



Shri Shivaji Education Society Amravati's  
**SHRI SHIVAJI SCIENCE AND ARTS  
COLLEGE**

**Chikhli, Dist. Buldana- 443201.**

**NAAC Reaccredited with 'B++' Grade (CGPA 3.0)**

**Dr. Meena T. Nikam**  
**Officiating Principal**

**Hon'ble Shri Harshvardhan P. Deshmukh**  
**President**

**1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

**1.2.1.1 Number of Programmes in which CBCS/ Elective course system implemented.**

<b>Year</b>	<b>2022-23 &amp; Onwards</b>
<b>Number</b>	<b>26</b>



*Harshvardhan P. Deshmukh*  
**PRINCIPAL**  
Shri Shivaji Science & Arts  
College, Chikhli, Dist Buldana

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**CBCS/ Elective Course**

# Zoology

**Sant Gadge Baba Amravati University Amravati**  
**Syllabus Prescribed for 2022-23 UG Programme**

**B. Sc. Zoology**  
**Faculty of Science and Technology**

**POs:**

At the time of graduation, Students will be able to

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

**PSOs**

By the end of the programme, Students would be able to

1. 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.
2. grasp various the Systematic positions from Protozoa to Echinodermata their pathogenicity and its epidemiology.
3. describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata. Improve ability and apply Knowledge of Non-chordates for its execution in Agriculture especially with the phylum Arthropoda.
4. Implement an extensive idea about economic and ecological significance of various non-chordates phylum's in human life.

**Employability Potential:**

**Programme : B.Sc : I- Zoology**Name of the programme: **B.Sc. I**Class : **Part I S**Semester : **I ,DSC -1-01S**

Subject Zoology

Name of the course ( Paper): **Life and diversity of Animals ( Non-chordata)**

Course Outcomes Code : COs-01

**About the course**

The course is a walk for the Bachelor's entrant through the amazing diversity of living organism from simple to complex. The course makes a detail comparison of the systematic study of different taxa of Non-chordate. It enlightens how each group of organisms arose and how did they establish themselves in the environment with their special characteristics. It also deals with the differences and similarities between organisms on the basis of their morphology and anatomy which led to their grouping into taxa and clades.

COs:

Upon completion of this course successfully, students would be able to

1. 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.
2. grasp various the Systematic positions from Protozoa to Echinodermata their pathogenicity and its epidemiology.
3. describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata.
4. Improve ability and apply Knowledge of Non-chordates for its execution in Agriculture especially with the phylum Arthropoda.
5. Implement an extensive idea about economic and ecological significance of various non-chordates phylum's in human life.

Unit I

12 L

1. Introduction and Classification to Non-Chordata
2. Phylum Protozoa: General characters
3. Type Study: Plasmodium vivax: structure, Life cycle
4. Parasitic Protozoan and human diseases: Malaria, Amoebiasis

Unit- II

12 L

1. Phylum Porifera: General characters
2. Type study: Scypha: Habits, Habitat and Distribution, Cell types, Spicules and Structure and significance of canal system.
3. Phylum Coelenterates: General characters
4. Type study: Metridium: Habits and Habitat, External features, Gastrovascular cavity, Mesenteries, Corals and coral reefs.

# Botany

**Sant Gadge Baba Amravati University, Amravati****Faculty: Science and Technology****Programme: B. Sc. Botany****POs:**

The students graduating with the degree B.Sc. with Botany will be able to

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

**PSOs:**

Upon completion of the programme successfully, students would be able to

1. Identify major groups of plants and compare the characteristics of lower (microbes, algae, fungi, bryophytes and pteridophytes) and higher (Gymnosperms and angiosperms).
2. use evidence based comparative botany approach to explain the evolution of organism and understand the genetic diversity.
3. explain various plant processes and functions, metabolism, concepts of gene, genome and how organism's function is influenced at the cell, tissue and organ level.
4. understand adaptation, development and behavior of different forms of life.
5. demonstrate the experimental techniques and methods of their area of specialization in Botany.

**Employability Potential of the Programme:**

A career in botany can be one of the most preferred careers for the science graduate. The subject botany, which is related to the study of plants means studying about algae, fungi, diseases, higher plants, growth, metabolism and the structure among different groups. Job profile in botany includes study of plants, research, working with various industries, teaching, self-employment and many more fields.

Botany person is able to study plant life along with finding solutions to problems related to that of forest and agriculture. Botanist also deals with space travel agriculture, artificial environments, hydroponics and various other interesting areas of research.

Botany graduates and post graduates are required by various organizations ranging from local to multinationals to research organizations to hospitality and tourism industry depending upon their nature of activities. They fit into different roles depending upon nature of work and evolve into senior position at high salaries.

After graduation in botany, candidate can look forward to being a part of industry such as pesticide, fungicide, biofertilizer, food processing unit, pharmaceuticals etc. by working as a lab technician.

The amount of diversity in the field of botany gives liberty to student to choose specialization as per their own interest, choice and interest. Student can work in organization/ industry as a

- I. Plant explorer with special skill of writing, photography, passion in expedition etc.
- II. Conversationalist in organizations working for conservation of environment
- III. Ecologist
- IV. Environment consultant
- V. Agriculture consultant
- VI. Botanical Field technician
- VII. Green house operator
- VIII. Plant biochemist
- IX. Horticulturist
- X. Nursery manager
- XI. Taxonomist
- XII. Plant pathologist
- XIII. Farming consultant
- XIV. Molecular biologist

The numbers of professions for botanist are endless. More ever the applications of plant sciences improve the yield and supply of medicine, food fibers, building materials and other plant products. The knowledge



**Syllabus Prescribed for Three Year UG Programme****Programme : B.Sc.****Semester 1**

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
BOT(1S)/Botany	DIVERSITY OF MICROBES , PHYCOLOGY, MYCOLOGY AND PHYTOPATHOLOGY	72

**Cos**

After completion of this course successfully , the students would be able to

- understand** microbial diversity, reproduction and economic importance.
- differentiate** the microbes, algae and fungi on the basis of morphology, cellular organization, nutrition and metabolic activities.
- classify** and **identify** the various algal genera.
- classify** and **identify** the various fungal genera.
- Systematize** the plant diseases and their pathogens
- Apply** understanding of microbial diversity, phycology and mycology for teaching primary to high school students

	Unit	Content
<b>UNIT-I</b>	<b>Introduction to Microbial World</b> <b>1.1</b> Important groups of Microorganisms- Prion, Viroids ,Viruses, Mycoplasma, Eubacteria, Archaeobacteria and Cyanobacteria <b>1.2</b> Viruses – General characteristics and Morphological types of viruses , Structure of TMV and SARS-CoV-2 (Covid-19) , Replication of viruses- lytic & lysogenic , Economic importance of viruses with reference to vaccine production. <b>1.3</b> General characteristics and Economic importance of Archaeobacteria, General characteristics, cell structure, reproduction and economic importance of bacteria with reference to industry (Fermentation and Medicines)	<b>12</b>
<b>UNIT-II</b>	<b>Cyanobacteria and Algae</b> <b>2.1</b> General characteristics, structure and reproduction of cyanobacteria. <b>2.2</b> Introduction to cryptogams. <b>2.3</b> General characteristics of algae with reference to habitat, thallus organization, pigmentation, reserve food and reproduction. <b>2.4</b> Classification according to F.E. Fritsch up to the classes <b>2.5</b> Economic importance of algae as food and in industry. <b>2.5.1</b> Ecological importance of Cyanobacteria with reference with soil fertility.	- - - - - - - - - - <b>1</b> <b>2</b>
<b>Unit-III</b>	<b>Algae</b> General characteristics of following Classes and life cycle of respective genera. 3.1 Chlorophyceae - <i>Oedogonium</i> 3.2 Charophyceae - <i>Chara</i> ( only Morphology and Sex organs) 3.3 Xanthophyceae - <i>Vaucharia</i> 3.4 Phaeophyceae - <i>Ectocarpus</i>	<b>12</b>

# Microbiology

**Sant Gadge Baba Amravati University, Amravati****Faculty: Science and Technology****Programme: B Sc (Microbiology)****POs:**

Students of undergraduate general degree programme at the time of graduation would be able to –

PO1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, check 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 contexts socio-technological changes.

**PSOs:**

Upon completion of the programme successfully, The students would be able to

1. gain insight of Microbiology starting from history and fundamental knowledge about the microorganisms.
2. acquire the skill in the use and care of basic microbiological equipment and can perform basic laboratory procedures in microbiology.
3. be well-informative about the integral role of microorganisms and different branches of Microbiology.
4. Be acquainted with the basic concept of prokaryotes, their taxonomy, their differentiation from eukaryotes.

**Employability Potential of the Programme:**

Microbiology is a branch of science that deals with study of microorganisms. The microbiological study has wide range of scope ranging from basic sciences to applied sciences. Microbiological study is mainly focused on causative agents of various diseases, microorganisms of agricultural, environmental and industrial use. The production of antimicrobial drugs to cure various diseases is covered in this discipline. Here is an overview of job opportunities where our students has explored and would be helpful for upcoming students as well.

Medical microbiology refers to the use of microbiology in the healthcare industry. Microbiology firms are at the heart of the healthcare industry, whether they're developing diagnostic kits, vaccines, biologics, pharmaceuticals, or medical gear. Microbiology fields such as molecular biology, cell biology, recombinant technology, and immunotherapeutics benefited from the medical sector's evolution. For those interested in a career in Medical Microbiology, there are numerous career prospects in Research and Development, Pharmaceutical Companies, Hospitals, Diagnostic Centers, Manufacturing Sector of Microbiology, and Academic Sector. Many of our students have joined as Microbiologist at renowned pharmaceutical companies. Our students have also joined COVID-19 diagnostic laboratories across various districts, thus helping the society. Beside these students has also joined

**Syllabus Prescribed for 1<sup>st</sup> Year UG Programme****Programme: B Sc****Semester 1**

<b>Code of the Course/Subject</b>	<b>Title of the Course/Subject</b>	<b>(Total Number of Periods)</b>
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<b>MCB1</b>	<b>FUNDAMENTALS OF MICROBIOLOGY AND MICROBIAL PHYSIOLOGY</b>	<b>90</b>
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**COs**

Upon completion of this course successfully, students would be able to

1. get knowledge of historical aspects of microbes and their importance as well as application in day to day life.
2. differentiate the microbes on the basis of their characteristics and apply the classification scheme for identification.
3. demonstrate the structure of prokaryotic and eukaryotic cell.
4. illustrate different types of microscopes and staining techniques.
5. compare and design different nutritional media for microbial growth.

<b>Unit</b>	<b>Content</b>
Unit I <b>A. History of Microbiology</b> <b>B. Introduction and Scope of Microbiology</b>	<b>A. History of Microbiology:</b> a. Discovery of microscope- Contribution of Antony von Leeuwenhoek, Robert Hook. b. Controversy over Spontaneous generation: Contributions of Redi, Needham, Schulze and Schwan, Schroder & Van Dusch, Louis Pasteur c. Contribution of pioneers in development of microbiology : Louis Pasteur (fermentation & Vaccine) Alexander Fleming (Antibiotic) Joseph Lister (Antiseptic surgery), Edward Jenner (Small pox Vaccine) Robert Koch (Germ theory of diseases, Koch postulates & ure culture concept) <b>B. Introduction and Scope of Microbiology</b> a. Introduction of microorganisms and their distribution in nature b. Beneficial and harmful activities of microorganism c. Basic branches of Microbiology: Bacteriology, virology, mycology, phycology, parasitology.

# Chemistry

**Sant Gadge Baba Amravati University, Amravati****Faculty: Science and Technology****Programme: B.Sc. ( Chemistry )****POs:**

At the time of graduation, Students would be able to

**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

**PSOs:**

Upon completion of the programme successfully, the learners would be able to-

1. Understand the scope, methodology and application of modern chemistry.
2. Apply theoretical and practical concepts of instruments that are commonly used-in most chemistry field.
3. Plan and conduct scientific experiments and record the results of such experiments.
4. Get acquainted with safety of chemicals, transfer, and measurements of chemicals, preparation of solutions, and using physical properties to identify compounds and chemical reactions.
5. Describe how chemistry is useful to solve social, economic and environmental problem and issues facing our society in energy, medicine, and health.

**Employability Potential of the Programme:**

A degree in Chemistry is an intelligent choice for future employability and earning potential for learners. Degree program with Chemistry offers the necessary knowledge, develop skills and nurture creativity to achieve success in virtually any field that's even distantly related in some way to chemistry. A degree in chemistry is recognized as a symbol of quality and commitment by employers both inside and outside the chemical industries. Chemistry provides jobs in cutting-edge technologies within science and research as well as in many fields of distant relations. Chemistry graduates apply their skills within the areas of environmental sciences, medical fields, scientific equipment sales, science communication, teaching or academic research, a few to mention. Thus, a degree in chemistry widens numerous prospects and opportunities for a wide

**Syllabus Prescribed for Three Year UG/PG Programme****Programme:****Semester 1**

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
CHE(1S)T	Chemistry 1S	84

**COs:**

By the end of this course, the students would be able to:

1. Solve the conceptual questions using the knowledge gained by studying periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements.
2. Apply concepts of acids and bases as well as non-aqueous solvents and their industrial usage.
3. Compare different reaction intermediates, functional group chemistry through the study of methods of preparation, properties and chemical reactions with underlying mechanism.
4. Choose correct synthetic approach to prepare derivatives of industrially important molecules
5. Solve different numerical problem of varying difficulty associated with gaseous and liquid state.
6. Apply the concepts from advanced mathematics to solve the derivation of different chemical formulae.

Unit	Content
Unit I	<p><b>Periodicity of Elements:</b> s and p block elements: Pauli's Exclusion Principle, Hund's rule of maximum multiplicity, Aufbau principle. Shapes of s and p orbitals. Electronic configuration for s and p block elements. Detailed discussion of the following properties of the elements, with reference to s and p-block. (a) Nuclear charge and number of shell and its variations (b) Atomic and ionic radii and their variations (d) oxidation states (e) Ionization potential, Successive ionization potential and its variations. (f) Electron affinity and its trends. (g) Electronegativity and its variations. Effect of ionization energy and electronegativity on different properties of elements namely metallic and non-metallic character, relative reactivity, oxidizing and reducing properties. Diagonal relationships: Li with Mg, B with Al. Abnormal behavior of nitrogen.</p> <p style="text-align: right;"><b>Periods: 14</b></p>
Unit II	<p><b>A) Acids and Bases-</b> Arrhenius, Bronsted-Lowry, and Lewis's theory of acids and bases, Theory of solvent systems and Lux-Flood concept of acids and bases. Hard and soft acids and bases. Pearson's HSAB or SHAB principle with important applications. <b>B) Nonaqueous Solvents-</b>Requirements of a good solvent. Water as a universal solvent. Physical properties of solvents namely liquid range, dielectric constant, dipole moment, heat of vaporization and solubility behavior. Classification of solvents. Acid base, precipitation, redox, solvolysis and complexation reactions in liquid ammonia. Merits and demerits of liquid ammonia as a solvent.</p> <p style="text-align: right;"><b>Periods: 14</b></p>
Unit III	<p><b>Basics of Organic Chemistry:</b> <b>A) Electronic Displacement and Reactive Intermediates:</b> Inductive, Electromeric, Resonance, Mesomeric effects, Hyperconjugation and their applications, dipole moment, homolytic and heterolytic fission with suitable examples. Electrophiles and nucleophiles. Types, shape and their relative stability of carbocations, carbanions, free radicals and carbenes and nitrene.</p>

# Electronics



Sant Gadge Baba Amravati University, Amravati

**Faculty of Science and Technology**

**Programme: B.Sc. Electronics Science**

**Program Outcomes (POs):**

At the end of the programme, students would be able to

- 1) Utilize the basic knowledge in Electronics science.
- 2) Identify electronic components and ICs.
- 3) Design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns
- 4) Apply research based knowledge to design and conduct experiments
- 5) Construct, choose and apply the techniques, resources and modern electronics tools required for Electronics applications.
- 6) Apply the contextual knowledge to assess societal, health, safety and cultural issues and endure the consequent responsibilities relevant to the professional electronics practice.
- 7) Examine the impact of electronics solutions in global and environmental contexts and utilize the knowledge for sustained development.
- 8) Develop consciousness of professional, ethical and social responsibilities as experts in the field of Electronics and Communication.
- 9) Perform effectively as a member/leader in multidisciplinary teams.
- 10) Demonstrate resourcefulness for contemporary issues and lifelong learning.

**Program Specific Outcomes:**

**Upon completion of the programme successfully, students would be able to**

1. acquire knowledge in fundamental aspects of all branches of Electronics
2. create inquisitiveness and problem-solving skills
3. apply the principles of Electronics in solutions to real world problems
4. get prepared for higher education and career in Electronics
5. develop skills in the proper handling of apparatus and components
6. apply Electronics in their day to day life
7. act as a responsible citizen
8. Select and apply cutting-edge engineering hardware and software tools to solve complex Electronics and Communication Engineering problems
9. Apply the fundamental concepts of electronics and communication science to design a variety of components.

**Semester I**  
**DSC -1S- Electronics**  
**Course Title - Basic Electronics**

**Unit I : Passive Components and Network theorems (12L)**

Introduction to Resistors, Capacitors, Inductors and Transformers, Concept of ideal dc voltage and current source, KVL, KCL, Thevenin's, Norton's, maximum power transfer, Millman's theorem (statement, proof, simple numerical application for dc only).

**UNIT II: Measuring Instruments : (12L)**

Principles of voltmeter, ammeter, ohmmeter, Multirange DC voltmeter, ohm per volt rating, loading effect, Multirange DC Ammeter, Series & shunt type ohmmeter, Multimeter (uses & drawback). CRO Block diagram & explanation, CRT construction & working, uses of CRO (measurement of frequency, amplitude & phase.)

**Unit III : Semiconductor Diode and Regulated power supply: (12L)**

Operation and characteristics of PN junction diode, Avalanche and Zener breakdown mechanism, Half wave and full wave rectifiers (ripple factor, efficiency, PIV ratings), C, L and p filters, Concept of unregulated and regulated power supply, Zener diode voltage regulator, Three terminal IC regulator.

**Unit IV : Bipolar Transistors: (12L)**

NPN and PNP transistor (construction and working) CB, CE & CC configuration, leakage currents, Input and output characteristics of CE mode, relation between a and b Load line and operating point, Amplification action of CE amplifier, biasing and stability, Self and fixed bias circuit.

**Unit V : Switching and Optoelectronic devices : (12L)**

Construction, working and characteristics of FET, MOSFET, UJT, SCR, relation of FET parameters, Construction, working & characteristics of LDR, LED, photodiode, photovoltaic cell( Solar cell).

**Unit VI : Integrated Circuits: (12L)**

Introduction to IC technology, advantages and disadvantages, Classification of ICs, Basic steps in fabrication of monolithic ICs, Fabrication of diode, resistor & transistor. Scale of integration upto VLSI, Basic concept of Embedded systems.

**Unit VII : DSC-1S-SEM (18L)**

- Identification of testing tools.
- Idea of Phase, Neutral and Ground of AC mains.
- Use of soldering iron.
- Use of Desoldering pump.
- Identification of Active and Passive electronic components in simple way.
- Identification of step-up and step down transformer.
- Measurement of voltage.
- Measurement of current.
- Measurement of resistance.
- Identify and measurement of capacitance of various capacitors.
- Identify the control and functional switches in CRO .
- Study of Resistors and Capacitors in series.
- Study of Resistors and Capacitors in parallel.
- Testing and fault finding of transistor.

**COURSE OUTCOMES****DSC-1S**

Sr.No.	Topic	What the student will be able to do at the end of Module/Unit (Knowledge/ Skill achieved OR Application of Knowledge /Skill to do what) /COs
1	<b>Unit I : Passive Components and Network</b>	At the end of this unit, students will be able

# Computer Science

**Sant Gadge Baba Amravati University, Amravati****Faculty: Science and Technology****Programme: B.Sc. with Computer Science/ Computer Application [Voc/Non Voc] / IT****POs:**

After completion of graduation, students will be competent to:

- 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

**PSOs:**

At the end of this program, the students would be able to:

- 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, analyze, formulate and develop computer-based solutions to meet desired needs within realistic constraints.
- PSO5: Develop databases and perform operations on them.
- PSO6: Identify research and development areas in multiple disciplines.
- PSO7: Design and develop the small web applications.

**Employability Potential of the B.Sc. with Computer Science/Computer Application(Voc/Non-Voc)/Information Technology:**

The BSc with Computer Science, Computer application and IT helps develop a widely applicable skill set in computing with strong programming and mathematics skills, as well as wide ranging skills in project management, effective presentations and teamwork. Graduate with a portfolio of work fit to present to potential employers. Depending on your chosen pathway, you can focus on particular areas of interest such as programming, web development, design of database design and video games. Graduate with the Computer Science will be able to apply for a range of computational and mathematical jobs in the creative industries, business, finance, education, medicine, engineering and science. Typical job titles include:

- Data analyst
- Assistant Programmer
- Web designer
- Web developer
- Applications developer
- UI Developer
- Cyber security analyst
- Game designer
- Games developer

## Sant Gadge Baba Amravati University, Amravati

## Part B

## Syllabus Prescribed for 03 Year UG Programme

## Programme: B.Sc. Part I (Computer Science/ Computer Application [Voc/Non-Voc]/IT)

## Semester 1

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
1CSI	Fundamentals of Computer and C Programming	84

COs Upon completion of this course successfully, Students would be able to -

1. Understand the computer, I/O and peripheral devices.
2. Understand concept of Operating systems.
3. Apply the Programming concepts.
4. Learn C language.
5. Write Simple C Programs.

Unit	Content
Unit I	Introduction to Computer, Characteristics, Generations of Computers, Block diagram of Computer. <b>Memories:</b> Primary Memories : RAM, ROM, and its types, Cache Memory, Secondary Storage Devices : Hard Disk, SSD, Pen drives. <b>I/O Devices:</b> Keyboard, Mouse, Scanner, Touch Screen, Monitors: LCD & LED. Printers: Impact and non-impact. <b>(14 periods)</b>
Unit II	<b>Operating System:</b> Definition, Functions of Operating System, Types: Batch Mode, Multiprogramming, Time sharing , Online Real Time, Distributed O.S. Booting process. <b>Windows:</b> Introduction, Features and taskbars, Desktop, Customizing Desktop. <b>(14 periods)</b>
Unit III	Programming Concept: Algorithm, flowcharting, Types of programming languages, Programming process: Program design, Coding, Compilation & Execution, Testing & Debugging, Documentation. Structured Programming : History of C language, Advantages, Structure of C program, Character set, Identifiers, Keywords, Constants and Variables, Symbolic constants, Qualifiers, Type conversion. Operators and Expressions. <b>(14 periods)</b>
Unit IV	<b>I/O Operations :</b> Formatted I/O : scanf(), printf() <b>Unformatted I/O :</b> getch(), getchar(), gets(), putchar(), puts(). <b>Control structures:</b> Branching: if, if-else, Conditional operator(? : ), nested if, switch. Looping: while, do-while, for statements, comma operator, goto, break, continue, nested loops. <b>(14 periods)</b>
Unit V	<b>Arrays</b> - Declaration and initialization of one and two dimensional array. <b>Structure</b> - Definition, declaration, initialization, array of structure, nested structure, union. <b>Pointers</b> - Declaration, initialization, pointers arithmetic <b>(11 periods)</b>
Unit VI	<b>Functions in C:</b> Introduction, definition of function, function prototype, categories of function, actual argument, formal argument, function calling: call by value, call by reference, function parameters, local and global variable, functions with array, function recursion. <b>String functions</b> - String functions : strlen(), strcpy(), strcmp() & strcat() <b>(14 periods)</b>
*SEM: Assignment, Class test, Study tour, Industrial visit, Group discussion or any other innovative practice/activity	

# Physics

**Sant Gadge Baba Amravati University, Amravati****Faculty: Science and Technology****Programme: B.Sc. (Physics)****POs:**

At the time of graduation, Students will be able to

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

**PSOs:**

Upon completion of the Programme successfully, students would be able to

1. acquire a comprehensive knowledge and sound understanding of fundamentals of Physics
2. develop laboratory skills, enabling them to take measurement in a physics laboratory and analyze the measurements to draw valid conclusions.
3. be prepared to acquire a range of general skills, to solve problems, to evaluate information, to use computers productively, to communicate with society effectively and learn independently.
4. Develop good oral and written scientific communication skill.

**Employability Potential of the Programme:**

Physics programme develops the skills, particularly the ability to analyze and apply information, gives one a good head start, in any field, one wishes to get in. The skills are useful even in the management disciplines.

This programme gives physics enthusiasts a chance to develop their mathematical, problem solving, communication skills and critical thinking, that helps to interpret rich scientific data and that is always a boon to scientific researchers.

After accomplishing M. Sc. in Physics, student can certainly increase his/her employability in this field. Students can easily avail of technical jobs, both in the private and public sector. Some of the common job positions or profiles for a physics enthusiast are Online tutor, College lecturer, Assistant Professor, Observation Scientist, Laboratory Technician, School Science Technician or Research Analyst, Assistant Scientist, Physics Training Manager, Software Engineer, Network Administrator, IT Consultant, Security Expert, Java Developer, Systems Support Administrator, Interface Engineer etc. They can apply for jobs in Aerospace and Defence, Automobile, IT and Software, Railways, Nuclear and Renewable energy, Oil and Gas, Electronics and Telecommunications and the Manufacturing sector.

Students can pursue an MTech/MS degree in a variety of engineering or technology disciplines such as aeronautical, automobile, instrumentation, electronics and communication, or computer sciences. But, make sure to crack the GATE (Graduate Aptitude Test in Engineering) exam first, before going down this road.

For a long career in the field of research, students are advisable to pursue MPhil or PhD in Physics, after completing MSc Physics and join any science/technology research center. Students can also apply in Government or private colleges and universities; polytechnic institutes, degree colleges, engineering

**Syllabus Prescribed for B.Sc. I Year UG Programme****Programme:****Semester 1**

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
PHY/S1CS	Mechanics, Properties of matters, Oscillations & Relativity	72

**COs**

On successful completion of this course, the students would be able to

1. Discuss the basic concepts of rotational dynamics.
2. Examine the phenomenon of simple harmonic motion and distinction between undamped, damped and forced oscillations and the concept of resonance.
3. Explain the superposition of simple harmonic motion and acquire the knowledge of Ultrasonic waves, their production, detection and applications in different field.
4. Determine the constants of elasticity and relate it with appropriate things
5. Interpret the postulates of special theory of relativity.
6. Know the concept of Global positioning system (GPS)

Unit	Content
Unit I	<b>Rotational Dynamics:</b> Rigid body, Torque, Rotation about fixed axis, Kinetic Energy of rotation, moment of inertia and its physical significance, Radius of gyration, Perpendicular and parallel axes theorem (Statement Only), Fly-wheel, Moment of inertia of different bodies (Rod, Disc, cylinder and sphere) about different axes, Rolling motion. Principle of Conservation of Angular momentum. Principle and working of Gyroscope. Numericals <b>12 (periods)</b>
Unit II	SHM and its solution, time period of simple pendulum, compound pendulum, kater's pendulum & Torsional pendulum; Bifilar pendulum (Qualitative). Damped Oscillations: Differential equation of damped harmonic oscillator and its solution, Energy equation of damped oscillations, Power dissipation and Quality factor. Forced Oscillations: Differential equation of forced oscillation (Qualitative), Resonance (Amplitude). Numericals <b>12 (periods)</b>
Unit III	<b>Superposition of S.H.Ms.:</b> Superposition of two SHM of same frequency along the same line, superposition of two mutually perpendicular SHM of same frequency, Lissajous figures. Velocity of longitudinal waves (Newton's formula), Laplace correction, velocity of transverse waves in stretched string, Standing waves, Organ Pipe, harmonics and overtones. Velocity of waves in Kundt's tube. Ultrasonic waves: Production (piezoelectric crystal and Magnetostriction) and detection of ultrasonic waves and its applications in medical and industrial field. Numericals <b>12 (periods)</b>
Unit IV	<b>Elasticity:</b> Different types of elasticity, Twisting couple on a cylindrical rod or wire, Determination of modulus of rigidity by Maxwell needle, Torsional pendulum, Torsional oscillations, Modulus of rigidity of a material of wire by torsional pendulum, Beam, Bending of beam, Bending moment, External and internal bending moments, Cantilever, Expression for depression of a beam (i) loaded at one end and (ii) loaded at the center. Numericals <b>12 (periods)</b>
Unit V	<b>Gravitation and Special Theory of Relativity:</b> Kepler's laws of planetary motion (Statements only), Newton's law of gravitation, Variation of "g" with altitude and depth, weightlessness, Satellite in circular orbit and applications, Geosynchronous orbit, basic idea of Global Positioning System(GPS). Frame of reference, Inertial and Non-inertial frame of reference, Galilean transformation, Postulates of special theory of relativity, Lorentz transformation, length contraction, Time dilation, Einstein's mass energy relation. Numericals <b>12 (periods)</b>
<b>*SEM</b> <b>Basics of Measurement Technique</b> Measurements: Significance of measurements, methods of measurements, Static and dynamic characteristics: Instruments accuracy, precision, sensitivity, resolution range etc. Errors in measurements: Types of errors: i) Gross errors ii) Systematic errors iii) Random errors and loading effects. Statistical evaluation of measurement data: Arithmetic mean & median, Average deviation: Measurement with Screw Gauge, Vernier Caliper, Travelling Microscope, Spectrometer. <b>(12 periods)</b>	
COs: After completion of this course students will able to 1. apply the principles of measurement and error analysis. 2. Develop the skills to handle various instruments with precision.	



# Mathematics

Sant Gadge Baba Amravati University, Amravati

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**Faculty: Science and Technology**

**Programme: B.Sc. ( Mathematics )**

**POs:**

At the end of the programme, graduates would be able to

1. Enhance the knowledge of student in all basic sciences.
2. Identify ,formulate and develop solutions to computational challenges.
3. Develop scientific temper and think in a critical manner.
4. Build up progressive and successful career in academics, industry and society.
5. Develop students abilities and aptitudes to apply the mathematical ideas.

**PSOs :**

Upon completion of the programme successfully, students would be able to

1. Understand major concepts in all disciplines of Mathematics
2. Formulate and develop Mathematical arguments in a logical manner
3. Gain good knowledge and understanding in advanced Mathematics
4. Create an awareness of the impact of Mathematics on the environment, society and development outside the scientific community.
5. Create sensitivity towards environmental concerns and contribute in the development of nation

**Employability Potential of the Programme:**

Career options for B.Sc. Mathematics students is not just limited to solving complex equation. Apart from the traditional career route of academics and research, there are many career options offer for B.Sc. Mathematics students that can pick up banking, corporate, accounting and even teaching as their career option on completion of B.Sc. Mathematics, even a career in medicine and law is possible for Mathematics Honors student. Also, a degree with Mathematics is even financially supporting for students because they help in landing placement opportunities by giving an edge over students with B.Sc. physics or other major.

After completing B.Sc. Mathematics, a student can either decide to go for higher studies or apply for jobs. In the case of B.Sc. Mathematics Honors, both the options are very promising. After the B.Sc. Mathematics course, students can pursue M.Sc. Mathematics and follow it up with an M. Phil or Ph.D. Students can become a mathematician doing research and also become an assistant professor. Also students can pursue a B. Ed. and become a school teacher. Moreover, student can work in related field which required mathematical skills (Machine learning, Data Science etc.). Thus, there exist innumerable B.Sc. Mathematics career options.

The best way to get a prestigious government job is through competitive exams. Exams like UPSC, Railways, and Commission etc. are some important competitive exams that one need to consider as portals for B.Sc. Mathematics career options.

- 4] Ayres Jr Frank : Matrices : Schaum's outline series, McGraw Hill Book Company, Singapore, 1983.  
 5] Hohn Franz E : Elementary Matrix Algebra, Amerind Publishing Co., Pvt.Ltd. 1964.  
 6] Shanti Narayan : A Test Book of Matrices, S.Chand & Co. Delhi.

**Programme: B.Sc.-I ( Semester-I), Mathematics**

**Syllabus Prescribed for the Year 2022-23 , UG Programme**

**Programme : B.Sc.-I**

**Semester- I**

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods/week)
DSC-II / Mathematics	Differential and Integral Calculus	9+1

**Cos:** After completing this course, students would be able to

1. define limit and study the basic properties .
2. classify continuity and discontinuity of the functions.
3. solve the differentiability and L'Hospital rule with their applications.
4. describe the geometrical applications of mean value theorems.
5. evaluate the reduction formulae for integration.

Unit	Content
Unit I	Limit of a function, $\epsilon$ - $\delta$ definition, basic properties of limits, some standard limits. <b>(12 period)</b>
Unit II	Continuous and discontinuous functions, types of discontinuity, properties of continuous functions, uniform continuous functions, properties of uniform continuous functions. <b>(12 period)</b>
Unit III	Differentiability, successive differentiation, Leibnitz theorem, indeterminate forms and L'Hospital rule. <b>(12 period)</b>
Unit IV	Rolle's theorem, Lagrange's mean value theorem, Cauchy's mean value theorem, Maclaurin's and Taylor's series expansions. <b>(12 period)</b>
Unit V	Integration of the form $\int \frac{P_n(x)}{\sqrt{Q}} dx$ , reduction formulae for $\int \sin^n x dx$ , $\int \cos^n x dx$ , $\int \tan^n x dx$ , $\int \cot^n x dx$ , $\int \sec^n x dx$ , $\int \operatorname{cosec}^n x dx$ , $\int \sin^n x \cdot \cos^m x dx$ and Walli's formula. <b>(13 period)</b>

# Marathi Language

## SANT GADGE BABA AMRAVATI UNIVERSITY

B.Sc. Part-I, Semester – I

Programme – UG

Name of Course – Marathi Compulsory

Sub Code : 1011

Total Lectures : 3 (Per Week)

**प्रस्तावना**

विद्यापीठ अनुदान आयोगाची मार्गदर्शक तत्वे आणि बदलत्या काळाचे आव्हाने ध्यानात घेऊन बी.एस.सी. भाग १ मराठी (अनिवार्य) या वर्गासाठी अभ्यासमंडळाने संपादित केलेले 'ऋतुरंग' हे पाठ्यपुस्तक आपल्या स्वाधीन करतांना आनंद होतो आहे.

अध्ययन - अध्यापन प्रक्रियेचा केंद्रबिंदु असलेला विद्यार्थी, त्यांच्या सर्वांगीण विकास साधण्याच्या दृष्टीने, विद्यार्थ्यांची ज्ञानार्जन क्षमता आणि मूल्यमापन प्रक्रिया या दोहोची सांगड घालण्याचा प्रयत्न या पाठ्यपुस्तकात केला आहे.

**Course Outcome (प्रमुख साध्य)**

भाषेच्या आकलनाबरोबरच विद्यार्थ्यांमध्ये समाजातील उच्चकोटीची मानवी मूल्ये वृद्धीगत व्हावी, राष्ट्रीय एकात्मता, सामाजिक बांधिलकी, मानुषता, राष्ट्रप्रेम, राष्ट्रभक्ती, वैज्ञानिक दृष्टिकोन, पर्यावरण संरक्षण - संवर्धन, भूतदया इत्यादीची पेरणी व्हावी, विद्यार्थ्यांची मातृभाषा आणि वाङ्मयविषयक अभिरुची वाढीला लागू व्हावी, त्यांना दर्जेदार व व्यवसायभिमुख शिक्षण मिळावे याकरिता केंद्र सरकारच्या मानव संसाधन आयोगाने जी ध्येय धोरणे निश्चित केली आहेत त्या अनुषंगाने हा अभ्यासक्रम, नवीन शैक्षणिक धोरणाच्या परिप्रेक्ष्यात, निश्चित करण्याचे धोरण संत गाडगे बाबा अमरावती विद्यापीठाने अत्यंत विचारपूर्वक स्वीकारलेले आहे.

**Course Specific Outcome (प्रामुख्याने साध्य)**

मराठी भाषा हा केवळ शिकण्याचा आणि शिकविण्याचाच विषय नाही तर ते आत्मप्रकटीकरणाचे एक प्रभावी माध्यम आहे. तसा व्यक्तिमत्त्व घडविणारा तो संस्कारही आहे. बहुविध अंगाने तो व्हायला हवा. त्याबरोबरच भाषेच्या सर्वांगीण अभ्यासाची दिशा विद्यार्थ्यांना सूचित व्हावी, साहित्यसरितेतील विविध वाङ्मय प्रकाराची आणि प्रवाहाची ओळख व्हावी हा उद्देश प्रामुख्याने ठेवला आहे.

**Employability Potential of the Course (रोजगार निर्मिती क्षमता)**

विद्यार्थ्यांच्या भविष्याच्या संदर्भात सकारात्मक विचार करून अभ्यासक्रम तयार करण्यात आला आहे. परिक्षेतील विविध प्रश्न व त्यांच्या परिणामाची तसेच मराठी साहित्याचा उगम आणि वाटचालीची जाण व्हावी यादृष्टीने प्राचीन - मध्ययुगीन आणि अर्वाचीन साहित्यातील निवडक वेचे या पाठ्यपुस्तकात समाविष्ट केले असून कथा, कविता, वैचारिक लेख, आत्मचरित्र, निबंध इत्यादी वाङ्मयप्रकारातील प्रातिनिधिक उतारे व दर्जेदार कविता निवडण्याचा प्रयत्न केला आहे.

**बी.एस.सी. (भाग १)****विषय - मराठी अनिवार्य****सत्र १ ले****गद्य**

- |                                |                  |
|--------------------------------|------------------|
| १. पाखाला बाळास पांगुरवाणे     | - म्हाइंभट       |
| २. गाडगे बाबांनी शाळा दिली     | - सीमा साखरे     |
| ३. ... आणि गहुली झाली माऊली    | - प्रकाश राठोड   |
| ४. रद्दी                       | - विलास अंभोरे   |
| ५. नियतीच्या विक्राळ जबड्यात ! | - सिंधुताई सपकाळ |
| ६. अन्वरशा फकीर                | - मधुकर वाकोडे   |

**पद्य**

- |                      |                             |                      |
|----------------------|-----------------------------|----------------------|
| १. संतवाणी           | अ - संत ज्ञानेश्वरांचे अभंग | - घनु वाजे घुणघुणा   |
|                      | ब - संत तुकारामाचे अभंग     | - टिळा टोपी उंच दावी |
| २. विद्यार्थ्यांप्रत |                             | - केशवसुत            |
| ३. सुख               |                             | - बबन सराडकर         |
| ४. विश्वशांती        |                             | - दिनेश काळे         |
| ५. बाप               |                             | - प्रमोद गारोडे      |

**व्यावहारिक मराठी**

१. व्यावहारिक मराठी - स्वरूप आणि भूमिका
२. भाषिक संवाद व्यवहारांची मूलतत्त्वे

## **Compulsory English (Language)**

**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI****Faculty: Science & Technology****Programme:- B.Sc.****Subject: Compulsory English****Preamble:**

English language plays an essential role in our lives as it helps in better communication on personal, social, literary, interdisciplinary topics and also in business world. It is the main language for studying any subject all over the world. It shall help to build up general language proficiency through listening, speaking, reading and writing, and provide the more opportunity to acquire broader information and specialized knowledge of particular subject through the English language. It is important for science students to learn English as it broadens their minds, develops communication skills and improves the quality of life by providing better job opportunities. It will perfect their communicative credentials, gain confidence, lead to achieve the goal early, make their personality effective, make them the part of global community, and enhance the opportunity of multiple career prospects. Since English is a global language used in many spheres of human life today, it has gained significance in every field. Skills and expertise acquired in usage of the language makes the students present themselves effectively and skilfully for jobs/ employment/ profession in various fields.

**Course Outcome :**

1. To facilitate the learners in acquiring listening and speaking competence
2. To assist the learners in independent language comprehension and production
3. To make the students aware about the different communicative functions of English.
4. To improve skills and proficiency for being employed as teachers, state government employees, civil aviation, engineering and medico-related industry, defence, commerce and taxation sector.
5. To be able to speak, write, read and listen flawlessly in person and through the electronic mode in English.
6. To understand views of others, mediate contradictory views/ disagreements, reaching conclusion in groups / group discussions.
7. To understand and use basic skills of the English language for applying it in the job assigned / employment accepted / profession undertaken.

**Course Specific Outcome :**

After completion of this course successfully, students would be able to

1. Understand nature and nuances of English Language used in prose lessons and poetic passages.
2. Apply the knowledge of English to communicate with others on personal, social, literary and interdisciplinary topics.
3. Compare the structure of English language to use LSRW.
4. Formulate the sentences as per situational requirement.
5. Differentiate between acceptable and unacceptable sentences in English.



	CO4. collaborate with others students in English.
	CO5. communicate properly their ideas and concepts in English.

**B.Sc. Part I Semester – I  
Compulsory English**

**Text Book Prescribed : *Magnificence* Edited by Board of Editors, Sant Gadge Baba Amravati University,  
Amravati**

**Publisher : Orient BlackSwan Pvt Ltd**

Code :	Lectures
<b>Unit I : Prose</b>	18
1) Appro JRD – Sudha Murthy	
2) All about a Dog – A. G. Gardiner	
3) The Power of Prayer – APJ Abdul Kalam	
4) Model Millionaire – Oscar Wilde	
<b>Unit II : Poetry</b>	18
1) Daffodils – William Wordsworth	
2) Leisure – W. H. Davies	
3) Stay Calm – Grenville Kleiser	
4) The Mountain and the Squirrel - Ralph W. Emerson	
<b>Unit III : Writing Skills</b>	12
1) Preparing a CV	
2) Applying for a Job	
3) Narrating an Experience	
4) Creative Writing (Expansion of idea)	
<b>Unit IV: Communication Skills</b>	
1. Non –Verbal Communication	12
2. Preparing a Newspaper Report	
<b>Unit V: Skill Enhancement Module (SEM)</b>	15
1) Spot Visit and preparing a report – Visit to Super Market, Bus Stand, Railway Station, Bank, Medical Shop, Bakery etc.	
2) Interview of a dignitary and writing a report in dialogue form	
(Skill Enhancement module will be of 25 marks. This module will be internally assessed flexibly on the basis of Class tests, assignments, seminar, reading material, project, survey, group discussion, Study tour, MCQ, Open Book exam (OBE), etc.)	
<b>Internal Assessment:</b>	
1) Class Test	5 Marks
2) Viva-Voce	5 Marks

## **M.Sc. Microbiology**

**Sant Gadge Baba Amravati University, Amravati****Faculty: Science and Technology****Programme: B Sc (Microbiology)****POs:**

Students of undergraduate general degree programme at the time of graduation would be able to –

PO1.Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, check 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 contexts socio-technological changes.

**PSOs:**

Upon completion of the programme successfully, The students would be able to

1. gain insight of Microbiology starting from history and fundamental knowledge about the microorganisms.
2. acquire the skill in the use and care of basic microbiological equipment and can perform basic laboratory procedures in microbiology.
3. be well-informative about the integral role of microorganisms and different branches of Microbiology.
4. Be acquainted with the basic concept of prokaryotes, their taxonomy, their differentiation from eukaryotes.

**Employability Potential of the Programme:**

Microbiology is a branch of science that deals with study of microorganisms. The microbiological study has wide range of scope ranging from basic sciences to applied sciences. Microbiological study is mainly focused on causative agents of various diseases, microorganisms of agricultural, environmental and industrial use. The production of antimicrobial drugs to cure various diseases is covered in this discipline. Here is an overview of job opportunities where our students has explored and would be helpful for upcoming students as well.

Medical microbiology refers to the use of microbiology in the healthcare industry. Microbiology firms are at the heart of the healthcare industry, whether they're developing diagnostic kits, vaccines, biologics, pharmaceuticals, or medical gear. Microbiology fields such as molecular biology, cell biology, recombinant technology, and immunotherapeutics benefited from the medical sector's evolution. For those interested in a career in Medical Microbiology, there are numerous career prospects in Research and Development, Pharmaceutical Companies, Hospitals, Diagnostic Centers, Manufacturing Sector of Microbiology, and Academic Sector. Many of our students have joined as Microbiologist at renowned pharmaceutical companies. Our students have also joined COVID-19 diagnostic laboratories across various districts, thus helping the society. Beside these students has also joined

**Sant Gadge Baba Amravati University, Amravati**  
**Syllabus Prescribed for 1<sup>st</sup> Year UG Programme**

**Programme: B. Sc**

**Semester 1**

Code of the Course/Subject	Title of the Course/Subject (Laboratory/Practical/practicum/hands-on/Activity)	(No. of Periods/Week)
<b>MCB lab1</b>	<b>FUNDAMENTALS OF MICROBIOLOGY AND MICROBIAL PHYSIOLOGY Lab 1</b>	<b>06/week/batch</b>

**COs**

Upon completion of this course successfully, students would be able to

1. acquire the skill in the use and care of basic Microbiological equipment.
2. perform basic laboratory procedures in microbiology; proper collection and forwarding of microbiological and parasitological specimens to the laboratory.
3. demonstrate different staining techniques.
4. acquire skill in bacterial motility.

**\* List of Practical/Laboratory Experiments/Activities etc.**

1	1. Study and use of different instruments use in Microbiology Laboratory i. Autoclave ii. Hot air oven iii. Bacteriological Incubator iv. Laminar air flow
2	2. Demonstration of bacteria from: Soil, Water, Air, Milk, Skin
3	3. Microscopic Examination of bacteria i. Monochrome/ simple staining ii. Gram's staining iii. Negative staining iv. Endospore staining
4	4. Demonstration of bacterial motility by Hanging drop technique
5	5. Cultivation and Demonstration of i. Yeast- <i>Saccharomyces cereviceae</i> , <i>Candida albicans</i> . ii. Mold- <i>Penicillium</i> , <i>Aspergillus</i>
6	6. Demonstration of a) Protozoa- <i>E. histolytica</i> , <i>Paramoecium</i> b) Algae – <i>Nostoc</i> , <i>Spirogyra</i>
7	7. Isolation of bacterial Pure culture by i) Streak plate ii) Pour plate

## **M.Sc. Computer Science**

**Sant Gadge Baba Amravati University, Amravati****Faculty of Science and Technology****Programme: M Sc Computer Science**

## PROGRAMME OUTCOMES (POs)

Upon completion of the programme successfully, students would be able to

**PO1: Problem Analysis**

Identify, formulate, review research literature and analyze complex engineering problems in Computer Science and Engineering reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

**PO2: Design / Development of Solutions**

Design solutions for complex engineering problems and design system components or processes of Computer Science and Engineering that meet the specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

**PO3: Conduct Investigations of Complex Problems**

Use research-based knowledge and research methods including design of experiments in Computer Science and Engineering, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO4: Modern tool usage**

Create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex activities related to Computer Science with an understanding of the limitations.

**PO5: The services to the society**

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice in Computer Science and Engineering.

**PO6: Project Management**

Demonstrate knowledge and understanding of the computer science and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

## PROGRAMME SPECIFIC OUTCOMES (PSOs)

Upon completion of the programme successfully, students would be able to

**PSO 1:** deliver efficient solutions for emerging challenges in the computation domain through continuous learning

**PSO2**

design, develop, implement computer programs and use knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations.

**Prescribed Syllabus  
Semester-I  
Core Subjects**

<b>Course Code</b>	<b>IMCSI</b>	
<b>Course Name</b>	<b>1 Computer System Design</b>	
<b>Total Credits</b>	<b>4</b>	
<b>Course Outcomes</b>	<p><b>Course Outcome:</b> Upon completion of this course successfully, students would be able to</p> <ol style="list-style-type: none"> <li>1. Understand the theory and architecture of central processing unit.</li> <li>2. Analyze some of the design issues in terms of speed, technology, cost, performance.</li> <li>3. Design a simple CPU with applying the theory concepts.</li> <li>4. Use appropriate tools to design verify and test the CPU architecture.</li> <li>5. Understand the theory of memory system design</li> <li>6. Understand the architecture and functionality of central processing unit.</li> <li>7. Exemplify in a better way the I/O and memory organization.</li> </ol>	
<b>Units</b>	<b>Contents</b>	<b>Total Hrs</b>
I	<p><b>Computer System Technology:</b> From Components to Applications, Computer Systems and Their Parts, Generations of Progress, Processor and Memory Technologies, Peripherals, I/O, and Communications, Software Systems and Applications</p> <p><b>Computer Performance:</b> Cost, Performance, and Cost/Performance, Defining Computer Performance, Performance Enhancement and Amdahl's Law, Performance Measurement vs Modelling, Reporting Computer Performance, The Quest for Higher Performance</p>	10
II	<p><b>Instructions and Addressing:</b> Abstract View of Hardware, Instruction Formats, Simple Arithmetic and Logic Instructions, Load and Store Instructions, Jump and Branch Instructions, Addressing Modes</p> <p><b>Procedures and Data:</b> Simple Procedure Calls, Using the Stack for Data Storage, Parameters and Results, Data Types, Arrays and Pointers, Additional Instruction</p> <p><b>Assembly Language Programming</b></p>	10
III	<p><b>Number Representation:</b> Positional Number Systems, Digit Sets and Encodings, Number-Radix Conversion, Signed Integers, Fixed-Point Numbers, Floating-Point Numbers</p> <p><b>Adders and Simple ALUS:</b> Simple Adders, Carry Propagation Networks, Counting and Incrementation, Design of Fast Adders, Logic and Shift Operations, Multifunction ALUS</p> <p><b>Multiplier and dividers, Floating-Point Arithmetic</b></p>	10
IV	<p><b>Instruction Execution Steps:</b> A Small Set of Instructions, The Instruction Execution Unit, A Single-Cycle Data Path Branching and Jumping, Deriving the Control Signals, Performance of the Single-Cycle Design</p> <p><b>Control Unit Synthesis:</b> A Multicycle Implementation, Clock Cycle and Control Signals, The Control State Machine, Performance of the Multicycle Design, Microprogramming, Dealing with Exceptions</p>	10
V	<p><b>Main Memory Concepts:</b> Memory Structure and SRAM, DRAM and Refresh Cycles, Hitting the Memory Wall, Pipelined and Interleaved Memory, Non-volatile Memory, The Need for a Memory</p>	10

**B.A. (Compulsory English)**



**Sant Gadge Baba Amravati University, Amravati**  
Syllabus Prescribed under Choice based Credit System 2022-23  
Faculty : Humanities  
Programme: B.A. (English)

Part A  
Semester – I  
**Compulsory English**  
(Course Code DSC ENG 1.1)

**PSOs:**

**After completion of this course students will be able to:**

1. Comprehend various forms of literature like Prose, Poetry, Drama and Fiction
2. Develop the knowledge of grammatical system
3. Develop four language skills LSRW
4. Widen scope of employability and Entrepreneurship viz Teaching, Civil Services and Creative Writing

**Employability Potential of B.A. Programme**

The job market today, is dynamic and challenging place for young people graduating from our educational institutions. While the number of job seekers is on rise, so are the employment opportunities available to them. However, many employers say that they are unable to find suitable candidates for the jobs they have. Of the candidates who appear for interviews every year, only about thirty percent are selected for the employment. This does not mean that students are poorly equipped with knowledge. On the contrary, many are adequately qualified in this area. The problem is that they lack proficiency in English and the soft skills necessary for professionals today. The need to equip graduating students with skills essential for work place has become an urgent concern. Keeping this in mind the board of studies in English designed the curriculum of English Compulsory, English Literature, Supplementary English, Functional English, Ability Enhancement Course in Communication Skills in English and General Interest Course in Soft Skills.

All living beings communicate. To communicate is a sign of life. In fact, communication is essential to survival, to co-existence and is a natural instinct. In order to improve communication skills of students many topics on communication have been incorporated in the curriculum.

After completion of this course students can make career in creative writing, translation, journalism, content writing and tourism industry. Making career through competitive examinations is a dream of many arts graduates. The present curriculum is immensely helpful for students, who desire to prepare for competitive examinations.

**Part B**

**Programme: B.A. (English)  
Semester – I**

**Compulsory English  
(Course Code DSC ENG 1.1)**

**Cos:-**

**After completion of this course students will be able to:**

1. Understand the basic knowledge of English language and literature
2. Understand the relation between literature and real life.
3. Understand and interpret the prose, poem, short stories
4. Write the News Report, Letter, Essay, Paragraph etc.
5. Avail the pleasure of literary forms such as Novel, Poem, Play etc.
6. Develop interview technique, Reading Skills, Writing Skills and Speaking Skills.
7. Enhance the interest in English Language.

**UNIT-I PROSE (15 PERIODS)**

- I) Address at the Parliament of the World's Religions- Swami Vivekananda
- II) Education Provides a Solid Foundation- APJ Abdul Kalam
- III) The Dispenser of Holy Water - Guy de Maupassant
- IV) The Happy Prince- Oscar Wilde

**UNIT-II POETRY (15 PERIODS)**

- I) The Quality of Mercy- William Shakespeare
- II) Indian Weavers - Sarojini Naidu
- III) The Lotus- Toru Dutt
- IV) Success is Counted Sweetest- Emily Dickinson

**UNIT-III- BASICS OF COMMUNICATION SKILLS IN ENGLISH (15 PERIODS)**

- I) Articles
- II) Prepositions
- III) Conjunctions

**UNIT – IV- BASICS OF COMMUNICATION SKILLS IN ENGLISH (15 PERIODS)**

- I) Verb- Auxiliary Verbs and Modal Auxiliaries
- II) Subject – Verb Agreement

**UNIT- V- COMMUNICATION SKILLS (15 PERIODS)**

- I) Meeting People, Exchanging Greetings and Taking Leave
- II) Introducing Yourself

**B.A. (Marathi Com. & Lit.)**

**संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती****पसंतीवर आधारित श्रेयांक पद्धती (CBCS) अभ्यासक्रम २०२२-२०२३****विभाग अ (Part-A)****विद्याशाखा : मानव विज्ञान (Faculty - Humanities)****अभ्यासक्रम : वाङ्मय स्नातक / बी.ए. (Programme - B.A.)****विषय : आवश्यक मराठी DSC-2****प्रस्तावना :- (Preamble)**

‘मातृभाषा’ मानवी जीवनाचा पाया आहे. आत्मप्रगतीकरण, आत्मचिंतन, विचारांची देवाण-घेवाण, संस्कृतीची जोपासना, समाजातील आर्थिक, राजकीय व्यवहार, व्यक्तिमत्त्वाचा विकास या सर्व गोष्टींसाठी भाषेची आवश्यकता आहे. मातृभाषेच्या सामर्थ्यावर अभ्यासकाला कोणत्याही विषयाच्या अभ्यासासाठी आवश्यक असलेली आकलनशक्ती व कौशल्य यांचा विकास होण्यास मदत होते. साध्या श्रवण-भाषण कौशल्यापासून ते प्रतिभासंपन्न सृजनशीलतेपर्यंत प्रत्येक क्रियेत मातृभाषेची आवश्यकता आहे. मातृभाषेतूनच कोणत्याही क्षेत्रातील ज्ञान मिळविणे सुलभ जाते.

मराठी भाषा अतिशय समृद्ध अशी भाषा आहे. समाजाचा सर्वांगीण विकास हा भाषेच्या माध्यमातून होतो. त्या माध्यमातून विद्यार्थ्यांच्या सर्वांगीण व्यक्तिमत्त्वाचा विकास होतो. भाषिक संवेदना, भावना, विचारशीलता, भाषेच्या विविध प्रवाहाची अभिवृद्धी समाजाच्या विकासाकरिता महत्त्वाचा असतो. मराठी अनिवार्य अभ्यासक्रमातून वैचारिकता समृद्ध होण्यासाठी मदत होते. तसेच ललित साहित्यातून जीवनानुभवाची नवीन दृष्टी प्राप्त होते. काव्य प्रकारातून सामाजिक अस्मिता अभिव्यक्त होते. मराठी भाषा विद्यार्थ्यांना नव्या जाणिवा, नव्या प्रेरणा देणारा विषय आहे.

**बी.ए. मराठी (आवश्यक) अभ्यासक्रमाची विशिष्ट निष्पत्ती PSOs :**

- १) संत गाडगेबाबा अमरावती विद्यापीठाच्या मानव विज्ञान विद्याशाखेतील बी.ए. मराठी (आवश्यक) अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्यांची ‘साहित्य’ ही संकल्पना स्पष्ट होऊन मराठी भाषाविषयक अभिरूची विकसित होईल.
- २) मराठी साहित्य परंपरा, लेखक, कवी, विचारवंत यांचा परिचय होईल, त्यांचा लेखनातून आलेल्या सामाजिक एकात्मता, सर्वधर्म समभाव, राष्ट्रीय एकात्मता आणि भारतीय राज्यघटनेचे अधिष्ठान असलेल्या मानवी मूल्यांची विद्यार्थ्यांमध्ये रुजवणूक होईल.
- ३) विद्यार्थ्यांमध्ये मराठी, भाषा, साहित्य, कला याविषयी आवड निर्माण होईल. त्याची चिकित्सा, तुलना, समीक्षा करण्याची दृष्टी विकसीत झाल्यामुळे विविध साहित्य प्रकारातील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करतील.
- ४) भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे, भाषेचे व्यावहारिक उपयोजन करता येईल.
- ५) कला शाखेच्या विद्यार्थ्यांमध्ये मराठी भाषेच्या तात्विक अभ्यासासह प्रतिष्ठापूर्ण रोजगार मिळविण्यासाठी भाषिक कौशल्ये प्राप्त होतील.
- ६) मराठी भाषेच्या माध्यमातून विविध क्षेत्रात लागणारे व्यावहारिक कौशल्याचे उपयोजन विद्यार्थी करतील.
- ७) रोजगारा निर्मितीसाठी लागणाऱ्या विविध कौशल्य निर्मितीचा दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल.

**अभ्यासक्रमाची रोजगारविषयक क्षमता (Employability Potential of the Programme)**

नवा शोध, नवी स्पंदने दुसऱ्यांपर्यंत / समाजापर्यंत पोचवायची असतील तर समर्थ भाषेशिवाय पर्याय नाही. मग ती परंपरागत, संगणकीय, गणिती, एसएमएस तंत्राधारित, इमोजी/चिन्हांची भाषा का असेना, भाषेच्या विद्यार्थ्यांना या अनुषंगाने जवळजवळ सर्वच सेवाक्षेत्रात, व्यवसायाच्या क्षेत्रात अंगिकृत भाषाकौशल्य व त्याच्या जोडीला त्याने आत्मसात केलेल्या इतर कौशल्यामुळे संधीची गंगा त्याच्या आजुबाजूला वाहते आहे व या संधीचे त्याने सोने केले तर त्याला निश्चितच रोजगार प्राप्त होईल.

## विभाग व

## बी.ए. भाग-१, सत्र-१

## विषय : मराठी (आवश्यक)

नेमलेले पाठ्यपुस्तक : 'शब्दगंध' भाग-१ (सत्र १ व सत्र २) (संपादित)

प्रकाशकाचे नाव : राघव पब्लिशर्स अॅण्ड डिस्ट्रीब्युटर्स, नागपूर

## अभ्यासपत्रिकेची निष्पत्ती (COs) :

- नेमलेल्या साहित्यातून जीवनदर्शन, समकालीन व्यवहार जाणवा यांची माहिती होईल.
- वैचारिक, ललित, कविता या विविध वाङ्मय प्रकाराचे ज्ञान होईल. या वाङ्मय प्रकाराचे वेगळेपण जाणून घेतील तथा यामधील साम्यभेदाचे आकलन होईल.
- वैचारिक गद्यातून भाषेच्या सर्जनशील रूपाचे विद्यार्थ्यांना आकलन होईल. तसेच चारित्र्यविषय असलेल्या थोर व्यक्तींच्या जीवनकार्यातून विद्यार्थ्यांना प्रेरणा मिळेल आणि संकटावर मात करून जीवनात यशस्वी होता येतेहा विचार त्यांच्या मनी रुजेल.
- ललित कलाकृतीच्या वाचनातून आनंद, बोध, ज्ञान इत्यादीची प्राप्ती होऊन विद्यार्थ्यांच्या जीवनविषयक जाणवा समृद्ध होतील.
- वैचारिकता, तात्त्विकता, काव्यात्मकता, भावनात्मकता, सामान्य गोष्टीतील असामान्यत्वाचे दर्शन यातून विद्यार्थ्यांचा दृष्टीकोण संपन्न होईल.
- विविध प्रकारच्या साहित्याचे आकलन, वर्णन, आस्वादन, विश्लेषण आणि मूल्यमापन करण्याची क्षमता वाढून विद्यार्थ्यांची अभिरुची विकसित होईल.
- या वाङ्मयप्रकारातून विविध प्रकारचे नीतिमूल्ये, जीवनमूल्ये, यांची शिकवण विद्यार्थ्यांना मिळेल, त्याचा उपयोग उत्तमरीतीने जीवन जगण्यासाठी होईल.
- 'उपयोजित' घटकाच्या माध्यमातून विविध प्रकारची कौशल्ये त्यांच्यात निर्माण होतील व ते रोजगारक्षम होतील.
- विचारवंत, लेखक, कवी होण्यासाठी हे अध्ययन प्रेरक ठरेल, सहाय्यभूत ठरेल. यातून विद्यार्थी भाषेचा सर्जनशील वापर कसा करावा हे समजून घेतील व विविध प्रकारातील साहित्य निर्मिती करतील. तसेच व्यवहारिक उपयोजन करून रोजगारक्षम होतील.

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका (Teaching Hours)	श्रेयांक Credit
<b>विभाग - अ</b>	<b>वैचारिक</b>		
१)	माझे तीन गुरु व तीन दैवते - डॉ.बाबासाहेब आंबेडकर	१२	
२)	सत्यशोधक पंढरीनाथ पाटील आणि महात्मा फुले यांचे चरित्र - डॉ.प्रल्हाद जी. लुलेकर		
३)	छत्रपती शिवरायांची प्रशासन व्यवस्था - चंद्रशेखर शिखरे		
<b>विभाग - ब</b>	<b>ललित</b>		
१)	जनानी जयपुरी - वसंत बापट	१२	
२)	गढी - प्रतिमा इंगोले		
३)	वाघापूर पॅटर्न - अशोक मानकर		
<b>विभाग - क</b>	<b>कविता</b>		
१)	संतवाणी	११	०३
	अ)पैलतोगे.... - संत ज्ञानेश्वर		
	ब) कांदा, मुळा भाजी - संत सावता माळी		
२)	नवा शिपाई - केशवसुत		
३)	या भारतात बंधुभाव नित्य वसू दे - राष्ट्रसंत तुकडोजी महाराज		
४)	विमान - अजीम नवाज राही		
५)	पोशींदा - रवींद्र महल्ले		
६)	अतिक्रमण - विशाल इंगोले		
<b>विभाग - ड</b>	<b>उपयोजित मराठी</b>		
	लेखनविषयक नियम	१०	
	मुद्रित शोधन		
		४५	०३

# **Economics**

**SantGadge Baba University Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**  
**Faculty : Humanity**  
**Programme :UG (B.A. Economics)**

**Part A**

**Pos:**

1. **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.
2. **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.
3. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
4. **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.
5. **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
6. **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
7. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

**PSOs:**

- **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.
- Apply the knowledge of economic concepts, laws and theories, for a better economic environment for the society at large.
- Communicate effectively on the economic activities with the community and the society through the acquiring knowledge of the national and the global economy.
- To build on these concepts to develop deeper understanding of Economy in the future.
- Explain the basic concepts, laws and theories related to the economic behavior of the human being.
- Graduates from our department are effectively taught and explained the cause with the help of visual aids like white board and PowerPoint Presentation.
- 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 living conditions of the masses.

**Employability Potential of the Programme**

**Part B**  
**Syllabus Prescribed for 2022-23UG Programme**  
**Programme : UG (B.A. Economics)**  
**Semester I**

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
<b>1022 / Economics</b>	<b>Micro Economics</b>	<b>75 Periods</b>

**Course Outcomes:**

The student will be able to:

1. Apply knowledge and skill in the field of Economics and will be able to have the employability in these areas.
2. Describe and apply the methods for analysing consumer behaviour through demand and supply, elasticity..
3. Perform analysis to analyse the impact of economic events on Markets,
4. To create a new approach towards the study of Economics.
5. The course will illustrate how microeconomic concepts can be applied to analyze real-life situations
6. Analyse the performance of firms under different market structures,
7. Evaluate the factors affecting firm behaviour, such as production and costs
8. To have better awareness regarding different Factors Pricing Rent, Wages, Interest, and Profit.

		Periods
<b>Unit 1</b>	<b>Introduction of Economics :</b>	<b>12 L</b>
1.1	Definition of Economics: Adam Smith, Marshall and Robins.	
1.2	Economic Laws: Definition, Types, Characteristics.	
1.3	Micro Economics: Meaning, Importance, Merits-Demerits	
<b>Unit 2</b>	<b>Demand and Supply</b>	<b>12 L</b>
2.1	Demand: Definition and Law of Demand.	
2.2	Supply: Definition and Law of Supply.	
2.3	Elasticity of Demand: Definition and Types of Price Elasticity.	
	2.4 The Law of Diminishing Marginal Utility	
<b>Unit 3</b>	<b>Cost and Revenue Analysis</b>	<b>12 L</b>
3.1	Cost of Production: Meaning and kinds of Cost of Production	
3.2	Revenue: Meaning and kinds of Revenue.	
3.3	Internal and External Economies & Dis-economies.	
<b>Unit IV</b>	<b>Market Structure</b>	<b>12 L</b>
4.1	Perfect Competition Market : Definition and Characteristics.	
4.2	Monopoly Market : Definition, Characteristics and Types	
4.3	Monopolistic Competition Market : Definition and Characteristics.	
4.4	Oligopoly : Definition and Characteristics.	



# History

**Sant Gadge Baba Amravati University, Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**  
**Faculty : Humanities**  
**Programme: B.A.**  
**Course/ Subject : History**

**Part A**

**POs:**

- 1. 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.
- 2. 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.
- 3. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- 4. Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- 5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- 6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- 7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes Sample POs of PG Programmes

**PSOs: of BA History**

- 1: Analyze the Socio-Political and Cultural background of the Indian History.
- 2: Examine various perspectives of history and historiography.
- 3: Prepare for Competitive Examinations like UPSC, MPSC, and SET/NET etc.
- 4: Compare various concepts in Social Studies through the Indian History.
- 5: Describe the developments of mankind.

**Employability Potential:**

**The following employment is available from this course**

- 1) **Competitive Examination:** - Today is the age of competition. In this age of

Page 1 of 10

undergraduate/postgraduate degree programs. They offer lectures on different historical periods, events, theories, etc., and write detailed research papers, articles, and books

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**Part B**  
**Programme : B. A.**  
**Subject History**  
**Semester 1**

Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods	No. of Credits
History	History of India from Early to 700 A.D	75 Periods	05

**Course Assessment:** End Term Exam Marks: 80 (University level Exam)

**SEM (Skill Enhancement Module):**20 Marks(College level evaluation)

**Course Outcome (COs)**

- 1: Survey the sources of History of Ancient India.
- 2: Describe the social, economic, religious and institutional bases of Ancient India.
- 3: Analyze development of the concept of Nation- State background of political history.
- 4: Study ancient Indian Art & Architecture

**On successful completion of the Course the students will be able to:**

- 1: Learn the socio-political and cultural background of the Ancient Indian History.
- 2: Learn various Ancient Indian History Tourist places and Guide Tourist.
- 3: Prepare for Competitive Examinations like UPSC, MPSC, and SET/NET etc.
- 4: Understand various concepts in Social Studies through the Ancient Indian History.
- 5: Learn developments of mankind.

<b>Unit I</b>	<b>1. Survey of the Sources of Ancient India:</b> 1.1 Archaeological Sources. 1.2. Literary Sources and Foreign Travelers Account <b>2. Harappan Civilization:</b> 2.1 Origin, extent
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# Political Science

**Sant Gadge Baba Amravati University, Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**  
**Faculty : Humanities**  
**Programme: B.A. (Political Science)**

**Part A**

**POs:**

- 1: Understanding of constitution, government institutions, electoral processes and policies.
- 2: Knowledge of some of the philosophical underpinnings of modern politics and government.
- 3: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge.
- 4: Knowledge of key theories and concepts, political thoughts, organization, and modern issues in international relations.
- 5: 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.
- 6: Equip students with the concepts, principles, theories and processes studied in Political Science, so as to facilitate their career choices and employment.
- 7: Aim at shaping the students' perception and outlook on social, economic and political environment of India and beyond.

**PSOs:**

Student of B.A.program studying Political Science as an optional subject is expected to:

- 1: To understand the basic structure of Indian political system
- 2: To Inculcate interest in political field
- 3: To create the leadership qualities in students
- 4: To understand Indian governing system

**Employability Potential of the Program-**

Political Science students have the advantage of learning and knowing about government policies, rules and regulations - knowledge that is increasingly important in today's business world. Political science graduates have even chosen careers in different sector like political parties survey, media exit-pol survey, political analytical agency, personnel, marketing, advising, banking, finance, and public relations. With some work experience, you may also find yourself able to work in both the private and public sectors.

One thing you should keep in mind is that your future employer will likely be looking for people who can do the following:

- communicate clearly, present ideas persuasively (orally or in writing)
- argue and debate constructively and respectfully
- negotiate and mediate conflicts successfully
- plan, make decisions and implement them effectively
- provide effective leadership

The study of political science can equip you with all these skills.

Obtaining a Bachelor degree there are many career opportunities. Not only does it enable you to understand the nuances of local and National politics, but you also develop analytical and critical thinking skills.

Equipped with these skills, you can find employment opportunities in central, state, or local government agencies, enter into politics, law, social services, or academia, pursue political journalism, or aim to become a civil servant/political advisor.

**Syllabus Prescribed for 2022-23-Year UG Programme**  
**Programme: B.A. (Political-Science)**  
**Semester 1**

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
Political-Science	Indian Political System	65

**COs**

At the end of the course the students should be able to:

- 1: Understand and explain the significance of Indian constitution as the fundamental law of the land.
- 2: To know the making process of the constitution and salient features of Indian constitution.
- 3: Exercise the fundamental rights in proper sense at the same time identifies his responsibilities in national building.
- 4: Analyze the Indian Political System, the powers and functions of the Union, State Government in detail.
- 5: Critically analyzing the important institutions of Indian Union: The Executive: President, Vice-President, Prime Minister, Council of Ministers, 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.
- 6: To make conscious of the social, cultural, economic and political environment that affects politics in India, at the national as well as regional levels.

Unit	Content
Unit I	1. Making of Indian Constitution: Constituent Assembly and its work. 2. Salient features of Indian Constitution 3. Preamble: Text and significance <b>(periods:15)</b>
Unit II	Fundamental Rights and its Importance 2. Fundamental Duties.. 3. Directive Principles of State Policy- <b>(periods:14)</b>
Unit III	1. President of India: Election process, Qualifications, Emoluments, Term, Powers & Functions, Constitutional position. 2. Vice-President: Election, Qualifications, Powers and functions. <b>-(periods:13)</b>
Unit IV	1. Prime Minister: Appointment, Powers & functions, Role. Council of Ministers. 2. Council of Ministers: Formation, Role and function <b>(periods:11)</b>
Unit V	1. Parliament: Rajya Sabha and Lok Sabha- Composition, Powers & functions 2. Judiciary: Supreme Court- Structure, Jurisdiction, Independent judiciary <b>(periods:12)</b>
Unit VI if applicable	----- <b>(periods)</b>
<b>*SEM</b>	
COs: 1: To improve knowledge and communication and presentation skill of the students. 2: To encourage the students to explore new areas relevant to the topic.	
**Activities	1. 1 Seminar -Marks -10 2. Assignment - Marks -10 <b>(periods)</b>

**Course Material/Learning Resources**

**B. A. (Marathi Com. & Lit)**

**संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती**  
**पसंतीवर आधारित श्रेयांक पद्धती (CBCS) अभ्यासक्रम २०२२-२०२३**  
**विभाग अ (Part-A)**  
**विद्याशाखा : मानव विज्ञान (Faculty - Humanities)**  
**अभ्यासक्रम : वाङ्मय स्नातक / बी.ए. (Programme - B.A.)**  
**विषय : आवश्यक मराठी DSC-2**

**प्रस्तावना :- (Preamble)**

‘मातृभाषा’ मानवी जीवनाचा पाया आहे. आत्मप्रगटीकरण, आत्मचिंतन, विचारांची देवाण-घेवाण, संस्कृतीची जोपासना, समाजातील आर्थिक, राजकीय व्यवहार, व्यक्तिमत्त्वाचा विकास या सर्व गोष्टींसाठी भाषेची आवश्यकता आहे. मातृभाषेच्या सामर्थ्यावर अभ्यासकाला कोणत्याही विषयाच्या अभ्यासासाठी आवश्यक असलेली आकलनशक्ती व कौशल्य यांचा विकास होण्यास मदत होते. साध्या श्रवण-भाषण कौशल्यापासून ते प्रतिभासंपन्न सृजनशीलतेपर्यंत प्रत्येक क्रियेत मातृभाषेची आवश्यकता आहे. मातृभाषेतूनच कोणत्याही क्षेत्रातील ज्ञान मिळविणे सुलभ जाते.

मराठी भाषा अतिशय समृद्ध अशी भाषा आहे. समाजाचा सर्वांगीण विकास हा भाषेच्या माध्यमातून होतो. त्या माध्यमातून विद्यार्थ्यांच्या सर्वांगीण व्यक्तिमत्त्वाचा विकास होतो. भाषिक संवेदना, भावना, विचारशीलता, भाषेच्या विविध प्रवाहाची अभिवृद्धी समाजाच्या विकासाकरिता महत्त्वाचा असतो. मराठी अनिवार्य अभ्यासक्रमातून वैचारिकता समृद्ध होण्यासाठी मदत होते. तसेच ललित साहित्यातून जीवनानुभवाची नवीन दृष्टी प्राप्त होते. काव्य प्रकारातून सामाजिक अस्मिता अभिव्यक्त होते. मराठी भाषा विद्यार्थ्यांना नव्या जाणिवा, नव्या प्रेरणा देणारा विषय आहे.

**बी.ए. मराठी (आवश्यक) अभ्यासक्रमाची विशिष्ट निष्पत्ती PSOs :**

- १) संत गाडगेबाबा अमरावती विद्यापीठाच्या मानव विज्ञान विद्याशाखेतील बी.ए. मराठी (आवश्यक) अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्यांची ‘साहित्य’ ही संकल्पना स्पष्ट होऊन मराठी भाषाविषयक अभिरूची विकसित होईल.
- २) मराठी साहित्य परंपरा, लेखक, कवी, विचारवंत यांचा परिचय होईल, त्यांचा लेखनातून आलेल्या सामाजिक एकात्मता, सर्वधर्म समभाव, राष्ट्रीय एकात्मता आणि भारतीय राज्यघटनेचे अधिष्ठान असलेल्या मानवी मूल्यांची विद्यार्थ्यांमध्ये रुजवणूक होईल.
- ३) विद्यार्थ्यांमध्ये मराठी, भाषा, साहित्य, कला याविषयी आवड निर्माण होईल. त्याची चिकित्सा, तुलना, समीक्षा करण्याची दृष्टी विकसीत झाल्यामुळे विविध साहित्य प्रकारातील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करतील.
- ४) भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे, भाषेचे व्यावहारिक उपयोजन करता येईल.
- ५) कला शाखेच्या विद्यार्थ्यांमध्ये मराठी भाषेच्या तात्विक अभ्यासासह प्रतिष्ठापूर्ण रोजगार मिळविण्यासाठी भाषिक कौशल्ये प्राप्त होतील.
- ६) मराठी भाषेच्या माध्यमातून विविध क्षेत्रात लागणारे व्यावहारिक कौशल्याचे उपयोजन विद्यार्थी करतील.
- ७) रोजगारा निर्मितीसाठी लागणाऱ्या विविध कौशल्य निर्मितीचा दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल.

**अभ्यासक्रमाची रोजगारविषयक क्षमता (Employability Potential of the Programme)**

नवा शोध, नवी स्पंदने दुसऱ्यांपर्यंत / समाजापर्यंत पोचवायची असतील तर समर्थ भाषेशिवाय पर्याय नाही. मग ती परंपरागत, संगणकीय, गणिती, एसएमएस तंत्राधारित, इमोजी/चिन्हांची भाषा का असेना, भाषेच्या विद्यार्थ्यांना या अनुषंगाने जवळजवळ सर्वच सेवाक्षेत्रात, व्यवसायाच्या क्षेत्रात अंगिकृत भाषाकौशल्य व त्याच्या जोडीला त्याने आत्मसात केलेल्या इतर कौशल्यामुळे संधीची गंगा त्याच्या आजुबाजूला वाहते आहे व या संधीचे त्याने सोने केले तर त्याला निश्चितच रोजगार प्राप्त होईल.



## विभाग व

वी.ए. भाग-१, सत्र-१  
विषय : मराठी (आवश्यक)

नेमलेले पाठ्यपुस्तक : 'शब्दगंध' भाग-१ (सत्र १ व सत्र २) (संपादित)  
प्रकाशकाचे नाव : राघव पब्लिशर्स अँड डिस्ट्रीब्युटर्स, नागपूर

## अभ्यासपत्रिकेची निष्पत्ती (COs) :

- नेमलेल्या साहित्यातून जीवनदर्शन, समकालीन व्यवहार जाणवा यांची माहिती होईल.
- वैचारिक, ललित, कविता या विविध वाङ्मय प्रकाराचे ज्ञान होईल. या वाङ्मय प्रकाराचे वेगळेपण जाणून घेतील तथा यामधील साम्यभेदाचे आकलन होईल.
- वैचारिक गद्यातून भाषेच्या सर्जनशील रूपाचे विद्यार्थ्यांना आकलन होईल. तसेच चारित्र्यविषय असलेल्या थोर व्यक्तींच्या जीवनकार्यातून विद्यार्थ्यांना प्रेरणा मिळेल आणि संकटावर मात करून जीवनात यशस्वी होता येतेहा विचार त्यांच्या मनी रुजेल.
- ललित कलाकृतीच्या वाचनातून आनंद, बोध, ज्ञान इत्यादींची प्राप्ती होऊन विद्यार्थ्यांच्या जीवनविषयक जाणवा समृद्ध होतील.
- वैचारिकता, तात्त्विकता, काव्यात्मकता, भावनात्मकता, सामान्य गोष्टीतील असामान्यत्वाचे दर्शन यातून विद्यार्थ्यांचा दृष्टीकोण संपन्न होईल.
- विविध प्रकारच्या साहित्याचे आकलन, वर्णन, आस्वादन, विश्लेषण आणि मूल्यमापन करण्याची क्षमता वाढून विद्यार्थ्यांची अभिरुची विकसित होईल.
- या वाङ्मयप्रकारातून विविध प्रकारचे नीतिमूल्ये, जीवनमूल्ये, यांची शिकवण विद्यार्थ्यांना मिळेल, त्याचा उपयोग उत्तमरीतीने जीवन जगण्यासाठी होईल.
- 'उपयोजित' घटकाच्या माध्यमातून विविध प्रकारची कौशल्ये त्यांच्यात निर्माण होतील व ते रोजगारक्षम होतील.
- विचारवंत, लेखक, कवी होण्यासाठी हे अध्ययन प्रेरक ठरेल, सहाय्यभूत ठरेल. यातून विद्यार्थी भाषेचा सर्जनशील वापर कसा करावा हे समजून घेतील व विविध प्रकारातील साहित्य निर्मिती करतील. तसेच व्यवहारिक उपयोजन करून रोजगारक्षम होतील.

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका (Teaching Hours)	श्रेयांक Credit
<b>विभाग - अ</b>	<b>वैचारिक</b>		
१)	माझे तीन गुरू व तीन दैवते - डॉ.बाबासाहेब आंबेडकर	१२	
२)	सत्यशोधक पंढरीनाथ पाटील आणि महात्मा फुले यांचे चरित्र - डॉ.प्रल्हाद जी. लुलेकर		
३)	छत्रपती शिवरायांची प्रशासन व्यवस्था - चंद्रशेखर शिखरे		
<b>विभाग - ब</b>	<b>ललित</b>		
१)	जनानी जयपुरी - वसंत बापट	१२	
२)	गढी - प्रतिमा इंगोले		
३)	वाघापूर पॅटर्न - अशोक मानकर		
<b>विभाग - क</b>	<b>कविता</b>		
१)	संतवाणी	११	०३
	अ)पैलतोगे.... - संत ज्ञानेश्वर		
	ब) कांदा, मुळा भाजी - संत सावता माळी		
२)	नवा शिपाई - केशवसुत		
३)	या भारतात बंधुभाव नित्य वसू दे - राष्ट्रसंत तुकडोजी महाराज		
४)	विमान - अजीम नवाज राही		
५)	पोशीदा - रवींद्र महल्ले		
६)	अतिक्रमण - विशाल इंगोले		
<b>विभाग - ड</b>	<b>उपयोजित मराठी</b>		
	लेखनविषयक नियम	१०	
	मुद्रित शोधन		
		४५	०३

## **B. A. English Literature**

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**Sant Gadge Baba Amravati University, Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**

**Faculty : Humanities**

**Programme: B.A. I**

**Part A**

**BA - PART I EXAMINATION**

**Semester – I**

**English Literature**

**(Course Code DSC ELT 1.2)**

**PSOs :**

**AFTER COMPLETION OF THIS COURSE STUDENTS WILL BE ABLE TO:**

1. Understand Literary Movements that existed in different ages.
2. Define Literary Theories and Terms in Criticism.
3. Develop reading, writing and analytical skills.
4. Communicate their ideas critically and creatively.

### **Employability Potential of B.A. Programme**

The job market today, is dynamic and challenging place for young people graduating from our educational institutions. While the number of job seekers is on rise, so are the employment opportunities available to them. However, many employers say that they are unable to find suitable candidates for the jobs they have. Of the candidates who appear for interviews every year, only about thirty percent are selected for the employment. This does not mean that students are poorly equipped with knowledge. On the contrary, many are adequately qualified in this area. The problem is that they lack proficiency in English and the soft skills necessary for professionals today. The need to equip graduating students with skills essential for work place has become an urgent concern. Keeping this in mind the board of studies in English designed the curriculum of English Compulsory, English Literature, Supplementary English, Functional English, Ability Enhancement Course in Communication Skills in English and General Interest Course in Soft Skills.

All living beings communicate. To communicate is a sign of life. In fact, communication is essential to survival, to co-existence and is a natural

-2-

instinct. In order to improve communication skills of students many topics on communication have been incorporated in the curriculum.

After completion of this course students can make career in creative writing, translation, journalism, content writing and tourism industry. Making career through competitive examinations is a dream of many arts graduates. The present curriculum is immensely helpful for students, who desire to prepare for competitive examinations.

### **Part-B**

#### **BA - PART I EXAMINATION**

##### **Semester – I**

##### **English Literature**

(Course Code DSC ELT 1.2)

#### **Cos:**

#### **AFTER COMPLETION OF THIS COURSE STUDENTS WILL BE ABLE TO:**

1. Analyse various forms of literature.
2. Acquaint them with the forms of structures and aesthetics of style and techniques of literary works.
3. Analyse various elements of literature.
4. Communicate in English orally and in writing.
5. Kindle their critical thinking skills.

#### **UNIT –I BACKGROUND TO THE STUDY OF ENGLISH LITERATURE (15 MARKS)**

- 1) Elements of literature
- 2) Elements of poetry
- 3) Metaphysical school of poetry
- 4) Origin and development of essay

#### **UNIT –II INTRODUCTION TO LITERARY TERMS (15 PERIODS)**

- I) The Lyric    II) The Ode    III) The Sonnet    IV) The Elegy  
V) The Aphoristic Essay    VI) The Critical Essay    VII) The Periodical Essay  
VIII) The Personal Essay

#### **UNIT- III POETRY (12 PERIODS)**

- I) All the World's a Stage- William Shakespeare  
II) A Hymn to God the Father- Ben Jonson

# Home Economics

**Sant Gadge Baba University Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**  
**Faculty: Humanity**  
**Programme: UG (B.A. Home Economics)**

**Part A**

**PSOs**

After successfully completion of UG course in Home Economics student will be able to -

- Describe the home management process and apply it in practice for planning and executing inside and outside the home
- Play model role as a home maker, home manager, home Scientist, counselor as well as play a different role in different kinds.
- Build Confidence to create her own business and adjust in it better way.
- Derive certain changes in behavior and attitudes that require for effective communication and as a Entrepreneur.

**Employability potential of the program**

Home-Economics education is an education for life. Home-Economics subject is an applied subject in which all areas of courses is utilized in day-to-day individual life as well as community services. This area has vast potentials that develop learning communities. Home-Economics is an evolving practical discipline with a lot of employment potential in both academic and commercial sector. Home- Economics covers areas of specialization such as Food and Nutrition, Communication and Extension, Resource Management, Human Development, Fabric and Apparel science. Home-Economics is a combination of art and science not only confined to food and nutrition but also Housekeeping, Textiles, Dietetics, Family Relations, Community living, Consumer Economics, Child Development and Hygiene. To begin with a career in this field, Students must possess rational mind along with realistic approach and an objective attitude. Increasing consciousness with respect to health, diet and way of life has increased the number of candidates taking up home economics as their career source.

With regards to Academic, students can also find teaching jobs in governmental and private schools and colleges. Students continues their further master degree and Ph.D. in the field of Home-Economics and take up NET examination in Home-Economics. Home-Economics students have a lot of opportunities of employment in private companies, NGOs, and entrepreneurship development. Home-Economics graduates can run childhood care units like Daycare Centers, Crèches, Nursery school after-school centers and Health Centers Health centers can provide special advice for the dietary needs of people suffering from different diseases. These centers will not only be a service to the community but would help them create employment for themselves and others. Students with BA degree can disseminate important information related to health conscious and community health. Being a part of television programmes or writing a cook book are great options.

In India, Home-Economics is in its emerging stage of development, so Home-Economics graduates have ample employment opportunities in private sector (cooking, fashion designer, housekeeping, dietitians), (social welfare officer, food analysts, fashion designer), government sector (scientists, professors, research assistant) and self-employment sector (boutique, cloths designing, coaching Centre, hobby Centre, child care, catering and health care). Thus, Home-Economics is an emerging academic discipline which has ample opportunities of technologies for conservation and is a unique discipline with a blend of science and art. And a very useful application of these knowledge by learning community is play favorable role in family life cycle effectively and try to make responsible citizen doing extension activities and community services.

**Part-B**  
**Syllabus prescribed for 2022-23 for UG program**  
**Program- BA**  
**Course/ Subject: HOME ECONOMICS**

**Semester-I**

Code of the Course/ Subject	Title of the Course/ Subject	Total number of Periods
1113	<b>Family Resource Management and Interior Decoration</b>	75 periods

**Objectives: This course will enable the students-**

- To recognize the basic concepts home economics.
- To design a plan of home-work using management process.
- To classify the resources and decisions and use it effectively.
- To enhance the chances of reaching the desired goals through wise decisions and effective use of resources.
- To apply the course knowledge in day-to-day life.

**COs**

**After successfully completion of course student should be able to-**

- Formulate a plan of activities/programs managing and saving resources.
- Evaluate the planned activities and will be able to build better plan in coming program.
- Classify the decisions to its hierarchy for achieving a goal in future.
- Make family budget with list of items.
- Make greeting cards and sample design using colour schemes
- Quote and Name to each flower arrangement

Unit	Content
<b>Unit I</b>  <b>Introduction of Home Economics</b>	<b>(12 periods)</b>  1.1 Introduction and History of Home Economics. 1.2 Definition, Meaning and Scope of Home Economics 1.3 Branches of Home Economics: i) Home Management ii) Food & Nutrition  iii) Textile & Clothing iv) Human Development, v) Extension & Education vi) Consumer Economics vii) Marriage and Family relationship 1.4 Application of Home Economics Subject's knowledge for employment and self-employment.
<b>Unit II</b>  <b>Home Management and Family resources</b>	<b>(12 periods)</b>  2.1 Definition, Meaning and Importance of Home management. 2.2 Process of Home management: Planning, Controlling and Evaluation 2.3 Types of family resources. 2.4 Qualities of Home manager: i) Intelligence ii) Imagination power. iii) Skills iv) Positiveness v) Encouraging and supportive, vi) honest vii) Role model

**M. A. (Marathi)**



संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती  
 पसंतीवर आधारित श्रेयांक पद्धती (CBCS) अभ्यासक्रम २०२२-२०२३  
 विद्याशाखा : मानव विज्ञान (Faculty – Humanities)  
 अभ्यासक्रम : वाङ्मय पारंगत (मराठी) / एम. ए. (मराठी) (Programme - M.A. Marathi)

**विभाग अ (Part – A)**

**POs (अभ्यासक्रमाची निष्पत्ती) :**

१. जीवन व्यवहाराच्या विविध क्षेत्रांतील आंतरसंबंधांचे ज्ञान प्राप्त होईल. तसेच त्यातील गुंतागुंत समजून घेऊन वैश्विक मानवतेच्या व्यापक पटावर जीवनाचे आकलन करून घेण्याची दृष्टी प्राप्त होईल.
२. व्यक्तिगत आणि सार्वजनिक जीवनातील बदलत्या परिस्थितीचे आकलन करून त्यात विवेकपूर्ण विचार आणि व्यवहार करण्यासाठीची विचारप्रवणता आणि कृतिशीलता निर्माण होईल.
३. प्रतिष्ठापूर्ण आणि आत्मसन्मानाने स्वावलंबी जीवन जगण्याची व इतरांनाही त्या दृष्टीने सहकार्य करण्याची इच्छाशक्ती अंगी बाणवता येईल.
४. संशोधक वृत्ती, जिज्ञासूपणा आणि ज्ञानालासा वाढीस लागून ज्ञानाचे व्यावहारिक उपयोजन करता येईल.
५. चिकित्सक आणि तुलनात्मक अभ्यास दृष्टीचा विकास होईल. त्यामुळे जीवनातील सैद्धांतिक आणि प्रायोगिक पातळीवरील समस्यांचे कालसापेक्ष भान निर्माण होऊन सर्जनशील पर्याय देण्याची प्रक्रिया विकसित होईल.
६. भाषाभान जागृत होऊन मानवी सभ्येतेतील भाषेचे प्रयोजन आणि बदलत्या काळातील त्याचे उपयोजन करता येईल. शिवाय बहुभाषिक आणि बहुसांस्कृतिक लौकिक प्राप्त करून घेता येईल.
७. विचार आणि भावपोषण योग्य पद्धतीने झाल्यामुळे आत्मविश्वासाने जीवन जगता येईल.
८. माहिती व तंत्रज्ञानाची कौशल्ये विकसित करून रोजगार सक्षम होता येईल.

**PSOs (अभ्यासक्रमाची विशिष्ट निष्पत्ती) :**

१. संत गाडगे बाबा अमरावती विद्यापीठाच्या मानव विज्ञान शाखेतील एम.ए. मराठी अभ्यासक्रमाच्या अध्यायानामुळे विद्यार्थ्यांची साहित्य ही संकल्पना सुस्पष्ट होऊन त्याची अभिरुची वृद्धिंगत होईल.
२. समकालीन बदलत्या संदर्भात मराठी समाज, भाषा, इतिहास, साहित्य आणि संस्कृतीचे चिकित्सक आकलन होईल.
३. भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे व्यावहारिक उपयोजन करता येईल.
४. चिकित्सा, तुलना आणि समीक्षा करण्याची दृष्टी विकसित झाल्यामुळे विविध साहित्य प्रकारांतील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करता येईल.
५. भाषेच्या तात्त्विक अभ्यासासह प्रतिष्ठापूर्ण रोजगार प्राप्तीसाठीचे भाषिक कौशल्य प्राप्त होतील.

## विभाग ब (Part – B)

वाङ्मय पारंगत (मराठी) / एम. ए. (मराठी) अभ्यासक्रम  
एम. ए. (मराठी) : सत्र पहिले

अक्र.	अभ्यासपत्रिका प्रकार	अभ्यासपत्रिका संकेतांक	अभ्यासपत्रिका शीर्षक	तास	श्रेयांक
१	DSC - 1	MS11	मराठी साहित्याची सांस्कृतिक व सामाजिक पार्श्वभूमी (आरंभ ते १८१८)	६०	४
२	DSC - 2	MS12	साहित्यविचार	६०	४
३	DSE- 3 A	MS13	संतसाहित्य	६०	४
	DSE- 3 B	MS14	लोकसाहित्य		
	DSE - 3 C	MS15	साहित्यकृतींचा अभ्यास		
४	DSE - 4 A	MS16	विशेष वाङ्मयप्रकार कथा	६०	४
	DSE - 4 B	MS17	विशेष वाङ्मयप्रकार कविता		
	DSE - 4 C	MS18	विशेष वाङ्मयप्रकार ललित गद्य		
	DSE - 4 D	MS19	विशेष वाङ्मयप्रकार चरित्र-आत्मचरित्र-आत्मकथन		

## सूचना :

- १) DSC अभ्यासपत्रिका अनिवार्य राहिल.
- २) DSE अभ्यासपत्रिका ऐच्छिक स्वरूपाची असून गट ३ मधील कोणतीही एक अभ्यासपत्रिका आणि गट ४ मधील कोणतीही एक अभ्यासपत्रिका निवडावी लागेल.

**M. A. (History)**

**Sant Gadge Baba Amravati University, Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**  
**Faculty : Humanities**  
**Programme: M.A. (History)**

**Part A**

**Programme Outcomes (PO)**

1. Student will learn basic narrative of historical events, chronology, personalities and turning points of the history of the India and World.
2. Build critical ability through competing interpretations and multiple narratives of the past, offer multi-causal explanations of major historical developments based on contextualized analysis of interrelated political, social, economic, cultural and intellectual processes.
3. Evaluation of historical ideas, arguments and points of view, presentation of a summary of a topic in an organized, coherent, and compelling fashion orally or written.
4. Construct original historical arguments based on primary or secondary source material and ability to identify and describe the contours and stakes of conversations among historians within defined historiographical fields.
5. Students will acquire basic historical research skills, including, effective use of libraries, archives, and databases.

**Specific Programme Outcomes (SPO)**

1. Through completion of a combination of courses, students become familiar with the political processes and structures, society and culture, political Ideas and institutions, historical thought and historiography, economy and society in India and World.
2. Understand background of the religions, customs, institutions and administration and so on.
3. By analyzing relationship between the past and the present students will understand the social, political, religious and economic conditions of the people. She/he will be capable of leading and participate in discussion.
4. Develop interests in the study of history and activities relating to history. Students can collect old coins and other historical materials, participate in historical drama and historical occasions, visits places of historical interests, archeological sites, museums and archives, read historical maps, charts and write articles on historical topics.
5. Study of history helps to impart moral and environmental education. History develops a feeling of patriotism in the hearts of the pupils.

**Employability Potential of the Programme:**

**M.A. in History, Semester I : Scope and Employment Opportunities**

History graduates usually find plenty of lucrative career positions in both government and private sectors. Some of the most promising government job arenas are museums, libraries, archives, tourism, heritage consultancy & planning, and foreign affairs departments. Apart from this, History majors can also opt for Academia, Law, Journalism, Politics, Civil Services, and Public Relations.

Here are five areas that prove the scope of M.A. History is rich and varied:

**1. Archeology**

Archaeology is a highly research-oriented field of study. Archaeologists are experts who investigate the different facets of human, cultural, and material development. They excavate and unearth things of historical importance like coins, inscriptions, monuments, etc., and analyze them to find out which period they belong to, their purpose, how they were used, and so on.

The Archaeological Survey of India (ASI) is responsible for maintaining heritage buildings, museums, sites, and historical research institutions. So, for an aspiring Archeologist, ASI is the ideal employment institution.

**Programme: M.A. (History)  
Semester 1**

Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods	No. of Credits
<b>History paper 1</b>	<b>Historiography</b>	60	04

**COs:( Course outcomes)****A) Knowledge and understanding Student will**

1. To describe about the method of writing history.
2. Analysis the excellent work of many scholars Philosophers and critics.
3. To compare thoughtful authentic and systematic study of History is not merely for enriching the social theory.
4. Learn to investigate rationally the truth and Principles of knowledge.
5. Learn to deal with the various aspect of widened scope of history.

**B) Intellectual skills–**

1. Students will be able to interpret the changing and wider meaning of History.
2. Student will learn a drastic change in approach , treatment and technique of historical literature .
3. Student will be able to writing history
4. Students take interest to visit historical place and write history with historical approach.

**Total Marks: 100**  
Theory 80 IA .Ass.20

<b>Unit 1</b>	1.) Meaning of Historiography, Nature and Scope of History 2.) Auxiliary Sciences of History Kinds of History	<b>(Periods 9)</b>
<b>Unit 2</b>	1) History as an Art and a science 2) Sources of History and their relative importance 3) Collection and selection of Data: Foot notes, Bibliography	<b>(Periods 9)</b>
<b>Unit 3</b>	1) Internal and External Criticism, 2)Causation in History 3)Rewriting of History.	<b>(Periods 9)</b>
<b>Unit 4</b>	1) Ancient Tradition: Ancient Indian Tradition, Greco- Roman, Chinese Tradition 2) Medieval Historiography: Indian -Sultanate , Mughal and Maratha 3) Western, Arabic and Persian History writing	<b>(Periods 9)</b>
<b>Unit 5</b>	1) Classical Marxism - Karl Marx. 2) Annals Marc Bloch, Fernand Braudel 3) Positivism- August Comte, Ranke	<b>(Periods 9)</b>

**Internal Assessment**

<b>Assessment / Seminar</b>	<b>(15 Periods)</b>
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**Reference Books:**

- 1) Introduction to the study of History- Langlois&Seignbos
- 2) History Its Theory and Practice- B. Shaikh Ali
- 3) Study of History -A Toynbee
- 4) History of Historiography- Shot Weel
- 5) Historians and Histriography in Modern India :S. P. Sen.
- 6) इतिहासाचे स्वरूप आणि अभ्यास- वळसंगकर
- 7) इतिहासाचे तत्त्वज्ञान- सदाशिव आठवले
- 8) इतिहास लेखन शास्त्र- गायकवाड सरदेसाई व हनुमाने
- 9) इतिहास लेखन शास्त्र- सुहास राज देकर
- 10) इतिहास लेखन शास्त्र- प्राध्यापक प्रकाश चंद्र व्यास
- 11) संशोधकाचा मित्र- ग. ह. खरे
- 12) इतिहास स्वरूप व सिद्धांत- गोपीचंद पांडे
- 13) इतिहास म्हणजे काय ? - इ. एच. कार

**M. A. (Political Science)**

**Sant Gadge Baba Amravati University, Amravati**  
**Syllabus Prescribed under Choice based Credit System 2022-23**  
**Faculty : Humanities**  
**Programme: M.A. (Political Science)**

**Part A**

**POs:**

1. Familiarity with different approaches to the study of Political Science and an ability to apply this to contemporary political problems.
2. An ability to formulate and construct logical argument about political phenomena.
3. Comprehend the basic structure and functions of government systems and theoretical understandings.
4. Analyse political problems, argument, information, theories.
5. Apply methods appropriated for accumulating and interpreting data applicable to political science.
6. An ability to analyse the election data and to develop leadership qualities among students.

**PSOs:**

1. Ability to discuss about Indian Constitution and Political process. student to grasp knowledge of provisions in constitution of India regarding fundamental rights, Directive principles, Parliament, judiciary and executive body at centre and state.
2. Learn about the various Political thought in Maharashtra like Dr.B.R. Ambedkar, M.G. Ranade, Dr. Punjabrao Deshmukh, and Mahatma Phule etc.
3. Student are acquainted with the Indian political thought and western political thought various ideologies like Feminism, liberalism, socialism, Environmentalism etc.
4. Student are acquainted with the Theories and aspects of international relations, non-alignment movement, new world economic order etc.
5. Learn about the political process in India and acquainted with Governance and public policy in India.
6. Students are able to develop leadership qualities and Election analysis.
7. Understanding & Analysing the nature and developments in national and international politics.

**Employability Potential of the Programme-**

Political Science students have the advantage of learning and knowing about government policies, rules and regulations - knowledge that is increasingly important in today's business world. Political science graduates have even chosen careers in personnel, marketing, advising, banking, finance, and public relations. With some work experience, you may also find yourself able to work in both the private and public sectors.

One thing you should keep in mind is that your future employer will likely be looking for people who can do the following:

- communicate clearly, present ideas persuasively (orally or in writing)

- Community activist
- Constituency office worker
- Project officer
- Communications officer with a government organization
- Election Campaigning Advisor

**Part B****Programme: M.A. (Political Science)****Semester 1**

Sr.No.	Subject	Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
1	DSC -I	POLC01	Indian Political Thought	60 Periods
2	DSC -II	POLC02	Indian Government and Politics	60 Periods
3	DSC -III	POLC03	Public Administration	60 Periods
4	DSE-I	POLE01	Modern Political Ideology	60 Periods
	DSE-II	POLE02	International Relations	
	DSE-III	POLE03	Local Self Government	

Note : - Choose any one from DSE I , DSE II & DSE III paper / course.



**B. Com**

## SantGadge Baba Amravati University

## Part A

Faculty :Commerce&amp; Management

Programme :Bachelor of Commerce

**Programme Objectives :-**

- To impart the basic knowledge of Economics.
- To impart basic knowledge of Accountancy & Statistics.
- To impart knowledge of creating a cash book and ledger books.
- To impart the basic knowledge of management, planning, organizing, directing and controlling
- To impart the basic knowledge of application of computers and its development.
- To impart the knowledge of business sectors, firms, e-commerce, cashless transaction
- To impart the knowledge of local and global enterprises and trade.
- To develop presentation skills and ability of goal setting.
- To bring about the holistic development of the students.
- To develop ethics of life.
- To inculcate Environmental awareness.
- To impart the fundamental knowledge of Computer.

**Programme Outcomes :-**

The students would able to –

- Attain requisite skills and knowledge after the completion of the programme.
- Achieve the basic knowledge of Economics.
- Assimilate basic knowledge of Accountancy & Statistics.
- Efficiency in reading and writing skill.
- Achieve requisite skills and knowledge of preparing cashbook, ledger books and balancesheet of company.
- Become knowledgeable about marketing.
- Create a self employment.
- Assimilate ethics of life.
- Achieve Environmental awareness.
- Attain fundamental knowledge of Computer.

**Employability Potential of the Programme**

Commerce faculty is really very popular as it can earn up lucrative packages and opportunities are more than Arts or Science faculty. As commerce education includes computer, Talley, GST, income tax and English Language and communication Skill so chances of getting jobs in shops and malls are more than before.

Chartered Accountant is a dream career for commerce graduates .With several students failing to clear all stages of the course, CA is one of the hardest courses in the world. Therefore, to do very well in this course, students require specific talents and skills. Even if they cannot become CA they can find suitable jobs in market. Company Secretary is second popular Course. After B Com, M Com and PhD, to become professor is also a good option.

**\*Jobs for Commerce graduate Students \***

Chartered Accountant (CA), Marketing Manager, Investment Banker, Human Resource Manager, Chartered Financial Analyst (CFA), Certified Public Accountant (CPA), Cost Accountant, Business Accountant and Taxation, Retail Manager, Company Secretary, Personal Financial Advisor, Research Analyst, Entrepreneur, Chief Executive Officer (CEO), Cost Management Accountant (CMA), Product Manager, Hotel Manager, Event Manager, Teachers / Instructors / professors Auditors / Clerks

Commerce graduates can prepare for competitive Examination like MPSC or UPSC to become government officers in state and central government. Commerce graduates can start business or Start-ups. They have the potential to create jobs by starting industry.

The present curriculum of B Com designed by the BOS of the Commerce and Management of SantGadge Baba University Amravati has all the potential to create an employable opportunities for the students. The curriculum will develop an innovative and global approach in the field of Commerce and Management. It will acquaint the students with the rapidly changing contemporary scenario in trade and commerce and in the corporate world. It will develop them into more creative and visionary entrepreneurs and boost them to undertake start-up enterprises in near future. The detailed knowledge in trade and commerce, statistical analysis of the global economy, the use of ultra modern technology in e-commerce, the applied nature of the course content and the need based skill oriented curriculum's rapport with the requirement in the region will develop the multi-dimensional view of the students and the feeling of affinity and sense of duty for the development of living standard of the people in the region of Western Vidarbha and thereby fulfil the community services. In this way, the potential and the research

**Intern at a reputed company -**

Many companies offer a variety of internships to the B.Com students so that they can gain the required experience and skills at the beginning of their career. students should be clear with which skills they want to acquire and enhance, what is the deadline and how they can update their resume.

**Entrepreneurship-**

Once the candidate has completed the graduation, he/she can utilize the learned skills and become his own boss. The curriculum gives knowledge related to finance, accounts, management and some legal aspects also.

**Part B****Syllabus prescribed for 1<sup>st</sup> Year Under Graduate Programme****Programme : Bachelor of Commerce****Semester I**

Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods
<b>BC-11</b>	<b>English</b>	<b>60</b>

**COs:**

1. Able to communicate skilfully in Business correspondence
2. Acquaint with the work culture in corporate world
3. The life of great personalities will motivate them to toil to be successful
4. Learn and gain fluency in the English language and conversation.
5. Become efficient in reading and writing skills.
6. The drafting skills of the learners will be honed through grammar and writing skills
7. Become proficient in the language and to eventually inculcate professional skills

Unit	Content	No. of Periods
<b>I</b>	<b>PROSE</b> D) Commerce Education : Key to Prosperity and Security - Dr. Manjushree Sardeshpande II) Dhirubhai Ambani III) A R Rahman IV) The Romance of A Busy Broker by O. Henry	<b>10</b>
<b>II</b>	<b>Poetry</b> D) Stay Calm - Grenville Kleiser II) All the World's A Stage - William Shakespeare III) Trees - Joyce Kilmer IV) Bright Star - John Keats	<b>10</b>
<b>III</b>	<b>Grammar</b> D) Articles II) Parts of Speech III) Word Formation	<b>10</b>
<b>IV</b>	<b>Communication and Writing Skills</b> D) letter Writing II) Report Writing III) Resume	<b>10</b>
<b>V</b>	<b>Soft Skills</b> D) Critical, Creative and Positive Thinking II) Building Relationship Skills III) Problem Solving Skills	<b>10</b>
<b>VI</b>	<b>Skill Enhancement Module</b> How to open a DMAT account	<b>10</b>

**After completion of Skill module students will be able to:**

1. Acquaint with National Stock Exchange (NSE), Share Market and Systematic Investment Plan (SIP)
2. Acquaint with the volatile nature of market and Corporate world
3. Broaden their vision about Trade and Commerce
  - i) Assignment: A Report on How to open a DMAT account
  - ii) Class Test: Seminar on How to open a DMAT account

**Reference Books:**

1. Intermediate English Grammar - Raymond Murphy (Cambridge University Press)
2. Advanced English Grammar - Martin Hewings (Cambridge University Press)
3. 'Expressions' by Dr. Uday Navalekar, Published by Pimpalpure Book Distributors
4. A Course in English Grammar - R.N.Bakshi (Orient Blackswan)

**Prescribed Textbook:** 'Oasis' by Board of Editors & Published by Orient Blackswan

Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods
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3

**M. Com**

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**Sant Gadge Baba Amravati University**
**Part A**Faculty : **Commerce & Management**Programme : **Master of Commerce****Programme Objectives :**

- 1) To enable the student to acquire the process of managerial economics, demand analysis, production theory, price determination and pricing practices, etc.
- 2) To acquaint the student with basic issues in services marketing and customer relationship management.
- 3) To enable the student to understand & master the accounting concepts as well as tools and techniques used for taking managerial decisions.
- 4) To impart the knowledge of ratio analysis, cash flow and budgetary control.
- 5) To enhance decision making abilities of students in situation of uncertainty in dynamic business environment.
- 6) To help the student to understand and master the conceptual framework of Management and organizational behavior.
- 7) To provide understanding of computer operating system and application of relevant softwares in managerial decision making
- 8) To impart the knowledge of commercial banks and its transactions, nature and scope of insurance and its kinds.

**Programme Outcomes :-**

The student would be able-

- 1) 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.
- 2) To acquire the process of managerial economics, demand analysis, production theory, price determination and pricing practices, etc.
- 3) To acquire proficiency in the accounting concepts as well as tools and techniques used for taking managerial decisions.
- 4) To master the knowledge of ratio analysis, cash flow and budgetary control.
- 5) To achieve decision making abilities in the situation of uncertainty in dynamic business environment.
- 6) To master the conceptual framework of Management and organizational behavior.
- 7) To attain understanding of computer operating system and application of relevant softwares in managerial decision making.
- 8) To gain the knowledge of commercial banks and its transactions, nature and scope of insurance and its kinds.

**Employability Potential of the Programme**

Master of Commerce is a 2 Year PG Degree programme a student's who is done graduation in Commerce and Management i.e B.Com & BBA can take admission in M.Com it is one of the PG course which helps to get knowledge of subject such as accounting , International Business Management finance Banking Economics etc

Some of the high paying jobs are as below

There are many jobs after completing after Masters of commerce degree

- 1) **Economics:** Jobs after holding an M.Com degree can get the jobs as an Economist, Market Research Analyst, Credit Analyst, Statistician, Financial Analyst, Lecturer, etc.
- 2) **Accounting:** Candidates having a M.Com degree and knowledge of Tally can get the job in accounting field
- 3) **Banking and Insurance :** With an M.Com specialization of **Banking and Insurance**, one can get jobs in banking sector such as at cash counter, loan department as well as insurance sector
- 4) **Educational Institute :** A students after **M.Com Degree can pursue Ph.D. In Commerce, Management and Economics. Even they can appear for NET/SET examination on the basis of which they can get the job of lectureship and eligible for Assistant Professor**
- 5) **Finance:** With an M.Com degree, one can become a banker, management consultant, stockbroker/trader, Actuary, Financial analyst, among other job roles.
- 6) **Accounting And Auditing :** with M.Com degree one can get the job as a internal auditor or an accounting an accountant at various business and services sector.
- 7) **Taxation :** With M.Com degree one can get a Jobs of an tax advisor to file income tax return at GST return

**Taxation:** Graduates with an M.Com degree specialising in **Taxation** can get jobs as Financial advisors or Advisor to Tax Law Court. In addition, one can become a financial analyst, tax accountant, or tax consultant

**Employment Sector After M.Com**

- Insurance Industry
- Educational Institutes
- Customs Department
- Economic Consulting Firms
- Commercial Banking
- International Banking
- Investment Banking
- Accounting and auditing
- Tax advisory services
- Financial services
- Insurance services
- Government service

	5.1 Customer Expectation and Perception 5.2 Relationship strategies. 5.3 Implementing customer relationship management. 5.4 Corporate social Responsibility and CRM.	
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**BOOKS RECOMMENDED**

- \* The Essence of Services Marketing, by Payne and Adrian. Prentice Hall.
- \* Services Marketing, by Zeithaml. McGraw Hill, Inc, New York.
- \* Services Marketing by S.M. Jha. Himalaya Publishing House.
- \* Customer Relationship Management, by Jagdish Seth et. al. Tata McGraw Hill New Delhi
- \* Customer Relationship Management Essentials, by John W. Gosney. Prentice Hall
- \* Services Marketing and Customer Relationship Management, By Dr. L.K. Karangale & Dr. P.N. Ladhe; Payal Prakashran Nagpure

**Part B**

**Syllabus prescribed for 1<sup>st</sup> Year Post Graduate Programme**

Programme : Master of Commerce		Semester I
Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods
<b>MCOM – 13</b>	<b>Advanced Financial &amp; Cost Accounting</b>	75

**Course Outcomes :**

1. Investments are assets held by an enterprise for earning income
2. Final Accounts gives an idea about the profitability and financial posting of business to its management, owners and other interested parties.
3. The cost sheet is prepared to ascertain cost of product/job/operation or to give autatier or to determine tender price for supply of goods or providing service
4. Operating result the operating result is the surplus or deficit for the year under the Accounting Standard framework an geeting result recognises all revenues and operating expenditure
5. Accounting for construction contracts is the allocator of contract revenue and contract.

Unit	Content	No. of Periods
<b>I</b>	Final Accounts of Companies (an overview) Final Accounts and Financial Statement of Companies ( Schedule VI Part I & II)	<b>15</b>
<b>II</b>	Investment Accounting (as per AS-13)	<b>15</b>
<b>III</b>	1) Cost Accounting :- Meaning importance and scope of Cost Accounting. 2) Typical Problems on ascertainment to total cost Net Profit and Selling Prices.	<b>15</b>
<b>IV</b>	Unit costing, Batch costing & service costing (Operating)	<b>15</b>
<b>V</b>	1) Job & Contract costing 2) Cost Audit ,Concept and definition, scope kind of Audit Distinction between financial and cost Audit. Cost Audit Procedure Programme and Report Advantages of Cost Audit.	<b>15</b>

**BOOKS RECOMMENDED:**

1. Advanced Accounting : By – M.C.Shukla & T.S.Grewal
2. Advanced Financial Accounting : By R.L.Gupta
3. Financial Accounting : A Managerial Perspective by R.Narayanswamy
4. Advanced Cost Accounting : By B.M.Lall Nigam & G.L.Sharma
5. Cost Accounting : By R.K.Gupta
6. Cost Accounting : By Bigg.
7. Cost Accounting & Costing Methods : By Wheldon.

**Part B**

**Syllabus prescribed for 1<sup>st</sup> Year Post Graduate Programme**

Programme : Master of Commerce		Semester I
Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods
<b>MCOM – 14</b>	<b>Banking &amp; Insurance Services</b>	<b>60</b>

**Course Outcomes :**

1. Application of CIBIL Score in qualifying the proposal of advances
2. Impact of Monetary Policy on various industries
3. Impact of PMJJBY & PMSBY
4. Assessment of Claim Settlement Procedure of Life Insurance
5. Assessment of Claim Settlement Procedure of General Insurance

Unit	Content	No. of Periods
<b>I</b>	<b>COMMERCIAL BANKS:</b> Functions, Credit Creation, Priority Sectors, Mobilization of Resources, Current trends in giving loans-CIBIL. NPA-Bad bank concept and functions.	<b>12</b>

**GOEC[Elective]**

# **Sant Gadge Baba Amravati University, Amravati.**

## **Personality Development & Soft Skill**

**B.A., B.COM. AND B.SC. PART-I, SEMESTER-II**

### **Syllabus for the generic open elective course**

#### **Objectives:**

- To understand the scope of personality development and soft skill.
- Preparing the qualities that are important in the competitive era.
- To convince the students of the importance and importance of communication skills.

#### **UNIT I: Self-Development Skills (6 hours)**

##### **1.1. Introduction to Personality**

##### **1.2. Self-Esteem and Self-Confidence**

##### **1.3. Thinking and Problem-Solving Skills**

##### **1.4. Stress Management**

##### **1.5. SWOT Analysis and Goal-Setting**

#### **UNIT II: Interpersonal Skills (6 hours)**

##### **2.1. Hard Skills and Soft Skills**

##### **2.2. Effective Communication**

##### **2.3. Skills for a successful interview**

##### **2.4. Leadership**

##### **2.5. Social Empathy**

#### **UNIT III - MOTIVATION (4 hours)**

**Factors of motivation,**

**Self talk,**

**Intrinsic & Extrinsic Motivators.**



**UNIT IV - GOAL SETTING (4 hours)****Wish List,****SMART Goals,****Blueprint for success,****Short Term,****Long Term,****Life Time Goals.****Unit V****Time Management (4 hours)****Value of time,****Diagnosing Time Management,****Weekly Planner To-do list,****Prioritizing work****References:**

- 1) Anastasia, M. P. (2010). Seven Barriers to Active Listening: 'Why'; www.lawsagna.com
- 2) Argyle, M., Salter, V., Nicholson, H. Marilyn W. & Burgess, P. (1970). The Communication of Inferior and Superior Attitudes by Verbal and Non-Verbal Signals. British journal of social and clinical psychology Vol 9
- 3) [\(5967\) 7 Most Time Management Tips | by Him eesh Madaan - YouTube](#)
- 4) How to write a Resume Effectively? : Job Interview Tips in Hindi by Himesh
- 5) [\(5967\) "Personality Development by Vikas Divyakirti" || Drishti IAS || - YouTube](#)
- 6) <https://www.youtube.com/watch?v=Qv2Pd0ylToY> • How to write a resume / CV with Microsoft
- 7) [\(5967\) How to develop your Communication Skills by Simerjeet Singh -How to Improve English Speaking Skills? - YouTube](#)
- 8) [\(5967\) How to Set Your Goal | Goal Setting in Your Life | Life Motivational Tips | Sonu Sharma - YouTube](#)
- 9) Word <https://www.youtube.com/watch?v=fZclFtagPic&t=27s> •
- 10) How to Write a Winning Resume, with Ramit Sethi  
[https://www.youtube.com/watch?v=\\_0fjkKCsM1w&t=1s](https://www.youtube.com/watch?v=_0fjkKCsM1w&t=1s) • How to Write a Cover Letter  
<https://www.youtube.com/watch?v=wRo26Gth7u0>



  
**PRINCIPAL**  
 Shri Shivaji Science & Arts  
 College, Chikhli, Dist Buldana