

Pratibha Shikshan Prasarak Mandal , Januna's
Ghulam Nabi Azad Arts, Commerce & Science
College Barshitakli -444401 Dist. Akola (M.S)
(NAAC Re-Accrediated with "A" grade)

Dr Madhukar Pawar
Principial ,
M.Com.M.Phil.Ph.D.D.Litt.



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PROGRAMME OUTCOMES

Programme Outcomes Science (B. Sc.)

The students completing the B.Sc. Programme successfully is expected to have following outcomes.

- 1) Explaining the basic principles, concepts in science.
- 2) Inculcating the scientific attitude by understanding the science of nature.
- 3) Ability to communicate with others in Marathi, Hindi and English languages.
- 4) Ability to analyse quantitative and qualitative data, to draw correct inferences.
- 5) Understanding the issues related to nature and environment for sustainable development.

Programme Outcomes Arts (B. A.)

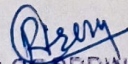
The students completing the B. A. programme is expected to achieve following goals:

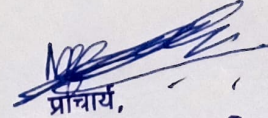
1. To have a sense of social service
2. Realization of moral and human values.
3. A responsible, dutiful and citizen of country with character.
4. Ability of critical thinking and creativity.
5. To demonstrate a working knowledge of importance, historical, social and linguistic events and movements that have effected human culture.

Programme Outcomes Commerce (B. Com.)

Students after completion of B. com. Programme is expected to achieve following outcomes:

1. Developed management skills.
2. Developed Entrepreneurial ability.
3. Developed numerical ability.
4. Well familiar with business regulatory framework.
5. Having basic knowledge of important business laws, financial accounting and basic principles of economics.


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GHULAM NABI AZAD ARTS COMMERCL
SCIENCE COLLEGE, BARSHITAKLI-


प्रिन्सिपल,
गुलाम नबी आझाद कला, वाणिज्य व विज्ञान
महाविद्यालय, बारशिटाकळी, जि.अकोला

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Course outcomes

A) B.SC

B.Sc. BIOCHEMISTRY :

By the end of this module, the students will be able to:

1. Extract enzyme from plant or animal or microbial sources and perform its qualitative assay.
2. Determine optimum pH, Optimum temperature and optimum substrate concentration of enzymes.
3. Study effect of inhibitor on enzyme activity.
4. Design and perform Enzyme Assay
5. Purify enzyme by using techniques such as precipitation, dialysis, Chromatography etc. B.Sc.

CHEMISTRY :

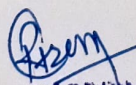
By the end of this course, the students would be able to:

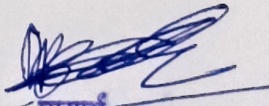
1. Solve the conceptual questions using the knowledge gained by studying periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements.
2. Apply concepts of acids and bases as well as non-aqueous solvents and their industrial usage.
3. Compare different reaction intermediates, 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.

B.Sc. BOTANY :

After completion of this course, student would be able to

1. Appreciate the need to conserve floristic and cultural diversity of the region.
2. Rescue and document Ethnobotanicals for sustainable use of plant resources.


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& SCIENCE COLLEGE, BARSHITAKLI.


प्रधान,
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महाविद्यालय, बारशिताकली, जि.अकोला

3. Understand the need for development of new drugs for safe and more rational use of herbal preparations.

4. develop laboratory skills in testing of herbal drugs and new commercial products.

B.Sc. Geology :

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

1. Megascopic identification of Rock.
2. Microscopic identification of Rock
3. Construction of paragenetic triangular graphs.

B.Sc. Microbiology :

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.Sc. zoology :

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

1. know what the chordates are.
2. Learn about the different phylum of chordates.
3. confidently explain the general characters and classification of Protochordates upto class Mammalia.
4. understand the level of organization in chordate.
5. explain the origin and evolutionary relationship in different subphylums of chordates.
6. describe specific features of Protochordates upto class Mammalia.
7. recognize and differentiate life functions of Protochordates upto class Mammalia.
8. understand Migration in fishes and birds , parental care in Amphibians and Poisonous and nonpoisonous snakes.
9. explain the adaptations in Birds and Mammals.

B.Sc. MATHEMATICS : After completing this course, students would be able to

1. find inverse and normal form of matrices .
2. evaluate the characteristic equation, eigen value and corresponding eigen vector of a given matrix

3. evaluate relation between the roots and coefficients of equations .
4. to study application of De Moivre's theorem . 5. compute summation of trigonometric series.

B.Sc. PHYSICS :

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 force 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)

B.Sc. STATISTICS :

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

1. Develop inference testing knowledge of the student 2. Develop distribution knowledge of the student.
3. Testing knowledge by using various statistical test is developed.
4. Apply concepts regarding statistical analysis.
5. Elaborative concept of statistical analysis is being developed.
6. CO for skill enhancement Course : Computer knowledge of the students is developed.

B.Sc. COMPUTER SCIENCE :

Upon completion of this course successfully, Students would be able to demonstrate/perform/accomplish the following

1. Write word processing task.
2. Create worksheet and perform operations on it.
3. Design, compile and debug programs in C language.
4. Classify conditional expressions and looping statement to solve problems associated with conditions and repetitions.
5. Demonstrate the programs using arithmetic and relational operators.
6. Implement the concept of various string handling functions.
7. Classify programming components that efficiently solve computing problems in real-world.

B.Sc. ELECTRONICS :

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

1. students will be able to know number systems and binary codes, their interconversion and arithmetic, logic gates, use of logic gates in adders. They will be able to design and construct logic circuits using logic gates.

2. understand Boolean algebra, De'Morgan's theorem, logic equations, K-map and logic families like DTL, TTL etc. They will be able to minimise logic equation, design and construct logic circuits using logic gates. 3. know construction and working of multivibrators and flip-flops. Also they will be able to design and construct different types of flip-flops using logic gates.

B) B.Com.

1. Able to communicate skillfully 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.

C) B.A.

B.A. ECONOMICS :

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 measurement of national income, GDP and Per Capita Income
3. Perform analysis to analyse the impact of Inflation and Deflation
4. To create a new approach towards the study of Value of Money.
5. The course will illustrate how macroeconomic concepts can be applied to analyze real-life situations
6. Analyse the performance consumption function
7. Evaluate the factors and awareness of international trade.

B.A.HISTORY:

- 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.

B.A. MUSIC:

- 1 The student will be able to perform Vilambit & Drut khyal with Gayaki
- 2 The student will understand about the Folk Music of Maharashtra.
- 3 The student will be able to perform the Talas with Layakari.

B.A. SOCIOLOGY:

- 1 To develop innovative personality .
- 2 To develop Social and National responsibility.

B.A. POLITICAL SCIENCE:

TO Understand the basic concept of democracy

1. To understand the basic structure of political system
2. To Understand the fundamental rights in Indian constitution
3. To understand the political theory
4. To get the knowledge of political science
5. To understand the comparative study of constitution and govt
6. To understand the importance of right of vote in Indian democracy.

B.A. PERSIAN LITERATURE :

1. Read and write Persian.
2. Translate from Persian to Urdu and vice versa.
3. Awareness of medieval period's history of Persian Literature .
4. Understand and analysis of classical and modern text.

D) P.G.

M.A. MUSIC :

1. The Student will be able to create own Musical composition.
2. The Student will be able to learn to apply the basics of Staff Notation System.
3. The Student will be able to demonstrate various Layakaris.

M.A. SOCIOLOGY :

1. students know about fundamental and advanced methodology in social research on various social issues.
2. A - It enriches students with knowledge on various health related issues in society. It helps to understand social background of various diseases and remedial measures.
3. It provides advanced knowledge on various urban social structures and it helps to resolve various problems in urban society.

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M.A. MARATHI :

At the end of the programme, the students:

- 1) gain insight into cultural background of Marathi Literature.
- 2) come to know about different aspects behind the literature such as social, cultural, economical, historical etc. and understand that literature is an integral part of the culture.
- 3) build the ability to understand and analyze literature during the ancient and medieval age.
- 4) get the knowledge of basic principles of literature and nature of literature.
- 5) come to know the factors such as intuition, imagination and images, language, real experience of life etc. behind the literary work, purpose of literature and impact of the literature.
- 6) get acquainted regarding various forms of literature.

M.A. ENGLISH

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- 2) get the knowledge of basic principles of literature and nature of literature.
- 3) come to know the factors such as intuition, imagination and images, language, real experience of life etc. behind the literary work, purpose of literature and impact of the literature.
- 4) get acquainted regarding various forms of literature.
- 5) To get the knowledge of various theories of literature in detail.

M.Sc. ZOOLOGY :

Animal Structure and Function (Non-Chordata):

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

1. Find out the taxonomic characters of the different animals and apply for forming the zoological names of the animals in biosystematics.
2. Classify invertebrates by using different methods and can develop different cladogram and phylogram
3. Compare different systems in all phyla of nonchordates and compare it with evolutionary significance of it. They know about the transition occurred with time scale. They can explain digestive, respiratory, circulatory, excretory, reproductive and nervous system from Protozoa to Hemichordata.

4. find out distinguished mechanism of the different system function and the change in their mode of function if any throughout the invertebrate series
5. Identify various larval forms of invertebrates like of Porifera, coelenterate, helminthes, Annelida and Crustacea.

Animal Structure and Function (Chordata):

After learning this course, students would be able to....

1. Describe different types of taxonomic characters and rules and operative principles of International Code of Zoological Nomenclature and designate zoological names.
2. Distinguish the endoskeletal system of Protochordates and Chordates and replacement of the cartilaginous structure by bones.
3. Study different systems throughout the vertebrate series as per their adaptations in different habitat and their successive modifications.
4. Explain structure and functioning of sense organs of mammals.
5. Learn migration avenues of Fishes and Birds, their types, benefits, routes, threats etc.

Gamete Biology:

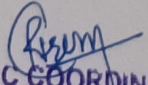
After learning this course, students would be able to....

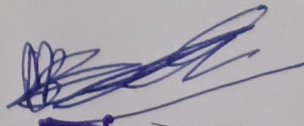
1. Study spermatogenesis and oogenesis in eukaryotes.
2. Determine different events and their mechanisms during fertilization and its consequent changes.
3. Learn assisted reproduction techniques to overcome infertility.
4. Understand Ex vivo and In vivo gene therapy etc.
5. Learn about contraception and methods

Genes and Differentiation:

After learning this course, students would be able to....

1. Describe cell specification and differentiation in whole vertebrate series.
2. Study different body axis formation in Drosophila, Amphibia and Chick etc.
3. Learn about Human Aging and Senescence and factors affecting it.
4. Describe Biology of sex determination. 5. Study stem cells, their properties, types markers and disorders etc


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