



YASHAWANT SHIKSHAN SANSTHA'S
Miraj Mahavidyalaya Miraj
Course Outcomes:
Science Faculty 2022-23



YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj

Department of Physics

M. Sc. Part-I Course Outcomes

Quantum Mechanics-I

1. Students are able to understand fundamental concept and formalism of quantum mechanics.
2. Students are able to understand and solve the problems related to one-dimensional problems and Schrödinger equation for NET-SET exam.
3. Students are able to understand and able to calculate Eigenvalues and Eigenstates of angular momentum.
4. Students are able to analyses Ket and Bra spaces and inner products.

Condensed Matter Physics

1. Students are able to understand electron and neutron diffraction methods.
2. Students are able to understand types of crystal defects.
3. Students are able to understand theory of diamagnetism.
4. Students are able to understand fundamental dielectric and magnetic properties of the material.

Classical Mechanics

1. Students are able to understand electron and neutron diffraction methods.
2. Students are able to understand and solve the problems related to Kepler's laws.
3. Students are able to understand fundamental special relativity in classical mechanics.
4. Students are able to understand variation principle and Hamiltonian formulation.

Mathematical Methods of Physics

1. Students are able to understand and calculate matrix Algebra and Eigenvalue problems.
2. Students are able to understand complex variables like complex numbers, complex algebra etc.
3. Students are able to understand calculus of Residues Residues Theorem.
4. Students are able to apply Fourier series analysis to solve numerical.

Lab 1

1. Students are able to understand and calculate crystal structure and F.C.C. & B.C.C.
2. Students are able to understand concept of interference from Fabry-Parrot etalon experiment.
3. Students are able to understand Hall Effect and solve problems related to it.
4. Students are able to understand and design experimental setup of heat capacity of material.



YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj
Department of Physics
M. Sc. Part-I Course Outcomes

Lab II

1. Students are able to understand and design circuits of astable and monostable multivibrators.
2. Students are able to understand concept of thermal and electrical conductivity of copper due to seminar.
3. Students are able to understand fundamental of Mathematica and are able to solve various problem using it.
4. Students are able to understand basics phenomenon of amplifier.

Head,
Department of Physics,
Miraj Mahavidyalaya, Miraj



YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj

Department of Physics 2022-23

.....

COURSE OUTCOME

Shivaji University, Kolhapur B.Sc. Part-I Physics Syllabus (NEP-2020) with effect from August, 2022

Semester-I Course Outcome DSC A1 Mechanics-I

- ♣ Students are able to understand and identify scalar and vector physical quantities in mechanics
- ♣ Students are able to understand and apply vector algebraic methods to elementary exercises in mechanics
- ♣ Students are able to understand and identify degree and order of given differential equations
- ♣ Students are able to solve second order, homogenous ordinary differential equations in mechanics
- ♣ Students are able to understand the conceptual evolution of conservation laws of momentum and energy for both single and system of particles
- ♣ Students are able to understand and apply basic concepts of rotational motion
- ♣ In general, students are capable of correlating above concepts and methods in mechanics to both theoretical and experimental domains revealing analytical as well as numerical skills

DSC A2 Mechanics-II

- ♣ Students are able to understand and apply Newtons Law of Gravitation to celestial objects
- ♣ Students are able to understand geometry of planetary orbits under the action of central force
- ♣ Students are able to solve numerical problems based on Kepler's Laws of planetary motion
- ♣ Students are able to understand simple concepts like weightlessness, Geosynchronous satellite and GPS
- ♣ Students are able to setup differential equation for simple harmonic motion and its allied cases
- ♣ Students are able to calculate time averages of KE, PE and TE
- ♣ Students are able to revise basic concepts such as stress, strain and elastic constants of elasticity
- ♣ Students are able to derive elastic constants for beam supported at both ends and at one end
- ♣ Students are able to derive elastic constant (η) of a wire under torsional oscillations (Searle's Method)
- ♣ Students are able to explain the phenomenon of surface tension on the basis of molecular forces
- ♣ Students are able to derive the relation between surface tension and excess pressure



YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj

Department of Physics 2022-23

- ♣ Students are able to perform an experiment to determine ST by Jaeger's method
- ♣ Students are able to discuss and state the factors affecting the ST
- ♣ In general, students are capable of correlating above concepts and methods to both theoretical and experimental domains revealing analytical as well as numerical skills

Semester-II

Course Outcome DSC B1 Electricity and Magnetism-I

- ♣ Students are able to understand the physical significance of gradient, divergence and curl
- ♣ Students are able to apply concepts in vector calculus such as gradient, divergence and curl related to vector and scalar fields using Gauss, Stokes and green's theorem
- ♣ Students are able to understand and apply concepts of electrostatic field, potential to point charges, electric dipole and geometrically regular charged bodies
- ♣ Students are able to understand and apply concept of capacitor to isolated conductor, parallel plates, cylindrical and spherical capacitors and allied modifications in it
- ♣ Students are able to understand and apply concept of energy density in electric field
- ♣ Students are capable of applying above concepts to solve numerical exercise in electrostatics

DSC B2 Electricity and Magnetism-II

- ♣ Students are able to understand importance of complex numbers in analysis of AC Circuits containing Inductance(L) Capacitor(C) and Resistance (R) and their various configurations
- ♣ Students are able to define and apply the concepts in AC circuits such as Impedance (Z), reactance (XC and XL), Admittance, Susceptance and Quality Factor (Q)
- ♣ Students are able to understand and design AC bridge: Owen's Bridge
- ♣ Students reveal mastery in basic terminology in network analysis for further studies
- ♣ Students are able to state and apply Network theorems to simple circuits
- ♣ Students are able to understand basic working principle of Ballistic galvanometer
- ♣ Students are able to define constants of ballistic galvanometer
- ♣ In general, students are capable of applying above concepts in network analysis to both theoretical and experimental domains
- ♣ Students are able to understand simple elementary concepts such as magnetization and intensity of magnetization



YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj

Department of Physics 2022-23

-
- ♣ Students are able to state Biot-Savart's law and are capable to apply it to straight, circular wires and solenoid
 - ♣ Students are able to understand concept of magnetic vector potential along with Ampere's circuital law
 - ♣ Students are able to understand the explain the phenomenon of hysteresis in magnetism
 - ♣ Students are able to discriminate different magnetic materials based on their characteristic properties.

**Head,
Department of Physics,
Miraj Mahavidyalaya, Miraj**

Miraj Mahavidyalaya, Miraj

Department of Chemistry

Course Outcome

B.Sc. Part – I

Importance of Chemistry arises so many other disciplines draw on certain chemical principles and concepts. The purpose of chemistry program at college level is to prepare our students for all fields where basic knowledge of chemistry is required in various industries and research institutions. At first year B.Sc. introductory Chemistry will give the student a basic knowledge of all the fundamental principles of Chemistry like atomic structure, periodicity of elements, bonding theories of different molecules, fundamentals of organic chemistry, aromaticity, reactions of aromatic compounds, study of physical properties of liquids, first law of thermodynamics, chemical kinetics and its scope, understanding of basic concepts in electrochemistry. Student will be able to understand the chemical analysis of the compounds in the laboratory. This course is definitely going to prepare the students for various fields of chemistry and it will enable students to join the upper course of chemistry.


Head

HEAD
Department of Chemistry
Miraj Mahavidyalaya, Miraj.

Course Outcomes- B. Sc. I -BOTANY

- CO1.** Students will able to recognize the structure, types and multiplication of viruses.
- CO2.** Students will able to understand the bacterial types, structure and mode reproduction
- CO3.** Students will able to identify the different types of algae and their importance in day today life.
- CO4.** Students will able develop the skills for the production of different type of Biofertilizers,
- CO5.** Students will able to distinguish the prokaryotic and eukaryotic organisms and acquire the knowledge of different plant cell organelles and its role in the plant body.
- CO6.** Students will able to understand the different types of cell division and its phases.
- CO7.** Students will able to handle all types of microscope.
- CO8.** Students will able to develop a skill in the chromatography techniques.
- CO9.** Students will able to identify and classify the different fungi and also realize the economic importance of fungi.
- CO10.** Students will able to identify the lichens on the basis of morphology and to know the medicinal value of the lichens.
- CO11.** Students will be able to recognize the different plant diseases and their management.
- CO12.** Students will able to develops the soft skill technique in the Mushroom Cultivation and realize the commercial status of the mushrooms.
- CO13.** Students will able to identify the bryophytes their importance.
- CO14.** Students will able to recognize the characters and ecological importance of Pteridophytes.
- CO15.** Students will be able to identify, classify the gymnosperms and understand the Economic importance of gymnosperms.



HEAD,
Department of Botany,
MIRAJ MAHAVIDYALAYA, MIRAJ.



Academic Report 2022- 23

B.Sc. Programme outcome

- 1) To make the students knowledgeable with respect to the subject and its practicable applicability.
- 2) To promote understanding of basic and advanced concepts in microbiology.
- 3) To expose the students to various emerging areas of Microbiology.
- 4) To prepare students for further studies helping in their bright career in the subject
- 5) To expose the students to different processes used in industries and in research field
- 6) To develop their ability to apply the knowledge of microbiology in day to day life.
- 7) To prepare the students to accept the challenges in life sciences.
- 8) To develop skills required in various industries, research labs and in the field of human health.



HEAD,
Department of Microbiology,
Miraj Mahavidyalaya, Miraj.

Yashwant Shikshan Sanstha's
Miraj Mahavidyalaya, Miraj

Department of Computer Science

2022-23

Course Outcome of B.Sc. – I (Comp. Sci.) NEP-2020 CBCS

Sem.-I

➤ *Upon successful completion of the course students will able to:*

1. Demonstrate a familiarity of computer programming language concepts.
2. Understand to develop C programs on Linux platform.
3. Apply C programming control structures for problem solving.
4. Understand working and implementation of arrays.
5. Describe the basic concepts of DBMS and various databases used in real applications.
6. Demonstrate the principles behind systematic database design approaches.

Sem.-II

➤ *Upon successful completion of the course students will able to:*

1. Understand the concept and importance of pointers in C language.
2. Demonstrate an understanding of functions in problem solving.
3. Understand working of structure and dynamic memory allocation.
4. Apply file handling techniques using C language.
5. Understand the importance and working of database.
6. Demonstrate an understanding of the relational data model.
7. Understand the concept of normalization and apply such knowledge to the normalization of a database.
8. Apply SQL queries for database management.


HEAD
Computer Department
Miraj Mahavidyalaya, Miraj.

Department of Zoology

Program Name – B.Sc. I

Course Name/ paper	Course Outcome 2022 - 2023 By the end of each of the following course, the students will be able to:
Paper I Animal Diversity-I Cell Biology and evolutionary biology Animal Diversity and insect vector Genetics	CO 1: Identify and characters of Nonchordates with describe different systems. CO 2: Describe cell organelles with their structure and function CO 3: Understand origin evolutionary theories. CO 4: Model and predict population change and stability CO 5: Identify and characters of chordate study of systems and organs of Rat CO 6: Create awareness to human society through study of insect vector CO 7: Recite Mendel's laws inheritance CO 8: Study of monohybrid dihybrid multiple alleles linkage crossing over mutation sex linked inheritance
Practical	PSO 1: Identify non chordate animal classify them up to order with example. PSO 2: Determine different blood groups, hemin crystal PSO 3: Analyze evolutionary parameter. PSO 4: Identify structure and function of cellular organelle PSO 5: Understand basic of human genetics and heredity PSO 6: Create awareness to human through study of insect vector

(Signature)

HEAD

Department Of Zoology
MIRAJ MAHAVIDYALAYA MIRAJ

Yashwant Shikshan Sanstha's
MIRAJ MAHAVIDYALAYA, MIRAJ.

DEPARTMENT OF MATHEMATICS

COURSE LEARNING OUTCOMES (2022-2023)

B. Sc. Part – I Semester – I DSC –A5 – MATHEMATICS – I (CALCULUS)

Upon successful completion of the course students will able to;

1. Evaluate the limit and examine the continuity of a function at a point.
2. Understand the consequences of mean value theorems for differentiable functions.
3. Apply Leibnitz theorem to obtain higher derivatives of product of two differentiable functions.

B. Sc. Part – I Semester – I DSC –A6 – MATHEMATICS – II (DIFFERENTIAL EQUATIONS)

Students will able to;

1. Understand applications of differential equation.
2. Understand types of differential equation.
3. Solve different types of ordinary differential equations.

B. Sc. Part – I Semester –II DSC– B5 –MATHEMATICS – III (MULTIVARIABLE CALCULUS)

Students will able to;

1. Learn conceptual variations while advancing from one variable to several Variables in calculus.
2. Set up and solve optimization problems involving several variables.
3. Learn the concept of Jacobian of a transformation.

B. Sc. Part – I Semester – II DSC – B6 – MATHEMATICS – IV (BASIC ALGEBRA)

Students will acquire knowledge of;

1. Use fundamental concepts in Mathematics like set, relations and functions.
2. Use fundamental concepts in Number theory.
3. Solve examples on congruence.
4. Determine n^{th} roots of unity.
5. Understand various properties of hyperbolic functions.

**B. Sc. Part – II Semester – III DSC–C5– MATHEMATICS –V
(ELEMENTS OF DIFFERENTIAL EQUATIONS)**

The students will acquire knowledge of;

1. Identify types of higher order ordinary differential equations.
2. Solve different types of higher order ordinary differential equations.
3. Understand geometrical interpretation of simultaneous and total differential equations.

B. Sc. Part – II Semester – III DSE – C6 – MATHEMATICS –VI (NUMERICAL METHODS)

The students will acquire knowledge of;

1. Find numerical solutions of algebraic, transcendental and system of linear Equation.
2. Learn about various interpolating methods to find numerical solutions.
3. Find numerical solutions of integration and ODE by using various methods.
4. Apply various numerical methods in real problems

B. Sc. Part – II Semester – IV DSE – D5 – MATHEMATICS –VII (VECTOR CALCULUS)

The students will acquire knowledge of;

1. Understand and evaluate the concepts of gradient, divergence and curl of point functions in terms of Cartesian co-ordinate system.
2. Understand and evaluate different types of line, surface & volume integrals and the two integral transformation theorems of Gauss and Stokes.

B. Sc. Part – II Semester – IV DSE – D6 – MATHEMATICS –VIII (INTEGRAL CALCULUS)

The students will acquire knowledge of

1. Understand special functions.
2. Apply special functions in applications.
3. Apply multiple integrals in real life problems.



S. S. Kokate.

Department of Mathematics.



Yashwantrao Chavan Pratishthan's

MIRAJ MAHAVIDYALAYA, MIRAJ

Department of Statistics

Course Outcome

B. Sc. Part – I Semester – I DSC –7A – STATISTICS – I (DESCRIPTIVE STATISTICS):

The students will acquire knowledge of

- Meaning and scope of Statistics, various statistical organizations
- Data and types of data, various data presenting methods,
- Population, sample and various methods of sampling,
- Various measures of central tendencies and dispersion, v. moments, skewness and kurtosis.

B. Sc. Part – I Semester – I DSC –8A – STATISTICS – II (ELEMENTARY PROBABILITY THEORY)

Students will be able to;

- Distinguish between random and non-random experiments
- Acquire knowledge of concepts of probability
- Use the basic probability rules, including additive and multiplicative laws
- Understand concept of conditional probability and independence of events.
- Understand concept of univariate random variable and its probability distributions
- Acquire knowledge of mathematical expectation of univariate random variable

B. Sc. Part – I Semester – II DSC –7B – STATISTICS – III (DESCRIPTIVE STATISTICS – II)

Students will acquire knowledge of;

- Correlation coefficient and interpret its value.
- Regression coefficients, interpret its value and use in regression analysis.
- Qualitative data including concept of independence and association between two attributes
- Vital statistics and concept of mortality and fertility and growth rates.

B. Sc. Part – I Semester – II DSC –8B – STATISTICS – IV (DISCRETE PROBABILITY DISTRIBUTIONS)

Student will be able to acquire knowledge of;

- Bivariate discrete distributions, independence of bivariate r.v.s., Mathematical expectation of bivariate discrete random variable.
- One point distribution, two point distribution, Bernoulli distribution,



॥ज्ञानम् परम् दैवतम्॥

YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj

Course Outcomes:

Arts Faculty 2022-23



YASHAWANT SHIKSHAN SANSTHA'S
MIRAJ MAHAVIDYALAYA MIRAJ
Department of English

M.A. Part I (English)

Academic year 2023-2024 NEP New Syllabus Course Outcomes

- 1) The students remember and recall various aspects of major literary works and linguistic concepts.
- 2) The students understand various theoretical approaches to literature and language.
- 3) The students analyse literary works and linguistic issues by applying various theoretical approaches.
- 4) The students evaluate and compare literary works.
- 5) Students develop creative competence with the help of research projects.
- 6) Students understand and criticise the major trends, movement, schools of literature in English across the globe like Indian, British, American, European, Australian, and Canadian, African, and Caribbean literatures.
- 7) Students distinguish among various schools of linguistics and applied linguistics.
- 8) Students understand research practices in language and literature.
- 9) Students apply, analyse and evaluate society and culture with the help of various critical and cultural theories.
10. Students distinguish between various registers and styles.
11. Students practise peer/Micro teaching.


HEAD
DEPARTMENT OF ENGLISH
Miraj Mahavidyalaya, Miraj.
Department of English



YASHAWANT SHIKSHAN SANSTHA'S
Miraj Mahavidyalaya Miraj
Department of Marathi
2022-23

Course Outcomes

- 1.To develop interest in Marathi language and literature.
2. Some writers and poets of Marathi literature were introduced
- 3.To create awareness about National integration, mother tongue, national unity and human values.
- 4.Prepared students for various exams and competitive exams and hence develop achieve their personality development .
5. Developed language skills by essay writing.


HEAD
DEPARTMENT OF MARATHI
Miraj Mahavidyalaya, Miraj.

YASHWANT SHIKSHAN SANSTHA'S
MIRAJ MAHAVIDYALAYA, MIRAJ
Department of Hindi

उद्देश्य

1. हिन्दी भाषा तथा साहित्य की विकास यात्रा से अवगत कराना।
2. छात्रों में साहित्य समझने तथा उसकी आस्वादन, मूल्यांकन करने की दृष्टि को बढ़ाना।
3. छात्रों को विभिन्न साहित्यिक विधाओं के विकास क्रम से परिचित कराना।
4. छात्रों को हिन्दी के प्रमुख संत, कवि, रचनाकार और उनकी रचनाएँ अदि द्वारा समाजसुधार, उनके योगदान से परिचित करना।
5. हिन्दी साहित्य के अंतर्गत गद्य, -पद्य विधा और उसके भेदों, उपभेदों से अवगत कराना।
6. छात्रों में मानव संवेदनाओं, स्वतंत्रता, समता, वैज्ञानिक सोच, राष्ट्रीय प्रेम आदि मूल्य-विकास से अवगत कराना।



HEAD
DEPARTMENT OF HINDI
MIRAJ MAHAVIDYALAYA, MIRAJ.

B.A. Part I (Discipline Specific Core) (DSC- A3) (English Paper –I)
(Semester – II)
Modern Indian Writing in English Translation
(CBCS with MEME in accordance with NEP)
Detailed Syllabus

Course Objectives:

- Students are able to acquaint students with translated Modern Indian literature in English.
- Students are able to get introduced students to short story as a form of literature with reference to the texts prescribed.
- Students are able to develop literary competence among students.


HEAD
DEPARTMENT OF ENGLISH
Miraj Mahavidyalaya, Miraj.

Yashwant Shikshan Sanstha's
Miraj Mahavidyalay ,Miraj
Department of Ardhamagadhi

2022-2023

Course Outcomes "Optional(75222)- Paiyraynmala"

LESSON :

- CO1) Intensive behavior is not good that can give us painful life .
- CO2) Religion is an important aspect in human life .
- CO3) Intelligence can give success in life .
- CO4)If we live longer time in relatives or friends house, that can be insulted or humiliated by their family member .
- CO5) Give respect to ethics than the caste .

POEM :

- CO1) Importance of Prakrit poem.
- CO2) Due to transaction we get knowledge.
- CO3) Righteous was knowledge is most powerful knowledge then other knowledge.
- CO4) Greed and temptation destroy all the things.
- CO5) Religion is importance in human life .

Grammar :

- CO1) Common introduction of Prakrit language.
- CO2) Contribution of 'Jain Granth' and the development of Prakrit language with the help of Empires .
- CO3) Study of vowel and consonants , coalescence.
- CO4)Introduction of Prakrit Writers.
- CO5)Study of Tense, Pronoun, Sentence, etc

Handwritten signature
(DR. R.T. Pali)

POLITICAL SCIENCE

B.A.Part I

Course Outcomes:

CO – 1 Acquire domain Knowledge

CO – 2 Understand importance of Political Science

CO – 3 Understand sub disciplines of Political Science

CO – 4 Understand Concept of State and Democracy

CO – 5 Understand Key Concepts of Political Science

CO-6- The students will get knowledge about making and philosophy of Indian Constitution

CO-7- The students will become aware about Fundamental Rights

CO-8- The students will become aware about Directive Principles and Fundamental Duties

CO-9- The students will understand about working of Legislature, Executive and Judiciary

CO-10- The students will understand about working and role of Judiciary.



Dr. Varmila M. Chavan

Yashwant Shikshan Sanstha's
Miraj Mahavidyalaya, Miraj
Department of Economics

B. A. I Economics: 2022-23

**Course Outcomes of
B. A. I Economics (NEP-2020)**

- **Sem.- I. Indian Economy-1 Paper-I Subject Code:75230 DSE-B-3**

Course Outcome: After completion of the course students will able to-

1. Acquaint with Structure of the Indian economy and changes taking place therein.
2. Understand population Problem of Indian Economy and make aware the society about disadvantages and its remedies.
3. Understand the challenges before the Indian economy.
4. Formulate the strategy for economic development.

- **Sem.- II. Indian Economy-2 Paper-II Subject Code:75276 DSE-B-17**

Course Outcomes: After completion of the course students will able to-

1. Acquaint with the policies and performance of major sectors in Indian Economy.
2. Understand the nature, scope, challenges and opportunities of economic reforms i.e. 1991 onwards.
3. Understand the causes of agrarian distress and its remedies.
4. Understand policy reforms regarding the industry, service sector, international trade, foreign capital inflows etc.


R.D. Jeyaraj

SHIVAJI UNIVERSITY, KOLHAPUR

Miraj Mahavidyalaya, Miraj.

Department of History

Course Outcomes

B. A. - I

Semester - I Paper I : Rise of the Maratha Power (1600-1707)

Semester - II Paper II – Polity, Society and Economy Under the Maratha (1600-1707)

1. The course is intended to introduce the students to the history of the rise of Maratha power with main emphasis on life and work of Chhatrapati Shivaji Maharaj.
2. The students learn how to interpret historical events, incidents , personalities.
3. Understanding the sacrifices made by Maratha leaders and people to protect freedom and sovereignty of the region.
4. The course is intended to introduce the students to the Polity, Society and Economy Under the Maratha.
5. Acquaint the students with the political, socio-economic and religious life of the people during the 1600-1707 period.
6. Understanding the fundamental changes in the political, socio-economic and cultural life of the people made by Chhatrapati Shivaji Maharaj.
7. The course provide competitive atmosphere for the students.


Heard
Department of History

Yashwant Shikshan Sanstha's
Miraj Mahavidyalaya, Miraj.
Department of Geography

Outcomes

B.A./ B.Sc. Part-1 Sem I Paper No. 1 (DSC B10) Physical Geography

Course Outcomes (POs):

- Students will have comprehensive knowledge in the discipline of Geography.
- To know the methods of representation of relief along with other cartographic techniques.

B.A./ B.Sc. Part-1 Sem II Paper No. 2 (DSC B24) Human Geography

Course Outcomes (POs):

- To identify various Natural Resources for human.
- To understand the socio-economic structure of the population.


Prof. (Dr.) S. B. Gaikwad
Professor & Head (UG & PG)
Research Guide
Department of Geography
Miraj Mahavidyalaya, Miraj.

YashwantShikshanSanstha's
MirajMahavidyalaya, Miraj
Department of Psychology
2022-2023
Course Outcome

B.A.I [Sem-I] Paper No- I Understanding Psychology

- 1.To acquaint students with basic concepts of Psychology .
- 2.To make students aware with neuroscience and behavior .
- 3.To make students aware with motivation , various approaches of motivation and human needs .
- 4.To understand emotions , range and the roots of emotions .

B.A.I [Sem-II] Paper No- II Basic Principles of Psychology

- 1.To make the students aware with learning , classical conditioning and operant conditioning .
2. To makes the students familiar with foundations of memory .
3. To understand personality , various approaches , and assessment techniques of personality .
4. To make students aware with intelligence , theories of intelligence , Emotional intelligence , mental retardation and intellectually gifted .



Head

Department of Psychology

Subject outcomes of SOCIOLOGY

PAPER – I - Introduction to Sociology

- The student learns to apply to sociological perspective in understanding how society shapes our individual lives.
- It's also provides a foundation for the other more detailed and specialized course in sociology.
- The student learns how to read and interpret complex ideas and texts and to present them in a cogent manner.

PAPER –II – PRINCIPLES OF SOCIOLOGY

- The course is intended to introduce the student to a sociological way of thinking.
- Its also provides a foundation for the other more detailed and specialized course in sociology.
- The course provide competitive atmosphere for the student.

Guarav m. m.

B.COM (NEP-2020) COURSE OUTCOMES



SEM I & II

1. Financial Accounting Paper-I (87962) DSE-1

After completing this course, students will be able:

1. To get an idea about the basic of accounting, accounting concepts and conventions and accounting process.
2. To acquaint with skill of recording transactions related to amalgamation of partnership firm.
3. To apply skills of accounting for consignment transactions.
4. To make use of knowledge and skill for accounting of professionals.

2. Micro Economics Paper I (87963) DSC-3

1. The student should understand consumer's behavior in various situations and theory of demand and supply.
2. The student should be able to apply tools of consumer behavior and firm/production theory to business situation.

3. Management Functions and Application-Paper-I (87964) DSC-2

After completing this course, students will be able:

1. To get an idea about the basic managerial process and planning works in real life
2. To develop decision making skills to evaluate various alternatives and situations.

3. To acquaint with the knowledge of organizing various resources.
4. To understand the concepts of authority and process of delegation of authority.
5. To understand importance of proper direction and to develop their communication skill.

4. Principles of Marketing Paper-I (87965) GEC-AA1

1. The students will know various marketing concepts, basics of marketing and he or she will be able to assess consumer behavior.
2. The students will understand rural market, consumers and he or she will also enlighten about various recent trends and development in marketing.

5. Insurance Paper-I (87973) GEC-BB1

1. To enable the students to know the fundamentals of Insurance.
2. To give exposure to the students about life insurance products, Procedural part and life insurance business in India.

6. Business Communication Paper-I (87976) AECC-C1

(English for Business Communication)

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language and business competence of the students.



• SEM II

1. Micro Economics Paper II (87977) DSC-6

1. The student should be able to apply tools of seller's behavior according to market situations and market theory to business situation.
2. The student should understand theory of distribution. i.e. rent, interest, wages and profit and able to apply in practical life.

2. Financial Accounting Paper-II (87978) DSE-4

After completing this course, students will be able:

4. To acquaint with skill of recording transactions related to single entry system.
5. To apply skills of accounting for conversion of partnership firm in to limited company.
6. To make use of knowledge and skill for accounting of branches.
7. To understand the knowledge about computerized accounting.

3. Management Functions and Application-Paper-II (87979) DSC-5

After completing this course, students will be able:

1. To get an idea about motivation concept and theories.



2. To develop their leadership skill
3. To understand and utilize techniques of coordination and control
4. To understand various emerging issues in management like green management and to understand concept of Change.

4. Principles of Marketing Paper-II (87980) GEC-AA2

1. The students will be aware with process of new product development and product life cycle in detail and they will be prepared with various skills about branding, labeling and advertisement.
2. The students will know about management of retailing operations and changing scenario of retail business in India.

5. Insurance Paper-II (87988) GEC-BB2

1. To enables the students to know the fundamentals of General Insurance.
2. To give exposure to the students about general insurance, procedural part, general insurance business and FDI in insurance in India.

6. Business Communication Paper-II (87991) AECC-C2 **(English for Business Communication)**

1. To get acquaint with the types of business correspondence.
2. To understand how to communicate on telephone.
3. To know about the specific purpose of English Language
4. To improve language competence of the students.


PRINCIPAL,
MIRAJ MAHAVIDYALAYA, MIRAJ.



॥ज्ञानम् परम् दैवतम्॥

YASHAWANT SHIKSHAN SANSTHA'S

Miraj Mahavidyalaya Miraj
Course Outcomes:
Computer Science Faculty
2022-23

Yashwant Shikshan Sanstha's
Miraj Mahavidyalaya, Miraj
Department of Computer Science
B.C.A. (NEP) 2022-23
Course Outcome - Sem I

- 1) **CourseCode:CC101 – Fundamentals of Computer**
Course Outcomes- a) Describe peripheral devices and number systems.
- 2) **Course Code -CC 102 - Introduction to Programming using 'C'**
Course Outcomes- a) Able to implement the algorithms and draw flow charts for solving Mathematical problem.
- 3) **Course Code:ACE103- Principles of Management**
CourseOutcomes-a) Understand the influence of historical forces on current practice of
- 4) **Course Code: ACE104- Business Communication**
Course Outcomes-a) Communicate in English in written as well as oral mode
- 5) **Course Code:AEC105- Office Automation**
Course Outcomes-a) Understand the components of office automation
- 6) **CourseCode:LabCourse–I Based on CC102 &CCL106**
Course Outcomes-a) Understand and trace the execution of programs written in C language.
- 7) **Course Code:CCL 107- LabCourse-II Based onAEC105**
Course Outcomes-a) Use internet and internet tools.

Course Outcome - Sem II

- 1) **CourseCode:CC201- DBMS**
Course Outcomes- a) Describe the basic concepts of DBMS and various databases used in real applications
- 2) **CourseCode:CC202- Operating System**
Course Outcomes- a) Possess knowledge of Operating Systems and their types.
- 3) **Course code:CC203- Web Technology I**
CourseOutcomes-a) Understand basics of website and web development lifecycle.
- 4) **Course Code:AEC204- Financial Accounting with Tally**
Course Outcomes- Use basic accounting terminology, procedures and systems of maintaining accounting record.
- 5) **CourseCode:AEC205- Mathematical Foundations For Computer Applications**
Basic knowledge of set theory, functions and relations concepts, matrix needed for designing and solving problems.
- 6) **CourseCode:CCL206- LabCourse-II Based on CC201 and AEC204**
Course Outcomes-a) Use MS-Access DBMS and design database
- 7) **Course Code: CCL 207- LabCourse-IV Based on CC203**
Course Outcomes- a) Understand Web Design Concept


HEAD
Computer Department
Miraj Mahavidyalaya, Miraj.

Miraj Mahvidyalya Miraj

COURSE OUTCOMES

ARTS (B.A Course Outcome)

Marathi

- 1) Marathi language studies about Language and Literature.
- 2) Sociological study is done in Marathi Literature.
- 3) To develop linguistic skill by studying Medieval literature.
- 4) To create Literature consciousness in new generation.
- 5) By studying Marathi literature students understand Social culture.
- 6) .Understanding origin ,nature and function of language.

Hindi

- 1)It broadens the outlook of the students and raises in them a sense of confidence and responsibility.
- 2)It makes them understand the society better and them ready to fulfil their duties and responsibilities toward the society in a good way.
- 3)It improves their creative writing abilities toward writing in Hindi to enable them to contribute towards Indian literature.
- 4)It helps to train them to serve adequately in the fields of journalism and media writing .
- 5)To develop in students creative writing abilities about poems, phrases , essay writing,etc.

English

- 1.To develop competence for literary appreciation among students.
- 2.Enhancement of language and improve communication skills in English amongst students.
- 3.To acquaint students with British literature, Indian writing in English, American, African, Australian English literature.
- 4.To promote critical insight among students.
5. To Introduce basic concepts of theories in linguistics.
- 6.To develop moral values, aesthetic perception, creative sensibilities among students by introducing different forms of literature.
- 7.To make students capable for interviews and other skills for their future career.

HISTORY

- 1.To develop historical consciousness and curiosity in Students.
- 2.To preserve the culture of India and moral values and to nourish for better life.
- 3.To preserve National unity and integrity.
- 4.To develop respect towards National Personalities.
- 5.Effort towards preserving historical monuments.
- 6.To cultivate students and inspire them for social service, knowledge and better life.
- 7.To develop an interest in the subject History among students.

GEOGRAPHY

- 1) Student should be able to understand in-depth about the Evolution of Geographical Thought.
- 2) Students should be able to analyse the recent trends in geography.
- 3) To general employability skills among the Geography Students.
- 4) Student should be able to make use of various models of paradigms and debates in the geographical studies.
- 5) To create awareness among the students about the regional and national environmental issues.
- 6) To create awareness among the students about recent trends and advanced technology in the field of Geography.

PSYCHOLOGY

- 1.To describe human behaviour,
- 2.To explain human behaviour.
- 3.To predict human behavior about how we think and act.
- 4.To bring transformation in human behavior.
- 5.To control human behavior.
- 6.To improve leadership skill.
- 7.To make them better communicator.
- 8.To help them understand others.
- 9.Develop ability to take decisions.
10. Application of Psychological principles in practical life.

POLITICAL SCIENCE

- 1.To focus on Human nature and the most moral purpose of Political theory seeks to ultimately deepen Political thinking and to encourage students to responsible and creative Political Science.

2. Political Science is a discipline of Humanities wherein you learn

a) ancient and contemporary political thought

b) history of evolution of political theory

c) fundamentals of politics, that is, the various institutions and instruments that form the foundation of political structure

3. Political Science also serves as a base for other professional degrees in fields of domestic and international law, government, education, politics, policy, and business.

4. For the equality of Men and Women, Gender gap is studied.

5. Political science helps to become responsible citizens and politician.

6. To study the constitution of various Nations.

SOCIOLOGY

1. To develop sense of understanding in sociological way.

2. To introduce Sociology to students.

3. To introduce Basic concept in Sociology to students.

4. To create Social awareness.

5. To make social approach towards social problems.

6. To develop sense of national integration and Nationalism among students.

7. To acquaint students with social problem.

ECONOMICS

1. To make students aware about understanding nature and problems of Indian economy as a mixed economy and developing economy.

2. To make students aware about sectoral position of Indian economy - Primary, Secondary and Tertiary

3. To enable students think over demographic profile of India and propagate the objectives of national

population policy.

4. To make students aware about nature and impact of New Economic Reforms on Indian Economy implemented since 1991.

5. To enable students evaluate the impact of New Policy Reforms (LPG Policy) on various sectors on India.

6. To give knowledge of Indian Economy for the preparation of Competitive Examinations such as UPSC, MPSC and other examinations.

ARDHAMAGADHI

- 1.To impart knowledge of Ardhamagadhi language and literature to students and enrich their Interest in the same to make them globally competent.
- 2.To create importance of Ardhamagadhi among rural students.
- 3.To develop communication skills in Ardhamagadhi among students for better soft skills.
- 4.To develop personality of students through curricular, co-curricular and extra- curricular activities.

ENVIRONMENTAL STUDIES

- 1)Understand the role and responsibilities of Human Being towards the environment and environment related issues.
 - 2) Understand the environmental problems of industrial sector with sound knowledge of environment, health and safety
 - 3) Learn and understand various environmental aspects for sustainable development of living beings.
 - 4) Get an insight into wild life habitat, biodiversity conservation programme, environmental monitoring, etc.
 - 5) learn various Environment awareness programs for the ecosystems.
 - 6) Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
 - 7)Demonstrate proficiency in quantitative methods, qualitative analysis, critical thinking, and written and oral communication needed to conduct high-level work as interdisciplinary scholars .
- I.D.S.(Interdisciplinary Subject)In I.D.S. there are three subjects those arePublic Administration , Logic , Ancient Indian History and Culture

Public Administration

- 1 Develop the conceptual foundation requisites for success in public administration careers
- 2 Establish the ability to function effectively in complex culturally diverse organizational structure.
- 3 It is very useful for the competitive Examinations

Logic:-

- 1 Due to the study of Logic students also focus on Mathematical concept, science and computation.
- 2 Students get a strong foundation about computation , math and statistics.

Ancient Indian History and Culture

- 1 Analyze historical processes that shape individual and communities drawing on detailed knowledge about the history of area under study.
- 2 Understand the diversity of the Human experience as influenced by geographical location ,race , ethnicity , cultural traditions, gender and class.

SCIENCE (B.Sc Course Outcome)

PHYSICS

- 1.Read ,understand and interpret Physical verbal ,Mathematical ,graphical information.
- 2.Create awareness among the students in methodology related Physics.
- 3.To impart need based education in Physics at the undergraduate level.
- 4.To offer interdisciplinary approach Physics.
- 5.Demonstrate skills and competencies to conduct Physics related experiments.

CHEMISTRY

- 1To understand the importance of the Periodic table of the Elements ,how it came and its role in organizing chemical information.
- 2.To understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines in a wide variety of chemical problems.
3. To learn the Laboratory skills needed to design ,safely conduct and interpret chemical research.
- 4.To acquire a foundation of chemistry of sufficient breadth and depth to enable them to understand and critically interpret the primary chemical literature.
- 5.To develop the ability to effectively communicate scientific information and research results in written and oral formats in Chemistry.
- 6.To provide students with the skills required for chemical industry and Pharmaceutical Industries

BOTANY

- 1.To provide knowledge about various plant groups from primitive to highly evolved.
- 2.To make the students aware of application of different plants in various industries.
- 3.To train the students with skills related to laboratory as well as field based studies.
- 4.To make the students aware about conservation and sustainable use of plants.
- 5.To create foundation for further in Botany.
- 6.To address the Socio-economical challenges related to plants science.

7.To facilities students for taking up and shaping a successful career in Botany.

MICROBIOLOGY

1.To create an inspiration in the learner regarding about different branches of Microbiology.

2.To introduce the innovative and prospective technology programme for scholar in the view of Microbial Skills.

3.To assign and acknowledge the Microbiology scholars for new experimental generation globally.

4.To develop the potential of applied Microbiology in Learners to sustain the Human and Social living.

5.To commence the Microbial ideas in Learners for Environmental Protection.

6.To initiate and make proper Microbial remedies for solving number of new arriving Problems on Earth.

7.To implement and relocate the Microbial knowledge in daily human activities.

COMPUTER SCIENCE

1.To introduce the basic knowledge of computers among students.

2.To introduce the computer software and hardware to the students.

3.To develop the skills in handling of application software to the students.

4To enable the students to get a basic and proper knowledge in the field of Computer Science

BACHLOR OF COMPUTER APPLICATION(B.C.A.)

1. The main objective of the course is to develop different software development skills in the students.

2. To incorporate scientific methods, tools and research methodologies.

3. To expose latest technologies to meet the technical challenges.

4. To design and develop the software models.

5. To include versatile subjects on entrepreneurship and business Management.

MATHEMATICS

1.To enjoy mathematics and develop patience and persistence when solving problems.

- 2.To understand and be able to use the language symbols and notation of Mathematics.
- 3.To develop the knowledge skills and attitude necessary to pursue further studies in Mathematics.
- 4.To develop abstract logical and critical thinking and the ability to reflect critically upon their work and the work of others.
- 5.To develop critical appreciation of the use of information and communication technology in Mathematics.

STATISTICS

- 1.Motivate in students an intrinsic interest in statistical thinking.
- 2.Instill belief that Statistics is important for scientific research.
- 3.Provide a foundation and motivation for exposure to statistical ideas subsequent to the course.
- 4.Demonstrate the ability to apply fundamental concept in exploratory data analysis.
- 5.Demonstrate an understanding of the basic concept of probability and random variable.
- 6.Understand the concept of the sampling distribution of a statistic, and in particular describe the behavior of the sample mean.
- 7.Apply inferential methods relating to the means of Normal distributions.
- 8.Demonstrate an appreciation of one way analysis of variance.

ZOOLOGY

- 1.To impart the knowledge of animal science to the pupils.
- 2.To make the pupil to use the knowledge in their daily life.
- 3.To make the pupil aware of natural resources and environment .
- 4.To provide practical experience which form a part of their learning processes.
- 5.To develop interest in the subject and scientific hobbies.

COMMERCE

- 1.To inculcate the habit of speaking ,reading and writing English among students.
- 2.To enable the students to apply pure economic theories in the practical Business.
- 3.To enable the students to know the fundamental insurance.
- 4.To impart basic accounting knowledge as applicable to business.
- 5.To remove the awkwardness and enhance confidence of speaking English .
- 6.To provide essential knowledge of Budget and Tax system in India.
- 7.To develop the skills of entrepreneurial culture among the youth by providing the theoretical inputs

and the process of growth and development.

8.To provide basic knowledge of statistical techniques as applicable to business.

9.To develop an ability to apply modern quantitative tools to data analysis in a business context.

10.The main goal of the subject is to help students to develop computational skills and problem solving

capabilities.

11.To acquaint the students fully with changing role of financial institution in the process of growth and development .

12.To provide basic knowledge of Monetary and Fiscal policy of India.

COURSE OUTCOME OF M.Sc. MICROBIOLOGY

1. This is a two year M. Sc. program covering all general aspects of Microbiology.

2. It helps in developing competent Microbiologists who can progress to diverse fields of microbiological interests in various fields of industries, research, teaching, medical science and entrepreneurship.

3. The course is aimed at adding to the knowledge base of Microbiology graduates through significant inputs of latest information on the subject.

4. It also envisages that the students read original research publications and develop the ability of critical evaluation of the study.

5. Development of communication skills as well as laboratory work and team work, creativity, planning and execution are also a major objective of this program.

6. In the core courses, the students study the basics of Microbiology along with the basics of subjects allied to and useful in Microbiology (Techniques, Biostatistics, Computer handling and Bioinformatics, Scientific writing and Pharmaceutical).

7. The specializations include topics on various fields of Industrial Microbiology, Waste Management Technology, Extremophiles, Recombinant DNA Technology and Pharmaceutical Microbiology.

8. During this program students undertake a Research Project/ Industrial Training in Semester IV in which the student is expected to study research methodology through experimental work, literature survey and report writing following the IMRAD (Introduction, Aims and objectives, Materials and Methods, Results and Discussion) system.

9. In Industrial Training, the student is to take training in the Industry for a period of at

least three weeks which will help student to study Microbiological aspects in the Industry.

10. Educational tour to various institutes and or industries provides actual microbiological applications in various fields of Microbiology.

COURSE OUTCOMES OF M.A /M.Sc GEOGRAPHY

- 1.To inculcate the fundamental knowledge of geography and develop research attitude among the students
- 2.To develop the ability of making comprehensive analysis interpret spatial problems , suggest proper solutions by using theoretical ,methodological and instrumental knowledge of geography
3. To general employability skills among the Geography students
- 4.To guide students about proper utilization of natural resources through geographical knowledge
- 5.To create awareness among the students about the regional and national environmental issues
- 6.to create awareness among the students about recent Trend and advanced technology in the field of Geography