#### SEM-IV Information Technology & Business Data Processing-II

The objective of this course is to familiarize with basics of Database, Database management System and use of Accounting Package for Business Data Processing.

develop To environment. understanding and insight in cooperative development.

#### SEM V INTERNET WORLD WIDE WEB I

The course aims at familiarizing the students with the basic concepts and ground rules of Internet and the various services it offers including designing of website and how to access information from depositories in the world wide

#### SEM V E-COMMERCE

The objective of the course is to familiarize the students with the essentials of internet based commerce and to make them comprehend its practical aspects as well as growth potential of ecommerce in India.

#### **MANAGEMENT** SEM ACCOUNTING

This course exposes the students to the basic concepts and tools used in Management Accounting. To provide an understanding of the applications of Management Accounting techniques for management decision making.

#### SEM VI ECONOMICS OF DEVELOPMENT

To provide an insight into various growth models and their applicability in present scenario.

#### SEM VI COMPANY LAW

The course exposes to Incorporation of company, Share capital of company, Securities Market, Company Secretary and Company meetings.

#### SEM VI INTERNET AND WORLD WIDE WEB II

The course aims at familiarizing the students with the basic concepts and ground rules of Internet and the various services it offers including designing of website and how to access information from depositories in the world wide web.

#### SEM VI E-COMMERCE II

The objective of the course is to acquaint the students with the internetbased e-commerce business models, internet marketing and e-governance.

#### B.Sc. PROGRAM OUTCOMES (POs)

After the completion of B. Sc. program the students are able to:

PO1. Develop scientific temperament and attitude.

PO2. Inculcate the qualities like observation, precision, analytical mind, logical thinking, clarity of thought and expression, systematic approach.

PO3. Handle the unexpected situation by critically analyzing the problem.

PO4. Extract information, formulate and solve problems in a systematic and logical manner.

PO5. Perform the jobs in diverse fields such as science, engineering, industries, survey, education, banking, development-planning, self-business etc. efficiently.

#### B.Sc. PROGRAM SPECIFIC OUTCOMES (PSOs)

#### B.Sc. (Chemistry)

A student of B.Sc. studying Chemistry is expected to:

PSO1: Acquire basic knowledge of chemistry.

PSO2: Gain knowledge of various principles governing chemical reactions which are important in industry and daily life.

PSO3: Understand fundamental and basic concepts of organic, in-organic, physical and analytical chemistry.

PSO4: Acquire knowledge of mechanistic approach of various organic and inorganic reactions.

PSO5: Be competent to apply practical aspects of chemistry by means of qualitative, quantitative and instrumental methods.

#### B.Sc. (Botany)

A student of B.Sc. studying Botany is expected to:

PSO1: Be able to develop knowledge about Characteristics of bacteria, viruses, and fungi.

PSO2: Be able to identify the major groups of organisms with an emphasis on plants.

PSO3: Be able to compare and contrast the characteristics of plants, algae, fungi, Bryophyte

PSO4: Be able to explain how organisms function at different levels.

PSO5: Be able to explicate the ecological interconnectedness of life on earth.

#### B.Sc. (Zoology)

A student of B.Sc. studying Zoology is expected to:

PSO1: Acquire knowledge about various Phyla in animal kingdom.

PSO2: Gain knowledge of life and diversity of nonchordata and chordata. PSO3: Acquire knowledge of basics of cell and developmental biology.

PSO4: Understand the concepts in animal physiology and animal ecology.

PSO5: Acquire knowledge of an essence of molecular biology and biotechnology

#### B.Sc. (Physics)

A student of B.Sc. studying Physics is expected to:

PSO1: To acquire core knowledge of major topics of physics.

PSO2: Gain competence in communication skills for communicating physics phenomenon and basic

PSO3: Gain knowledge of the ways and methods to design and conduct an experiment demonstrating

PSO4: To realize impact of physics and science on overall development of the society and develop an understanding of the impact of physics and science on society.

PSO5: To apply the conceptual understanding of the physics to general real world situations.

#### B.Sc. (Computer Science)

A student of B.Sc. studying Computer Science is expected to:

PSO1: Acquire fundamentals of Computer Science, Component of Computer, generation of computer, types of computer.

PSO2: Learn web page design using HTML.

**PSO3**: Learn programming languages such as C, C++, vb to design small application programmes.

PSO4: Learn various database, design of database, Structure query language.

PSO5: Learn concepts of programming in PL/SQL.

#### B.Sc. COURSE OUTCOMES (COs)

#### SEM I PHYSICS

1. Able to understand the terminology used in Classical Mechanics, Planetary motion, Gravitational laws, Simple harmonic motion, wave motion, Elasticity & Kinematics of moving

2. Ability to employ conceptual understanding to make predictions, and then approach the problem mathematically.

3. Ability to understand the important connections between theory and experiment.

#### SEM I CHEMISTRY

1) Ability to understand periodicity in properties of main group elements and ionic bonding

2) Ability to understand electronic displacement effects, reactive intermediates and chemistry of aliphatic and aromatic hydrocarbons 3) Knowledge of the fundamentals of thermodynamics and Kinetic theory of

4) Knowledge of phase rules and its application to one component system. SEM I BOTANY

After completion of this Course, the student are able to develop the following outcomes:

Students are expected to familiarize

#### SEM III PHYSICS

1. Knowledge of the concepts in Mathematical Physics and Elecrostatics, Magnetostatics and Electrodynomics (Maxwell's Equation, Solid State Electronics Devices-Physics of semiconductors, Electronic devices- like: BJT, FET, Op-Amp etc., Special Theory of Relativity, Atmosphere and Geophysics.

2. Understanding importance of these concepts and phenomena in real life practices.

#### SEM III CHEMISTRY

Knowledge of - 1) Postulates and application of MO theorist application of MO theory for simple homonuclear and hetero-nuclear diatomic molecules. Metallic bonding and VSEPR theory for molecular structure.

3) Theory of volumetric and gravimetric quantitative analysis. Organic chemistry of aldehydes,

ketones, and carboxylic acids.

5) Stereochemistry of organic compounds especially optical, geometrical and conformational isomerism.

6) Thermodynamic equilibrium with reference to Gibbs and Helmholtz free

Phase equilibria for partially

#### SEM V PHYSICS

1. Knowledge of the basics of the Origin of Quantum Mechanics, Development of Schrödinger's equation, Atomic and Molecular Spectroscopy, Nuclear Physics, introduction to Hybrid parameters and Amplifiers, feedback and oscillators. 2. Understanding importance of these concepts and connection between theory & practical and applications to practical devices & systems.

#### SEM V CHEMISTRY

Knowledge of - 1) Various theories of bonding for coordination compounds like Werners, VBT, CFT Isoemrism and electronic spectra of

complexes.

3) Chemistry of heterocyclic and organometallic compounds.

4) Chemistry of dyes, drugs and pesticides.

5) Principles of photochemistry, quantum yield and luminescence.

6) Principles of molecular spectroscopy.

#### SEM V BOTANY

 Advance knowledge about plant water relation, physiology, metabolism and ecology.

2. Understanding about the plant response to different stimuli and plant with the morphological and systematic knowledge about different plant groups including Algae, fungi, Bryophyte and Pteridophyte etc. They are be able to make use of this knowledge for detailed study in other disciplines.

The study are able to know about different algal and fungal groups around them, their symbiotic association, and economic importance.

3. Students are able to distinguish between different Taxa of Mastigomycotina, Ascomycota, Basidiomycota and Deuteromycotina. They will be become familiar with edible and poisonous fungi and their association with trees. 4.

Understanding the role of microbes in different field. 5. Industry, Food and Agriculture etc. 6. The students are able to understand the vast diversity of bacteria and Viruses in relation to Structure, nutrition and Reproduction SEM I ZOOLOGY

Knowledge of the basic knowledge of Animal Kingdom through its classification and evolution of life. They will also learn various systems organized through a well-controlled and developed mechanism.

#### SEM I COMPUTER SCIENCE

Knowledge of the fundamentals of Computer such as Block Diagram of Computer, I/O devices, Memory and its types and basics of OS, Network, types of Network, Network Topology, Internet and fundamentals of programming languages, types of languages, executable statements. They are able to write the algorithms, draw flowcharts and develop programs in c.

#### SEM II PHYSICS

1. Knowledge of the concepts in Kinetic theory of Gases, Thermodynamics, Liquefaction of Gases, Motion of Charged Particles in Electric and Magnetic fields, Electrical Network Theorems & ac current.

2. Understanding importance of these topics in real world.

#### SEM II CHEMISTRY

Knowledge of - 1) rules of polarizability and concept of covalent bonding. 2) Theories of acids and

- 3) Chemistry of p-block elements
- 4) Chemistry of non-aqueous solvents
- 5) Chemistry of organic compounds conating halogen and oxygen like alkenyl and aryl halides, alcohols, ethers, epoxides and phenol.
- 6) Physical properties and relation to molecular structure.
- Fundamentals of chemical kinetics. SEM II BOTANY
- 1. After studying this course students develop better understanding of the Concept of Fossilization. Students will be expected to know about the general characteristics of Gymnosperms and their affinities with Pteridophyte and Angiosperms.
- 2. Through this course students will get the better opportunity to understand the plants taught in theory, their

miscible and immiscible liquids 8) Surface tension, Viscosity and electrolytic conductance measurements and application.

#### SEM III BOTANY

1. Knowledge of the history of Plant Systematics and its role in classification. They are able to make use of this knowledge for the identification and grouping of different plants based on the anatomy.

2. Knowledge of classification on the basis of anatomical difference into different groups.

3. Knowledge of the basic anatomical concepts of Primary Structure of Root, Stem, Leaf and Flower. They will be able to discuss the idea of secondary growth.

4. Ability to understand the Tissues Arrangement in Root, Stem, Leaf and Secondary Plant Body.

5. Knowledge about formation of male and Female gametes, their fusion, development of embryo, formation of seed and endosperm.

#### SEM III ZOOLOGY

Life And Diversity Of Chordata And Concept. In addition to this, To learn evolution of life from a unicellular life to a multicellular organism.

#### SEM IV PHYSICS

- 1. Knowledge of the concepts in Geometrical optics and interference, Diffraction, Polarization.
- Knowledge of conceptual ideas of Laser, fiber optics & basics of the Renewable Energy Source.

#### SEM IV CHEMISTRY

Knowledge of - 1) Chemistry of dblock and f-block elements.

- 2) Principles involved in extraction of elements and general principles of metallurgy
- 3) Chemistry of poly-nuclear hydrocarbon, reactive methylene compounds and carbohydrates
- 4) Chemistry of nitro and amino compounds
- 5) Colligative properties and Crystal

#### SEM IV BOTANY

- 1. On successful completion of this course students are able to describe, apply and integrate the basic concepts of Cell Biology Genetics and Biochemistry, Structure and Functions of different Organelles.
- Understanding the structure, types and aberration of chromosome.
- 3. Understanding gene interaction and develop skill to solve genetic problem
- Knowledge about gene mutation, linkage and crossing over etc.
- 5. Understand different types of enzyme and their mechanism of action.
- 6. Awareness about Structural and Functional Strategies of Biomolecule like Carbohydrate.

#### SEM IV ZOOLOGY

Ability to understand modern and advance developments in the field of genetics; biotic and abiotic factors with their interaction to ecosystem.

movement.

- 3. Understanding plant growth mechanism, role of growth hormones in plant development.
- 4. Knowledge of various factor of environment and their impact on plant growth and development.
- 5. Understanding the structure and function of ecosystem.

#### SEM V ZOOLOGY

Animal Physiology And Economic Zoology. Mechanism of working. They will also learn applied and economic aspects of modern zoology by studying various cultures in the field of agriculture and aquaculture.

#### SEM VI PHYSICS

- 1. Understands the basics of the Statistical Mechanics, MB, BE & FD Statistical distributions, Crystallography, Electrical properties & magnetic properties of the materials, Nanoscience & nanotechnology and Superconductivity.
- Understanding connection between theory & practical. 3. Competence regarding practical applications of these concepts in real world.

#### SEM VI CHEMISTRY

Knowledge of - 1) Kinetic Aspects of Metal Complexes

- 2) Spectrophotometry, Calorimetry and chromatographic analytical methods.
- 3) Chemistry of metal carbonyls, inorganic polymers and essential elements.
- 4) UV, IR, NMR and Mass spectroscopy for structure elucidation of organic compounds.
- 5) Elementary quantum mechanics and Schrodinger wave equation.
- Electrochemical Cells and principles of nuclear chemistry.

#### SEM VI BOTANY

- 1. Knowledge about genetic material i.e. DNA, RNA etc.
- 2. Understanding about the recombinant DNA technology, protein synthesis, protein sorting, cloning techniques to construct genomic libraries and a broad view about cloning vector types and strategies.
- 3. Knowledge about parameters involved in gene transfer techniques. 4. Ability to understand the different techniques used in Plant Tissue Culture including Plant Micro propagation, Callus and Suspension Culture and their Applications.
- 5. Understanding about the functioning of various equipment's used in Tissue Culture Work.

#### SEM VI ZOOLOGY

Ability to

- 1. Have knowledge about genetic material i.e. DNA, RNA etc.
- 2. to have an understanding about the recombinant DNA technology, protein synthesis, protein sorting, cloning techniques to construct genomic libraries and a broad view about cloning vector types and strategies. Have knowledge about parameters
- involved in gene transfer techniques. 4. Know the different techniques used in Animal Tissue Culture and their

4. Students also get knowledge about utilization of plants in spices, timber.  SEM II ZOOLOGY  Ability to understand basics and	CERTIFICAL (NEY	Applications. 5. Understand the functioning of various equipment's used in Tissue Culture Work.
	its organelles and their functions. They	



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- Principal -

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College Code: 327

- President -

Shri. Krushnarao Ingle (Ex. M.L.A.) 07266-221449

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# Program Outcomes

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#### Redefined Course Outcomes, by the Affiliated University Sant Gadge Baba Amravati University – (2022-23) (CBCS)

#### The Programme Outcomes UG/PG (POs)

Program Outcomes (POs) of various programs/subjects/Department run by the college.
Faculty of Arts, Commerce & Science (UG/PG)

Program Name	Subject	y of Arts, Commerce & Science (UG/PG)  Program Specific Outcomes (POs
B.A1	Marathi Compulsory/Marathi literature/AEC	PO1: मातृभाषा मानवी जीवनाचा पाया आहे आत्मप्रगटीकरण, आत्मचिंतन, विचारांची देवाणघेवाण, संस्कृतीची जोपासना, समाजातील आर्थिक, राजकीय व्यवहार, व्यक्तिमत्वाचा विकास या सर्व गोष्टी साठी भाषेची आवश्यकता आहे.  PO2: मातृभाषेच्या सामर्थ्यावर अभ्यासकाला कोणत्याही विषयाच्या आवश्यक असलेल्या आकलन शक्ती व कौशल्य यांचा विकास होण्यास मदत होते.  PO3: सध्या श्रावण भाषण कौशल्यापासून ते प्रतिभा संपन्न सृजनशीलतेपर्यंत प्रत्येक क्रियेत मात्र भाषेची आवश्यकता आहे.  PO4: मातृभाषेतूनच कोणत्याही क्षेत्रातील ज्ञान मिळवणे सुलभ जाते.  PO5: मराठी भाषा अतिशय समृद्ध अशी भाषा आहे. समाजाचा सर्वांगीण विकास हा भाषेच्या माध्यमातून होतो.  PO6: त्या माध्यमातून विद्यार्थ्यांच्या सर्वांगीण व्यक्तिमत्वाचा विकास होतो. भाषिक संवेदना, भावना, विचारशीलता, भाषेच्या विविध प्रवाहाची अभिवृद्धि समाजाच्या विकासाकरिता महत्त्वाचा असतो.  PO7: मराठी अनिवार्थ अभ्यासक्रमातून वैचारिकता समृद्ध होण्यासाठी मदत होते. तसेच लितत साहित्यातून जीवनानुभवाची नवी दृष्टी प्राप्त होते. काव्य प्रकारातून सामाजिक अस्मिता अभिव्यक्त होते. मराठी भाषा विद्यार्थ्यांना नव्या जाणिवा, नव्या प्रेरणा देणारा विषय आहे.
B.A1	History, Economics	PO1 Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.  PO2 Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.  PO3 Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.  PO4 Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.  PO5 Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.  PO6 Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.  PO7 Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

		PO1: Understanding of constitution, government institutions, electoral processes and policies.
		PO2: Knowledge of some of the philosophical underpinnings of
		modern politics and government.
		PO3: Develop the ability to make logical inferences about social
		and political issues on the basis of comparative and historical
		knowledge.
		PO4: Knowledge of key theories and concepts, political thoughts,
B.A1	Political Science	organization, and modern issues in international relations.
		PO5: Develop the analytical abilities, observational skills and
		decision-making abilities of the students so that they will be able to
		face different challenges of life.
		PO6: Equip students with the concepts, principles, theories and
		processes studied in Political Science, so as to facilitate their career
		choices and employment.
		PO7: Aim at shaping the students' perception and outlook on social,
		economic and political environment of India and beyond.
		PO1: To impart the basic knowledge of Economics.
		PO2: To impart basic knowledge of Accountancy & Statistics. To impart knowledge of creating a cash book and ledger books.
		PO3: To impart the basic knowledge of management, planning,
		organizing, directing and controlling
		PO4: To impart the basic knowledge of application of computers
		and its development.
		PO5: To impart the knowledge of business sectors, firms, e-
B.COM-1	Commerce	commerce, cashless transaction
		PO6: To impart the knowledge of local and global enterprises and
		trade.
		PO7: To develop presentation skills and ability of goal setting.
		PO8: To bring about the holistic development of the students.
	woman and the state of the stat	PO9: To develop ethics of life.
		PO10: To inculcate Environmental awareness.
		PO11: To impart the fundamental knowledge of Computer.
		PO1 Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the
		degree to which these assumptions are accurate and valid, and
		looking at our ideas and decisions (intellectual, organizational, and
		personal) from different perspectives.
		PO2 Effective Communication: Speak, read, write and listen
		clearly in person and through electronic media in English and in
		one Indian language, and make meaning of the world by
		connecting people, ideas, books, media and technology.
		PO3 Social Interaction: Elicit views of others, mediate
B.SC-1	Chemistry, Botany,	disagreements and help reach conclusions in group settings.
2.001	Zoology, Physics &	PO4 Effective Citizenship: Demonstrate empathetic social concern
	Computer Science	and equity centred national development, and the ability to act with
		an informed awareness of issues and participate in civic life through
		volunteering.  PO5 Ethics: Recognize different value systems including your
		own, understand the moral dimensions of your decisions, and
		accept responsibility for them.
		PO6 Environment and Sustainability: Understand the issues of
		environmental contexts and sustainable development.
		PO7 Self-directed and Life-long Learning: Acquire the ability to
		engage in independent and life-long learning in the broadest
		context socio-technological changes

		PO1: To facilitate the learners in acquiring listening and speaking
		competence. PO2: To assist the learners in independent language comprehension and
		production. PO3: To make the students aware about the different communicative
		o · · · · CTaliah
		PO4: To improve skills and proficiency for being employed as teachers,
	T. aliah	state government employees, civil aviation, engineering and medico-
B.SC-1	English	related industry, defence, commerce and taxation sector.  PO5: To be able to speak, write, read and listen flawlessly in person and
		1 11 - electronic mode in English
		through the electronic mode in English  PO6: To understand views of others, mediate contradictory views/
		ti
		nor me and and use basic skills of the English language for
		applying it in the job assigned / employment accepted / profession
		1 1 1 1 - 1 - 1
		undertaken. PO1: भाषेचा आकलनाबरोबरच विद्यार्थ्यांमध्ये समाजातील उच्चकोटीची मानवी मूल्य वृद्धिंगत
1		व्हावी, राष्ट्रीय एकात्मता, सामाजिक बांधिलकी, मानुषता, राष्ट्रप्रेम, राष्ट्रभक्ती, वैज्ञानिक दृष्टिकोन,
		पर्यावरण- संरक्षण संवर्धन भतदया इत्यादींची पेरणी व्हावी.
B.SC-1	Marathi	DO2: विद्यार्थांची मानभाषा आणि वाज्यविषयक अभिरुची वाढीला लागावी, त्यांना दर्जदार व
D.SC-1	14164	
		िक्त के जी आहेत त्या अनुषंगाने हा अभ्यासक्रम नवीन शैक्षणिक धरिणाच्या पराक्षत ।नाश्चत
		करण्याचे धोरण संत गाडगे बाबा अमरावती विद्यापीठाने अत्यंत विचारपूर्वक स्वीकारलेले आहे.
		DOL: Familiarity with different approaches to the study of
		Political Science and an ability to apply this to contemporary
		- alitical problems
		PO2: An ability to formulate and construct logical argument about
		political phenomena.
		PO3: Comprehend the basic structure and functions of
M.A1		government systems and theoretical understandings.
		PO4. Analyse political problems, argument, information, theories.
	Political Science	PO5: Apply methods appropriated for accumulating and
		interpreting data applicable to political science.
		PO6: An ability to analyse the election data and to develop
		leadership qualities among students.
		PO1: To analyse the Economic Issues related to local to global
		scenarios.  PO2: This programme helps to understand the various Social,
		Political and Economic Institutions.
		PO3: Applying their knowledge to assess issues in fields of
		agriculture, industry, banking and finance, environmental, and
26 4 1	Economics	societal issues to provide practical solutions.
M.A1	Economics	PO4: Formulate and execution of field study, and an industrial
		visit to get practical exposure to the latest issues.
		PO5: To understand how economic policies affect the confinon
		people through interactions.
		PO6: To utilize the research spheres of Economics.
		PO7: The students should be able to find a career in Economics.
		PO1: To enable the student to acquire the process of managerial
		economics, demand analysis, production theory, price
		determination and pricing practices, etc.
M.COM-1	Commerce	PO2: To acquaint the student with basic issues in services
MI.COM-1	Commerce	marketing and customer relationship management.  PO3: To enable the student to understand & master the accounting
		PO3: To enable the student to understand & master the account in concepts as well as tools and techniques used for taking
		concepts as well as tools and techniques used for taking
		managerial decisions.

		PO4: To impart the knowledge of ratio analysis, cash flow and budgetary control.
		PO5: To enhance decision making abilities of students in situation
		of uncertainty in dynamic business environment.
		PO6: To help the student to understand and master the conceptual
		framework of Management and organizational behavior.
		PO7: To provide understanding of computer operating system and application of relevant software's in managerial decision making
		PO8: To impart the knowledge of commercial banks and its
		transactions, nature and scope of insurance and its kinds.
		PO1: Deep subject knowledge & intellectual breadth-Apply the
		subject knowledge to the solution of real-world problems.
		PO2: Professional Ethics - Apply ethical principles and commit to professional ethics and responsibilities and norms of standard
		practises
		PO3: Creative And Critical Thinking- Take informed action after
		identifying the assumptions that frame our thinking and actions
		checking out the degree to which these assumptions are accurate
		and valid and looking at our ideas and decisions intellectual
		organisational and personal from different perspectives.
		PO4: Innovation Research and Problem Solving-Identify
		formulate, review research literature, and analyse complex
		problems reaching substantiated and innovative conclusions.  Design solutions for complex problems with appropriate
		consideration for the public health and safety, and the cultural
		societal and environmental considerations. Use a research-based
		knowledge and research methods to provide valid conclusions.
		Demonstrate the knowledge of, and need for sustainable
		development.
		PO5: Teamwork And Communication Skills functional effectively
		as an individual and as a member or leader in diverse teams and in multidisciplinary settings present communicate research at
M.SC-1	Chemistry, Botany	national international level write effective articles reports and
W1.5C-1	Chemistry, Botany	design documentation make effective presentation and give the
		receive clear instructions communicate disciplinary knowledge to
		the community and broader public.
		PO6: Professionalism And Leadership Readiness- Demonstrate
		personal accountability and effective work habits e.g. punctuality,
		working productivity with others, and time as well as workload
		management. Demonstrate integrity and ethical behaviour, acts
		responsibly with the interest of the larger community in mind, and
		to learn from his/her mistakes. Use the strengths of others to
		achieve common goals, and use interpersonal skills to coach and
		develop others. Assesses and manage his/her emotions and those of others; use empathetic skills to guide and motivate; and
		organise, priorities, and delegate work.
in the second se		PO7: Lifelong Learning-Recognise the need for, and have
		preparation and ability to engage in independent and lifelong
		learning in the broadest context of technological change.
		PO8: Competence For Digital World- Prepare well for living,
		learning and working in digital society. Create, select, and apply
		appropriate techniques, resources, and modern ICT tools to
		complex, activities with an understanding of limitations. Use
		existing digital technologies ethically and efficiently to solve
3	1	
		problems, complete task, and accomplish goals. Demonstrate effective adaptability to new and emerging technologies.

		PO9: Global citizenship – Act with an informed awareness of global issues. Engage in an initiatives that encourage equity and growth for all.
M.SC-1	Zoology	PO: The post graduate course of Zoology will provide theoretical as well as experimental knowledge as per the courses included under the syllabi by which build up creativity in students will lead towards thorough learning and development of ideas of research work and will become ready to face recent challenges. Students can attain the employability skills through the experiences based on their practical knowledge.



Principal
Arts & Commerce College,
Warvat Bakal Dist.Buldana



Arts & Commerce College

Warwat Bakal Tq. Sangrampur Dist - Buldhana (M.S.)

- Principal - **Dr. Shriram Yerankar** M.A., M.Phil, Ph.D. 9423722316

Website: www.acscwb.co.in

NAAC Reaccredited with 'B' Grade

College Code: 327

- President -

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# Program Specific Outcomes

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#### Arts & Commerce College, Warwat- Bakal

Redefined Course Outcomes, Program Specific Outcomes by the Affiliated University Sant Gadge Baba Amravati University – (2022-23) (CBCS)

Program Specific Outcomes (PSOs) of various programs/subjects/Department run by the college.

Faculty of Arts. Commerce & Science (UG/PG)

		Faculty of Arts, Commerce & Science (UG/PG)
Program Name	Subject	Program Specific Outcomes (PSOs
		PSO1: Comprehend various forms of literature like Prose, Poetry, Drama and Fiction.
D 4 1	D 1: 1	PSO2: Develop the knowledge of grammatical system.
B.A1	English	PSO3: Develop four language skills LSRW
		PSO4: Widen scope of employability and Entrepreneurship viz Teaching, Civil
		Services and Creative Writing.  PSO1: To impart the basic knowledge of Economics.
		PSO2: To impart the basic knowledge of Economics.  PSO2: To impart basic knowledge of Accountancy & Statistics. To impart knowledge
		of creating a cash book and ledger books.
B.COM-1	English	PSO3: To impart the basic knowledge of management, planning, organizing, directing
		and controlling
		PSO4: To impart the basic knowledge of application of computers and its development.
		PSO1: Understand nature and nuances of English Language used in prose lessons and
		poetic passages.
1		PSO2: Apply the knowledge of English to communicate with others on personal,
B.SC-1	English	social, literary and interdisciplinary topics.  PSO3: Compare the structure of English language to use LSRW.
D.5C-1	Liigiisii	PSO4: Formulate the sentences as per situational requirement.
		PSO5: Differentiate between acceptable and unacceptable sentences in English.
		PSO6: Create appropriate, grammatically correct and acceptable sentences in English
		PSO7: Create appropriate, grammatically correct and acceptable sentences in English
		PSO1: मराठी भाषा हा केवळ शिकण्याचा आणि शिकवण्याचाच विषय नाही तर ते आत्मप्रकटीकरणाचे एक
		प्रभावी माध्यम आहे. तास व्यक्तिमत्व घडविणारा तो संस्कारही आहे.
B.SC-1	Marathi	PSO2: बहुविध अंगाने तो बहुविध अंगाने व्हायला हवा त्याच बरोबर भाषेच्या सर्वांगीण अभ्यासाची दिशा
		विद्यार्थ्यांना सूचित व्हावी , साहित्य सरितेतील विविध वाड्मय प्रकाराची आणि प्रवाहाची ओळख व्हावी हा उद्देश
		प्रामुख्याने ठेवला आहे.
		PSO1: संत गाडगे बाबा अमरावती विद्यापीठाच्या मानव विज्ञान विद्या शाखेतील बीए मराठी हे आवस्यक
		अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्याची साहित्य ही संकल्पना स्पष्ट ओळ मराठी भाषाविषयक अभिरुची विकसित
		होईल.
		- Control - Control
		PSO2: मराठी साहित्य परंपरा लेखक कवी विचारवंत यांचा परिचय होईल त्यांच्या, लेखनातून आलेल्या सामाजिक
		एकात्मता सर्वधर्म समभाव राष्ट्रीय एकात्मता आणि भारतीय राज्यघटनेचे अधिष्ठान असलेल्या मानवी मूल्यांची
		विद्यार्थ्यांमध्ये रुजवणूक होईल.
		PSO3: विद्यार्थ्यांमध्ये मराठी, भाषा, साहित्य, कला या विषयी आवड निर्माण होईल. त्याची चिकित्सा, तुलना, समीक्षा
B.A1	Marathi	करण्याची दृष्टी विकसित झाल्यामुळे विविध साहित्यप्रकारांतील लेखनाचे योग्य ज्ञान संशोधन आणि सर्जनशील निर्मिती
		करतील.
		PSO4: भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि
		कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे भाषेचे व्यावहारिक उपयोजन करता येईल.
		PSO5: कला शाखेच्या विद्यार्थ्यांमध्ये मराठी भाषेच्या तांत्रिक अभ्यासा सुरू प्रतिष्ठा पूर्ण रोजगार मिळवण्यासाठी भाषिक
		कौशल्य प्राप्त होतील.
		PSO6: मराठी भाषेच्या माध्यमातून विविध क्षेत्रात लागणारे व्यावहारिक कौशल्याचे उपयोजन विद्यार्थी करतील.
		PSO7: रोजगार निर्मितीसाठी लागणारे विविध कौशल्य निर्मितीचा दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल
		PSO1: संत गाडगे बाबा अमरावती विद्यापीठाच्या मानविवज्ञान विद्या शाखेतील मराठी वाडमय (ऐच्छिक) विषय
		P301. सत गाडम बाबा अमरावता विद्यापाठाच्या मानवावज्ञान विद्या शाखताल मराठा वाडमय (एाच्छक) विषय अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्याची साहित्य ही संकल्पना स्पष्टः ओळ मराठी भाषाविषयक अभिरुची विकसित होईल.
B.A1	Marathi	PSO2: मराठी साहित्य परंपरा लेखक कबी विचारवंत यांचा परिचय होईल, त्यांच्या लेखनातून आलेल्या सामाजिक
l. I	Literature	एकात्मता, सर्वधर्म समभाव, राष्ट्रीय एकात्मता आणि भारतीय राज्यघटनेचे अधिष्ठान असलेल्या मानवी मृल्यांची विद्यार्थ्यांमध्ये
		र्जाताता, राजवा राजवान, राज्याच द्वाराचा जावि नारकाच राज्याच जाविहान जाविहान जाविहान विद्याचन विद्याचन विद्याचन
		6

		PSO3: विद्यार्थ्यांमध्ये साहित्य व कला या विषयी आवड निर्माण होईल. त्याची चिकित्सा, तुलना, समीक्षा करण्याची दृष्टी
		विकसित झाल्यामुळे विविध साहित्यप्रकारांतील लेखनाचे योग्य ज्ञान संशोधन आणि सर्जनशील निर्मिती करतील. PSO4: भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि
		PSO4: भाषा आणि साहित्याची सामाजिक तसचे कलात्मक पातळावर अभ्यास कल्यान विवकपूरा तकसगतता जााण कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे भाषेचे व्यावहारिक उपयोजन करता येईल.
		PSO5: साहित्याच्या विद्यार्थ्यांमध्ये मराठी साहित्याच्या अभ्यासासह प्रतिष्ठा पूर्ण रोजगार मिळवण्यासाठी भाषिक कौशल्य प्राप्त होतील
		प्राप्त रुपाल PSO6: रोजगार निर्मितीसाठी लागणारे विविध कौशल्य निर्मितीचा दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल.
		PSO1: Analyze the Socio-Political and Cultural background of the Indian History.
		PSO2: Examine various perspectives of history and historiography.
B.A1	History	PSO3: Prepare for Competitive Examinations like UPSC, MPSC, and SET/NET etc.
		PSO4: Compare various concepts in Social Studies through the Indian History.
		PSO5: Describe the developments of mankind.  PSO1: Problem analysis: recognize formulate and study the problems of various
		sectors of the Indian economy, regional economy and the global economy with the help
		of the economic ways of thinking, theories, concepts and laws.
		PSO2: Apply the knowledge of economic concepts, laws and theories, for a better economic environment for the society at large.
		PSO3: Communicate effectively on the economic activities with the community and
		the society through the acquiring knowledge of the national and the global economy.
		PSO4: To build on these concepts to develop deeper understanding of Economy in the
B.A1	<b>Economics</b>	future.
		PSO5: Explain the basic concepts, laws and theories related to the economic behavior
		of the human being.  PSO6: Graduates from our department are effectively taught and explained the cause
		with the help of visual aids like white board and PowerPoint Presentation.
		PSO7: They will be able to visualize the real-world situation and enhance them to
		initiate the programmers for pursuing studies and be alert with the importance of
		entrepreneurial skills for their self-employment, to improve the general attitudes and
A CONTRACTOR OF THE CONTRACTOR		living conditions of the masses.
	D 11.1 1	PSO1: To understand the basic structure of Indian political system
B.A1	Political	PSO2: To Inculcate interest in political field. PSO3: To create the leadership qualities in students.
	Science	PSO4: To understand Indian governing system.
		PSO1: Attain requisite skills and knowledge after the completion of the Programme.
		PSO2: Achieve the basic knowledge of Economics.
		PSO3: Assimilate basic knowledge of Accountancy & Statistics.
		PSO4: Efficiency in reading and writing skill.
D 001/1		PSO5: Achieve requisite skills and knowledge of preparing cashbook, leader books and
B.COM-1	Commerce	balance sheet of Company.  PSO6: Become knowledgeable about marketing.
		PSO7: Create a self-employment.
		PSO8: Assimilate ethics of life.
		PSO9: Achieve Environmental awareness.
		PSO10: Attain fundamental knowledge of Computer.
		PSO1: Understand the scope, methodology and application of modem chemistry.
		PSO2: Apply theoretical and practical concepts of instruments that are commonly used-
		in most chemistry field.  PSO3: Plan and conduct scientific experiments and record the results of such
		experiments.
B.SC-1	Chemistry	PSO4: Get acquainted with safety of chemicals, transfer, and measurements of
		chemicals, preparation of solutions, and using physical properties to identity compounds
		and chemical reactions.
		PSO5: Describe how chemistry is useful to solve social, economic and environmental
		problem and issues facing our society in energy, medicine, and health.
		PSO1: Develop a deeper sense with respect to phylum Protozoa to Echinodermata relation to taxonomy, classification, body organization and general characteristics this
		strengthens students' capability in basic zoology.
B.SC-1	Zoology	PSO2: Grasp various the Systematic positions from Protozoa to Echinodermata their
2.50 1		pathogenicity and its epidemiology.
		PSO3: Describe unique characters and recognize life functions of Protozoa, Porifera,
		Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata.

B.SC-1  Improve ability and apply Knowledge of No chordates for its execution in Agric especially with the phylum Arthropoda. PSO4: Implement an extensive idea about economic and ecological significance various non-chordates phylum's in human life. PSO1: Identify major groups of plants and compare the characteristics of lower (microbes, algae, fungi, bryophytes and pteridophytes) and higher (Gymnos and angiosperms). PSO2: Use evidence based comparative botany approach to explain the evolutio organism and understand the genetic diversity. PSO3: Explain various plant processes and functions, metabolism, concepts of genome and how organism's function is influenced at the cell, tissue and organ I PSO4: Understand adaptation, development and behaviour of different forms of PSO5: Demonstrate the experimental techniques and methods of their area of specialization in Botany.  PSO-1 Recall basic facts about statistics and should be able to display knowledge conventions such as notations, terminology. 2, 3, 4, 5, 6, acquire basic knowledge diagrammatic & graphical representation of Data with and without software.  PSO2: Get adequate exposure to global and local concerns that explore them may aspects of mathematical sciences. PSO3: Be equipped with statistical modelling ability, problem solving skills, or talent and power of communication necessary for various kinds of employment pso4: Apply their skills and knowledge that is translate information presented into statistical form, select and use appropriate statistical formulae or technique order to process the information and draw the relevant conclusion.  PSO5: Develop a positive attitude towards statistics as an interesting and valual subject of study. PSO6: Acquire basic knowledge of diagrammatic & graphical representation of with and without software.  PSO1: Understand the computer hardware and software.  PSO2: Use the knowledge of software installation. PSO3: Select modern computing tools and techniques for programming task. PSO4: Identify, analyse, formulate and dev
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B.SC-1  Physics    Description of the process of mathematical sciences
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B.SC-1  Physics  Phys
B.SC-1  Physics  Phys
B.SC-1  Physics  talent and power of communication necessary for various kinds of employment.  PSO4: Apply their skills and knowledge that is translate information presented into statistical form, select and use appropriate statistical formulae or technique order to process the information and draw the relevant conclusion.  PSO5: Develop a positive attitude towards statistics as an interesting and valual subject of study.  PSO6: Acquire basic knowledge of diagrammatic & graphical representation of with and without software.  PSO1: Understand the computer hardware and software.  PSO2: Use the knowledge of software installation.  PSO3: Select modern computing tools and techniques for programming task.  PSO4: Identify, analyse, formulate and develop computer-based solutions to medical desired needs within realistic constraints.  PSO5: Develop databases and perform operations on them.
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B.SC-1  Computer Science  PSO3: Select modern computing tools and techniques for programming task.  PSO4: Identify, analyse, formulate and develop computer-based solutions to medical desired needs within realistic constraints.  PSO5: Develop databases and perform operations on them.
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B.SC-1 Science desired needs within realistic constraints.  PSO5: Develop databases and perform operations on them.
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PSO6: Identify research and development areas in multiple disciplines.
PSO7: Design and develop the small web applications.
PSO1: Familiarity with different approaches to the study of Political Science at
ability to apply this to contemporary political problems.
PSO2: An ability to formulate and construct logical argument about political
phenomena.
PSO3: Comprehend the basic structure and functions of government systems as
M.A1 Economics theoretical understandings.
PSO4: Analyse political problems, argument, information, theories.
PSO5: Apply methods appropriated for accumulating and interpreting data app
to political science.
PSO6: An ability to analyse the election data and to develop leadership qualities
students.
PSO1: Ability to discuss about Indian Constitution and Political process. stude grasp knowledge of provisions in constitution of India regarding fundamental a
grasp knowledge of provisions in constitution of finite regarding fundamental in
Directive principles, Parliament, judiciary and executive body at centre and sta
PSO2: Learn about the various Political thought in Maharashtra like Dr. B.R.
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		PSO1: To acquire a job as an Economist, Market Research Analyst, a banker, management consultant, stockbroker/trader, Actuary, Financial analyst, Financial advisors or Advisor to Tax Law Court etc.
		PSO2: To acquire the process of managerial economics, demand analysis, production theory, price determination and pricing practices, etc.
		PSO3: To acquire proficiency in the accounting concepts as well as tools and
		techniques used for taking managerial decisions.
		PSO4: To master the knowledge of ratio analysis, cash flow and budgetary control.
M.COM-1	Commerce	PSO5: To achieve decision making abilities in the situation of uncertainty in dynamic business environment.
		PSO6: To master the conceptual framework of Management and organizational
		behaviour.
		PSO7: To attain understanding of computer operating system and application of relevant software's in managerial decision making.
		PSO8: To gain the knowledge of commercial banks and its transactions, nature and scope of insurance and its kinds.
		PSO1: Observe, analyze and interpret chemical phenomena and process.
		PSO2: Design and develop new molecules/processes with industrial and societal applications
		PSO-3: formulate new ideas/concepts in chemical sciences and test them.
		PSO-4: communicate effectively the principles and practice of chemical sciences
MSC-1	Chemistry	PSO-5: address issues of environment, health and development from a chemical
1.1001	Chemistry	perspective.
		PSO-6: follow professional ethics in all spheres of activity.
		PSO-7: function effectively as a member/leader in diverse teams/groups.
		PSO-8: engage in independent learning in the broadest context of scientific
		advancement
		PSO1: Explore the cutting-edge technologies and skills currently used in plant
		sciences. 3. 4. 5. 67
		PSO2: Be aware of social, environmental issues and plant significance in natural
		interest.
MSC-1	Datama	PSO3: Create interest in nature conservation and save the natural resources.
MSC-1	Botany	PSO4: Study the concepts of genetics, plant breeding and their applicability.
		PSO5: Understand and correlate the various biochemical and physiological processes
		in plants.
		PSO6: Study the evolutionary process in Bryophytes and Pteridophytes.
		PSO7: Study the bioactive principles in plants and their defence mechanisms.
		PSO1: Learn to Prepare the checklist and inventories through the identification of the
		fauna in local areas being Melghat Tiger Reserve and Pohra Forest are very nearer to
		survey.
		PSO2: Gain comprehensive knowledge about different animals and develop confidence
		to handle them during research work.
		PSO3: Interpret metabolic pathways, their correlation in concern with prokaryote and
ment too to		eukaryotes.
MSC-1	Zoology	PSO4: Compare genetic aspects, genetic traits, diseases and their specific causes.
		PSO5: Survey and analyse data of the various kinds of diseases in the locality.
		PSO6: Understand the various strategies and phenomena related to animal reproduction
		and their development.
		PSO7: Get acquainted with conservation strategies and environmental threats to reduce
		and save energy through Wildlife Week Celebration.
		PSO8: Compare the different developmental events during embryogenesis of different
		animals.



Principal

Arts & Commerce College,

Warvat Bakal Dist.Buldana



Arts & Commerce College

Warwat Bakal Tq. Sangrampur Dist - Buldhana (M.S.)

- Principal -

Dr. Shriram Yerankar M.A., M.Phil, Ph.D. 9423722316 NAAC Reaccredited with 'B' Grade

College Code: 327

- President -

Shri. Krushnarao Ingle (Ex. M.L.A.) 07266-221449

E-mail: 327accwb@gmail.com

Website: www.acscwb.co.in

# Course Outcomes

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Sr. No	Programme Name	Page Number
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5	COs of M.COM. (PG) Programmes	
6	COs of M.Sc. (PG) Programmes	

Redefined Course Outcomes, Program Specific Outcomes & Program
Outcomes by the Affiliated University Sant Gadge Baba Amravati University –
(2022-23)

#### The Course Outcomes UG (COs)

#### COs of B.A. Programmes

	0.340		A lands will be able to
Name of Program	~ 1	COs	After completing the course, students will be able to
I IOZI CIII		CO-1	Understand the basic knowledge of English language and literature
		CO-2	Understand the relation between literature and real file.
	English	CO-3	Understand and interpret the prose, poem, short stories
B.A1	Compulsory	CO-4	Write the News Report Letter, Essay, Paragraph etc.
Semester	(DSC ENG	CO-5	1 de placeure of literary forms such as Novel, Poem, Play etc.
1 & 2	1.1) Theory	CO-6	Develop interview technique, Reading Skills, Writing Skills and Speaking Skills.
	-	CO-7	Enhance the interest in English Language.
	T 1i ab	CO-1	Read speedily and fluently.
	English	CO-2	Develop understanding of the passage
B.A1		CO-3	Enrich their vocabulary.
Semester	1 .		Summaries a paragraph
	1.1) SEM	CO-4	Communicate effectively in different real-life situations.
	English	CO-1	Register complaints, make enquiries and give opinions.
B.A1	1 -	CO-2	Register complaints, make enquiries and give opinion
Semester		CO-3	Make proper self-introduction.
	1.7) SEM	CO-4	Respond well to questions at an interview.
	English	CO-1	Understand various types of application.
B.A1	Compulsory	CO-2	Understand the structure of application.
Semeste	r-2 (DSC ENG 1.1) SEM	CO-3	Write various applications.
		CO-1	Able to communicate skillfully in Business correspondence
		CO-2	Acquaint with the work culture in corporate world
		CO-3	The life of great personalities will motivate them to toil to be successful
	T 11-1	CO-4	Learn and gain fluency in the English language and conversation.
B.COM		CO-5	Denome officient in reading and writing skills.
Sem-I &	t II compulsory	CO-6	The drafting skills of the learners will be honed through grammar and
		CO-7	Become proficient in the language and to eventually inculcate professiona skills.
		CO-1	The learners will learn to understand and interpret any text they are
B.COM-1	English compulsory	CO-2	The interest of learners in listening to and watching good quality audio and
Sem-I	& II   AEC (Business Communication	CO-3	Learners will acquire proficiency in the skills of listening, speaking,
	Skills in English)	CO-4	The learners will develop good oral and written skills of communication the English language
		CO-1	Understand the paragraph, prose, poetry and communication skills
		CO-2	a till C1 les doubt routing

				Formulate/ compose his own sentences and able to speak English
		English	CO-3	
B.SC-1 Sem-I & II	compulsory	CO-4	Language Collaborate with others students in English.	
	Theory	CO-5	in the manufacture ideas and concepts in Eligibii	
			CO-3	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		-	CO-1	वैचारिक, लिति, कविता या विविध वाङमय प्रकारांचे ज्ञान होईल या वाङमय प्रकारांचे वेगळेपण जाणून घेतील
			CO-2	a land and alded
		-		क्रिक्त के निवास्त्राचित्र आकलत होडेल तसचे चीरित्र्याविषय असरारपा पार
			50.0	वैचारिक गद्यातून भाषच्या संजनशाल रूपाच विधार्थ्याना जानगरान एएररा ग्राम व्यक्तींच्या जीवन कार्यातून विद्यार्थ्यांना प्रेरणा मिळेल आणि संकटावर मात करून जीवनात यशस्वी होता येते
			CO-3	\ \( \cdot \
				हा विचार त्यांच्या मना रूजल लिलत कलाकृतीच्या वाचनातून आनंद, बोध, ज्ञान इत्यादींची प्राप्ती होऊन विद्यार्थ्यांच्या जीवनविषयक
			CO-4	
				जाणिवा समृद्ध होताल. वैचारिकता , सात्विकता, काव्यात्मकता भावनात्मकता, सामान्य गोष्टीतील असामान्यत्वाचे दर्शन यातून
B.,	A1	Marathi	CO-5	C C The river select
Sem	nester	Compulsory		विविध प्रकारच्या साहित्याचे आकलन, वर्णन, आस्वादन विश्लेषण आणि मूल्यमापन करण्याची क्षमता
1	& 2	Compaison	CO-6	० <u>६६ क्या में चित्र</u> पित्र होर्टल
				वाढवून विद्यार्थ्याची आमरूची विकासत हाइला. या वाङमय प्रकारातून विविध प्रकारचे नीतिमूल्ये, जीवनमूल्ये, यांची शिकवण विद्यार्थ्यांना मिळेल, त्याचा
			CO-7	2 002 0
				उपयोग उत्तमरातान जावन जगण्यासाठा हाइला. "उपयोजित" घटकाच्या माध्यमातून विविध प्रकारची कौशल्य त्यांच्यात निर्माण होतील वते रोजगारक्षम
			CO-8	10
				होतील. विचारवंत, लेखक, कवी होण्यासाठी हे अध्ययन प्रेरक ठरेल, सहाय्यभूत ठरेल. यातून विद्यार्थी भाषेचा
				विचारवत, लखक, क्वा हाण्यासाठा हे अध्ययम प्रत्या उत्तर, तरा पूर्व प्रति क्रिया निर्मिती करतील तसेच सर्जनशील वापर कसा करावा हे समजून घेतील व विविध प्रकारातील साहित्य निर्मिती करतील तसेच
			CO-9	व्यावहारिक उपयोजन करून रोजगारक्षम होतील.
				संभाषण कौशल्य विकासाला सहाय्य होईल.
		Ability	CO-1	
		Enhancement Course-I (AEC-I) & Skill	CO-2	मराठी भाषा क्षमतेच्या वाढीस मदत होईल
			CO-3	संभाषण क्षेत्राची दारे खुली होतील.
	3.A1	Enhancement		विविध व्यवसाय क्षेत्रात संधि उपलब्ध होईल.
	emester	Course-II		
]	1 & 2	विषय : मराठी	CO-4	
		भाषिक कौशल्वे :		
		संभाषण कौशल्य		के कि है के निर्माणनी जाणीत होईल
			CO-1	कादंबरी या वाङ् मय प्रवाहातून सामाजिक प्रश्नांची जाणीव निर्माण होऊन सामाजिक मूल्यांची जाणीव होईल
			CO-2	े <del>कार्य कार्य के विकास कार्य के किल्</del> स कार्य
			CO-3	नेमलेल्या कादंबरीमध्ये पात्रांच्या नात्यांची गुंतागुंत आणि भावनिक आदालनाचा शाध वता विहला.
			CO-4	भाषिक व वाङ् मयीन  मूल्यांचा अभ्यास होईल.
]	B.A1	Marathi	CO-5	ं ते चे चं अनुसार नात्रा मेहेल
S	emester	literature		कादंबरी स्वरूप घटक समजून घेतल्यामुळे जीवन व्यवहाराच्या केंद्रस्थानी असणाऱ्या मनुष्य व इतर घटकाव
	1 & 2	morature	CO-6	ुरुष्णित कार्न्सीलेखनाचा प्रयत्न करता येडेल.
			CO-	अधारत कादनसंख्याचा प्रचर करता स्थान १ "काव्य सरिता" च्या माध्यमातून विविध प्रकाराच्या रचनांचा अभ्यास करता येईल.
			CO-S	क्रमण्डिक जाणिता ग्रष्टीय एकात्मता प्रेमविषयक भावना, भावनिकती यो विचारीचा बाविलको निनाय हार्य
			CO-	<u>्रिक्त स्वर्धित है स्वर्धित है स्वर्धित है। स्वर्या है। स्वर्धित है। स्वर्धित है। स्वर्धित है। स्वर्धित है।</u>
_			CO-	d a surgest of History of Ancient India
			Describe the social, economic, religious and institutional bases of Alice	
		77'	CO-	4 7 1
		History of India		Analyze development of the concept of Nation-State background of
	B.A1	(History of India from Early to 70		nolitical history.
		A.D) & (History		and Indian Art & Architecture
1	Semester	India from 700	60	Learn the socio-political and cultural background of the Ancient Indian
1				") 'TT'
1	I & II	A.D to 1525 A.D	<u>).)</u>	Instory.
1			CO-	Angiant Indian History Tourist places and Guide Tourist.
			2.)	Learn various Ancient Indian History Tourist places and Guide Tourist.  Prepare for Competitive Examinations like UPSC, MPSC, and SET/NE

1			Understand various concepts in Social Studies through the Ancient Indian
		CO-8	History.
		CO-9	Learn developments of mankind.
		CO-10	Prepare the students for employability.
		CO-11	Study of Tourism in Sultanate Period's Indian Art & Architecture
		CO-12	Students are aware and able to describe tourist places.
	X	CO-1	Understand and explain the significance of Indian constitution as the
			fundamental law of the land.  To know the making process of the constitution and salient features of
		CO-2	To know the making process of the constitution and sament reactives of
			Indian constitution.  Exercise the fundamental rights in proper sense at the same time identifies
		CO-3	his responsibilities in national building.
	Political		Analyze the Indian Political System, the powers and functions of the
B.A1	Science	CO-4	Union, State Government in detail.
Semester			Critically analyzing the important institutions of Indian Union: The
I	(Indian Political System)		Executive: President, Vice-President, Prime Minister, Council of Ministers,
	System)	CO-5	State Executive: Governor, Chief Minister, Council of Ministers, The
			Legislature: Rajya Sabha, Lok Sabha, State Legislature, The Judiciary:
			Supreme Court and High Court: Composition and jurisdictions.
			To make conscious of the social, cultural, economic and political
		CO-6	environment that affects politics in India, at the national as well as regional
			levels
The state of the s		CO-1	Understand and explain the significance of Election Commission of India
		CO-2	know the powers and role of Governor, Chief Minister & Council of
B.A1	Political	CO-2	Minister
Semester	Science	CO-3	Understand structure & powers of Legislative Assembly and Legislative
II	(Indian Political System)		Council Council
11		CO-4	Explain the structure and jurisdiction of High Court and District Court
		CO-5	Know the Composition Function and Powers of Gram panchayat& Gran
			Sabha Apply knowledge and skill in the field of Economics and will be able to
		CO-1	
			have the employability in these areas  Describe and apply the methods for analysing consumer behaviour through
		CO-2	demand and supply, elasticity.
		CO-3	Perform analysis to analyse the impact of economic events on Markets,
B.A1	Micro	CO-4	To create a new approach towards the study of Economics.
Semester		CO-4	The course will illustrate how microeconomic concepts can be applied to
I	Economics	CO-5	analyze real-life situations
		CO-6	Analyse the performance of firms under different market structures,
		CO-7	Evaluate the factors affecting firm behaviour, such as production and cost
			To have better awareness regarding different Factors Pricing Rent, Wages
		CO-8	Interest and Profit
			Develop ideas of the basic characteristics of Maharashtra's economy an
		CO-1	its potential for natural resources.
			Understand agriculture as the foundation of economic growth an
D. A. I		CO-2	development, analyse the progress and changing nature of the agriculture
B.A1	Economy of		sector and its contribution to the economy as a whole.
Semester	Maharashtra	CO-3	Understand the role of Agriculture in Economy of Maharashtra.
II		CO-4	Study the issue of farmers suicide in Maharashtra.
		CO-5	Study the concept of FDI and its trends in Maharashtra
		CO-6	Consider the role of Industry and Service sector in Economy
		CO-0	Maharashtra.
		CO-1	Student important basic accounting knowledge at applicable to busine
B.COM-1	Principle of Accountancy		i.e. meaning of accountancy.
Sem-I		CO-2	Able to handling account transaction.
		CO-3	Maintaining sub subsidiary books and all types of cash books.

		CO-4	Calculation of depreciation method of assets.
		CO-5	Preparation of all types of final account.
		00.1	Application of Micro & Macroeconomic Concepts
	Dulus is 1 - C	CO-1	Tippineution of their contactoconomic concepts
B.COM-1	Principle of	CO-2	Application of Utility & Indifference Curve Analysis
Sem-I	Business	CO-3	Application of Demand Pattern
	Economics	CO-4	Application of Supply and Production Pattern
		CO-5	Application of Cost & Revenue Pattern
		00.1	With this course, students will be able to have clear understanding of
1		CO-1	managerial functions.
B.COM-1	Principle of	CO-2	Students will have the knowledge of planning process in the organization.
Sem-I	Business	CO-3	Students will be able to demonstrate the ability to directing, leadership and
John	Management		communicate effectively.
		CO-4	Students able to analyze isolate issues and formulate best control tools and
			techniques.
		CO-1	Get information about evolution and application of computer & its
	Computer	60.0	development.
B.COM-1	Fundamental	CO-2	Know about different elements of computer system.
Sem-I	And Operating	CO-3	Aware about different types of memory.
	System-I	CO-4	Get to know about different input devices and output devices.
4	Samuel Sa	CO-5	Learn to prepare a text document with complete formatting and
		00.1	page setting.
		CO-1	Prepare new document using Templates.
		CO-2	Change font size & font color.
	Computer	CO-3	Change line spacing of Paragraph.
	Computer Fundamental And Operating System-I (Practical)	CO-4	Change case of Paragraph
B.COM-1		CO-5	Create Bullets, Numbering list.
Sem-I		CO-6 CO-7	Create Subscript & Superscript.
		CO-7	Decrease and Increase of Paragraph indent.  Insert Header & Footer in document.
		CO-9	
		CO-10	Page Setup of Document.
		CO-11	Insert Page break, Section break, Columns. Students will learn to final Proofing and printing documents.
		CO-1	Rectification of Journal entry.
		CO-2	Student acquire the knowledge of nonprofit organization.
B.COM-1	Financial	CO-3	Prepare the all types of cooperative society account.
Sem-II	Accounting	CO-4	Students should be acquired partnership farm accountancy.
	2		The bill of exchange contest and unconditional order to pay a create amount
		CO-5	on as agree day.
		CO-1	Examine the difference between business and managerial economics.
		CO-2	Application of Discriminative nature of monopolist.
B.COM-1	Business	CO-3	Application of monopolistic competition, oligopoly, and perfect
Sem-II	Economics		competition
		CO-4	Application of demand and supply pattern of rent and wage.
		CO-5	Application of the theories of interest and profit.
	D ' ' 1 0	CO-1	To Familiar with business organization.
B.COM-1	Principle of	CO-2	Understand the concepts related to Business policies.
Sem-II	Business	CO-3	Demonstrate the roles, skills and functions of management.
	Organization	CO-4	To diagnose and solve organizational problems and develop optimal
			managerial decisions.
	Computer	CO-1	Get basic introduction of Computer and mobile operating systems.
B.COM-1	Fundamental	CO-2	Know concept of windows versions.
Sem-II	And Operating	CO-3 CO-4	Create and delete file in File Explorer.
	System-II	CO-4	Know concept of modern communication and network topologies.
		CO=3	Create e-mail account and compose e-mail massage.

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		CO-6	Create table, utilizing existing Template provided by Microsoft and add
			customization on Template according to user needs.
		CO-7	Identify steps in the process and complete an activity to create a mail merge.
		CO-8	Develop the skill of power point programs.
		CO-9	Insert various graphical object on slide.
		CO-10	Add different Transition, Animation, Sound and Timing effect to Slide.
		CO-11	Run a presentation on computer screen.
		CO-1	Know how to organize files/folder in File Explorer
			Understand different customization setting in windows 10.
	Computer	CO-2	Create windows login Account which is necessary for Windows 10
	Fundamental &	CO-3	Create table, utilizing existing Template provided by Microsoft and add
B.COM-1	Operating	CO-4	customization Template according to user needs.
		00.5	Add header and footer to long list of pages which is crucial.
Sem-II	System II	CO-5	
	(Practical)	CO-6	Complete Mail Merge process.
		CO-7	Change layout of pages
		CO-8	Create Presentation, designing slides and add different Transition and Animation effect to objects and Slide
		CO-1	Solve the conceptual questions using the knowledge gained by studying periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements.
		CO-2	Apply concepts of acids and bases as well as non-aqueous solvents and their industrial usage.
B.SC-1	Chemistry (Theory)	CO-3	Compare different reaction intermediates, functional group chemistry through the study of methods of preparation, properties and chemical reactions with underlying mechanism.
Sem-I		CO-4	Choose correct synthetic approach to prepare derivatives of industrially
		CO-5	important molecules.  Solve different numerical problem of varying difficulty associated with gaseous and liquid state.
		CO-6	Apply the concepts from advanced mathematics to solve the derivation of different chemical formulae.
		CO-1	Create models associated with periodic table.
B.SC-1	Chemistry	CO-2	Associate reaction intermediates and functional group chemistry with different types of reaction mechanisms.
Sem-I	(Module)	CO-3	Solve numerical problem associated with gaseous and liquid state
		CO-1	Synthesise different types of organic compounds.
		CO-1	Perform the process of filtration, crystallization, melting point, waste
D C C 1	Ola and interes	CO-2	management.
B.SC-1	Chemistry	CO-3	Understand the effect of orientation effect of a group.
Sem-I	(Practical's)		Skilfully determine the surface tension, viscosity of liquid.
		CO-4	Predict the endothermic or exothermic process from heat of solution of a salt.
		CO-5	
		CO-1	Apply the knowledge gained by studying types of bonding, solvation, hybridization and molecular geometries.
		CO-2	Draw the correct molecular structures, bond order and bond length.
B.SC-1	Chamiatar	CO-3	Synthesize commercially important compounds of varying carbon backbone.
Sem-II	Chemistry (Theory)	CO-4	Choose correct synthetic approach to prepare derivatives of industrially important molecules.
		CO-5	Solve numerical problems related to crystalline state.
		CO-6	Acquire skills to use chemical kinetics to develop mechanism of chemical reactions.
		00.1	Create models associated with molecular geometries, hybridization, MO diagrams
B.SC-1	Chemistry	CO-1	Create moders associated with molecular geometries, hybridization, ivio diagrams
Sem-II	(Module)	CO-2	Develop synthetic routes for halobenzene's and benzyl halides.
Join-II	(11104410)	CO-3	Solve numerical problems associated with crystalline state and chemical kinetics
		CO-1	Analyse the given organic compound qualitatively by different tests.
		CO-2	Prepare the derivative of the provided substance.

		CO-3	Illustrate the practical skills in volumetric analysis.
B.SC-1	Chemistry	CO-4	Differentiate types of titrations e.g., acid-base, redox, etc.
Sem-II	(Practical's)	CO-5	Comprehend the kinetics of reactions and interpret the experimental data.
		CO-6	Calculate, communicate and analyse the result.
		CO-1	Understand microbial diversity, reproduction and economic importance.
		CO-2	Differentiate the microbes, algae and fungi on the basis of morphology, cellular organization, nutrition and metabolic activities.
B.SC-1	Botany (Theory)	CO-3	Classify and identify the various algal genera.
Sem-I	Botally (Theory)	CO-4	Classify and identify the various fungal genera.
		CO-5	Systematize the plant diseases and their pathogens.
		CO-6	Apply understanding of microbial diversity, phycology and mycology for teaching primary to high school students
		CO-1	Acquire skill of isolation of Arbuscular Mycorrhizal Fungal and also able to classify the various species of mycorrhiza.
		CO-2	Evaluate the AMF spore in the soil sample of crop plants.
B.SC-1	Botany	CO-3	Establish own production unit of mushroom cultivation.
Sem-I	(Module)	CO-4	Asses the economy of mushroom cultivation.
		CO-5	Diagnosed the local crop diseases.
		CO-6	Advise the proper fungicides or other measures to prevent crop diseases.
		CO-1	Identify and classify the algae on the basis of morphology and other characters.
		CO-2	Create monograph of Algae and Fungi.
B.SC-1 Sem-I	Botany (Practical's)	CO-3	Demonstrate the structural details of viruses and bacteria included in practical work.
		CO-4	Evaluate the plant diseases of local plants and diagnosed the diseases on the basis of somatology.
	Botany (Theory)	CO-1	Demonstrate an understanding of Archegoniate, Bryophytes, Pteridophytes and Gymnosperms, morphology of angiosperm and medicinal plants.
		CO-2	Identify and classify plants from Bryophytes, Pteridophytes and Gymnosperms.
B.SC-1 Sem-II		CO-3	Develop critical thinking on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms and on morphology of angiosperm
		CO-4	Acquire skill of collection and preservation of Bryophytes, Pteridophytes and Gymnosperms
		CO-1	Understand the herbal technology.
		CO-2	Develop the skill for cultivation of plants.
B.SC-1 Sem-II	Botany (Module)	CO-3	Acquire the skill of morphological and microscopic examination of herbaplants.
		CO-4	List the major herbs, their Botanical names and chemical constituent's.
		CO-1	Understand forms of Bryophytes, Pteridophytes and Gymnosperms.
		CO-2	Acquire the skill of preparation of slides of plant body and reproductivorgans.
B.SC-1	Botany (Practical's)	CO-3	Classify and identify different plant parts on the basis of externa morphology.
Sem-II	(Flacucal S)	CO-4	
		CO-5	Develop critical understanding on morphology, botanical names an
B.SC-1	Zoology	CO-1	Develop a deeper sense with respect to phylum Protozoa to Echinodermateriation to taxonomy, classification, body organization and general characteristics this strengthens students' capability in basic zoology.
Sem-I	(Theory)	CO-2	Grasp various the Systematic positions from Protozoa to Echinoderma

		CO-3	Describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata.
		CO-4	Improve ability and apply Knowledge of Non-chordates for its execution in Agriculture especially with the phylum Arthropoda.
	- I	CO-5	Implement an extensive idea about economic and ecological significance
		CO-1	Observation, classification up to classes and sketching of the following animals (Specimens and models)
B.SC-1	Zoology	CO-2	Study of permanent slides
Sem-I	(Practical)	CO-3	Anatomical Study through computer aided techniques, Video clipping, models, photographs and other available resources.
and the same		CO-4	Mounting
		CO-1	know what the chordates are.
		CO-2	Learn about the different phylum of chordates.
		CO-3	Confidently explain the general characters and classification of Protochordates up to class Mammalia.
		CO-4	Understand the level of organization in chordate.
B.SC-1	Zoology	CO-5	Explain the origin and evolutionary relationship in different sub phylum's of chordates.
Sem-II	(Theory)	CO-6	Describe specific features of Protochordates up to class Mammalia.
		CO-7	Recognize and differentiate life functions of Protochordates upto class
		CO-8	Understand Migration in fishes and birds, parental care in Amphibians and Poisonous and non-poisonous snakes.
		CO-9	Explain the adaptations in Birds and Mammals.
		CO-1	Study on edible fishes from the local region.
		CO-2	Case study of diversity in frogs from surrounding areas.
	Zoology (Module)	CO-3	Survey of Photographic evidence of parental care in frogs in monsoon.
B.SC-1		CO-4	Survey the diversity of snakes in the surrounding area.
Sem-II		CO-5	Survey of Migratory birds in the forest /Grassland/Field.
		CO-6	Case Study of migratory wetland birds from local reservoirs.
		CO-7	Prepare a model on the evolution of man.
		CO-1	General characters and classification of Phylum Chordata:
B.SC-1 Sem-II	Zoology (Practical's)	CO-2	General characters and Classification up to orders of the following chordates or as per the availability in the laboratory from the major orders (Specimens or Models):
		CO-1	Discuss the basic concepts of rotational dynamics.
	Physics (Theory)	CO-2	Examine the phenomenon of simple harmonic motion and distinction between undamped, damped and force oscillations and the concept of resonance.
B.SC-1 Sem-I		CO-3	Explain the superposition of simple harmonic motion and acquire the knowledge of Ultrasonic waves, their production, detection and applications in different field.
		CO-4	Determine the constants of elasticity and relate it with appropriate things
		CO-5	Interpret the postulates of special theory of relativity.
		CO-6	Know the concept of Global positioning system (GPS)
B.SC-1	Physics	CO-1	Apply the principles of measurement and error analysis.
Sem-I	(Module)	CO-2	Develop the skills to handle various instruments with precision
Dom 1	(======================================	CO-1	List out, identify and handle various equipment likes different types of pendulums.
		CO-2	1 0 : '11 1' 1 :
B.SC-1 Sem-I	Physics (Practical's)	CO-3	Acquire skills in observing and measuring different types of errors.  Perform procedures and techniques related to experiments based of
OCILI-I		CO-4	I DITUIN DIVOUGIOD GITA LOCITINGS TO THE

		CO-1	Discuss the concept of scalars & vectors and their properties.
			Develop an understanding of Gauss law and its applications to obtain
		CO-2	electric filed in different cases.
D CC 1	DI '	~~	Formulate the relationship between electric displacement vector, electric
B.SC-1	Physics	CO-3	polarization and dielectric constant.
Sem-II	(Theory)		Distinguish between the magnetic effect of electric current,
		CO-4	electromagnetic induction and the related laws in appropriate
			circumstances.
		CO-5	Simplify electrical circuits by applying various network theorems.
-		CO-1	Make use of Multimeter for the measurement of electrical parameters and
B.SC-1	Physics	CO-1	get the knowledge of electronic components and their applications.
Sem-II	(Module)	CO-2	Estimate the power consumption of domestic appliances and carry out
			energy audit
		CO-1	Simplify various electrical circuits by using network theorems.
		CO-2	Learn the procedures of operation of electrical components like capacitor,
B.SC-1	Physics	00.0	resistor and inductor.
Sem-II	(Practical's)	CO-3	Acquire skills in measuring dielectric constants of different materials.
		CO-4	Perform procedures and techniques related to experiments based on
		CO-5	electrical and electronic circuits.
	E/	CO-1	Conduct an experiments collaboratively and ethically.  Understand the computer, I/O and peripheral devices.
1	Computer	CO-2	Understand concept of Operating systems.
B.SC-1	Science	CO-3	Apply the Programming concepts.
Sem-I	(Theory)	CO-4	Learn C language.
	(Theory)	CO-5	Write Simple C Programs.
	G	CO-1	To draw flowchart, learn Algorithms and write simple programs.
B.SC-1	Computer		To assess the curricular skills acquired by students at college level through
Sem-I	Science	CO-2	Assignments, Unit test, Internal Test, Group Discussion/Seminar/Mini
	(Module)		Project, Study Tour
		CO-1	Write word processing task.
	Computer Science (Practical's)	CO-2	Create worksheet and perform operations on it.
		CO-3	Design, compile and debug programs in C language.
B.SC-1		CO-4	Classify conditional expressions and looping statement to solve problems
Sem-I			associated with conditions and repetitions.
		CO-5	Demonstrate the programs using arithmetic and relational operators.
		CO-6	Implement the concept of various string handling functions.
		CO-7	Classify programming components that efficiently solve computing
		CO 1	problems in real-world.
		CO-1	Implement basic data structures such as arrays, stacks.
		CO-2	Use linked list, trees and queues.
	-	CO-3	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data.
B.SC-1	Computer		Describe the procedural and object-oriented paradigm with concepts of
Sem-II	Science	CO-4	streams, classes, functions, data and objects.
	(Theory)	CO #	Perform programming on functions, inline functions, constructor and
		CO-5	destructor.
		COC	Perform programming on the concept of function overloading, operator
		CO-6	overloading, virtual functions and polymorphism.
B.SC-1	Computer	CO-1	Acquire skill to work with core components of data structure
Sem-II	Science	CO-2	Acquire object-oriented programming skill.
DVIII-11	(Module)	00-2	
		CO-1	Perform various operations Data structure using CPP.
B.SC-1	Computer	CO-2	Develop the concept of dynamic memory allocation through linked list.
Sem-II	Science (Practical's)	CO-3	Design stack and queue with contiguous and non-contiguous data storage
~ 3111 11			mechanism.
. 4		CO-4	Perform the various operations on binary tree.

		CO-5	Implement sorting on 1-D array using different techniques.
			The students will be able to understand the contribution and thoughts
	Political	CO-1	Ca & 1 India
M.A1	Science (Indian	00.0	The students will analyse the knowledge of various Ideological Streams in
Sem-I	Political Thought)	CO-2	
	Tollical Theagar)	CO-3	Analyse and compare the ideas and theories of Indian Political Thinkers.
		CO-1	Lindament of the explain about constitutional Development in mata.
	-	CO-2	1 1 1 1 by of Indian constitutions.
į.	-		To understand the philosophy of indian consutations.  To understand the various Government of Indian acts their provision and
	Political	CO-3	
M.A1			They also know about different constitutional authorities in India such as
Sem-I	Science (Indian Government &	CO-4	Timened Commission and CAO.
Sei11-1	Policies Thought)	~~ *	Critically analyzing the important institutions of the indian Chion.
	1 Officies Thoughts)	CO-5	. p '1 / D Manatar
	-		Assessing the nature of Indian Federalism with focus on Union-State
		CO-6	Polations
		CO-1	Discuss the Evaluation of Public Administration.
		CO-2	a shout private and public Administration.
M.A1	Political		The students will be explain & critical analysis about various Approximes
	Science (Public	CO-3	- 11: 11 inhabition
Sem-I	Administration)		The students will become familiar with details of administrative
		CO-4	i -tion
		CO-1	The devetend the democratic decentralisation operating in India.
	Political	CO-2	Student Understand Evolution of local Self Government in muta.
M.A1		CO-3	The Devel & Urban Local Rodies nower and Fuctions.
Sem-I	Science (Local Self Government)		To analyse Rural & Orban Local Bodies powers  To critically studies the relationship between people's bodies and
		CO-4	
			Understanding about the historical and emerging trends in political process
		CO-1	in the India states.
		CO-2	- 1: D-Harma of state politics
3 T A 1	Political		Understand the constitutional system at state level, and the relation
M.A1	Science (Political	CO-3	between state politics and national politics.
Sem-II	thought)	CO-4	- 1 · 1 - Catata contra conflict in Indian Tedal Cuoli,
			Critically examine Issues of state politics like Linguistic, regional
		CO-5	11 1
	D 11/1 - 1		to the recognition of the course the students will acquire a
25 2 1	Political	CO-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M.A1	Science		The students will be able to explain the functioning of the Governance and
Sem-II	(Governance	CO-2	implementation Public Policy in India.
	Policy in India)	CO-1	City the basic principles of microeconomics.
			Interpret the concepts of utility, demand-supply mechanism, and
		CO-2	
			Apply these concepts to solve and analyze various problems of economic
M.A1	Micro	CO-3	nolicy
Sem-I	Economics-1	CO-	Analyze the perfect competitive market framework.
		CO-	A sees the framework and analyze microeconomic relationships.
		CO-	Devise pricing strategies for firms and calculate productivity and costs f
		CO-	
		-	the firm.  Explain the evolution of money and know the concept of money and its
		CO-	functions.
		CO-	To understand the national income concept.
		CO-	Know about the supply of money and high-powered money.
M.A1	1	-	Treatment of amountainment
Sem-I	Economics-1	CO.	Cil tunction
		CO	- 1 - 1 - 1 - 2 correspond investment
		CO	1 Contractor and the Cal Dolley
1	1	CO	Hyamate the Wolking and effects of monetary and have pro-

			Devise pricing strategies for firms and calculate productivity and costs for	
		CO-6	the firm.  Explain the evolution of money and know the concept of money and its	
		00.1	Explain the evolution of money and know are	
		CO-1	functions.	
		CO-2	To understand the national income concept.  To understand the national income concept.  Know about the supply of money and high-powered money.  Know about the supply of employment.	
1	Macro	CO-3	Know about the supply of money and mgs ?  To gives the idea of Keynesian theory of employment.  To gives the idea of Keynesian theory of employment.	
M.A1	Economics-1	CO-4	To gives the idea of Keynosian areasymption function.	
Sem-I	Economics	CO-5	To gives the idea of Keynesian meory of empty.  To understand the theories of the consumption function.  To gives an idea about how to make a saving and investment.  To gives an idea about how to make a saving and fiscal policy.	
		CO-6	To gives an idea about now to make a potenty and fiscal policy.	
		CO-7	Evaluate the working and cheets a special tural economics.	
		CO-1	Explain the scope and subject matter : 14 and production.	
		CO-2	To understand the rural intrastructural and economic development.	
		CO-3	To analyze the issues related to agreement agricultural risk.	
		CO-4	Deals with the farm management and types of Labor and Segmentation in	
3 f A 1	Agricultural		To understand the Labor Supply, has	
M.A1	Economics-1	CO-	Labor Markets.	
Sem-I	Economics		Labor Markets.  Evaluate the problem of agricultural finance and suggestion to improve	
		CO-	agricultural finance.  Know about agricultural growth in India and the effects of globalization.	
			Know about agricultural grown in more and	
		CO-	1 Consument in the economy.	
		CO	To understand the role of government in the state of the fiscal Federation.	
		CO	To understand the role of government in the control of understand the different aspects of the fiscal Federation.  To understand the different aspects of the fiscal Federation.	
ı		000	To understand various aspects of monetary	
		CO	in monetary and fiscal poncy sixes are not of public choice.	
	143	CC	To develop an understanding of various aspects of puede To know the structure of public expenditure its theories and social cost-	
M.A1	Public finan	ce	To know the structure of public experience	
Sem-I	1 done min	CC	benefit analysis.  To understand the concept of public debt and the principle of debt	
		0.0	To understand the concept of public see	
		C	management and repayment.  To know the detail about central and states income sources and the	
		0	To know the detail about central and serve	
			concept of VAT.  Report a thorough understanding of the basic principles of	
	_		Report a thorough understanding of the large state	
			microeconomics. Interpret the Monopolistic market framework, and apply it to	
			O-2 Interpret the Monopolistic market 2	
			microeconomic situations.  O-3 Illustrate the features of the Oligopolistic market.  O-3 Illustrate the features of welfare economics.	
M.A	.1 Micro	(	Illustrate the features of the Origopeanomics.  Break down the nuances of welfare economics.  Break down the nuances of welfare and analyse various problems of	
	77	cs (	Break down the nuances of welfare economics.  Review the above concepts to solve and analyse various problems of	
Sem-	Lononia	1	Review the above concepts to solve and the second is designed.	
			economic policy.  Devise and apply game-theoretic solutions for economic decision-	
				Devise and apply game-incored services and apply game-incored
			making.  This course is useful for understanding various real economic issues and	
-			This course is useful for understanding	
		1	evaluating diviti	
M.A	1	1	CO-2 Policy outcomes  To consider the role of the Industry and Service sector in the economy of the CO-3.	
Sem	-II Econon	nics	CO-3 Veberashtra	
			Maharashtra.  To create an understanding of the role of industries in econor	
			CO-1 To create an understanding of the	
			development.  To know the government's industrial policy since 1948 and from the	
			To know the government's industrial position of economic reforms.	
		wio1	period of economic reforms.  It is useful to know the impact of new economic policies on the indus	
M.A	A1 Indus	1	CO-3 It is useful to know the impact of new events.	
Ser	n-II Econo	mics	sector of India.	
			CO-4 It is important to study regional imbalance in industria.  Creating knowledge about the trade union movement in India and laboration.	
		f	Creating knowledge about the trade union movement	
1		1	market reforms.	

			1. C. C. in comital for industrial
		CO-6	It is important to know the need for foreign capital for industrial
		CO-0	development.
		CO-1	It is Useful to Know the relation between environmental Issues and various
			Variables in the Economy.  Creating knowledge about Government's environmental policies in India.
		CO-2	Creating knowledge about Government's chyllometric post-
7.6.4.1	Environmental –	CO-3	Creating knowledge about Governments  Create understanding about awareness of environmental problems.  It gives information about environmental Problems in the Industrial and
M.A1	Economics	CO-4	
Sem-II	Economics		Agriculture sectors.  It is Useful to Know the Global attempts and policies regarding
		CO-5	
	_	CO-6	TI 1 and Durol Environmental Propicitis.
		CO-0	It is Useful to Know Urban and Kurai Environmental Process of Application of concepts of Managerial Economics in the process of
		CO-1	1
		CO-2	A villation of demand supply concepts towards consumer choices.
		CO-3	1: f damend supply concents towards consumer choices.
M.COM-1	Managerial	CO-4	CD district process determination ill valious mutation.
Sem-I	Economic		Assessment of Production process determinates  Impact of business cycles in Agriculture, Industry, Services and Share
		CO-5	The second secon
		00 6	Market.  Application of pricing practices in various markets and bargaining
		CO-6	1 sign thoroof
		CO-1	Investments are assets held by an enterprise for earning income.
		CO-2	Final Accounts gives an idea about the profitability and financial posting
		CO-2	of business to its management, owners and other interested parties.
	Advanced		The cost sheet is prepared to ascertain cost of product/job/operation or to give attire or to determine tender price for supply of goods or providing
M.COM-1	Financial &	CO-3	
-	Cost		Service.  Operating result the operating result is the surplus or deficit for the year operating result recognizes all the surplus results recognize all the surplus recognizes a
Sem-I			Operating result the operating result is the surprise under the Accounting Standard framework an getting result recognizes all
	Accounting	CO-4	and anaroting expenditure
			Accounting for construction contracts is the allocator of contract revenu
		CO-5	1 when at
		CO-1	Application of CIBIL Score in qualifying the proposal of advances.
	Banking &	CO-1	Impact of Monetary Policy on various industries.
M.COM-1	Insurance	CO-3	Impact of PMIIBY & PMSBY.
Sem-I	Services	CO-4	Assessment of Claim Settlement Procedure of Life Insurance.
		CO-5	A seesament of Claim Settlement Procedure of General Insurance.
<u> </u>		CO-1	Standard will understand seven phases of marketing of service in deptil.
	Service	CO-1	G. 1 ill and deretand strategic issues necultar of service marketing.
14 COM 1	Marketing &	CO-2	Students will understand an importance of new and innovative concepts
M.COM-1	Customer	CO-3	CDM Commonially E CDM
Sem-I	Relationship		Demonstrate idea creation and implementation of CRIVI for differen
	Management	CO-4	in a sector
		+	the interest line item data from a company's financial
		CO-1	
			1
		CO-2	A cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the amount of the cash flow analysis determines a company's working capital the cash flow analysis determines a company's working capital the cash flow analysis determines and cash flow analysis determines a company and cash flow analysis determines a cash flow anal
			of money available to run business operation and complete transaction
	Accounting for		Total Calculate as current assets and current liabilities.
M.COM-	Managerial		That is Calculate as current assets and determined shows the different the outcome of Anovit in the statistics. This ratio shows the different three and which ultimately produces a figure and which ultimately prod
Sem-II	Decision	CO-3	between the within group variance and which ultimately produces a figure that the hypothesis is supported or rejected.
			which allows a conclusion that the hypothesis is supported or rejected.
			BEO fells you how many units of a product must be sold to cover the fix and variable cost of production The BEP is considered to measure of
		CO-	and variable cost of production the BET is considered to instante of
			margin of  Budgetary control is the process of preparation of budgets for variety  Structure of the process of preparation of budgets for variety of the process of preparation of budgets for variety and preparation of the process of preparation of budgets for variety and preparation of the process of preparation of budgets for variety and preparation of the process of preparation of the process of preparation of budgets for variety and preparation of the process of the process of preparation of the process of preparation of the process of t
		CO-	Budgetary control is the process of preparation of edges activities and company the budget figures for arriving at deviation of a
11			

			The hadget is a means and hudgetary
			which to be elemental in future. Thus, budget is a means and budgetary
			control is the end result.
		CO-1	Demonstrate decision making ability and dynamism.  Will understand major theories, background work, concept and research
		CO-2	
1.00111	Strategic —		- of the tools and technique used by
M.COM-1	Management	00.0	executives in executing strategies and will appreciate its integrative and
Sem-II	1VIanage	CO-3	1: 1:
			Demonstrate practical situation for diagnosing and solving organizational
		CO-4	. 5 Delete theories and device application of it
			Student Understand decision making process both at individual level and
	Management	CO-1	
	Concept &		Student Understand Power, Politics, and Accomplishing organizational
M.COM-1	Organization	CO-2	goals.
Sem-II	Behavior	00.2	Students demonstrate ability to manage conflicts.
	Denavior	CO-3	Standards will determine I eadership style according to the situation.
		CO-4	The service allows students to interpret and process to understand
		00.1	higher standard of word processing. Students can perform the practical
		CO-1	parts and remove mistakes on word documents.
			Students should be able to demonstrate and understanding of accounting
			theory. Apply accounting procedure by using computer accounting
		CO-2	theory. Apply accounting procedure by using compared
	Computer		software. Perform accounting reports and records.  Enable students to gain expert knowledge, principles and procedure of
	Application in		Enable students to gain expert knowledge, principles and problem- computerize accounting and taxation. Critical thinking and problem-
M.COM-1	Business (Skill	CO-3	computerize accounting and taxation. Critical timining and processing and taxation
Sem-II	Enhancement		solving skills in analyzing financial information and taxation.
			Student should know basic data types in spreadsheets. Is able to determine
	Course)	CO-4	database and convert them. Know basic functions to calculate
		CO-4	mathematical, statistical and logical operations. Have skills of data
			visualizing depending on data and task types.
			Understand how to start MS – Excel and SPSS. Enter basic data into SPSS
		CO-5	and Carry out statistical analysis that can test hypothesis. Develop various
			required graphs.
		CO-1	Describe what micro soft word 2013 and how it is useful in both personal
		CO-1	and professional life.
		CO-2	Create a new document, work with a document, format text insert and work
	Computer		with clip arts and pictures, use the mail merge, print a document and create
	Application in		high quality document designs and layouts.
1,00011	Business	CO-3	Enter the accounting transactions in computerized format and gate the
M.COM-1	party distribution science	CO-3	
Sem-II	(Practical) Skill	CO-4	Acquire the skill of financial decision making and interpret the financia
	Enhancement	CU-4	gtatements as well as evaluation of stock of the end.
	Course	00 5	Apply the micro soft office Excel program and modify a worksheet. World
		CO-5	with cell references.
		00.6	Learn to use functions and formulas. Create and edit tables, charts and
		CO-6	arenha Import and export data
			Predict the nature of bond and its properties through various electronic
		CO-1	structural methods: honding models.
		CO-2	Recognize and assign symmetry characteristics to molecules and objects,
			Understand and analyse structure-property correlation of coordination
		CO-3	compounds
MCa 1	In-Organic	CO-4	: a 1 the strength of ligand field
M.Sc1			design new coordination compounds based on a nindament
Sem-I	Chemistry (Th)	CO-	understanding of their electronic properties.
			Appreciate specialized and advanced topics in inorganic and coordination
		CO-6	
			chemistry Correlate structure and bonding with reactivity of boron clusters.
		CO-	1 1 1 1 1 1 1 1 1
			A THE PART OF THE PARTY OF THE

			CO-1	Implement rules of aromaticity to organic molecules.
	M.Sc1	Organic	CO-2	Sketch organic molecules in different projection formula and assign its configuration.
			CO-3	Apply their understanding about the organic reactions of industrial significance with respect to the chemo selectivity, regioselectivity and enantioselectivity.
+	Sem-I	Chemistry (Th)	CO-4	Analyze the product distribution and the stereochemistry of various organic products.
			CO-5	Evaluate the organic reactions based on the influence of the substituents on substrate molecules.
			CO-6	Design organic reactions in order to achieve the required product(s).
			CO-1	Understand basic concepts and theories for quantum mechanics, surface chemistry, thermodynamics and electrochemistry.
			CO-2	Apply the concepts of quantum mechanics to solve higher order problems associated with shapes, size and energy of atomic entities.
	M.Sc1 Sem-I	Physical Chemistry (Th)	CO-3	Develop the methodologies to identify and use colloidal substances and micelles.
	Seni-1	Chemistry (111)	CO-4	Implement and build theoretical and experimental processes using thermodynamics and electrochemical concepts.
			CO-5	Solve numerical problems associated with quantum mechanics, thermodynamics, and electrochemistry.
1			CO-1	Appraise specific analytical technique based on sample and target analyte.
			CO-2	Develop analytical ability and critical thinking in selection of statistics and their use in making interpretation meaningful and productive.
	900 p.l.o. 1840 Vill		CO-3	Understand the principles of chromatographic techniques.
	M.Sc1	Analytical	CO-4	Select proper chromatographic technique among the available techniques.
	Sem-I	Chemistry (Th)	CO-5	Corelate the use of indicator used in different types of titrations.
			CO-6	Explore electroanalytical techniques based on conductance and emf measurements.
			CO-7	Design buffer systems of the required pH.
			CO-1	Provide basic insights into concept of resonance and three-dimensional arrangement of molecules.
	M.Sc1	Structural Chemistry	CO-2	Draw and compare the significant resonance contributor, help to assign the correct configuration.
	Sem-I	(AEC-1)	CO-3	Draw and name structure using structure drawing software.
		(ALC-1)	CO-4	Prepare and present report on a particular topic.
			CO-5	Develop imagination of molecule in three-dimensional space.
			CO-1	Select the proper indicator for a titration.
			CO-2	Improve scientific skill of data collection and analysis.
	M.C. 1	Physical	CO-3	Create methods for estimation of concentration of electrolytes in mixture using potentiometry.
M.Sc1		Chemistry (Lab-1)	CO-4	Corelate nature of graphs in conductometric titrations.
	Sem-I		CO-5	Get awareness about laboratory skills of handling electroanalytical instruments.
			CO-6	Apply concept of critical micellar concentration to cleaning power of detergents.
		('hemistry	CO-1	Design the methodologies to develop eco-friendly and green technology for industry and research.
	N.C. 1		CO-2	Develop methods and remedies for reactions with environmental pollution.
	M.Sc1		CO-3	Improve scientific practical information orally and in writing.
	Sem-I	(Lab-2)	CO-4	Get awareness about laboratory safety and handling of chemicals.
			CO-5	Apply different purification techniques recrystallization, thin layer chromatography, distillation and solvent extraction.
	Control of the Contro		CO-1	Recollect the principles of electronic structure, bonding and reactivity of coordination complexes.

		CO-2	Understand the concept of synthesis and stability of transition metal
		CU-2	organometallic complexes.
	Advanced In-	CO-3	Develop the possible catalytic pathways leading to desired products.
M.Sc1 Sem-II	Organic	CO-4	Apply the principles of transition metal coordination complexes in understanding functions of biological systems.
	Chemistry (Th)	CO-5	Identify the medicinal applications of inorganic compounds.
		CO-6	Unravel and interpret the photochemical properties of coordination complexes.
	Organic Reaction	CO-1	Predict the orientation and stereochemistry of the product of addition reaction
M.Sc1		CO-2	Predict the orientation and stereochemistry of the product of elimination reaction.
Sem-II	Mechanism	CO-3	Apply enolate chemistry to achieve molecular complexity.
	(Th)	CO-4	Design organic reactions in order to achieve the required product(s).
		CO-5	Formulate green chemistry synthesis to increase atom economy.
			Understand basic and advanced level statistical thermodynamics, reaction
		CO-1	kinetics, photochemistry and nuclear-chemistry.
	ni ' 1	CO-2	Apply the concepts of statistical thermodynamics and reaction kinetics to solve complex problems.
M.Sc1 Sem-II	Physical Chemistry-II	CO-3	Demonstrate the ability to use chemical dynamics to solve problems associated with enzyme kinetics, fast reactions and complex reactions.
Dom 11	(Th)	CO-4	Implement and build theoretical models for reaction rates, thermodynamics and nuclear phenomena.
		CO-5	Solve numerical problems associated with statistical thermodynamics, reaction kinetics, photochemistry and nuclear chemistry.
	Analytical Chemistry-II (Th)	CO-1	Select most suitable modern chromatographic technique for separation of analyte from matrix.
		CO-2	Explain various types of columns and detectors used in chromatography.
		CO-3	Determine pKa value of indicator using potentiometry.
M.Sc1		CO-4	Summarize principles and applications of molecular absorption and molecular emission spectroscopy.
Sem-II		CO-5	Design experiments based on spectrophotometry and polarographic
		CO-6	Apply the principle involved in radioanalytical techniques and instrumentation therein.
		CO-7	Formulate experiments based on optical and electroanalytical techniques.
	1 1 D 0	CO-1	Correlate concept of pKa to predict the reaction mechanism.
M.Sc1	Virtual Lab	CO-2	Apply the basic operations of spreadsheet applications.
Sem-II		CO-3	Operate various Chemistry software with advanced functions.
Dun ii		CO-4	Prepare and present report on a particular topic.
		CO-1	Apply knowledge to determine reaction rate of chemical reactions.
	In-Organic Chemistry (Lab-3)	CO-2	Create methods for estimation of concentration of electrolytes in mixtur using potentiometry.
M.Sc1		CO-3	Corelate nature of graphs in conductometric titrations.
Sem-II		CO-4	Improve skill to perform experiment in electroanalytical methods.
		CO-5	Corelate structure property relationship of conjugated systems.
		CO-6	Design conjugated polymer of desired optoelectronic property.
	Chemistry	CO-1	apply knowledge to develop method for qualitative identification element from the mixture having applications in industry and research.
		CO-2	Create methods for estimation of element/metal from the complexes.
M.Sc1		CO-3	Improve skill for separation identification and removal of interfering radicals.
Sem-II		CO-4	Get idea about development of spot test for the different elements.
			Understand importance of metal complexes and green methods for the
		CO-5	synthesis.

			CO-1	Understand structural organization and functional role of cell, organelles and biomolecules.
		Cell &	00.2	Correlate the various life processes and their functioning.
	M.Sc1		CO-2	Understand the process of chromosomal organization and its role in cellular
	Sem-I	Molecular Biology	CO-3	metabolism.
	1		CO-4	Evaluate the various life processes and their regulations with special
-				reference to regulation of gene expression.
f			CO-1	Understand the phycology with special reference to Indian work.
			CO-2	Identify Algae in diversified habitats (Terrestrial, fresh water, marine)
-				Criteria used in classification of algae, Role of algae in human welfare.  Know General account of thallus organization, reproduction and life
	M.Sc1	Evolution &	CO-3	history of algae.
	Sem-I	Diversity of		Study important groups of algae Cyanophyta, Chlorophyta, Charophyta,
	Selli-1	algae & Fungi	CO-4	Xanthophyte, Bacillariophyta, Phaeophyta & Rhodophyta.
				Study General Characters of Fungi Classification., Economic importance
			CO-5	of fungi in medicine, Use Algae and fungi in Agriculture (Biopesticide and
				biofertilizer) & Fungi as plant pathogen.
$\vdash$		Economic	CO-1	Study the origin, divarication, utility and conservation strategies & natural
	N.C. 1	500 100 100 100	CO-1	resources.
	M.Sc1	Botany &	CO-2	Study importance of food, fiber, medicines & oil yielding plant.
	Sem-I	Resource	CO-3	Study the plants and their value in the service & mankind.
4		Utilization	CO-4	Study the conservation of biodiversity.
1			CO-1	Deal with regulation of growth and development of plants in relation to
			001	bio-molecular interaction.
			CO-2	Know the various structural and anatomical components of plant tissue and
				reproductive parts.
			CO-3	Understand Structure and development of Flower, Male gametophyte, Female gametophyte, Seed development, dormancy.
			CO-4	Know about plant anatomical structure, their developmental patterns.
	M.Sc1		CO-4	Identify plant reproductive parts development of male, female
	Sem-I		CO-5	gametophytes, seed and fruits.
			CO-6	Know anomalous Secondary Growth.
				Apply the knowledge of anatomy, structure and functions to all flowering
			CO-7	plants.
				Apply the embryological techniques and methods to various plant species
			CO-8	and situations. Understand and apply the knowledge of pollen biology and
L				methods and techniques to various plant species.
			CO-1	Create monographs of algal isolates.
			CO-2	Classify and identify algal genus.
1	M.Sc1		CO-3	Demonstrate the application of algae in different fields.
	Sem-I	Lab-1	CO-4	Create monographs of fungal isolates.
			CO-5	Classify and identify algal genus.
			CO-6	Perform Diagnosis of plant diseases.  Create compendium of plant diseases.
F				Know the importance cultivation & uses of economically important plants.
		Lab-2	CO-1	Identify medicinal plants & uses of medicinal plants, which are locally
	M.Sc1		CO-2	available.
	Sem-I		CO-3	Survey extramural, sources of various non-wood forest products.
	Ocili-1		CO-4	Know Conservation strategies of rare & threatened plant species.
			CO-5	Identify important plants & their value in the service of the mankind.
F			-	Demonstrate a depth of knowledge of physiological processes together
	MCa 1			with a better understanding of interaction and regulation of growth,
	M.Sc1		CO-1	metabolism and development and influence of environment on plant and
	Sem-II			further will be able to communicate scientific ideas in both written and oral
1				forms to diverse audiences.

t		CO-2	Showcase knowledge of various signal transduction mechanisms in plants. The concept of second messengers, calcium signaling, kinases/phosphatases in plant signaling would be delineated to enhance their grasping power for understanding of different signaling pathways operative in plants. Two component signaling concept would be introduced and extended to plant hormone signaling. Quorum sensing and its potential biotechnological applications should be clear to students after these classes.
*		CO-3	Gain knowledge about various mechanisms such as channel or transport proteins involved in nutrient uptake in plants. Further the course will deal with various phytohormones and their role in physiology of growth and development. This course will introduce students to physiological advances in sensory photobiology.
		CO-1	Understand evolutionary diversification of early land plants and morphology and reproduction in bryophytes, pteridophytes.
M.Sc1	Evolution and Diversity of	CO-2	Know the Ecological and Economic Importance of bryophytes, pteridophytes.
Sem-II	Bryophytes and	CO-3	Classify Bryophytes into various groups, study their importance.
	Pteridophytes	CO-4	Classify Pteridophytes into various groups, study their importance and multiplication of important ferns know the applied aspects of Bryophytes and Pteridophytes.
		CO-1	Understand the concept of classical and modern genetics clearly.
ĺ		CO-2	Study the inheritance pattern.
	Genetics plant Bradding	CO-3	Know the role of chromosomes in evolution and the factors leading to changes in them.
M.Sc1 Sem-II		CO-4	Study mutations and breeding and their significance in crop improvement. study the variation in populations.
Schi-H		CO-5	Differentiate the genetics changes and can justify the reasons.
		CO-6	Signify the maternal inheritance can be very well elaborated.
		CO-7	Explain how mutations can lead to variation and lethality.
		CO-8	Apply their knowledge to the changes in population genetics.
		CO-1	Study the plant biochemistry and its various aspects.
		CO-2	Study the metabolism and regulation of bio molecules.
3.50	Plant	CO-3	Understand the medicinal properties of plants and its constituents.
M.Sc1	biochemistry &	CO-4	Study the evaluation and standardization methods of drugs.
Sem-II	Pharmacognosy	CO-5	Classify Carbohydrates, Lipids, fatty Acids and their importance.
		CO-6	Learn about the techniques of crude drug preparations.
		CO-7	Expand knowledge domain in tune with Drug development.
		GO 1	Find out the taxonomic characters of the different animals and apply for
Ì		CO-1	forming the zoological names of the animals in biosystematics.
	Animal Structure & Function (Non- Chordata)	CO-2	Classify invertebrates by using different methods and can develop different cladogram and phylogram.
M.Sc1 Sem-I		CO-3	Compare different systems in all phyla of no chordates and compare it with evolutionary significance of it. They know about the transition occurred with time scale. They can explain digestive, respiratory, circulatory, excretory, reproductive and nervous system from Protozoa to Hemichordate.
		CO-4	find out distinguished mechanism of the different system function and the
		CU-4	change in their mode of function if any throughout the invertebrate series.
		CO-5	Identify various larval forms of invertebrates like of Porifera, coelenterate, helminths, Annelida and Crustacea.
	Animal		Describe different types of taxonomic characters and rules and operative
M.Sc1		CO-1	principles of International Code of Zoological Nomenclature and designate
	Structure & Function		zoological names.
Sem-I	(Chordata)	CO-2	Distinguish the Endo skeletal system of Protochordates and Chordates and replacement of the cartilaginous structure by bones.
			Tables and the second and an area of a second and a second a second and a second an

				Study different systems throughout the vertebrate series as per their
			CO-3	Study different systems throughout the vertebrate series as peradaptations in different habitat and their successive modifications.
				Explain structure and functioning of sense organs of mammals.
			CO-4	Explain structure and functioning of sense organs of manufacture and functioning of sense organs or manufacture and functioning or sense organs or manufacture and functioning organs
			CO-5	Learn migration avenues of Fishes and Birds, their types, occurring threats etc.
			00.1	and opganesis in enkaryotes.
		1	CO-1	Study spermatogenesis and obgenesis in curvay order.  Determine different events and their mechanisms during fertilization and
		_	CO-2	1 1 - 4 - 4 - 4
1	M.Sc1	Gamete	CO-3	Learn assisted reproduction techniques to overcome interuncy.
	Sem-I	Biology	CO-4	Understand Ex vivo and In vivo gene therapy etc.
		-	CO-5	1 to the control and methods
			CO-1	is all action and differentiation ill whole voltoblate server
				Study different body axis formation in <i>Drosophila</i> , Amphibia and Chick
	MCa 1	Genes &	CO-2	
	M.Sc1	Differentiation	CO-3	Learn about Human Aging and Senescence and factors affecting it.
	Sem-I	Differentiation	CO-4	Describe Piology of sex determination.
			CO-5	g. 1 their properties types markers and disorders cic.
			-	Study stem cens, then properties, types master.  Separate and determine molecular weights of protein by gel
			CO-1	1 1 1 made
			00.0	Prepare histochemical demonstration of lysosomes by acid phosphatase
	M.Sc1		CO-2	
	Sem-I	Lab-1	00.3	Prepare histochemical demonstration of DNA by Fuelgen technique and
	SCIII-1		CO-3	DNA/RNA by MGPY Technique
			CO-4	Prepare histochemical demonstration of carbohydrate by PAS reaction
			CO-5	Separate Amino acid by Paper chromatography.
			CO-6	Investigate bacterial growth and different microbial preparations
			CO-1	Realize the importance of animal ethics in laboratories
			CO-2	Compare the structural differences of the reproductive organs of male and
			CO-2	female animals.  Analyze the events of oogenesis and spermatogenesis through histological
	M.Sc1	Lab-1	CO-3	Analyze the events of oogenesis and spermatogenesis and spermatogenesis
	Sem-I	Lao-1		preparations  Distinguish between the developmental/metamorphic events in the life
			CO-4	cycle of frog, Chick and Lymnea.
			60.5	Count the sperms and analyse semen for fructose contents
			CO-5	Understand and Compare Bio membranes and extracellular matrix.
			CO-1	
	M.Sc1	Molecular Cell Biology	CO-2	Analyse types of Cells Signaling pathways and Cell cycle control.
	Sem-II		CO-3	
	Schi-ii		CO-4	
1			CO-5	1 in similar and uses of techniques in Biology.
			CO-1	Find principles and applications of advanced microscopes and compa
		Tools &	CO-2	their uses.
-	M.Sc1	techniques in	CO-3	A 1-mt different microbiological techniques.
	Sem-II	Biology	CO-3	
			CO-5	Study Pediaisotope and mass isotope techniques in biology.
			CO-1	ghadra histology and histophysiology of different endocrine gianus.
			CO	Study dissolved and discourse and their actions at cellular as well
			CO-	genetic level
			CO-	G. 1. regulation of the processes in organism by hormones.
	M.Sc1	En de suin ele ser	7	Describe synthesis, transport and metabolism of steroid and nonstero
	Sem-II	Endocrinology	CO-	† 1
			CO-	Guntar harmonas of different endocrine glands and relative diseases.
				Study hormone replacement therapy and neuroendocrine mechanisms
			CO-	different animal
			CO-	1.1 . 1 1 - hintin interactions

		Т	
		CO-2	Describe population ecology in terms of diversity indices along with growth curves, demes and dispersal.
		CO-3	Study community ecology, ecological succession, ecosystems.
		00.4	Describe environmental pollution and effects on nature, global warming
M.Sc1	Environment &	CO-4	global dimming.
Sem-II	Ecology	CO-5	Study conservation biology through sanctuaries, National parks, Project
		CO-3	Tiger and Biosphere reserves.
		CO-6	Study toxicological effects of pesticides and remedial aspects of it.
		CO-7	Study Inter-Government Policy/Protocol for Climate change, Intellectual
/		00-7	Property Rights and Environment Impact Assessment Processes.
Control of the Contro	Lab-3	CO-1	Separate and determine molecular weights of protein by gel
		001	electrophoresis.
		CO-2	Prepare histochemical demonstration of lysosomes by acid phosphatase
M.Sc1			activity.
Sem-II		CO-3	Prepare histochemical demonstration of DNA by Feulgen technique and
			DNA/RNA by MGPY Technique.
		CO-4	Prepare histochemical demonstration of carbohydrate by PAS reaction.
		CO-5	Separate Amino acid by Paper chromatography.
		CO-6	Investigate bacterial growth and different microbial preparations
		CO-1	Study human hormonal disorders.
		CO-2	Analyse parameters of different soil samples.
M.Sc1	Lab-4	CO-3	Analyse parameters of different water samples.
Sem-II		CO-4	Calculate Diversity indices (Shannon, Simpson).
2011111		CO-5	Determine RQ.
		CO-6	Identify Freshwater Plankton from water samples.
		CO-7	Perform Qualitative analysis of Pollution indicators.



Principal
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