

Shankarlal Khandelwal Arts, Science & Commerce  
College, Akola

*Learning outcomes*

PSOs

Program UG

Arts

Commerce

Science

BCA

**Subject**

English  
Marathi  
Sanskrit  
English  
Literature  
Marathi  
Literature  
Sanskrit  
Literature  
Economics  
Political  
History  
Sociology  
Home Economics

**Subject**

English  
Marathi  
CFS  
FSE  
PBM  
BE  
CAT  
MFS  
BMS  
ITA  
ITBBDP  
IWW  
CMM  
CMA  
BRFC  
BE

**Courses/  
Subject**

*Micro Group*  
Chemistry  
Zoology  
Microbiology  
*Computer Group*  
Physics  
Maths  
Computer Science

**Courses/  
Subject**

Computer Science  
DT  
NM  
DCM  
Communication  
Skill  
Electronics  
DBMS  
OST  
VB  
SAD & MIS  
Networking  
Web Designing

Specific Program  
PG

MA -English

M.Sc. -Chemistry



**Learning outcomes of Arts faculty -UG**

**B. A. Compulsory English**

At the end of three year course the student will be able to...

- PSO1. Comfortably comprehend the language.
- PSO2. Have a fair command on LSRW skills in English.
- PSO3. To write grammatically correct and use of different formats like resume, emails, letters, expansion of the idea, creative writing story building, etc.
- PSO4. Acquire good communication skills and will be comfortable in communicating in the language.
- PSO5. Learn to perceive and critically analyze various forms like short story, poetry, essays, etc.

**B. A. English Literature**

At the end of three year course the student will be able to...

- PSO1. Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary texts.
- PSO2. Understand, identify and differentiate between various genres of literature.
- PSO3. Understand and apply various theories of literature, and arts to literary texts.
- PSO4. Develop critical thinking through analyzing various short and long fiction and poetry.
- PSO5. Distinguish and appreciate values and moral practices, preached through the texts.
- PSO6. Read the connotative & denotative meanings of the texts and read between the lines.

**Sanskrit**

- PSO1. An increased ability to read and understand Sanskrit texts.
- PSO2. An increased knowledge and understanding of Sanskrit grammar.
- PSO3. A basic familiarity of the history of Sanskrit literature.
- PSO4. A basic familiarity of Sanskrit culture and religious background.



## Marathi

मराठी विषय विषय

PSO1. मराठी/मराठी वीर्याड; मय घेतलील्यीा विदी यीर्यीा शीदलखवी करु शकतीात.

PSO2. वीावीहीाररक कौशल्यीाची उपयोजवी विमीाण हीोती, जसी

आकाशवीाणीी, दी रचित्कीीावीीी कीायकीा मध्यी सचालवी, साक्षीात्कार, प्रत्य मीलाखतीीची त अवीगत करतीील. विीविीध वीतपत्रीा मध्यी सपादक म्हणीवी काम करु शकतीील.

PSO3. विदी यीर्यी विीविीध ठिकीाणी मीवित शोधवी करु शकतीात.

PSO4. मराठीी विीषय अतगत पदियीतर

अभ्यीासकीावीीीा वी बी. एड, एल एल बीी, एम बी ए वी स्पधीा परीक्षा वरशास पात्र राहतील.

PSO5. विदी यीर्यीामध्यी सजवीीात्मक लीखख, ब्ली ग लीखवी, किवीतीा लीखख, स्तभ लीखवी, लघवीकीा लीखख इत्यादि कौशल्य विकिसत होतील.

PSO6. मराठीचा विीविीध ादी शिक बीोलीीभीाषा सदभीात जीागरीकतीा विमीाण हीोईल.

## Political Science

PSO1. Leadership skills will be developed among students.

PSO2. The ability to analyze politics at local, state, national and international level

PSO3. Will be developed.

PSO4. Students will know the responsibilities of citizenship.

PSO5. Able to study further courses like PG, LLB, MPSC.

PSO6. Will be able to do services in the field of journalism.



## **History**

**PSO1. Understand the basic themes, concepts and scope of world and Indian History**

**PSO2. Eligible for further studies in the field of History and archaeology.**

**PSO3. Student can apply for various types of competitive Examinations(UPSC, MPSC, STAFFSELECTION, ETC)**



## Home Economics

- PSO1. Students will be aware about various fields of Home Economics.
- PSO2. Students will be able to plan their home using principles of housing.
- PSO3. Students will develop positive attitudes towards their family members (Care, Health, Nutrition, Relations, etc.)
- PSO4. Students will be able to apply acquired subject knowledge, inside and outside their homes.
- PSO5. Students will be aware about the techniques of work simplification.
- PSO6. Will be eligible to take admission in PG, B.Ed., Certificate courses, etc.
- PSO7. Will be motivated to create self-employment and household business.
- PSO8. Student will learn various management skills in Resources
- PSO9. Students will be able to make their carrier as an Event manager, Diet planner, Interior designer, Florists, Home industry (food processing like -Masalas, Preservatives, etc.)
- PSO10. Will have knowledge about the suitable procedures for safe handling and use of food.

## Sociology

- PSO1. Student will be well acquainted with the basic concepts of Sociology.
- PSO2. The students will be aware of the conceptual framework of Indian social system.
- PSO3. Students will understand the processes of change and development in various strata of human society.
- PSO4. Student will understand the fundamentals and the emerging issues of social Problems, social welfare & security from the sociological perspective.
- PSO5. Students will develop understanding to find the reasons behind the social problems through their sociological research projects.
- PSO6. Student will develop insight for socio-economic development as well as social justice and modernization.
- PSO7. Student will gain knowledge of key concepts of evolution of human society all over

## Economics

- PSO1. Students will understand and demonstrate core micro-economic and macro-economic terms, concepts and theories.
- PSO2. Students will be able to exhibit the ability to provide alternative solutions to problems.
- PSO3. Students will be able to analyze the market trends and key concepts of budget.



## Learning outcomes of Commerce -UG

### Commerce

On successful completion of this course, the students are acquire the Knowledge for practical applications of Accounting, Income Tax, Auditing, Business Statistics and Cost & Management Accounting.

**PSO1.** Students are able to understand what is accounting, basic concepts related to the subjects, accounting of individuals, co-operative societies accounting, accounting of non-trading concerns.

**PSO2.** Students are eligible for taking admissions in Professional Courses or to take higher education or diploma courses. Such as- M.B.A., M. Phil, M.Com, LLB, Financial Analyst, DTL.

**PSO3.** Students will gain and demonstrate knowledge of macroeconomic theory as it relates to current macroeconomics policy and issue.

**PSO4.** Students will gain and demonstrate knowledge of commerce theory as it relates to markets, firms and government policy and resource allocation.

**PSO5.** Students acquire knowledge of key concepts underlying quantitative decision analysis.

**PSO6.** Students are able to apply basic Mathematical and Statistical Skills necessary for analyzing problems in Economics, Accounting, Marketing, Management and Finance.



## Learning Outcomes of Science (UG)

### Learning Outcomes of Zoology

- PSO1. Students will be able to explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system.
- PSO2. Students gain knowledge and skill in the fundamentals of animal sciences, understand the complex interactions among various living organisms.
- PSO3. Analyze complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.
- PSO4. Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- PSO5. Understands the complex evolutionary processes and behavior of animals.
- PSO6. Correlates the physiological processes of animals and relationship of organ systems.
- PSO7. Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.
- PSO8. Gain knowledge of Agro based Small Scale industries like sericulture, fish farming, butterfly farming and vermin compost preparation.
- PSO9. Understands about various concepts of genetics and its importance in human health.
- PSO10. Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.
- PSO11. Apply the knowledge and understanding of Zoology to one's own life and work.
- PSO12. Develops empathy and love towards the animals.
- PSO13. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.
- PSO14. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine.
- PSO15. Contributes the knowledge for Nation building.



## Learning Outcomes of Microbiology

- PSO1. Students are able to cultivate bacteria and fungi
- PSO2. Students can use different instruments of Microbiology
- PSO3. Students are accustomed with general Microbiological techniques
- PSO4. Students are well aware of application and scope of Microbiology in Medical Agriculture and industrial sector
- PSO5. Student have basic knowledge of r-DNA, Biotechnology and Immunology

## Learning Outcomes of Chemistry

Students after graduation with B.Sc. degree in Chemistry:

- PSO1. Have firm foundations in the fundamentals and application of basic Chemistry theories.
- PSO2. Are able to design, carry out, record and analyze the results of chemical experiments.
- PSO3. Are able to use modern instrumentation and classical techniques, to design experiments, and to properly record the results of their experiments.
- PSO4. Are able to understand the concepts used in chemical industries.
- PSO5. Are able in problems solving, critical thinking and analytical reasoning.
- PSO6. Are able to identify and solve chemical problems and explore new areas of research.
- PSO7. Are able to use modern library searching and retrieval methods to obtain information about a topic, chemical technique, or an issue relating to chemistry.
- PSO8. Knows the proper procedures and regulations for safe handling and use of chemicals.
- PSO9. Are able to communicate the results of their work to chemists and non-chemists.
- PSO10. Become eligible for employment in related industrial and government sectors.

## Learning Outcomes of Mathematics

- PSO1. Students are able to apply their Mathematical knowledge to solve Problems.
- PSO2. Develop Mathematical thinking
- PSO3. Can go for M.Sc. in Mathematics
- PSO4. Can appear for Competitive Examination.





### **Learning Outcomes of Physics**

- PSO1. Have firm foundations in the fundamentals and application of basic science theories.**
- PSO2. Are able to design, carry out, record and analyze the results of science experiments.**
- PSO3. Are able to use modern instrumentation and classical techniques, to design experiments, and to properly record the results of their experiments.**
- PSO4. Are able to understand the concepts used in science based industries.**
- PSO5. Are able in problems solving, critical thinking and analytical reasoning.**
- PSO6. Are able to identify and solve scientific problems and explore new areas of research.**
- PSO7. Are able to use modern library searching and retrieval methods to obtain information about a topic, technique, or an issue relating to science.**
- PSO8. Become eligible for employment in related industrial and government sectors.**

### **Learning Outcomes of Computer Science**

Students will be able to-

- PSO1. Analyze complex computing problems and apply principles of computing and other relevant disciplines to identify solutions to handle and develop projects.**
- PSO2. Design, implement, and evaluate computing-based solution to meet a given set of computing requirements.**
- PSO3. Communicate effectively.**
- PSO4. Students can join for further education like M.Sc. in Computer Science, M.C.A. (Master in Computer Application), M.B.A., MPSC, UPSC, and Banking and acquire Jobs in Government Sectors as well as in private organizations.**
- PSO5. Students can explore computer science job opportunities like networking, hardware technician at a corporation or in the community.**



## **Learning Outcomes of Bachelor of Computer Application**

**PSO1. Students will gain basic and advanced knowledge about computers and IT techniques.**

**PSO2. Students will have hands on expertise in 'C' programming, introduction about DBMS, data modules, visual basics and computer graphics.**

**PSO3. Will be able to analyze relational database and benefits of database.**

**PSO4. Will have good knowledge of core JAVA, Network Security and web designing.**

**PSO5. Will have various Self-employment opportunities like Computer instructor at Navodaya School, Military schools or can have his/her own computer institution where they can run Govt. certification courses like MS-CIT, Tally, C++ programming, etc.**

## **Learning Outcomes of Add on Course in Zoology (Aquarium Setup and Maintenance 30 hours add on course)**

**PSO1. Students are able to set home, outdoor & public aquarium**

**PSO2. Students are able to manage the home as well as public (commercial) aquariums**

**PSO3. Students will learn to handle different aquarium tools accessories**

**PSO4. Students will gain knowledge about how to set internal structure of aquarium attractively.**

**PSO5. Students will get acquainted with Breeding of Aquarium Fishes.**

**PSO6. Students will learn to determine species of fishes and plant**

**PSO1. Students will identify common health problems of fish, and plants in an aquarium.**

**PSO7. Students will gain knowledge about techniques of ornamental fish breeding, rearing and its marketing to make them self-sustainable after completing Add-on Course Aquarium Setup and Maintenance.**



## **Learning Outcomes of Master in Science (Computer Science)**

**PSO1. The outcome of the semester is to prepare student for basic knowledge of digital system networking and operating system.**

**PSO2. Build several numbers of web applications for various environments and platforms**

**PSO3. Ability to design develops a project using programing language.**

**PSO4. Practical knowledge of project development.**

**PSO5. An ability to design and develop Client server based application(remote application) and handling of server database.**