

KATRUWAR ARTS, RATANLAL
KABRA SCIENCE & B.R. MANTRI
COMMERCE COLLEGE, MANWATH
- 431 505 DIST. PARBHANI (M.S.)



कत्रुवार कला, रतनलाल काबरा विज्ञान व
बी. आर. मंत्री वाणिज्य महाविद्यालय,
मानवत जि. परभणी – ४३१५०५.

BEST COLLEGE AWARD 2010

Re-Accredited with 'B' grade by NAAC

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

Prin. : (02451) 240535, Office : 240087, Fax : 240535, Resi.: 240547 e-mail : principalkkmcm@gmail.com

Dr. B. S. Munde
PRINCIPAL

INTERNAL QUALITY ASSURANCE CELL

Criterion II – Teaching-Learning and Evaluation

2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

**Course Outcomes (COs) for all
Programmes offered by the institution
[2018-19 to 2022-23]**

2.6.2.	<i>Attainment of Programme outcomes and course outcomes are evaluated by the institution.</i>
Q1M	<p data-bbox="352 398 1366 465">Describe the method of measuring the level of attainment of POs , PSOs and COs in not more than 500</p> <p data-bbox="443 506 1433 645">The college aims at holistic development of students. It has been continuously working on the attainments of the outcomes. It focuses to produce very confident learners with sound knowledge, skills, attitudes and values.</p> <p data-bbox="443 651 1433 1039">The college evaluates the attainment of program outcomes, program specific outcomes and course outcomes by conventional as well as non-conventional means. In the conventional or the direct system, the results of the university examinations are analyzed course wise by the departments and reported to the Principal, CDC and Governing Council. The knowledge and skills are evaluated through continuous internal evaluation with the help of tests, seminars, home assignments, etc. Course outcomes are measured through the performance of the students in the class, practical, internal evaluations and external evaluations. The attainment of outcomes is evaluated by the college on the success rate of the students and their progression to higher education.</p> <p data-bbox="443 1046 1433 1397">In addition, departments also try to assess them by some other means. For example, departments assess the outcomes at the time of practical examinations and their research work. The language teachers measure the attainment or acquisition of certain skills by creative / academic writing for annual magazine, participation and success in literary /cultural programs and performance in competitions like elocution debate, essay writing in our college as well as other colleges and also in youth festivals. The outcomes are also evaluated by the projects undertaken by the students, research activities carried out at other colleges and research centres.</p> <p data-bbox="443 1404 1433 1756">As a result of this continuous and constant mentoring, many students score good scores, distinctions. Apart from this, many of our students participated and won prizes in Madhava Mathematics Competition. Our students also won medals in cultural and sports events. Community-oriented services, such as awareness rallies, cleanliness campaigns, old age home visits and Special NSS Camp enable the students to think out of the box and be creative, constructive and inculcate the values of ethics and develop community service attitude among the students. The performance of students within and outside the college in different events provides enhancing index of their learning-levels.</p> <p data-bbox="443 1796 1433 1906">In this way, we follow formal as well as informal mechanism for the measurement of attainment of the outcomes. The feedback from all the stakeholders is collected and steps are taken as per their suggestions.</p>

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Dr. B. S. Munde
PRINCIPAL
02454-220001

DEPARTMENT OF POLITICAL SCIENCE

- B A F Y , SEM-I

PROGRAM OUTCOME

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- To study the various Political concepts and Political analysis.
- To study the introductory part of Political concepts and relevant issues.
- To study the Political concepts and its relevant parts.
- To study the basic concepts of Political theories or issues concern with Political ideas.

COURSE OUTCOME

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- B A F Y
- GOVERNMENT AND POLITICS OF MAHARASHTRA Paper – II
 - To Study the various Elements concern with Maharashtra Politics and State Activity
 - To understand different political issues of Maharashtra Politics
 - To understand the Government of Maharashtra State and its organs
 - To understand various Administrative Machineries of Local Government

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DEPARTMENT OF POLITICAL SCIENCE

- B A F Y , SEM-II
- INTRODUCTION OF POLITICAL CONCEPTS Paper - III

PROGRAM OUTCOME

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- To study the various Political concepts and Political analysis.
- To study the introductory part of Political concepts and relevant issues.
- To study the Political concepts and its relevant parts.
- To study the basic concepts of Political theories or issues concern with Political ideas.

COURSE OUTCOME

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- B A F Y

Paper Title : GOVERNMENT AND POLITICS OF MAHARASHTRA Paper - IV

- To Study the various Elements concern with Maharashtra Politics and State Activity
- To understand different political issues of Maharashtra Politics
- To understand the Government of Maharashtra State and its organs
- To understand various Administrative Machineries of Local Government

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DEPARTMENT OF POLITICAL SCIENCE

- B A S Y, SEM-III

INDIAN GOVERNMENT AND POLITICS Paper V

PROGRAM OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

1. To Prepare students for competitive exams like UPSC, MPSC and other Exams
2. To expose the students with basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution and Democracy etc.
3. To introduce the students with the administrative and Political setup and Mechanism with roll and functions.
4. To develop sensitive citizenship among the students.

COURSE OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- B A S Y

INTERNATIONAL RELATIONS Paper VI

1. To Prepare students for competitive exams like UPSC, MPSC and other Exams.
2. To produce students with Key Political concepts like, power diplomacy, propaganda, International Law, UNO National Interest, National Power, Disarmament etc
3. To introduce the basic of International Relations.
4. The Prepare Students ready for different carriers like Political analyst, Politicians, Media, Professionals and Sensitive Citizens.

SEC – Basic Information and Preparation Skills for Competitive Examination – I

1. To eradicate fear of civil services examination.
2. To motivate and prepare for civil services examination and other competitive exams.
3. To help the students to know the basic ideas of civil services recruitment.
4. To study the methods and functions of public service commission.
5. To study the basic responsibility of administrative officers in Indian Democracy.

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- B A S Y, SEM-IV

INDIAN GOVERNMENT AND POLITICS Paper VII

PROGRAM OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

1. To Prepare students for competitive exams like UPSC, MPSC and other Exams
2. To expose the students with basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution and Democracy etc.
3. To introduce the students with the administrative and Political setup and Mechanism with roll and functions.
4. To develop sensitive citizenship among the students

COURSE OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- B A S Y

INTERNATIONAL RELATIONS Paper VIII

1. To Prepare students for competitive exams like UPSC, MPSC and other Exams.
2. To produce students with Key Political concepts like, power diplomacy, propaganda, International Law, UNO National Interest, National Power, Disarmament etc
3. To introduce the basic of International Relations.
4. The Prepare Students ready for different carriers like Political analyst, Politicians, Media, Professionals and Sensitive Citizens.

SEC – Basic Information and Preparation Skills for Competitive Examination – II

1. To eradicate fear of civil services examination.
2. To motivate and prepare for civil services examination and other competitive exams.
3. To help the students to know the basic ideas of civil services recruitment.
4. To study the methods and functions of public service commission.
5. To study the basic responsibility of administrative officers in Indian Democracy.

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- BATY, SEM-V

Paper Title : INDIAN POLITICAL THOUGHT Paper-IX

PROGRAM OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

The main objective to study this paper is to understand key thinker's seminal contribution to the evolution of political theorizing in India.

COURSE OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- BATY

Paper Title : WESTERN POLITICAL THINKER Paper-X

The main purpose of this paper is to acknowledge students with how the great masters explained and analyzed political events and problems of their time and prescribed solutions.

SEC – III - INDIAN PARLIAMENTARY PROCEDURE

The main purpose of this course is to encourage learner for absorbing the skill to solve issues, problems in their day to day life as parliament do for the sake of save and strength then democracy.

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- B A T Y , SEM-VI

Paper Title : POLITICAL IDEOLOGY Paper-XI

PROGRAM OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

The main concern of this paper is to introduce variant stands elaborates in various political ideologies about individual, state and society and its dialectics.

COURSE OUTCOME:

Students Who Have taken admission to this programmed of BA are expected to concentrate upon the following outcomes.

- B A T Y

Paper Title : MODERN POLITICAL ANALYSIS Paper-XII

This course main aim to acquaint to student about new concept in political science as like political Leadership, study of various approaches of human behavior in politics.

SEC – IV - INDIAN DEMOCRACY & GOOD GOVERNANCE

An intention of this paper is to understand origin, development and challenges before Good Governance in India.

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Course Syllabus Objectives & Intended Outcomes

**Title of the Course : (Ability Enhancement Compulsory Course): English
Communication
B.A. / B.Com. / B.Sc. First Year (Semesters I & II)**

Objectives:

- 1) To enable the learners to communicate in English through close reading of select literary texts.
- 2) To develop the skills of speaking, listening, reading, writing, viewing and representing by conducting classroom activities prescribed in the curriculum.
- 3) To enable the learners to make the use of English language for shaping and making meaning according to purpose, audience and the context.
- 4) To train the learners think in ways that are imaginative, creative, interpretive and critical.
- 5) To help the learners to acquire ways of expressing themselves and their relationships with others and their world.
- 6) To induce the learners for reflecting on their learning through their study of English.

Intended Outcomes:

- 1) Through responding to and composing a wide range of texts, the learners will begin to use the English language in the best possible manner.
- 2) Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
- 3) Learners will value and appreciate the importance of the English language as a key to learning.
- 4) Students will gain personal enrichment from study of literary pieces in English.
- 5) Learners will acquire ability to communicate through oral and written texts.

Title of the Course: (Ability Enhancement Compulsory Course): English Communication

B.A. / B.Com. / B.Sc. Second Year (Semesters III & IV)

Objectives:

- 1) To enhance the ability of the learners to communicate in English through close reading of select literary texts.
- 2) To develop the skills of speaking, listening, reading, writing, viewing and representing by conducting classroom activities prescribed in the curriculum.
- 3) To make the learners capable in the use of English language for the purpose of meaningful communication.
- 4) To impart the creative, interpretive and critical skills through close reading and exercises in the prescribed text.
- 5) To refine the linguistic competence of the learners through lessons in essential grammar.
- 6) To carry out a training of using the English language for media and electronic communication.

Intended Outcomes:

- 1) The learners will be able to use the English language in a refined way for the personal and social purposes.
- 2) The students will attain a higher level of understanding and skills in order to carry out communicative activities.
- 3) Students will be able to make practical use of the mechanics of the English language.
- 4) Learners will be acquiring the skill of using English for media and electronic communication.
- 5) The ability to communicate and interpret written texts shall be augmented.

BA. . First Year Optional English Syllabus

Title of the Course: Paper 1: Understanding Prose Fiction Semester I

Objectives:

- 1) To introduce the learners to the basics of Prose Fiction in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of selected novels and short stories.
- 3) To acquaint the learners with the art of fiction writing in English.

Intended Outcomes:

- 1) Students will be able to appreciate the texts in English Prose Fiction genre.
- 2) Through responding to different texts of Prose Fiction, the learners will acquaint themselves with the wide range of expressions in the English language.
- 3) Learners will carry out the tasks of interpretation of novels and short stories by studying the critical analyses of the prescribed texts.

Title of the Course: Paper 2: Understanding Poetry in English

Objectives:

- 1) To introduce the learners to the basics of Poetry in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse poetic texts.
- 3) To acquaint the learners with the art of Poetry writing in English.

Intended Outcomes:

- 1) Learners will be able to appreciate English Poetry with an understanding of diverse poetic forms and themes.
- 2) Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language.
- 3) Learners will carry out the tasks of interpretation of poems by studying the critical analyses of the prescribed texts.

B.A. First Year Optional English

**Title of the Course: Paper 3: Understanding Non-Fictional Prose in English
Semester II**

Objectives:

- 1) To introduce the learners to the basics of Non-fictional prose in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse Non-fictional prose writings.
- 3) To acquaint the learners with the art of Non-fictional prose in English.

Intended Outcome:

- 1) Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages.
- 2) Through responding to different Prose writings learners will be enriched in the use of prose for diverse thematic expressions.
- 3) Students will attain a certain degree of proficiency in the interpretation of English prose.

Title of the Course: Paper 4: Understanding Drama in English

Objectives:

- 1) To introduce the learners to the tradition of drama and the development of dramatic art through ages.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse dramatic texts.
- 3) To acquaint the learners with the art of Drama in English

Intended Outcomes:

- 1) Students will be able to appreciate English Drama with an understanding of various dramatic texts.
- 2) Through responding to different plays learners will be introduced to various types of dramatic experiences.
- 3) Learners will be able to critically analyze texts from different dramatic genres.

B.A. Second Year Optional English Syllabus

Title of the Course: Paper 5: Indian Writing in English Semester III

Objectives:

- 1) To introduce students to Indian Writing in English from Colonial Age up to the contemporary Age, through the study of various literary genres such as poetry, prose, essay and drama.
- 2) To refine the skills of critical thinking and rhetoric through thought-provoking personal response writing, essay writing and research assignments.
- 3) To equip students with the knowledge and skills to read and comprehend texts in Indian Writing in English.

Intended Outcomes:

- 1) Learners will be able to appreciate the texts in Indian Writing in English.
- 2) Through responding to different texts of Indian Writing in English the learners will acquaint themselves with the wide range of expressions in the Indian English language.
- 3) Students will gain knowledge to carry out the tasks of literary interpretation by studying the critical analyses of the prescribed texts.

Title of the Course: Paper 6: American Literature

Objectives:

- 1) To address the works of several major writers from the American literary tradition.
- 2) To introduce the landmarks in American literature in various literary genres.
- 3) To impart an in depth understanding of writings with dominant debates of the period like religious, social, philosophical, political, and aesthetic aspects of American Literary tradition.

Intended Outcomes:

- 1) Learners will gain an overall insight of the American literature, and understand the background, historical context, the importance of American literature and its role in the society.
- 2) Students will identify, explicate, and respond to key themes and elements in American literature in various literary genres.
- 3) Students will be enabled to review and recognize the body of literary works from America and will be able to understand the American spirit as well as to analyze various literary innovations and their culture.

B.A. Second Year Optional English Syllabus

Title of the Course: Paper 7: Indian Literature in English Translation

Semester IV

Objectives:

- 1) To introduce the students to the magnificent Indian literary tradition through exposition to some representative works available in English translation.
- 2) To acquaint the students with the rich heritage of Indian regional literatures and their significance.
- 3) To induce the students to explore in depth the Indian spirit as evident from the diverse genres.

Intended Outcomes:

- 1) The students will acquire an introductory knowledge of Indian literary heritage.
- 2) The students will be familiarized with the significant socio-cultural issues in India through close reading of literary texts from diverse regions.
- 3) The learners will realize the intellectual potential available from the Indian literary texts from various Indian languages.

Title of the Course: Paper 8: Women's Literature

Objectives:

- 1) To introduce students to Women's Writing, through the study of various literary genres written by women of different nationalities such as poetry, prose, essay and drama.
- 2) To equip students with the knowledge and skills to read and comprehend texts written by women.
- 3) To enable the students for identifying and describing distinct literary characteristics of women's literature.

Intended Outcomes:

- 1) Students will be able to critically analyze the structure and meaning of various literary works written by women authors.
- 2) The learners will acquire knowledge of the major concerns of women through a reading of the representative works from different nations.
- 3) Students will be acquainted with the richness and depth of the female experience as depicted through their literary representations.

B.A. Second Year Skill Enhancement Course in English Syllabus Title of the Course: Skills for Employability - I & I Semester III & IV

Objectives:

- 1) To provide sound knowledge and training of Employability Skills to learners.
- 2) To expose learners to a variety of self-instructional, learner-friendly modes of communication for improving their employability.
- 3) To expose learners to a variety of sub-skills in order to hone their skills as required in the present job market.
- 4) To develop a work culture among learners for upcoming job opportunities.

Intended Outcomes:

- 1) Learners will be able to meet the requirements of the 21st century learners.
- 2) Learners will acquire the skill to build vocabulary comprising spelling and pronunciation in English.
- 3) Learners will be enabled to develop dialogues for conversation skills.
- 4) Students will develop activities for written communication.
- 5) Students will be able to develop strategies for professional skills and soft skills.
- 6) Students will acquire employability skills in a systematic way.

B.A. Third Year Skill Enhancement Course in English Syllabus Title of the Course: Life Skills - I & I Semester V & VI

Objectives:

- 1) To assist the learners for a smooth transition from student life into the world of work.
- 2) To develop the skills necessary for understanding oneself and the sociocultural group.
- 3) To help the learners choose the best ways of utilizing their time, efforts and mental energies.
- 4) To provide training in skills required to find, understand, evaluate, create, and communicate digital information in a wide variety of formats.
- 5) To make the learners able to use diverse technologies appropriately and effectively to retrieve information, interpret results, and judge the quality of that information.

Intended Outcomes:

- 1) Learners will develop personal and social skills.
- 2) Students will acquire gender awareness.
- 3) Students will be able to develop skills for individual and group activities.
- 4) Learners will be prepared for a smooth entry in to the world of work.
- 5) Self-awareness and social awareness will be developed.
- 6) Learners will get acquainted with the skills necessary for digital lifestyle.

B.A. Third Year Optional English Syllabus

Title of the Course: Literary Criticism - I

Course/Paper Code: DSE- ENG- I (Paper9) Semester V

Objectives:

- 1) To introduce the concept and significance of Literary Criticism in Literary Studies.
- 2) To acquaint the learners to the Classical and Renaissance tradition of Western Literary Criticism.
- 3) To familiarize the learners with the major contributions of select critics.

Intended Outcomes:

- 1) Learners will be able to understand the historical background of the canon of Western Literary Criticism.
- 2) Learners will appreciate the various theories developed during the Classical times and European Renaissance.
- 3) Learners will be sensitized to the foundations of different critical traditions.

Title of the Course: Modern English Structures: Understanding English Phonology Course / Paper Code: GE - ENG - I (Paper 10)

Objectives:

- 1) To introduce the learners to the study of the physical aspects of speech.
- 2) To impart training in the transcription of the sounds of the English Language as per the International Phonetic Alphabet (IPA).
- 3) To familiarize the learners with the articulatory, acoustic and perceptual phonetics.

Intended Outcomes:

- 1) The learners will be able to perceive, and transcribe the sounds of the English language, while learning the acoustic and articulatory properties.
- 2) The learners will gain practical skills of transcribing data in the International Phonetic Alphabet (IPA).
- 3) The ability of synthesizing speech will be acquired.

**B.A. Third Year Optional English Syllabus Title of the Course: Literary Criticism
- I**

Course /Paper Code: DSE - ENG- I (Paper 11) Semester VI

Objectives:

- 1) To impart the knowledge of significant propositions propounded by major English Literary critics.
- 2) To acquaint the learners with the foundation for the development of critical schools in English Studies after the Renaissance.
- 3) To enable the learners for undertaking practical criticism.

Intended Outcomes:

- 1) Learners will understand the basic principles of Literary Criticism as revealed from the study of the individual critics.
- 2) Learners will perceive the development of English Literary Criticism through the ages.
- 3) An ability to appreciate literary text through the practice of actual critical analysis will be gained.

**Title of the Course: Modern English Structures: Understanding English
Grammar Course/Paper Code: GE- ENG- I (Paper12)**

Objectives:

- 1) To develop a good understanding of modern English grammar.
- 2) To enable the learners to produce grammatically and idiomatically correct language.
- 3) To impart the knowledge of the theory and practice in the field of English grammar at contemporary times.

Intended Outcomes:

- 1) The learners will be able to have an appreciable understanding of English grammar.
- 2) The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse.
- 3) The learners will acquire the skill of locating language errors and ambiguities.

Title of the Course: (Ability Enhancement Compulsory Course): English Communication
B.A. / B.Com. / B.Sc. First Year & Second Year (Semesters I, II, III & IV)

Objectives:

- 1) To enhance the ability of the learners to communicate in English through close reading of select literary texts.
- 2) To develop the skills of speaking, listening, reading, writing, viewing and representing by conducting classroom activities prescribed in the curriculum.
- 3) To make the learners capable in the use of English language for the purpose of meaningful communication.
- 4) To enable the learners to make the use of English language for shaping and making meaning according to purpose, audience and the context.
- 5) To impart the creative, interpretive and critical skills through close reading and exercises in the prescribed text.
- 6) To train the learners think in ways that are imaginative, creative, interpretive and critical.
- 7) To help the learners to acquire ways of expressing themselves and their relationships with others and their world.
- 8) To induce the learners for reflecting on their learning through their study of English.
- 9) To refine the linguistic competence of the learners through lessons in essential grammar.
- 10) To carry out a training of using the English language for media and electronic communication.

Intended Outcomes:

- 1) The learners will be able to use English language in a refined way for the personal and social purposes.
- 2) The learners will begin to use English language in the best possible manner through responding to and composing a wide range of prescribed texts.
- 3) Through the close study of texts, students will develop knowledge, understand skills in order to communicate effectively in English.
- 4) The students will attain a higher level of understanding and skills in order to carry out communicative activities.
- 5) Learners will value and appreciate the importance of English language as a key to learning.
- 6) Students will be able to make practical use of the mechanics of the English language.
- 7) Students will gain personal enrichment from study of literary pieces in English.
- 8) Learners will acquire ability to communicate through oral and written texts.
- 9) The ability to communicate and interpret written texts shall be augmented.

B.A. Skill Enhancement Course in English Syllabus

Objectives:

- 1) To provide sound knowledge and training of Employability Skills to learners.
- 2) To expose learners to a variety of self-instructional, learner-friendly modes of communication for improving their employability.
- 3) To expose learners to a variety of sub-skills in order to hone their skills as required in the present job market.
- 4) To develop a work culture among learners for upcoming job opportunities.
- 5) To assist the learners for a smooth transition from student life into the world of work.
- 6) To develop the skills necessary for understanding oneself and the sociocultural group.
- 7) To help the learners choose the best ways of utilizing their time, efforts and mental energies.
- 8) To provide training in skills required to find, understand, evaluate, create, and communicate digital information in a wide variety of formats.
- 9) To make the learners able to use diverse technologies appropriately and effectively to retrieve information, interpret results, and judge the quality of that information.

Intended Outcomes:

- 1) Learners will be able to meet the requirements of the 21st century learners.
- 2) Learners will acquire the skill to build vocabulary comprising spelling and pronunciation in English.
- 3) Learners will be enabled to develop dialogues for conversation skills.
- 4) Students will develop activities for written communication.
- 5) Students will be able to develop strategies for professional skills and soft skills.
- 6) Students will acquire employability skills in a systematic way.
- 7) Learners will develop personal and social skills.
- 8) Students will acquire gender awareness.
- 9) Students will be able to develop skills for individual and group activities.
- 10) Learners will be prepared for a smooth entry into the world of work.
- 11) Self-awareness and social awareness will be developed.
- 12) Learners will get acquainted with the skills necessary for digital lifestyle.

B.A. Optional English Syllabus

Objectives:

- 1) To introduce the learners to the basics of Prose Fiction, Poetry, Non-fictional Prose, Drama, Indian Writing, American literature, Women's literature, in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of selected novels, short stories, poetic texts, non-fictional prose writings, dramatic texts, Indian writings & American literature.
- 3) To acquaint the learners with the art of fiction writing, poetry writing, non-fictional prose writing, diverse dramatic writing in English.
- 4) To refine the skills of critical thinking and rhetoric through thought-provoking personal response writing, essay writing and research assignments.
- 5) To equip students with the knowledge and skills to read and comprehend texts in Indian writing in English, American literature & Women's literature in English.
- 6) To introduce the students to the magnificent Indian literary tradition through exposition to some representative works available in English translation.
- 7) To acquaint the students with the rich heritage of Indian regional literatures and their significance.
- 8) To introduce the concept and significance of Literary Criticism in Literary Studies.
- 9) To acquaint the learners with the foundation for the development of critical schools in English Studies after the Renaissance.
- 10) To introduce the prominent literary theories to the learners & enable them for undertaking practical criticism.
- 11) To acquaint the learners with the English speech sounds, syllable and its structure.
- 12) To impart training in the transcription of the sounds of the English Language as per the International Phonetic Alphabet (IPA).
- 13) To familiarize the learners with the articulatory, acoustic and perceptual phonetics.
- 14) The learners will acquire the skill of locating language errors and ambiguities in English sentences.
- 15) The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse.

B.A. Optional English Syllabus

Intended Outcomes:

- 1) Students will be able to appreciate the texts in various English genres like Prose Fiction, Poetry, Non-fictional Prose, Drama, Indian Writing in English & American Literature with an understanding of diverse literary forms and themes as developed through ages.
- 2) The students will acquire an introductory knowledge of Indian literary heritage & various literary works written by women authors.
- 3) Students will develop a critical ability to judge literary texts & analyze literary texts according to the rules of prosody.
- 4) Students will be able to understand the system of speech with English sounds & the logics and practices in the field of English grammar.
- 5) Through responding to different texts of various English genres like Prose Fiction, Poetry, Non-fictional Prose, Drama, Indian Writing in English & American Literature, the learners will acquaint themselves with the wide range of expressions in the English language.
- 6) Learners will gain an overall insight of English literature and understand the background, historical context, the importance of English literature and its role in the society.
- 7) The students will be familiarized with the significant socio-cultural issues in India through close reading of literary texts from diverse regions.
- 8) Learners will carry out the tasks of interpretation of novels, short stories, prose fiction, poetry, non-fictional prose, drama, Indian writing in English & American literature by studying the critical analyses of the prescribed texts.
- 9) Learners will be able to critically analyze texts from different English literary genres.
- 10) Learners will be able to understand the historical background of the canon of Western Literary Criticism.
- 11) Learners will appreciate the various theories developed during the Classical times and European Renaissance.
- 12) The learners will be able to perceive, and transcribe the sounds of the English language, while learning the acoustic and articulatory properties.
- 13) The learners will gain practical skills of transcribing data in the International Phonetic Alphabet (IPA).
- 14) An ability to appreciate literary text through the practice of actual critical analysis will be gained.
- 15) Students will get the notion of grammatical correctness in practical usage.

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Department of Physics

Course Outcome

B. Sc. FY Subject: Physics

Paper I: Mechanics and Properties of Matter

Learning objectives:

1. The objective of this course is to introduce the students to the world of mechanics and properties of the matter.
2. To introduce Laws of motion and its applications to various systems.

Course Outcome:

1. Student will acquainted with laws of mechanics, concepts of gravitation
2. Student will acquaint with phenomenon like surface tension, Elasticity and Viscosity.

Paper-II: Mathematical Methods in Physics

Learning objectives:

1. This course is aimed to develop knowledge in mathematical physics and its applications.
2. To develop expertise in mathematical methods required in the study of Physics.
3. To develop critical thinking and problem solving skill.

Course Outcome:

1. After completion of this course students will be able to apply the concept of vectors and complex variables to various physical quantities.
2. This course will also enable the students to solve the problems related to partial differentiation.
3. Fourier Analysis unit will enable the students to analyze the periodic functions.

Paper-III: Heat and Thermodynamics

Learning objectives:

1. This course will introduce the students to the world of heat and thermodynamics and the behavior of the physical systems at different thermodynamical conditions.

Outcome of the course:

1. After completing this course students will understand the difference in the behavior of the ideal and real gases, transport phenomenon in gases.
2. Students will also understand the working of various heat engines and the ways to increase their working efficiency.
3. Student will be acquainted with Real gases and their behavior, Transport phenomenon and basics of thermodynamics and thermodynamical relations

Paper-IV: Electricity and Magnetism

Learning objectives:

1. Introduce the students to the concepts of static and dynamical electrical magnetic fields.
2. Introduce the students to the concepts of the sources for generating such fields, polarization and induction effects,
3. To understand the basic difference between the DC and AC circuits and their functioning.

Outcome of the course:

1. This course is of most applied nature and will enable the students to understand the role of electricity in everyday life, relate electrical conduction, evaluate using Ohm's law and will also enable the students to understand the working principles of various electrical components and gadgets.
2. Student will be acquainted with basic principles of magnetism, various laws of magnetism
3. Student will be able to analyze the AC circuits

B.Sc. Physics Second Year

Paper-VI: Waves and Oscillations

Learning objectives:

The objective of this course is to introduce the students to

1. Mechanical waves and their properties.
2. Standing waves, their applications in resonance tubes.
Energy distribution in the standing waves, free and forced vibrations.

3. Acoustics and acoustical designs and also introduces the students to the concepts of ultrasonic waves and their applications.

Outcome of the course:

1. The student will be acquainted with basics of waves, stationary waves and their behavior.
2. The student will be acquainted Free and forced vibrations.
3. The student will be acquainted basics of acoustics and ultrasonic's.
4. Application of acoustics for design of auditorium.

Paper-VII: Statistical Physics, Electromagnetics and Theory of Relativity

Learning objectives:

The objective of this course is,

1. To introduce the students to the concepts of macroscopic world, statistical approaches for understanding properties of the macroscopic bodies, ensembles, their classification on the basis of macroscopic and microscopic basis.
2. To introduce the students to applications to photonic and electronic gases, electromagnetism,
3. To introduce the students to Maxwell's equations and their applications in the electromagnetic waves, energy carried by the EM waves and theory of relativity.

Outcome of the course:

1. Student will be acquainted with statistical concepts and applications of statistics to solve problems in physics
2. Student will be acquainted with electromagnetic theory
3. Student will be acquainted basic concepts of relativity

Paper-VIII: Optics and Lasers

Learning objectives:

This course is aimed to introduce the students to

1. Important core subject optics and its applications.
2. This course begins with the introduction to the concepts of geometrical optics, properties of optical instruments, interference and diffraction of light, polarization of light and finally introduces to the advanced source like LASERS and conditions for the lasing action.
3. This course is the advanced course having applications in nearly all the branches of science.

Outcome of the course:

1. Student will be acquainted with basic principles of geometrical optics
2. Student will be acquainted with phenomenon like interference, diffraction, polarization
3. Student will be acquainted with principles of lasers

Paper-IX: Basic Electronics

Learning Objectives:

1. To understand basic concepts of semiconductors, semiconductor diodes and their characteristics.
2. To know construction, working of transistors and their applications
3. To understand basics and applications of operational amplifiers.
4. To use transistors in different combinations as oscillators for generating sinusoidal waves of different frequencies.

Learning Outcome: After completing this course students will be able to

1. Identify and understand construction and properties of different types of P-N junction diodes
2. Apply knowledge of semiconductor devices to use them in different combinations to see their applications as amplifiers and oscillators
3. Design different circuits using semiconductor devices and demonstrate their usage.

B. Sc. Third Year Physics
Paper-XII: Quantum Mechanics

Learning objectives:

The objective of this course is to introduce the students to

1. To the world of microscopic particles such as molecules, atoms, atomic nuclei and elementary particles, study their dynamics employing wave analogy, and also to make the connections between the rules governing the microscopic particles with that of the macroscopic bodies around us.

Outcome of the course:

1. The student will be acquainted with basics of quantum mechanics
2. He will be able to apply principles of QM to solve problems in physics at the atomic level.

Paper-XIII A: Solid State Physics

Learning Objective:

This course is designed to

1. To provide fundamental knowledge of the crystallography,
2. Learn the principles behind the formation of matter, their structure and physical properties.
3. This course also enables the students to understand the relationship between the internal structure and various properties of matter such as periodicity, structure and bonding in solids, making these solids an attractive material for the device applications.

Outcome of the course:

At the end of this course, students will be able to classify the materials in different classes based on their physical, thermal, electrical, and magnetic properties.

Paper-XIV: Atomic, Molecular & Nuclear Physics

Learning Objectives:

Aim of this course is to introduce the students to

1. The world of physics of atoms, molecules and nuclei, their structures, emission of Gamma rays, X- rays, optical and microwave spectra from these systems,
2. The interaction of atoms and molecules with electric and magnetic fields.
3. This course also provides adequate knowledge on the nuclear energy sources and reactions with its application in establishing nuclear reactors.

Outcome of the course:

1. At the end of the course the student will be acquainted with world of atoms, molecules and nuclei and their structures
2. He will be acquainted with the atomic spectra
3. He will be acquainted with phenomenon like nuclear fission and fusion and applications of these phenomenon .

Paper-XV A: Digital and Communication Electronics

Learning Objectives:

This course enables the students to understand

1. The importance and inter convertibility of various number systems, principles of digital gates, and working principle of communication systems.

Outcome of the course: After completion of the course the student will in a position to to understand the basics principles of digital circuits and working of basic communication system.

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Learning outcomes of B.Sc. Zoology

B.Sc. First Year

PAPER-I: BIODIVERSITY OF INVERTEBRATES

On successful completion of the paper, the students can be able to

1. Identify any invertebrates up to class level.
2. Understand the contribution of Invertebrates in the biodiversity index of any given habitat.
3. Understand and appreciate the ecological and economic importance of invertebrates.
- 4 Identify and describe external morphology and internal anatomical features of representative invertebrate species.

PAPER-II: BIODIVERSITY OF CHORDATES

On successful completion of the paper, the students can be able to 1. Identify and understand the Biodiversity of Chordates.

2. Understand anatomical relation between different vertebrate classes. .3 Understand the economic importance of Chordates

Paper-III: COMPARATIVE ANATOMY OF VERTEBRATES

On successful completion of the paper, the students can be able to

1. Identify and understand comparative anatomical structure of vertebrate organ systems.
2. Understand the evolution of various organs and systems in the vertebrate body according to its environment.
- 3 Understand the plasticity of organ systems to adapt to the environment and acquire different novel forms.

Paper-IV: DEVELOPMENTAL BIOLOGY OF VERTEBRATES

On successful completion of the paper, the students can be able to

1. Explain the basics processes of vertebrate embryonic development.
2. Describe the various steps in vertebrate development.
3. Identify and explain about the different embryonic structures.
4. Describe the functions of different extra-embryonic structures.
5. Understand the Assisted Reproductive Technologies.

B.Sc. Second Year

Paper- VI: PHYSIOLOGY

On successful completion of the paper, the students can be able to

1. Monitor their blood pressure and identify blood groups.
2. Understand function and types of heart & circulatory system.
3. Know the basic function of kidney, main function of nerves.
4. Acquire knowledge on the nature and functions of hormones and learn the mechanism of Hormone action.
5. Learn the structure and functions of Endocrine glands.
6. Understand the structure, development and function of reproductive organs in human.

Paper- VII: BIOCHEMISTRY

On successful completion of the paper, the students can be able to

1. Understand the chemical structure and functions of various biomolecules
2. Learn the signaling of biomolecules in cell membrane.
3. Understand the correlation between metabolisms of different types of biomolecules.

Paper- VIII: CELL BIOLOGY AND GENETICS

On successful completion of the paper, the students can be able to

1. Understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.
2. Understand structures and various cellular functions associated with the macromolecules found in cells.
3. Acquire knowledge of Mendelian Genetics and its Extension.
4. Graduates will be able to explain and interpret various processes, phenomena, states and evolutionary tendencies at a biological system level.

Paper- IX: EVOLUTIONARY BIOLOGY AND GENETIC ENGINEERING

On successful completion of the paper, the students can be able to .1 Understand the theories and concepts of evolution.

2. Learn the process of evolution in animals.

3. Understand the patterns of evolutionary changes in animals.

4. Understand the organization and functions of genetic material in the living world. 5. Understand the Recombinant DNA Technology.

B.Sc. Third Year

Paper-XII -Ecology & Zoo-geography

On successful completion of the paper, the students can be able to

.1 Demonstrate knowledge of biotic and abiotic interactions.

2. Express understanding of environmental issues, and inter-relation between different components of an ecosystems.

3. Elaborate about distribution and abundance of organisms.

4. Apply different experimental techniques to study any ecosystem or its components. 5. Describe the relation between structure and function of species in environment.

6. Display knowledge of natural resources and pollution management techniques.

Paper-XIII (C) Entomology -I

On successful completion of the paper, the students can be able to

1. Knowledge and skill of insect collection, preservation and curation.

2. An understanding of biology and ecology of insects.

3. Ability to describe general entomology and elaborate on taxonomy of insects.

4. Describe the morphology and anatomy of insects.

Paper- XIV-Ethology, Biometry and Bioinformatics

On successful completion of the paper, the students can be able to

1. An appreciate of animal behavior and complexities of ethology.

2. Gain knowledge of basic concepts and techniques of biometry.

3. Gain knowledge and skill to apply the techniques statistical methods in biology.
4. Gain knowledge and understand practical use of computers in bioinformatics.
5. Understand the use of biological databases in research.

Paper- XV(C)-Entomology-II

On successful completion of the paper, the students can be able to

1. Knowledge of the different beneficial and harmful insects.
2. An understanding of insect control methods-cultural, physical, biological, chemical & IPM.
3. Knowledge of types of insecticides and problems associated with their use.
4. Knowledge and skill of application of insecticides & maintaining pest control equipment.
5. An understanding and knowledge of ecology & biology of medically and agriculturally important insects.

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Course outcome 2018-19

B.Sc. F.Y. Botany (semester Ist)

Paper Name and No.: Diversity of Microbes - I

After then successful completion of this course

1. Students will recognize and identified diversity of lower cryptogams.
2. Students will collect and study the samples from different locations of algae, fungi, bacteria and viruses.
3. Students to collect various samples of plant diseases, algae, fungi, etc.
4. Students visited to field and discuss with famers about the problems.
5. Students knows about the economic importance and types of lichens.

Paper Name and No.: Cell and Molecular Biology- II

After then successful completion of this course.

1. Students are able to analyze various types of cells and their functions.
2. Students identified the number of cell organelles .
3. Students are identified chromosomes and their types.
4. Students are recognize cell division in plants.
5. Students made DNA structure model and identified.
6. Students identified the structure and mutation of genes.

B.Sc. F.Y. Botany (semester IInd)

Paper Name and No.: Diversity of cryptogams - III

After then successful completion of this course.

1. Students are identified and recognize various types of algae.
2. Students known about structure and importance of algae.
3. The students are identified various members of Bryophytes and its importance.
4. Students identified to members of pteridophytes and its importance.

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**Dr. B. S. Munde
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Paper Name and No.: Genetics and Plant Breeding - IV

After then successful completion of this course.

1. Students known about the laws of mendels.
2. Students are write on ratios of various genes.
3. Students known about sex linked inheritance in man.
4. Students identify in human syndromes.
5. Students identified various methods of plant breeding and their objectives.
6. Students analyze male sterility and genetic sterility.

Paper Name and No.: Practicle Paper Based on Theory - V

After then successful completion of this course.

1. Students identified various microbes as a practically.
2. Students completed cell division and types practically.
3. Students identified to bryophytes, pteridophytes and algae practically.

B.Sc. Second Year Botany (semester IIIrd)

Paper Name and No.: morphology and taxonomy of angiosperm – VI

After then successful completion of this course.

1. Students are identified to various plants morphology.
2. Students are known about the plants reproductive structures.
3. Students are able and made the various models of ovules.
4. Students are known the differences between various families.
5. Students are recognize economic importance of plants.

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Paper Name and No.: Histology, Anatomy And Embryology Of Angiosperm - VII

After then successful completion of this course.

1. Students are recognize about the histology of plants and their structures.
2. Students are known about the various types of tissues in plants.
3. Students are identified the anatomical structures of plants.
4. Students are identified various types of ovule in plants.
5. Students identified the types of embryos.

B.Sc. Second Year Botany (semester IVth)

Paper Name and No.: Gymnosperm and Paleobotany - VIII

After then successful completion of this course.

1. Gymnospermic plants are rare in position.
2. Students are identified the morphological structures of gymnosperm.
3. Students are identified anatomical structure of gymnosperm.
4. Students are identified various economic importance of plants.
5. Students are recognize types of fossils.
6. Students are recognize living fossils.

Paper Name and No.: Ecology and environmental Biology- IX

After then successful completion of this course.

1. Students are able to analyze various types of ecosystem and they can correlate different ecosystem.
2. Students will analyze types, causes and control measures of different type of pollution.
3. Students can identify types of plants on basis of their habitat. They can identify them on the basis of adaption (Morphological and anatomical adaption) & categories them in to respected plant groups.
4. Students can identify biogeographic regions of India on the basis of flora.

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Paper Name and No.: Practical paper based on theory - X

After then successful completion of this course.

1. Students are identified morphological and anatomical structure of plant practically.
2. To made permanant slide of plants.
3. Students are studied various reproductive parts of gymnosperm.
4. Students are studied to paleobotanical slides.
5. Students collected various samples of plants from different places.

Paper Name and No.: Practical paper based on theory - XI

After then successful completion of this course.

1. Students to made models and charts of tissues.
2. Students studied anatomical features of the plants.
3. Students studied biomass in ecosystem.
4. Students studied ecologiocal adaptation in plants.

SECB – IA and SECB – IIB

After then successful completion of this course.

1. Students studied different types of medicinal plants.
2. Students to made byproducts of plants as a professionally.
3. Students made a syrup from medicinal plants.
4. Students cultured biocontrol as a trichoderma.
5. Students studied to pesticides and fungicides.

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B.Sc. third Year Botany (semester Vth)

Paper Name and No.: Plant Physiology - XII

After then successful completion of this course.

1. Students analyze contain of water and its importance.
2. Students studied different physicochemical processes.
3. Students studied role and deficiency of elements in plants.
4. Students studied growth and development of in plants and hormones.
5. Students studied various biochemical processes in plants.

Paper Name and No.: Plant Pathology- (I) XIII

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

B.Sc. Third Year Botany (Semester VIth)

Paper Name and No.: Plant Metabolism, biochemistry and biotechnology- XIV

After then successful completion of this course.

1. Students gain knowledge about of mechanisms in plants.
2. Students knowledge about of aerobic and anaerobic processes.
3. Students studied to mechanism of enzymes actions in plants.
4. Students professionally made tissue culture and media.

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**कत्रुवार कला, रतनलाल काबरा विज्ञान व
बी. आर. मंत्री वाणिज्य महाविद्यालय,
मानवत जि. परभणी – ४३१५०५.**

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**Dr. B. S. Munde
PRINCIPAL**

Paper Name and No.: Plant Pathology –(II) XV

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

Paper Name and No.: Practical paper – XVI and XVII based on theory

After then successful completion of this course.

1. Students studied to aerobiological spores.
2. Students studied to methods of treatments (seed).
3. Students studied biochemical defense in plants.
4. Students studied to various types of pathogens and plant diseases.
5. Students studied DNA technology.
6. Students gain knowledge about of cloning transgenic plant, gene transfer in plants.
7. Students gain knowledge about the field crops and discuss with farmers.

SECB – IIIA and SECB – IVA

After then successful completion of this course.

1. Students made fruits and vegetables biproducts.
2. Students applied professional technology and operate various machines.
3. Students to made juices, syrups and byproducts professionally.
4. Students made to ready professionally as manufacturing of wine, pickles, paste and toffy.
5. Students studied to flory culture.
6. Students analyze to soils, manures, fertilizers, irrigation techniques.
7. Students apply cultural and chemical plant protections.

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Dr. B. S. Munde
PRINCIPAL

Objectives and Course outcomes

Class:B.Sc. First Year Paper I Differential Calculus

Objectives: A primary objective of the course is to learn elementary knowledge of Differential Calculus

Outcomes: After successful completion of the course student will be able to

1. Understand concept of limit, continuity of single and two variable functions.
2. Find the higher order derivatives of the product of functions.
3. Expand functions in terms of infinite series.
4. Find Equation of Tangent, Normal and Length of Tangent, Normal, Sub-tangent, Sub-normal.
5. Understanding of Mean Value Theorem concepts.
6. Understand the concept of Partial differentiation.
7. Use the results to solve problems.
8. Differentiate difference between derivative of single variable and two variables Understanding concept of Limit, Continuity of Single and two variable

Class: B.Sc. First Year Paper II Algebra and Trigonometry

Objectives: primary objective of the course is to learn elementary knowledge of Matrices, complex numbers, trigonometry.

Outcomes: After successful completion of the course student will be able to

1. Add, Subtract and multiply two Matrices.
Recognize the different types of Matrices.
2. Find the Inverse of invertible Matrices.
3. Determine the Rank of matrix.
4. Transform matrix to Row Echelon form
5. Solve the System of Linear Equations.
6. Find the Characteristic Roots and Characteristic Vectors of a Square Matrix.
7. Check that every square matrix satisfies its own Characteristic Polynomial.

Class: B.Sc. First Year Paper III Integral Calculus

Objectives: The main objective of the course is to study methods of finding Integration of Algebraic Rational Functions, Irrational Algebraic Functions, Transcendental Functions, Study Gamma and Beta Functions, Multiple Integral and Applications of integration to find Area and Volume.

1. **Outcomes:** After successful completion of the course student will be able to Apply method of integration to find the integral of function.
2. Solve examples of definite integrals using Properties of definite integrals.
3. Find the area and volume of given shape.
4. Solve problems on Multiple Integrals
5. Understanding concept of Gamma and Beta Functions.

Class: B.Sc. First Year Paper IV Geometry

Objectives: A primary objective of the course is to learn elementary knowledge of Three Dimensional Geometry.

Outcomes: After successful completion of the course student will be able to

1. Understand concepts on Three Dimensional Geometry.
2. Find equations of Right lines, Planes, Spheres, Cone sand Cylinders.
3. Find the Direction cosines of any line under the different given conditions.
4. Understand the intersection of any two or three, three dimensional geometrical figures.
5. Transform the equation of a plane to the normal form.
6. Transform equation of a line from unsymmetrical form to symmetrical form.
7. Find the length of perpendicular from a point to a plane.
8. Find the angle of intersection of two spheres.
9. Understanding concepts of plane of contact.

Class: B.Sc. First Year Paper V Practical on MATLAB Software

Objectives: The main objective of the course is to study MATLAB, Interactive computation, plotting graphs by using MATLAB Software.

Outcomes: After successful completion of the course student will be able to

1. Verify associativity of matrix addition, left distributive law and right distributive law of matrices.
2. To find determinant, Eigen values, Eigen vectors, inverse, powers and characteristics polynomial of a square matrix.
3. To draw the graph of different functions with the help of MATLAB software and related freeware software.

Class: B.Sc. Second Year Paper VI Real Analysis I

Objectives: A primary objective of the course is to learn elementary knowledge, Properties of sets, Real sequences, Infinite series, and Comparison test for series.

Outcomes: After successful completion of the course student will be able to

1. Understanding the basic concept of sets and their properties. .
2. A point, interior points of a set, open set.
3. Understanding concept of limit points of a set, closed set, closure of a set, dense set.
4. Understanding the basic concept of sequences, subsequences, bounds of sequences, limit point of sequences, general principle of convergence, different types of sequences.
5. Understanding the concept of infinite series, different types of series, the general principle of convergence
6. Use the results to solve some problems.
7. Understanding the difference between different types of sequences, series, and comparison tests.

Class: B.Sc. Second Year Paper VII Group theory

Objectives: A primary objective of the course is to learn elementary knowledge of Group Theory.

Outcomes: After successful completion of the course student will be able to

1. Understand the concepts on an equivalence relation.
2. Find the examples of equivalence relation.
3. Check whether the given set, is a group for the given operation or not.
4. Understand the general properties of groups.
5. Solve problems on groups.
6. Understand the concepts of the cyclic group.

7. Use Lagrange's theorem to solve the problems in number theory.
8. Form a quotient group.
9. Find the kernel of a group homomorphism.

Class: B.Sc. Second VIII Year Paper Ordinary differential Equations

Objectives: A primary objective of the course is to learn elementary knowledge of Ordinary Differential Equations.

Outcomes: After successful completion of the course student will be able to

1. Understand concept of solution of differential equations, order and degree.
2. Transform the equations into variable separable form.
3. Transform first order nonhomogeneous equation into homogeneous equation and solve it.
4. Find the equation that can be resolved into component equation and solve it.
5. Solve Clairaut's equation.
6. Find the solutions when the auxiliary equations are equal, different, repeated, and imaginary roots.
7. Find the solution of the exact differential equation, rules of finding the integrating factor.
8. Transform non-linear equation to linear equation and solve it.
9. Find integral corresponding to a term of the form e^{ax} , x^m , $\sin ax$ or $\cos ax$, $e^{ax}V$, x^2V in the second member.
10. Find the solution of linear equation with variable coefficients.
11. Transform the equation to the homogeneous linear form.
12. Transform the homogeneous linear equation with constant coefficients by changing the independent variable x to z by putting $x = e^z$ or $z = \log x$.

Class: B.Sc. Second Year Paper IX Real analysis II

Objectives: A primary objective of the course is to learn elementary knowledge of Rie-mann integral and improper integral, other objectives of the course is how to use comparison and general tests.

Outcomes: After successful completion of the course student will be able to

1. Understand the meaning of interval, subinterval, partitions, and their refinement.
2. Understand the basic concept of upper integral and lower integral and Riemann integral.
3. Understand difference between upper sum, lower sum and Riemann sum
4. Acquire the idea about Riemann Integrability and Riemann Integration
5. Understand various theorems associated with Riemann Integration
6. Develop a knowledge about Riemann Integration and applies to problems
7. Understand the meaning of improper integral.
8. Determine convergence of improper integrals with discontinuities in their domain or in finite limits of integration.
9. Develop skill in checking the convergence of improper integral using various tests of convergence
10. Understanding distinguishes between convergence and absolute convergence of improper integral.
11. Use comparison test with a corresponding improper integral with other improper integral to decide whether improper integral converge or diverge
12. Use the results to solve some problems.

Class: B.Sc. Second Year Paper X Ring Theory

Objectives: A primary objective of the course is to learn elementary knowledge of Ring Theory.

Outcomes: After successful completion of the course student will be able to

1. Understand given algebraic structure is a Ring or not.
2. Construct the examples of ring with known examples of ring.
3. Differentiate between zero-divisors and non-zero-divisors in a given ring.
4. Check whether given two rings are isomorphic or not.
5. Check whether the given ideal of a ring is a principal ideal or not.
6. Understand the concepts on principal ideal ring
7. Understand concepts on Euclidean rings.

Class: B.Sc Second Year Paper XI Partial Differential Equations.

Objectives: Partial Differential Equations allows deterministic Mathematical formulation of phenomena in Physics, Engineering, and Biological processes. The objectives of this course are as follows:

1. Introduce students to PDE
2. Introduce students to different methods of solutions of PDE.
3. Techniques of separation of variable to solve PDE.
4. Introduce students to real-world problems like wave equation, heat equation, etc.

Outcomes: After successful completion of the course student will be able to

1. Classification of PDE.
2. Solve linear as well as non-linear PDE of first and second order.
3. Apply PDE techniques to predict the behavior of certain phenomena.
4. Solve real problems by identifying them approximately from the perspective of PDE.
5. Mathematical formulation of real problem precisely. Solve problem using boundary conditions

Class B.Sc. Second Year Paper XII Metric Spaces

Objectives: A Primary Objective of this Course is to learn elementary Knowledge about Metric Spaces, Subspaces, and Elementary properties with Examples, Concepts of convergence and Completeness, Continuity and Uniform continuity, Banach Fixed point Theorem, Compactness and Connectedness.

Outcomes: After successful completion of the course student will be able to

1. Demonstrate an understanding of metric spaces and subspaces by proving unseen results.
2. Produce examples and counterexamples illustrating the mathematical concepts.
3. Understand the concepts of open and closed sets.
4. Understand the concepts and develop skill to check the positions of a point in the space.
5. Understand the concepts of convergence and completeness.
6. Understand the concepts of fixed point and Banach principle.
7. Understand the concepts of continuity and uniform continuity..
8. Understand the concepts of compact and non-compact sets with various properties.
9. Understand the concepts of Lebesgue Number for Covers and connectedness of sets.
10. After completion of this course student can aware with basic concepts of functional analysis.

Class B.Sc. Second Year Paper XIII Linear Algebra

Objectives:

1. To make the student familiar with important concepts of vector spaces such as Independence, basis, dimensions, subspaces, inner products.
2. To enhance the students' ability to reason mathematically.
3. To understand the axiomatic structure of modern mathematical subject.
4. To learn construction of simple proofs.

Outcomes: After successful completion of the course student will be able to

1. Understand and prove algebraic statements about vector spaces, subspaces, basis, Inner product spaces.
2. Determine a basis and the dimension of finite dimensional space.
3. Understand and prove statements about linear transformations.
4. Find the kernel, range, rank and nullity of linear transformation.
5. Determine eigen values and eigenvectors.

Interpret a matrix as a representation of linear transformation

Class: B.Sc. Third year Paper XIV Numerical Analysis

Objectives: A primary objective of the course is to learn Interpolation under certain assumptions, Numerical Differentiation, Numerical Integration, and Numerical Solution of Ordinary Differential Equations

Outcomes: After successful completion of the course student will be able to

1. Estimate the value of a function under certain assumptions.
2. Find the missing term in the given data using numerical techniques.
3. Apply numerical derivation and numerical integration methods.
4. Investigate numerical solutions of differential equations.
5. Find the integration of a function using numerical methods.
6. Find the solutions of ordinary differential equations.

Class: B.Sc. Third year Paper XV Complex Analysis

Objectives: To develop clear understanding of basic concept of functions of complex variable, understand and learn to use argument principle, study the analytic and elementary functions of complex variables and develop manipulation skill in the use of complex numbers.

Outcomes: After successful completion of the course student will be able to

1. Operate basic mathematical operations with complex numbers in Cartesian and polar forms.

2. Demonstrate the ability of limit, continuity, analyticity of a function.
3. Find the derivative and integral of a complex variable function.
4. Work with exponential and logarithmic functions.
5. Use Cauchy integral theorem and Liouville's theorem.
6. Use Taylor and Laurent's series

Class: B.Sc. Third year Paper XVI Integral Transforms

Objectives: A primary objective of this course is to get introduced to Integral Transforms, study some of them in details along with their properties and applications.

Outcomes: After successful completion of the course student will be able to

1. Understand the concept of Integral Transforms
2. Identify integral transforms by their integration limit and kernels
3. Obtain integral transforms of functions
4. Apply the integral transform for evaluating integrals
5. Apply the integral transforms along with their inversion formulae for solving differential conditions
6. Apply the integral transforms along with their inversion formulae for solving systems of simultaneous differential equations with initial conditions
7. Know the formulae for integral transforms of various functions.
8. Understand various properties of integral transforms

Class: B.Sc. third year Paper XVII Mechanics

Objectives: To learn basic knowledge of displacement, velocity and acceleration and their relations. Understand the motion of projectile and in Resisting Medium.

Outcomes: After successful completion of the course student will be able to

1. Understand Newton's Laws of Motion and its importance in Physical Sciences.
2. Develop research oriented skills in Applied Mathematics.
3. Understand the expressions for Velocity and Acceleration, Components of Velocity and Acceleration and principles of equilibrium of two forces.
4. To realize the forces acting on a particle, forces acting on a rigid body and their derivations.
5. Analyze the Impulsive Force and its Impulse, Conservation of Linear Momentum and, Impact of two bodies.

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हिन्दी विभाग

पाठ्यक्रम का उद्देश्य और उपयोगिता

बी. ए., बी.काॅम., बी. एस्सी. प्रथम वर्ष

(द्वितीय भाषा) पेपर : साहित्य भारती I, II

उद्देश्य -

१. हिन्दी भाषा की विद्यार्थियों में रुचि निर्माण करना।
२. त्रिभाषा सूत्र को कार्यान्वित करना।
३. हिंदी कहानी और कविता जैसी विधाओं से छात्रों को परिचित करना।
४. पत्र लेखन के संदर्भ में विशेष जानकारी देना।
५. विद्यार्थियों में सामाजिकता के प्रति संवेदनाओं को जागृत करना।
६. वृत्तांत लेखन के प्रति विद्यार्थियों में रुचि निर्माण करना।
७. हिंदी की आरंभिक कहानियां और समकालीन कहानियों के तत्वों को स्पष्ट करना।
८. बी.काॅम. और बी. एस्सी. के विद्यार्थियों में द्वितीय भाषा हिंदी के प्रति रुचि बढ़ाना।
९. प्रेमचंद जैसे ख्यातनाम लेखक के साहित्य से परिचित कराना।
१०. महिला लेखिकाओं के साहित्य से विद्यार्थियों को परिचित कराना।

उपयोगिता -

१. विद्यार्थियों का तीनों भाषा का ज्ञान बढ़ने में मदद होगी।
२. हिंदी भाषा के प्रति विद्यार्थियों में रुचि निर्माण होगी।
३. बी. काॅम. और बी. एस्सी. के विद्यार्थियों में भी रुचि निर्माण होगी।
४. हिंदी की कविता और कहानी जैसी विधाओं से विद्यार्थी परिचित होंगे।
५. पत्र लेखन के संदर्भ में विद्यार्थी अच्छा ज्ञान प्राप्त करेंगे।
६. विद्यार्थी सामाजिक संवेदना के प्रति सजग होंगे।
७. वृत्तांत लेखन के माध्यम से वृत्तांत लिखने में विद्यार्थियों की रुचि बढ़ेगी।
८. हिंदी की आरंभिक कहानियां और समकालीन कहानियों के तत्वों का अंतर विद्यार्थी जान पाएंगे।
९. प्रेमचंद्र जैसे प्रसिद्ध लेखक के साहित्य का अध्ययन करने में रुचि लेंगे।
१०. विद्यार्थी महिला लेखिकाओं के साहित्य से परिचित होंगे।

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हिंदी विभाग

पाठ्यक्रम का उद्देश्य और उपयोगिता

बी. ए. बी. प्रथम वर्ष

(ऐच्छिक हिन्दी,) पेपर : कथा साहित्य - I, III

उद्देश्य -

१. हिंदी साहित्य के कहानी एवं उपन्यास विधा से विद्यार्थियों को परिचित कराना।
२. कथा साहित्य की लेखन पद्धति का परिचय देना।
३. विद्यार्थियों में चिंतन एवं लेखन कौशल को विकसित करना।
४. कथा साहित्य के विभिन्न चरित्रों के माध्यम से छात्रों की मानसिकता को परिवर्तित करना।
५. विभिन्न चरित्रों के माध्यम से विद्यार्थियों के क्रियाकलापों को परिवर्तित करना।
६. कथा साहित्य के माध्यम से विद्यार्थियों को विभिन्न समस्याओं से परिचित करना।
७. समस्याओं के समाधान के लिए विद्यार्थियों को प्रोत्साहन देना।

उपयोगिता -

१. हिंदी उपन्यास और कहानी विधा से विद्यार्थी परिचित होंगे।
२. कथा साहित्य की लेखन पद्धति से परिचित होंगे।
३. विद्यार्थियों में लेखन, चिंतन की क्षमता का विकास होगा।
४. विविध चरित्रों के अध्ययन के माध्यम से उनकी मानसिकता में परिवर्तन आएगा।
५. विद्यार्थियों के क्रियाकलापों में परिवर्तन आएगा।
६. कथा साहित्य के माध्यम से विद्यार्थी विभिन्न समस्याओं के समाधान ढूँढने का प्रयास करेंगे।
७. विद्यार्थियों में सही गलत की परख करने की क्षमता बढ़ेगी।

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पाठ्यक्रम का उद्देश्य और उपयोगिता

बी. ए. बी. प्रथम वर्ष

(ऐच्छिक हिन्दी) , पेपर : नाटक तथा एकांकी - II, IV

उद्देश्य -

१. हिंदी के नाटक विधा से विद्यार्थियों को परिचित कराना
२. नाटक एवं एकांकी के प्रति विद्यार्थियों के मन में रुचि निर्माण करना
३. संवाद, लेखन और वाचन कौशल का विकास करना
४. विद्यार्थियों को रंगमंच से परिचित कराना
५. नाटक के तत्व से परिचित कराना
६. अभिनय के प्रति जिज्ञासा निर्माण करना
७. व्यवसायिक रंगमंच के प्रति विद्यार्थियों का आकर्षण बढ़ाना

उपयोगिता -

१. हिंदी के नाटक साहित्य से विद्यार्थी परिचित होंगे।
२. नाटक और एकांकी के प्रति विद्यार्थियों के मन में रुचि निर्माण होगी।
३. संवाद, लेखन और वाचन कौशल का विकास होगा।
४. विद्यार्थी रंगमंच से परिचित होंगे नाटक के तत्व से परिचित होंगे।
५. अभिनय के प्रति विद्यार्थियों का आकर्षण बढ़ेगा।
६. नाटक में आई हुई प्रमुख मूल संवेदना का ज्ञान होगा।

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हिंदी विभाग

पाठ्यक्रम का उद्देश्य एवं उपयोगिता

बी. ए./ बी. कॉम./ बी. एस.सी. द्वितीय वर्ष

सामान्य हिंदी (द्वितीय भाषा) पेपर: II, III

उद्देश्य -

1. हिंदी साहित्य की गद्य विधाओं से छात्रों को परिचित कराना।
2. गद्य की विभिन्न विधाओं का तात्त्विक विवेचन स्पष्ट करना।
3. गद्य की विभिन्न विधाओं का लेखन कौशल प्रस्तुत करना।
4. गद्य की विभिन्न विधाओं के माध्यम से छात्रों में राष्ट्रीय और सामाजिक मूल्यों की स्थापना करना।
5. दृश्य-श्रव्य माध्यम नाटक तथा एकांकी के द्वारा के प्रति छात्रों में रुचि निर्माण करना।
6. प्रयोजनमूलक हिंदी के माध्यम से छात्रों में व्यवसायिक रुचि निर्माण करना।
7. वर्तमान परिस्थितियों के अनुसार हिंदी के प्रचार प्रसार को ध्यान में रखते हुए हिंदी के माध्यम से व्यवसायिकता के प्रति विद्यार्थियों का रुझान बढ़ाना।
8. हिंदी की हर एक विधा के अध्ययन का आकर्षण निर्माण करना।

उपयोगिता -

1. हिंदी के गद्य साहित्य से विद्यार्थी परिचित होंगे।
2. गद्य की विभिन्न विधाओं के तात्त्विक विवेचन से परिचित होंगे।
3. विभिन्न विधाओं के परिचय के माध्यम से छात्रों में लेखन कुशलता का कार्य बढ़ेगा।
4. विभिन्न विधाओं के कारण छात्रों में राष्ट्रीय एवं सामाजिक मूल्यों का ज्ञान बढ़ेगा।
5. दृश्य श्रव्य माध्यम नाटक और एकांकी से विद्यार्थी परिचित होंगे।
6. प्रयोजनमूलक हिंदी के कारण छात्रों में व्यवसायिक गुण विकसित होंगे।
7. वर्तमान परिस्थिति के अनुसार व्यवसाय के प्रति हिंदी के माध्यम से व्यवसाय बढ़ाने में मदद होगी।



हिंदी विभाग
पाठ्यक्रम का उद्देश्य एवं उपयोगिता
बी. ए. द्वितीय (ऐच्छिक हिंदी -)

पेपर : मध्ययुगीन तथा आधुनिक काव्य V, VII

उद्देश्य -

1. मध्ययुगीन कवियों के जीवन से छात्रों को परिचित कराना।
2. मध्यकालीन परिस्थितियों से परिचित कराना।
3. मध्यकाल में काव्य में आए हुए परिवर्तन को समझाना।
4. काव्य के भाव, भाषा और शिल्प को विद्यार्थियों को समझाना।
4. मध्यकालीन काव्य में प्रस्तुत जीवन मूल्य और जीवन दर्शन को स्पष्ट करना।
5. काव्य सृजन की क्षमता का विकास करना।
6. काव्य अभिव्यक्ति की क्षमता को प्रोत्साहन देना।
7. काव्य में आए हुए छंद अलंकार आदि से परिचित कराना।
8. मध्ययुगीन काव्य में अभिव्यक्त आदर्शों से छात्रों को परिचित करना।

उपयोगिता

1. छात्र मध्ययुगीन कवियों के जीवन से परिचित होंगे।
2. मध्यकालीन काव्य में आए हुए परिवर्तन को समझेंगे।
3. काव्य भाव, भाषा एवं शिल्प को जान जाएंगे।
4. काव्य में प्रस्तुत जीवन मूल्य और जीवन दर्शन से विद्यार्थी परिचित होंगे।
5. काव्य सृजन की क्षमता का विकास होगा।
6. छात्रों में काव्य अभिव्यक्ति की क्षमता निर्माण होगी।
7. मध्ययुगीन काव्य में आए हुए छंद, अलंकारों से परिचित होंगे।
8. मध्ययुगीन काव्य में प्रस्तुत आदर्श से प्रेरणा लेंगे।

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पाठ्यक्रम का उद्देश्य एवं उपयोगिता

बी. ए. द्वितीय वर्ष

ऐच्छिक हिंदी - निबंध तथा कथेत्तर गद्य - VI, VIII

उद्देश्य -

1. हिंदी का निबंध साहित्य और गद्य साहित्य के प्रति छात्रों को आकृष्ट करना
2. निबंध लेखन के कौशल को विकसित करना
3. निबंध के द्वारा अन्य विषयों के चिंतन और लेखन की क्षमता को बढ़ाना
4. संस्मरण, रेखाचित्र, यात्रा वर्णन, व्यंग्य संबोधन आदि नई विधाओं का परिचय कराना
5. नई विधाओं के लेखन कार्य की कुशलता से परिचित कराना
6. विभिन्न विधाओं की समकालीनता को समझाना
7. साहित्यिक विधाओं के माध्यम से सामाजिक मूल्यों को समझाना

उपयोगिता -

1. निबंध साहित्य और गद्य साहित्य के प्रति आकर्षण निर्माण होगा।
2. निबंध लेखन के कौशल का विकास होगा।
3. निबंध के माध्यम से अन्य विषयों के चिंतन और लेखन की क्षमता बढ़ेगी।
4. संबोधन, यात्रा वर्णन, व्यंग्य, संस्मरण जैसी नई विधाओं का परिचय होगा।
5. नई विधाओं में लेखन करने की प्रेरणा मिलेगी।
6. विभिन्न विधाओं के माध्यम से समकालीनता को समझने की क्षमता निर्माण होगी।
7. हिंदी विधाओं के माध्यम से सामाजिक मूल्यों को समझ पाएंगे।

हिन्दी विभाग

बी.ए तृतीय वर्ष (ऐच्छिक)

हिंदी साहित्य का इतिहास प्रश्न - पत्र IX पाठ्यक्रम का उद्देश्य तथा उपयोगिता

उद्देश्य :

1. छात्रों को हिंदी साहित्य के बृहत इतिहास का परिचय कराना ।
2. छात्रों को हिंदी साहित्य के सृजन की पृष्ठभूमि से परिचित और अवगत कराना ।
3. साहित्यिक प्रवृत्तियों की परंपराओं को समझना ।
4. साहित्य के माध्यम से जीवन मूल्य एवं जीवन दर्शन को समझना ।
5. भाषाई शिल्प के परिवर्तनों को समझना ।
6. हिंदी साहित्य के आदिकाल तथा रीतिकाल का संक्षिप्त परिचय देना ।
7. हिंदी साहित्य के भक्ति काल तथा आधुनिक काल की प्रवृत्तियों से छात्रों को अवगत कराना ।

उपयोगिता :

1. साहित्य की परिस्थितियां और प्रवृत्तियां हमारे वर्तमान जीवन को उज्ज्वल बनाने में सहयोग देती है। इस से छात्रों के जीवन में सुधार और फायदा हो सकेगा।
2. तत्कालीन जीवन मूल्य, जीवन दर्शन, समस्याएं, संस्कृति, का वर्तमान से संबंध स्थापित होकर नए जीवन और कलाओं का निर्माण होता है ।
3. छात्र हिंदी साहित्य के बृहत इतिहास से परिचित होंगे ।
4. छात्र साहित्य की परिस्थितियों और प्रवृत्तियों को अच्छी तरह से समझेंगे ।
5. छात्रों को आदिकाल भक्तिकाल तथा रीतिकाल का परिचय प्राप्त होगा ।
6. छात्र आधुनिक काल के काव्यगत प्रवृत्तियों और गद्य विधासे भी लाभान्वित होंगे ।

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हिंदी विभाग

बी. ए. तृतीय वर्ष

हिंदी भाषा:- प्रश्न पत्र क्रमांक X

उद्देश्य :-

1. हिंदी भाषा के प्रति छात्रों में रुचि उत्पन्न करना ।
2. हिंदी भाषा के स्वरूप को समझाना ।
3. हिंदी भाषा के प्रयुक्त क्षेत्रों का परिचय कराना ।
4. भाषाई वैविध्य वाले भारत देश में हिंदी के महत्व को समझाना ।
5. प्रौद्योगिकी के युग में हिंदी भाषा की उपयोगिता को समझाना ।
6. हिंदी की संवैधानिक स्थिति से छात्रों को अवगत कराना ।

उपयोगिता :-

1. वैदिक संस्कृत, संस्कृत, पाली, अपभ्रंश, खड़ी बोली हिंदी, आधुनिक हिंदी, मानक हिंदी आदि चरणों से गुजरकर हिंदी विकसित हुई है यह छात्र समझेंगे।
2. छात्र भाषा के स्वरूप को समझेंगे ।
3. छात्र हिंदी भाषा के क्षेत्रों को समझेंगे ।
4. भारतवर्ष के राजभाषा हिंदी के महत्व से छात्र अवगत होंगे ।
5. प्रौद्योगिकी को ध्यान में रखते हुए छात्र हिंदी के महत्व से अवगत होंगे ।
6. हिंदी की संवैधानिक स्थिति को छात्र भली-भांति समझेंगे ।
7. आधुनिक युग के बदलते परिवेश को ध्यान में रखते हुए छात्र हिंदी को रोजगार की भाषा के रूप में स्वीकार करेंगे ।

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हिंदी विभाग

बी. ए. तृतीय वर्ष

साहित्यशास्त्र प्रश्न पत्र - XI

उद्देश्य :

1. साहित्य का शास्त्रीय पद्धति से अध्ययन करना ।
2. साहित्य शास्त्र के महत्व को प्रतिपादित करना ।
3. छात्रों में साहित्य के प्रति शास्त्रीय दृष्टिकोण विकसित करना ।
4. शब्द शक्ति के माध्यम से शब्द और अर्थों के संबंधों को समझना ।
5. आलोचना के माध्यम से मानवीय प्रवृत्ति का साहित्यिक विश्लेषण करना ।
6. छात्रों को साहित्य शास्त्र के प्रति रुचि निर्माण करना ।

उपयोगिता :

1. साहित्य का शास्त्रीय दृष्टिकोण से अध्ययन होगा ।
2. छात्रों को साहित्य शास्त्र का महत्व प्रतिपादित होगा ।
3. छात्रों का साहित्य शास्त्र के प्रति शास्त्रीय दृष्टिकोण निर्माण होगा ।
4. छात्र शब्द शक्ति के माध्यम से शब्द और अर्थ के साथ संबंध को समझ सकेंगे ।
5. छात्र आलोचना और उसके प्रकारों को सहज रूप से समझ सकेंगे ।
6. छात्रों की साहित्यशास्त्र के प्रति रुचि निर्माण होगी ।

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नवीनतम पाठ्यक्रम का उद्देश्य तथा उपयोगिता

बी .ए.तृतीय वर्ष

भाषा शिक्षण : प्रश्न पत्र क्र XII

उद्देश्य :-

1. भाषा शिक्षण के महत्व को प्रतिपादित करना ।
2. हिंदी भाषा की टेक्निक त्रुटियों को समझना ।
3. भाषा की शुद्धता एवं कुशलता के माध्यम से रोजगार के अवसर प्रदान करना ।
4. बदलते भाषाई परिवेश में परंपरागत भाषाई मौलिकता और लोक भावनाओं को समझना ।

उद्देश्य :-

1. भाषा मानवीय भावनाओं एवं विचारों को अभिव्यक्त करने का सशक्त माध्यम है, इसलिए हिंदी भाषा से छात्र अवगत होंगे ।
2. भाषा के माध्यम से ज्ञान प्राप्ति एवं अभिव्यक्ति संभव है , इसलिए छात्र भाषा को अवगत कर के ज्ञान को प्राप्त कर सकेंगे ।
3. छात्र भाषा शिक्षण के माध्यम से भाषा की शुद्धता एवं कुशलता से रोजगार के अवसर निर्माण करने में सफल होंगे ।
4. विज्ञान एवं प्रौद्योगिकी के विकास में हिंदी भाषा की उपयोगिता अधिक होने के कारण छात्रों में भाषा शिक्षण के प्रति रुचि निर्माण होगी और उन्हें लाभ होगा ।
5. भाषा शिक्षण के ज्ञान के कारण छात्र हिंदी को रोजगार की भाषा बनाने में सफल होंगे ।

हिन्दी विभाग पाठ्यक्रम का उद्देश्य एवं उपयोगिता हिन्दी कौशल विकास - III, IV

उद्देश्य -

1. विद्यार्थियों में व्यवसायिक कौशल का विकास करना।
2. कौशल के विभिन्न क्षेत्रों से हिंदी को जोड़ना।
3. छात्रों में भाषण, लेखन कौशल विकसित करना।
4. छात्रों को व्यवसाय के लिए प्रोत्साहन देना।
5. हिंदी कौशल के द्वारा विद्यार्थियों का सर्वांगीण विकास करना।
7. हिंदी कौशल के माध्यम से विद्यार्थियों के व्यक्तित्व को परिपूर्ण बनाना।
7. हिंदी कौशल विकास के द्वारा राष्ट्र निर्माण में योगदान देना।

उपयोगिता -

1. छात्रों में व्यवसायिक कौशल का विकास होगा।
2. हिंदी को व्यवसाय के अनेक क्षेत्रों से जोड़ने का अवसर प्राप्त होगा।
3. छात्रों में भाषण, लेखन के कौशल का विकास होगा।
4. विद्यार्थी रोजगार के अवसरों से परिचित होंगे।
5. हिंदी कौशल के द्वारा विद्यार्थियों का सर्वांगीण विकास होगा।
6. हिंदी विकास कौशल के द्वारा छात्रों के व्यक्तित्व का परिपूर्ण विकास होगा।
7. हिंदी कौशल विकास के द्वारा छात्र राष्ट्र निर्माण में योगदान देंगे।

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DEPARTMENT OF COMMERCE

MASTER OF COMMERCE (M. COM)

PROGRAMME OUTCOME

Students who have taken admission to this programmed of B.Com are expected to concentrate upon the following outcomes

- Commercial sense
- Develop managerial skills
- Entrepreneurial skills
- Budgetary policy
- Human resource management
- Develop numerical ability
- Well versed with business regulatory framework

M.com Ist year Sem.I

Managerial Economics

Course Outcomes:

- To familiarize with the students the importance of economic approaches in managerial decision making
- To understand the applications of economic theories in business decisions

Statistical Analysis for Business

Course Outcomes:

- The objective of this course is to make students earn the associations of statistical tools and techniques for decision making.

Business Management & Organisational Behaviour

Course Outcomes:

- The course aims at developing among students an understanding of human behaviours for dealing effectively with behavioural issues at workplace.
- To understand the conceptual framework of Organizational Behavior.

International Business Environment

Course Outcomes:

- The purpose of this paper is to enable the students learn nature, scope and structure of International Business, and understand the influence of various environmental factors on international business Operations.

Sem. II

Accounting For Managerial Decision

Course Outcomes:

Objectives of the Course is to provide the skill of

- i) Management techniques
- ii) Decision making
- iii) Presenting the accounting and sales production fact
- iv) Minimise the cost

Utility

Student can understand the

- i) Management Knowledge
- ii) Application of management accounting and skill of decision making in business

Prerequisite

Knowledge of management accounting

OPERATIONS RESEARCH

Course Outcomes:

1. The Objective of this course is to acquaint students with the Operation research tools and techniques and their application in management process.

LEGAL ASPECTS OF BUSINESS

Course Outcomes:

1. The objective of this course is to provide the students with practical legal knowledge of general business law issues and topics to help become more informed, sensitive and effective business leaders.

CORPORATE TAX PLANNING AND MANAGEMENT

Course Outcomes:

1. This course aims to make the student conversant with the concept of Corporate Tax Planning and Management and its application in corporate world.

M.com IInd year Sem. III

Financial Management

Course Outcomes:

1. To enable and equip the students with the basic functions and tools of financial management.
2. To prepare students for NET/SET.
3. To prepare students for Banking Exams.
4. To prepare students for the post of Financial Manager
5. The students will be able to handle finance function.
6. The students will become Successful Finance Manager.
7. The students will become Successful Business Person by handling Finance Function.

Advance Financial Accounting

Course Outcomes:

1. To develop advance accounting skills among the students
2. To prepare students for Banking Examinations
3. To prepare students for NET/SET Examinations.
4. The students will become skillful account and finance manager.
5. The students will become skillful NET/SET qualified account and finance teacher.

Research Methodology

Course Outcomes:

1. To develop research skills and attitude among the students.
2. To prepare students for Banking Examinations.
3. To prepare students for NET/SET Examinations.
4. The students will become scientific researcher.
5. The students will be able to carry research and survey in area of marketing, HR, Production, account and finance.

Marketing Management – I

Course Outcomes:

1. To elevate students' awareness of an organization's resources required for marketing in today's age of information.
2. To develop marketing skills.
3. To understand the requirements of a career in marketing
4. To prepare students for NET/SET Examinations.
5. The students will become successful marketer.
6. The students will be able to carry research and survey in area of marketing, advertising and sales.
7. The students will become Successful Marketing Manager.

Rural Marketing Skill

Course Outcomes:

1. Students learn the about rural consumer behavior, marketing strategies implemented by the organization to attract towards products of rural customers, challenges of rural marketing and process of targeting rural market and marketing.
2. By undergoing this subject the student will be able to understand the difference between urban and rural market. This will also help to formulate strategies for rural market. The student will come to know recent trends and megatrends in this domain.

Sem. IV

Advanced Financial Management

Course Outcomes:

1. To enable and equip the students with the advanced functions and tools of financial management.
2. To develop financial skills.
3. To understand the requirements of a career in financial marketing.
4. To prepare students for NET/SET and banking examinations.
5. It will be help the students to enable and equip the students with the advanced functions and tools of financial management.
6. The students will become Successful Financial Manage

Accounting and Finance

Course Outcomes:

1. To make the students to understand the recent trends in accounting and finance.
2. To develop accounting and finance skills.
3. To understand the requirements of a career in accounting and finance.
4. To make the students aware of working of money and capital markets and their regulatory authorities.
5. To prepare students for NET/SET Examinations.
6. It is helpful to make the students to understand the recent trends in accounting and finance.
7. It is helpful to understand the requirements of a career in accounting and finance.
8. It is helpful to make the students aware of working of money and capital markets and their regulatory authorities.
9. It is helpful to prepare students for NET/SET Examinations.

Research Project Work

Course Outcomes:

1. To develop research skills and attitude among the students.
2. To prepare students to carry research and survey in area of marketing, HR, Production, banking, accounting and finance.
3. The students will become scientific researcher.
4. The students will be able to carry research and survey in area of marketing, HR, Production,

banking, accounting and finance.

Marketing Management-II

Course Outcomes:

1. To understand the opportunities and challenges in rural marketing.
2. To understand the differences between Rural and Agricultural marketing.
3. To evaluate different marketing strategies used in rural distribution and promotion.
4. It is helpful to understand the opportunities and challenges in rural marketing.
5. It is helpful to understand the differences between Rural and Agricultural marketing.
6. It is helpful to evaluate different marketing strategies used in rural distribution and promotion.

Rural Industrialization skill

Course Outcomes:

1. To enable the students gaining knowledge about Rural Industrialization.
2. To enable the students how to do planning, decision making in rural industries.

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Dr. B. S. Munde
PRINCIPAL

Course outcome 2017-18

B.Sc. F.Y. Botany (semester Ist)

Paper Name and No.: Diversity of Microbes - I

After then successful completion of this course

1. Students will recognize and identified diversity of lower cryptogams.
2. Students will collect and study the samples from different locations of algae, fungi, bacteria and viruses.
3. Students to collect various samples of plant diseases, algae, fungi, etc.
4. Students visited to field and discuss with famers about the problems.
5. Students knows about the economic importance and types of lichens.

Paper Name and No.: Cell and Molecular Biology- II

After then successful completion of this course.

1. Students are able to analyze various types of cells and their functions.
2. Students identified the number of cell organelles .
3. Students are identified chromosomes and their types.
4. Students are recognize cell division in plants.
5. Students made DNA structure model and identified.
6. Students identified the structure and mutation of genes.

B.Sc. F.Y. Botany (semester IInd)

Paper Name and No.: Diversity of cryptogams - III

After then successful completion of this course.

1. Students are identified and recognize various types of algae.
2. Students known about structure and importance of algae.
3. The students are identified various members of Bryophytes and its importance.
4. Students identified to members of pteridophytes and its importance.

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**Dr. B. S. Munde
PRINCIPAL**

Paper Name and No.: Genetics and Plant Breeding - IV

After then successful completion of this course.

1. Students known about the laws of mendels.
2. Students are write on ratios of various genes.
3. Students known about sex linked inheritance in man.
4. Students identify in human syndromes.
5. Students identified various methods of plant breeding and their objectives.
6. Students analyze male sterility and genetic sterility.

Paper Name and No.: Practicle Paper Based on Theory - V

After then successful completion of this course.

1. Students identified various microbes as a practically.
2. Students completed cell division and types practically.
3. Students identified to bryophytes, pteridophytes and algae practically.

B.Sc. Second Year Botany (semester IIIrd)

Paper Name and No.: morphology and taxonomy of angiosperm - VI

After then successful completion of this course.

1. Students are identified to various plants morphology.
2. Students are known about the plants reproductive structures.
3. Students are able and made the various models of ovules.
4. Students are known the differences between various families.
5. Students are recognize economic importance of plants.

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Dr. B. S. Munde
PRINCIPAL

Paper Name and No.: Histology, Anatomy And Embryology Of Angiosperm - VII

After then successful completion of this course.

1. Students are recognize about the histology of plants and their structures.
2. Students are known about the various types of tissues in plants.
3. Students are identified the anatomical structures of plants.
4. Students are identified various types of ovule in plants.
5. Students identified the types of embryos.

B.Sc. Second Year Botany (semester IVth)

Paper Name and No.: Gymnosperm and Paleobotany - VIII

After then successful completion of this course.

1. Gymnospermic plants are rare in position.
2. Students are identified the morphological structures of gymnosperm.
3. Students are identified anatomical structure of gymnosperm.
4. Students are identified various economic importance of plants.
5. Students are recognize types of fossils.
6. Students are recognize living fossils.

Paper Name and No.: Ecology and environmental Biology- IX

After then successful completion of this course.

1. Students are able to analyze various types of ecosystem and they can correlate different ecosystem.
2. Students will analyze types, causes and control measures of different type of pollution.
3. Students can identify types of plants on basis of their habitat. They can identify them on the basis of adaption (Morphological and anatomical adaption) & categories them in to respected plant groups.
4. Students can identify biogeographic regions of India on the basis of flora.

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Dr. B. S. Munde
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Paper Name and No.: Practical paper based on theory - X

After then successful completion of this course.

1. Students are identified morphological and anatomical structure of plant practically.
2. To made permanent slide of plants.
3. Students are studied various reproductive parts of gymnosperm.
4. Students are studied to paleobotanical slides.
5. Students collected various samples of plants from different places.

Paper Name and No.: Practical paper based on theory - XI

After then successful completion of this course.

1. Students to made models and charts of tissues.
2. Students studied anatomical features of the plants.
3. Students studied biomass in ecosystem.
4. Students studied ecological adaptation in plants.

SECB – IA and SECB – IIB

After then successful completion of this course.

1. Students studied different types of medicinal plants.
2. Students to made byproducts of plants as a professionally.
3. Students made a syrup from medicinal plants.
4. Students cultured biocontrol as a trichoderma.
5. Students studied to pesticides and fungicides.

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Dr. B. S. Munde
PRINCIPAL

B.Sc. third Year Botany (semester Vth)

Paper Name and No.: Plant Physiology - XII

After then successful completion of this course.

1. Students analyze contain of water and its importance.
2. Students studied different physicochemical processes.
3. Students studied role and deficiency of elements in plants.
4. Students studied growth and development of in plants and hormones.
5. Students studied various biochemical processes in plants.

Paper Name and No.: Plant Pathology- (I) XIII

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

B.Sc. Third Year Botany (Semester VIth)

Paper Name and No.: Plant Metabolism, biochemistry and biotechnology- XIV

After then successful completion of this course.

1. Students gain knowledge about of mechanisms in plants.
2. Students knowledge about of aerobic and anaerobic processes.
3. Students studied to mechanism of enzymes actions in plants.
4. Students professionally made tissue culture and media.

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PRINCIPAL

Paper Name and No.: Plant Pathology –(II) XV

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

Paper Name and No.: Practical paper – XVI and XVII based on theory

After then successful completion of this course.

1. Students studied to aerobiological spores.
2. Students studied to methods of treatments (seed).
3. Students studied biochemical defense in plants.
4. Students studied to various types of pathogens and plant diseases.
5. Students studied DNA technology.
6. Students gain knowledge about of cloning transgenic plant, gene transfer in plants.
7. Students gain knowledge about the field crops and discuss with farmers.

SECB – IIIA and SECB – IVA

After then successful completion of this course.

1. Students made fruits and vegetables biproducts.
2. Students applied professional technology and operate various machines.
3. Students to made juices, syrups and byproducts professionally.
4. Students made to ready professionally as manufacturing of wine, pickles, paste and toffy.
5. Students studied to flory culture.
6. Students analyze to soils, manures, fertilizers, irrigation techniques.
7. Students apply cultural and chemical plant protections.

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DEPARTMENT OF SOCIOLOGY

Sr.	Objectives	Outcomes
	B A F Y	
1	Introduction to Sociology- paper no. I	
	1) The objective of the course is developing awareness among a good number student. 2) This paper is introductory paper. The student learn basic concept of sociology and acquire scientific knowledge	1 Students will able on understanding of social call individual life. 2 To understand society is contact of the sociology theory, knowledge concepts.
	B A F Y	
2	New changes in social institutions- Paper no II	
	1) Creates social solidarity and stability in society. 2) Assigned the function of social order and control. 3) Understand the social structure	1 Student will obtain a sociological understanding of diverse, social groups, organising and social institutions. 2 Social Institutions are usually conceived as the focuses of social organisation common to all societies.
3	B A F Y	
	Basic concepts in Sociology- Paper No. III	
	1) To think with society 2) Humanly created organization of inter relationships that connects individuals in common culture. 3) Sets of tradition: rules: symbols that shape and are enacted as feelings thoughts: and behaviours of groups of people.	1 To understand the basic concepts in Sociology and their fundamental theoretical inter relationship 2 Students will be able to define gives examples show inter relationships and demonstrate the relevance.
	B A F Y	
4	Contemporary social institutions- Paper No. IV	
	1) A definition of Contemporary Sociology: 2) Indian Sociology is a term that describes practitioners who use sociological theories and methods outside of academic setting with the aim to produce positive social change through active intervention.	1 Institution can refer to mechanism of social order, which the behaviour of set of individuals within a given community. 2 Moreover identified with social purpose, transcending individuals and intention by mediation in the rules that govern living behaviour. 3 Debates about the social impact of sociology have been historically centred.
	B A S Y	
5	Indian society structure and change- Paper No. V	
	1) Student should be to structure of the Indian society and changing aspects. 2) Student also known as the goal must be unity not uniformity. 3) The feeling of the each religious group are the	1 Sociologist are typically motivated the desire to better understand the principle of social life and by the conviction that understanding these principles may laid in the formulation of eblighted and effective social policy.

	same. 4) The bond of Unity in relation to Indian heritage in a certain underlying uniformity of life, have been reflected in the observations of many foreigners also.	2 This course gives insights about social changes in Indian society.
	B A S Y	
6	Human rights and Social Justice- Paper No. VI	
	1) students will understand what are the human rights and what is the meaning of social justice and its necessity 2) Students also develop an understanding of challenges to human rights and social justice. 3) At the end of the course students will understand how human rights can be used as a practice tool to support them	1 The issues that make Social Justice difficult to achieve such as poverty, exclusion and discriminations are indirect contradiction with human rights, which apply to all individuals indiscriminately. 2 Can help to fight indignity. 3 Human Rights provide legal Framework that allows individuals to hold government to account and requires the state to conditions necessary for the achievement for Social Justice.
	B A S Y	
7	Personality development- SEC	
	1) To enhance and groom one's outer and inner self about a positive change in students life. 2) The course aims to basic awareness about significance skill Enhancement 3) To help the student Be positive, Increase and improve self confidence,	1 This course will polish students presentation and communication skill and proper to successful career. 2 Apply the understanding of communication skill into everyday practice and understanding the importance of human life.
	B A S Y	
8	Issues and problems in Indian society-VII	
	1) Sensitize the students to the emerging social issues and prob 2) Enable the students to acquire sociological understanding of these issues and problems and deals with the real fact. 3) The aim is to introduce the concepts, theories and case studies that seek to clarify social issues and social problems. 4) to identify and analyse come of such emerging social issues and problems from sociological perspective.	1 A social issue is problem that influences many citizens within a society and one that many people strive to solve. 3After studying third course students should able to understand the consequences or factors. 3 Demonstrate how certain social contrition become dominant. 4 Distinguish how labelling something can create expression about behaviour and action.
	B A S Y	
9	Neo social moments- Paper no. VIII	
	1) Neo-Social Movements Concentrate on the grassroots level with the aim to the represent the interests of marginal or exclude groups. 2) To promote understanding of the common groups and shared goals. 3) To consider the strategic value for movements. 4) To provide spaces and opportunities for movement.	1 The knowledge obtained in this social movement was valuable because they could use it for the cause. 2 Social movements play such an important role in bringing about social changes in political, religious, educational, health, corporate, Government and other social institutional areas. 3 Social movements more rewarding than other learning outcomes because the outcomes includes a direct impact on social change.
	B A S Y	
10	Time management	
	1) Time Management course students will learn achieve better results. Through effective planning and clarifying objectives and Importance of Goal in Life 2) To learn the skill of time management	1 Students understanding the how to set specific miserable action oriented realistic and timely goals. 2 students works forward accomplishing those goals by Self reflection and self monitoring.
	B A T Y	
11	Western sociological thinkers- Paper No. IX	

	<p>T1) o introduce with western social thinkers understand their analysis and build up student's own ideas.</p> <p>2) How to students sociology is different from other social sciences also studying about development stages of sociology.</p> <p>3) It is intended to cover those who have made substantive contributions to social theory and research, including any sociology with sub field.</p>	<p>1 This course is to provide to the sociology students with the understanding of sociological theory.</p> <p>2 This course train students for the application of this theories to social stipulations. acquittance with the writing of these four thinkers.</p> <p>3 The equip students with theoretical insights to know analysis and interpret scenario around them.</p> <p>4 An attempt to familiarize with the different sociological perspectives and theories.</p>
	B A T Y	
12	Methods of social research- Paper No. X	
	<p>1) To understanding of the nature of social phenomena.</p> <p>2) The issue involved in social research and the ways and means of understanding and studying social reality.</p> <p>3) Learn how to study of research methods as a means of understanding social reality.</p> <p>4) Identify the tools and techniques of social research</p> <p>5) Learn the different perspectives and methods (as a quantitative and qualitative research) of understanding social phenomena,</p>	<p>1 The course has importance in the field of sociological research.</p> <p>2 Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.</p> <p>3 Course has major aim to provide basic add fundamental knowledge of research methodology.</p> <p>4 This paper provides conceptual objectives, tools and techniques of research methodology.</p>
	B A T Y	
13	Social counselling - SEC	
	<p>1) To introduce social counselling in sociology</p> <p>2) Elaborate the Significance; social counselling</p> <p>3) counselling to the individuals for social progress and development.</p> <p>4) This course consists of important and primary methods of counselling such as case work, group work and community work.</p> <p>5) The aim of this course is to provide tools and techniques to the students for social counselling.</p>	<p>1 Counselling help students to Beed skills, they can use in solving their problems.</p> <p>2 Counselling is important because it gives the opportunity and offer a possible benefits which can enhance person life.</p>
	B A T Y	
14	Modern sociological thoughts in India- Paper No. XI	
	<p>1) This course will help student to introduce with modern Indian Social Thinkers to understand their thoughts and build your own ideas.</p> <p>2) Basic objective of this course is to percolate and develop the philosophy and principles, to disseminate the constitutional literacy at grass root level of society,</p> <p>3) following multidisciplinary approach of thinking for getting solution of social problems.</p>	<p>1 This course has importance of understanding the thoughts of modern social reforms of Indian society.</p> <p>2 This course aims the students of sociology towards the ideas, views and thoughts of the modern makers of the Indian society.</p> <p>3 This course would help to enlighten the understanding of contemporary issues and challenges of the country. This understanding which develops and build up capacities of the young generation of the country.</p>
	B A T Y	
15	Techniques of social research- Paper No. XII	
	<p>1) This course aims to provide an understanding of the nature of social phenomena.</p> <p>2) The issue involved in social research and the ways and means of understanding and studying social reality.</p> <p>3) The study of research methods as a means of understanding social reality.</p> <p>Identify the tools and techniques as instruments of social research</p>	<p>1 This course has importance in the field of social research</p> <p>2 Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of the students.</p> <p>3 This course has major aims to provide basic and fundamental knowledge of research methodology.</p>

	4) Increase different perspectives and methods	
	B A T Y	
16	Social counselling- SEC	
	1) To introduce social counselling in sociology 2) Elaborate the Significance; social counselling 3) Counseling to the individuals for social progress and development. 4) This course consists of important and primary methods of counselling such as case work, group work and community work.	1 This course help students to build up skills they can use it in solving their problems. 2 Counselling is important because it gives the opportunity and offer a possible benefits which can enhance person life.
	B A T Y	
17	Classical sociological thinkers- Paper No. IX	
	1) To introduce with western social thinkers understand their analysis and build up student's own ideas. 2) How to students sociology is different from other social sciences also studying about development stages of sociology. 3) It is intended to cover those who have made substantive contributions to social theory and research, including any sociology with sub field.	1 Students is able to understand the theoretical knowledge of society. 2 With the help of these theoretical knowledge gets the benefits of removal all biases. 3 This theoretical knowledge gives the eyesight to the students to observing the society with scientific view. 4 This theoretical knowledge helpful in the development of society.
	B A T Y	
18	Social counselling- SEC	
	1) To introduce social counselling in sociology 2) Elaborate the Significance; social counselling 3) Counseling to the individuals for social progress and development. 4) This course consists of important and primary methods of counseling such as case work, group work and community work.	1 This course help students to build up skills they can use it in solving their problems. 2 Counselling is important because it gives the opportunity and offer a possible benefits which can enhance person life.
	B A T Y	
19	Methods of social research- Paper No. X	
	1) This course aims to provide an understanding of the nature of social phenomena. 2) The issue involved in social research and the ways and means of understanding and studying social reality. 3) The study of research methods as a means of understanding social reality.	1 This course has importance in the field of social research 2 Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of the students. 3 This course has major aims to provide basic and fundamental knowledge of research methodology.
	B A T Y	
20	Indian social reformer- Paper No. XI	
	This course will help students to introduce the contribution of social reforms, Knowing their contribution would motivate students for the course of social reforms. this course has aim to inculcate the philosophy and thought of Chhatrapati Shivaji Maharaj, Mahatma Jyotirao Phule, Rajasrshi Shahu Maharaj and Dr. Babasaheb Ambedkar on the minds of students. the major aim and objective of this course is to motivate students and make them able to follow these thoughts in their life.	1 Students able to understand advantages of social reform. 2 Students abele understand the contribution of our past eminent personalities. 3 Students gets the knowledge of removing social evils from society. 4 This paper gets the benefits of removing all the social basis, social evils and harmful traditions.
	B A T Y	
21	Social Counselling- SEC	
	1) To introduce social Counseling in sociology	

	<p>2) Elaborate the significance; social counselling</p> <p>3) counselling to the individuals for social progress and development.</p> <p>4) This course consists of important and primary methods of Counseling such as case work, group work and community work.</p>	<p>can use it in solving their problems.</p> <p>2 Counselling is important because it gives the opportunity and offer a possible benefits which can enhance person life.</p>
	B A T Y	
22	Techniques of social research- Paper No. XII	
	<p>1) This course aims to provide an understanding of the nature of social phenomena.</p> <p>2) The issue involved in social research and the ways and means of understanding and studying social reality.</p> <p>3) The study of research methods as a means of understanding social reality.</p>	<p>1 This course has importance in the field of social research</p> <p>2 Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of the students.</p> <p>3 this course has major aims to provide basic and fundamental knowledge of research methodology.</p>

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Course outcome 2019-20

B.Sc. F.Y. Botany (semester Ist)

Paper Name and No.: Viruses, Bacteria, Algae, Fungi, Lichens and Mycorrhiza- I

After then successful completion of this course

1. Students will recognize and identified diversity of lower cryptogams.
2. Students will collect and study the samples from different locations of algae, fungi, bacteria and viruses.
3. Students to collect various samples of plant diseases, algae, fungi, etc.
4. Students visited to field and discuss with famers about the problems.
5. Students knows about the economic importance and types of lichens.

Paper Name and No.: Plant Ecology and Phytogeography- II

After then successful completion of this course.

1. Students are able to analyze various types of ecosystem and they can correlate different ecosystem.
2. Students will analyze types, causes and control measures of different type of pollution.
3. Students can identify types of plants on basis of their habitat. They can identify them on the basis of adaption (Morphological and anatomical adaption) & categories them in to respected plant groups.
4. Students can identify biogeographic regions of India on the basis of flora.

B.Sc. F.Y. Botany (semester IInd)

Paper Name and No.: Bryophytes, Pteridophytes, Gymnosperm and Paleobotany - III

After then successful completion of this course.

1. Students are identified and recognize various types of paleobotany.
2. Students known about structure and importance of gymnosperm.
3. The students are identified various members of Bryophytes and its importance.
4. Students identified to members of pteridophytes and its importance.

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Paper Name and No.: Taxonomy of Angiosperm- IV

After then successful completion of this course.

1. Students are identified to various plants morphology.
2. Students are known about the plants reproductive structures.
3. Students are able and made the various models of ovules.
4. Students are known the differences between various families.
5. Students are recognize economic importance of plants.

Paper Name and No.: Practicle Paper Based on Theory - V

After then successful completion of this course.

1. Students identified various microbes as a practically.
2. Students completed cell division and types practically.
3. Students identified to bryophytes, pteridophytes and algae practically.

B.Sc. Second Year Botany (semester IIIrd)

Paper Name and No.: Plant Anatomy – VI

After then successful completion of this course.

1. Students are recognize about the histology of plants and their structures.
2. Students are known about the various types of tissues in plants.
3. Students are identified the anatomical structures of plants.
4. Students are identified various types of ovule in plants.
5. Students identified the types of embryos.

Paper Name and No.: Plant Physiology and Biochemistry- VII

After then successful completion of this course.

1. Students analyze contain of water and its importance.
2. Students studied different physicochemical processes.
3. Students studied role and deficiency of elements in plants.
4. Students studied growth and development of in plants and hormones.

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B.Sc. Second Year Botany (semester IVth)

Paper Name and No.: Plant Embryology - VIII

After then successful completion of this course.

1. Students are known about the various embryologist and their thinks.
2. Students are known about reproductive organs of plants.
3. Students are known about adaptations in pollination.
4. Students are known about the models of ovule.
5. Students are identified types of endosperms and apomixies.

Paper Name and No.: Plant Metabolism and Biochemistry- IX

After then successful completion of this course.

1. Students are known about the physiological processes in plants.
2. Students are known about the respiration process.
3. Students are identified mechanism of enzymes in plants.
4. Students are known about the biotechnology.
5. Students made to tissue culture as professionally
6. Students are known about the tools and techniques of biotechnology

Paper Name and No.: Practical paper based on theory - X

After then successful completion of this course.

1. Students are identified morphological and anatomical structure of plant practically.
2. To made permanant slide of plants.
3. Students are studied various reproductive parts of gymnosperm.
4. Students are studied to paleobotanical slides.
5. Students collected various samples of plants from different places.

Paper Name and No.: Practical paper based on theory - XI

After then successful completion of this course.

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Paper Name and No.: Practical paper based on theory - XI

After then successful completion of this course.

1. Students to made models and charts of tissues.
2. Students studied anatomical features of the plants.
3. Students studied biomass in ecosystem.
4. Students studied ecological adaptation in plants.

SECB – IA and SECB – IIB

After then successful completion of this course.

1. Students studied different types of medicinal plants.
2. Students to made byproducts of plants as a professionally.
3. Students made a syrup from medicinal plants.
4. Students cultured biocontrol as a trichoderma.
5. Students studied to pesticides and fungicides.

B.Sc. third Year Botany (semester Vth)

Paper Name and No.: Cell and Molecular Biology - XII

After then successful completion of this course.

1. Students are able to analyze various types of cells and their functions.
2. Students identified the numbers of cell organelles.
3. Students are identified chromosomes and their types.
4. Students are recognize cell division in plants.
5. Students made DNA structure model and identified.
6. Students identified the structure and mutation of genes.

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Paper Name and No.: Plant Pathology- (I) XIII

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

B.Sc. Third Year Botany (Semester VIth)

Paper Name and No.: Genetics and Plant Breeding- XIV

After then successful completion of this course.

1. Students known about the laws of mendels.
2. Students are write on ratios of various genes.
3. Students known about sex linked inheritance in man.
4. Students identify in human syndromes.
5. Students identified various methods of plant breeding and their objectives.
6. Students analyze male sterility and genetic sterility.

Paper Name and No.: Plant Pathology –(II) XV

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

Paper Name and No.: Practical paper – XVI and XVII based on theory

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Paper Name and No.: Practical paper – XVI and XVII based on theory

After then successful completion of this course.

1. Students studied to aerobiological spores.
2. Students studied to methods of treatments (seed).
3. Students studied biochemical defense in plants.
4. Students studied to various types of pathogens and plant diseases.
5. Students studied DNA technology.
6. Students gain knowledge about of cloning transgenic plant, gene transfer in plants.
7. Students gain knowledge about the field crops and discuss with farmers.

SECB – IIIA and SECB – IVA

After then successful completion of this course.

1. Students made fruits and vegetables biproducts.
2. Students applied professional technology and operate various machines.
3. Students to made juices, syrups and byproducts professionally.
4. Students made to ready professionally as manufacturing of wine, pickles, paste and toffy.
5. Students studied to flory culture.
6. Students analyze to soils, manures, fertilizers, irrigation techniques.
7. Students apply cultural and chemical plant protections.

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Course outcome 2020-21

B.Sc. F.Y. Botany (semester Ist)

Paper Name and No.: Viruses, Bacteria, Algae, Fungi, Lichens and Mycorrhiza- I

After then successful completion of this course

1. Students will recognize and identified diversity of lower cryptogams.
2. Students will collect and study the samples from different locations of algae, fungi, bacteria and viruses.
3. Students to collect various samples of plant diseases, algae, fungi, etc.
4. Students visited to field and discuss with famers about the problems.
5. Students knows about the economic importance and types of lichens.

Paper Name and No.: Plant Ecology and Phytogeography- II

After then successful completion of this course.

1. Students are able to analyze various types of ecosystem and they can correlate different ecosystem.
2. Students will analyze types, causes and control measures of different type of pollution.
3. Students can identify types of plants on basis of their habitat. They can identify them on the basis of adaption (Morphological and anatomical adaption) & categories them in to respected plant groups.
4. Students can identify biogeographic regions of India on the basis of flora.

B.Sc. F.Y. Botany (semester IInd)

Paper Name and No.: Bryophytes, Pteridophytes, Gymnosperm and Paleobotany - III

After then successful completion of this course.

1. Students are identified and recognize various types of paleobotany.
2. Students known about structure and importance of gymnosperm.
3. The students are identified various members of Bryophytes and its importance.
4. Students identified to members of pteridophytes and its importance.

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Paper Name and No.: Taxonomy of Angiosperm- IV

After then successful completion of this course.

1. Students are identified to various plants morphology.
2. Students are known about the plants reproductive structures.
3. Students are able and made the various models of ovules.
4. Students are known the differences between various families.
5. Students are recognize economic importance of plants.

Paper Name and No.: Practicle Paper Based on Theory - V

After then successful completion of this course.

1. Students identified various microbes as a practically.
2. Students completed cell division and types practically.
3. Students identified to bryophytes, pteridophytes and algae practically.

B.Sc. Second Year Botany (semester IIIrd)

Paper Name and No.: Plant Anatomy – VI

After then successful completion of this course.

1. Students are recognize about the histology of plants and their structures.
2. Students are known about the various types of tissues in plants.
3. Students are identified the anatomical structures of plants.
4. Students are identified various types of ovule in plants.
5. Students identified the types of embryos.

Paper Name and No.: Plant Physiology and Biochemistry- VII

After then successful completion of this course.

1. Students analyze contain of water and its importance.
2. Students studied different physicochemical processes.
3. Students studied role and deficiency of elements in plants.
4. Students studied growth and development of in plants and hormones.

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B.Sc. Second Year Botany (semester IVth)

Paper Name and No.: Plant Embryology - VIII

After then successful completion of this course.

1. Students are known about the various embryologist and their thinks.
2. Students are known about reproductive organs of plants.
3. Students are known about adaptations in pollination.
4. Students are known about the models of ovule.
5. Students are identified types of endosperms and apomixies.

Paper Name and No.: Plant Metabolism and Biochemistry- IX

After then successful completion of this course.

1. Students are known about the physiological processes in plants.
2. Students are known about the respiration process.
3. Students are identified mechanism of enzymes in plants.
4. Students are known about the biotechnology.
5. Students made to tissue culture as professionally
6. Students are known about the tools and techniques of biotechnology

Paper Name and No.: Practical paper based on theory - X

After then successful completion of this course.

1. Students are identified morphological and anatomical structure of plant practically.
2. To made permanant slide of plants.
3. Students are studied various reproductive parts of gymnosperm.
4. Students are studied to paleobotanical slides.
5. Students collected various samples of plants from different places.

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Paper Name and No.: Practical paper based on theory - XI

After then successful completion of this course.

1. Students to made models and charts of tissues.
2. Students studied anatomical features of the plants.
3. Students studied biomass in ecosystem.
4. Students studied ecological adaptation in plants.

SECB – IA and SECB – IIB

After then successful completion of this course.

1. Students studied different types of medicinal plants.
2. Students to made byproducts of plants as a professionally.
3. Students made a syrup from medicinal plants.
4. Students cultured biocontrol as a trichoderma.
5. Students studied to pesticides and fungicides.

B.Sc. third Year Botany (semester Vth)

Paper Name and No.: Cell and Molecular Biology - XII

After then successful completion of this course.

1. Students are able to analyze various types of cells and their functions.
2. Students identified the numbers of cell organelles.
3. Students are identified chromosomes and their types.
4. Students are recognize cell division in plants.
5. Students made DNA structure model and identified.
6. Students identified the structure and mutation of genes.

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Paper Name and No.: Plant Pathology- (I) XIII

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

B.Sc. Third Year Botany (Semester VIth)

Paper Name and No.: Genetics and Plant Breeding- XIV

After then successful completion of this course.

1. Students known about the laws of mendels.
2. Students are write on ratios of various genes.
3. Students known about sex linked inheritance in man.
4. Students identify in human syndromes.
5. Students identified various methods of plant breeding and their objectives.
6. Students analyze male sterility and genetic sterility.

Paper Name and No.: Plant Pathology -(II) XV

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

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Paper Name and No.: Practical paper – XVI and XVII based on theory

After then successful completion of this course.

1. Students studied to aerobiological spores.
2. Students studied to methods of treatments (seed).
3. Students studied biochemical defense in plants.
4. Students studied to various types of pathogens and plant diseases.
5. Students studied DNA technology.
6. Students gain knowledge about of cloning transgenic plant, gene transfer in plants.
7. Students gain knowledge about the field crops and discuss with farmers.

SECB – IIIA and SECB – IVA

After then successful completion of this course.

1. Students made fruits and vegetables biproducts.
2. Students applied professional technology and operate various machines.
3. Students to made juices, syrups and byproducts professionally.
4. Students made to ready professionally as manufacturing of wine, pickles, paste and toffy.
5. Students studied to flory culture.
6. Students analyze to soils, manures, fertilizers, irrigation techniques.
7. Students apply cultural and chemical plant protections.

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Course outcome 2021-22

B.Sc. F.Y. Botany (semester Ist)

Paper Name and No.: Viruses, Bacteria, Algae, Fungi, Lichens and Mycorrhiza- I

After then successful completion of this course

1. Students will recognize and identified diversity of lower cryptogams.
2. Students will collect and study the samples from different locations of algae, fungi, bacteria and viruses.
3. Students to collect various samples of plant diseases, algae, fungi, etc.
4. Students visited to field and discuss with famers about the problems.
5. Students knows about the economic importance and types of lichens.

Paper Name and No.: Plant Ecology and Phytogeography- II

After then successful completion of this course.

1. Students are able to analyze various types of ecosystem and they can correlate different ecosystem.
2. Students will analyze types, causes and control measures of different type of pollution.
3. Students can identify types of plants on basis of their habitat. They can identify them on the basis of adaption (Morphological and anatomical adaption) & categories them in to respected plant groups.
4. Students can identify biogeographicle regions of India on the basis of flora.

B.Sc. F.Y. Botany (semester IInd)

Paper Name and No.: Bryophytes, Pteridophytes, Gymnosperm and Paleobotany - III

After then successful completion of this course.

1. Students are identified and recognize various types of paleobotany.
2. Students known about structure and importance of gymnosperm.
3. The students are identified various members of Bryophytes and its importance.
4. Students identified to members of pteridophytes and its importance.

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Paper Name and No.: Taxonomy of Angiosperm- IV

After then successful completion of this course.

1. Students are identified to various plants morphology.
2. Students are known about the plants reproductive structures.
3. Students are able and made the various models of ovules.
4. Students are known the differences between various families.
5. Students are recognize economic importance of plants.

Paper Name and No.: Practicle Paper Based on Theory - V

After then successful completion of this course.

1. Students identified various microbes as a practically.
2. Students completed cell division and types practically.
3. Students identified to bryophytes, pteridophytes and algae practically.

B.Sc. Second Year Botany (semester IIIrd)

Paper Name and No.: Plant Anatomy – VI

After then successful completion of this course.

1. Students are recognize about the histology of plants and their structures.
2. Students are known about the various types of tissues in plants.
3. Students are identified the anatomical structures of plants.
4. Students are identified various types of ovule in plants.
5. Students identified the types of embryos.

Paper Name and No.: Plant Physiology and Biochemistry- VII

After then successful completion of this course.

1. Students analyze contain of water and its importance.
2. Students studied different physicochemical processes.
3. Students studied role and deficiency of elements in plants.
4. Students studied growth and development of in plants and hormones.

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B.Sc. Second Year Botany (semester IVth)

Paper Name and No.: Plant Embryology - VIII

After then successful completion of this course.

1. Students are known about the various embryologist and their thinks.
2. Students are known about reproductive organs of plants.
3. Students are known about adaptations in pollination.
4. Students are known about the models of ovule.
5. Students are identified types of endosperms and apomixies.

Paper Name and No.: Plant Metabolism and Biochemistry- IX

After then successful completion of this course.

1. Students are known about the physiological processes in plants.
2. Students are known about the respiration process.
3. Students are identified mechanism of enzymes in plants.
4. Students are known about the biotechnology.
5. Students made to tissue culture as professionally
6. Students are known about the tools and techniques of biotechnology

Paper Name and No.: Practical paper based on theory - X

After then successful completion of this course.

1. Students are identified morphological and anatomical structure of plant practically.
2. To made permanent slide of plants.
3. Students are studied various reproductive parts of gymnosperm.
4. Students are studied to paleobotanical slides.
5. Students collected various samples of plants from different places.

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Paper Name and No.: Practical paper based on theory - XI

After then successful completion of this course.

1. Students to made models and charts of tissues.
2. Students studied anatomical features of the plants.
3. Students studied biomass in ecosystem.
4. Students studied ecological adaptation in plants.

SECB – IA and SECB – IIB

After then successful completion of this course.

1. Students studied different types of medicinal plants.
2. Students to made byproducts of plants as a professionally.
3. Students made a syrup from medicinal plants.
4. Students cultured biocontrol as a trichoderma.
5. Students studied to pesticides and fungicides.

B.Sc. third Year Botany (semester Vth)

Paper Name and No.: Cell and Molecular Biology - XII

After then successful completion of this course.

1. Students are able to analyze various types of cells and their functions.
2. Students identified the numbers of cell organelles.
3. Students are identified chromosomes and their types.
4. Students are recognize cell division in plants.
5. Students made DNA structure model and identified.
6. Students identified the structure and mutation of genes.

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Paper Name and No.: Plant Pathology- (I) XIII

After then successful completion of this course.

1. Students can identified diversity of fungi belonging to the different classes.
2. Students will able to identify plant diseases of local crops.
3. Students will analyze types, causes and control measures of plant diseases.
4. Students can cultivate fungi for food fermentation and microbial products.
5. Students will gain knowledge about fungicides.

B.Sc. Third Year Botany (Semester VIth)

Paper Name and No.: Genetics and Plant Breeding- XIV

After then successful completion of this course.

1. Students known about the laws of mendels.
2. Students are write on ratios of various genes.
3. Students known about sex linked inheritance in man.
4. Students identify in human syndromes.
5. Students identified various methods of plant breeding and their objectives.
6. Students analyze male sterility and genetic sterility.

Paper Name and No.: Plant Pathology -(II) XV

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Paper Name and No.: Practical paper – XVI and XVII based on theory

After then successful completion of this course.

1. Students studied to aerobiological spores.
2. Students studied to methods of treatments (seed).
3. Students studied biochemical defense in plants.
4. Students studied to various types of pathogens and plant diseases.
5. Students studied DNA technology.
6. Students gain knowledge about of cloning transgenic plant, gene transfer in plants.
7. Students gain knowledge about the field crops and discuss with farmers.

SECB – IIIA and SECB – IVA

After then successful completion of this course.

1. Students made fruits and vegetables biproducts.
2. Students applied professional technology and operate various machines.
3. Students to made juices, syrups and byproducts professionally.
4. Students made to ready professionally as manufacturing of wine, pickles, paste and toffy.
5. Students studied to flory culture.
6. Students analyze to soils, manures, fertilizers, irrigation techniques.
7. Students apply cultural and chemical plant protections.

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DEPARTMENT OF HISTORY

PROGRAMME OUTCOME

Student seeking admission for B.A. programmer is expected to instil with following quality which helps them in their future life to achieve the expected goal.

- Realization of Human values.
- Sense of social service.
- Responsible and dutiful citizen.
- Critical temper.
- Creative ability.

Programme Outcomes:

- Making the sense of good relationships.
- Understanding the cultural and historical knowledge of Indian society.
- Increasing interest in Political Institute.
- Improving physical health.
- Developing the linguistic skills.
- Economic development of society

History

- Getting the introduction about ancient Indian culture and heritage from ancient Indian history.
- Helping to understand about medieval Indian culture, path as well as cultural and political heritage from medieval Indian history.
- Getting the importance of British Empire for the development of science and education.
- Getting the introduction about the work of social reformers of Maharashtra while understanding the social and religious movements.
- Understanding the Indian freedom movement and Indian constitution from history of modern India.

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Course Outcomes of History

The Course Study of History Subject at - U.G. Level has a Wide Sphere of Aims and Outcomes.

The main Aims outlined for history teaching are :

- 1 .To promote the understanding of human development and Social Change
- 2 .To understand the process of Evolution of Human Life.

The outcomes of U.G. Course are as follows: Students who complete. B.A Degree with History Subject Might Come up with the following outcomes.

1. To know the basic Historical Elements.
2. To understand the importance of Sources.
3. To understand the ideas of History.
4. To Compile the Appropriate knowledge of Historical Events. .
5. To Analyze the Historical Events with Times and Places.
6. To articulate the factual Knowledge of. History
7. To understand the past Events regarding the advancement of society Future.
8. Students will understand the basic Skills that historians use in Research.
9. Students will understand the basic tools of Historical Analysis.

Outcomes of U.G. B.A. Course With History

Paper I &III :- History of Ancient India (up to 647 A.D.)

1. Students of History will acquire knowledge regarding religious and social life and cultural status of the people of Ancient India.
2. Students can understand the Society, Culture, Religion and economic life ancient India
- 3 Students will understand of the origin of the indian empire, trade and urbanizations of ancient civilization, like Harappa civilization, Vedic Civilizations, later Vedic civilizations, later Vedic civilizations and

Religious movements.

4. Students can understand the Human evolution & stages Stone age to ancient period.

Paper II&IV History of India (648 to 1526 AD)

1 Students will learn the emergence of Various dynasties & consolidation of regional Dynasties

2. Students also acquire the knowledge about the Changing Scenarios of the urban and rural societies after consolidation of the rules of the southern Dynasties and Satvahana, Rashtrakuta, Chalukya, Yadava and rajput dynasties.

3.They can learn about the activities of Vijaynagar Empire and Delhi Sultanate I

4.Students will know the process of formation of mughal dynasty.

Paper V&VII: Chhatrapati Shivaji and His Times (1630-1670) AD

1. Students will Know the Socio-economic, Cultural and Political background of 17th century Maharashtra.

2. Students will understand the Literary and Archaeological Sources of the Maratha History.

3 Students will Know the Establishment of Maratha swarajya.

4 Students will understand the political and social advancement of Chhatrapati Shivaji Maharaj.

Paper VI&VIII History of India (1526 AD to 1770 AD)

1. The students will know the expansion of Mughal Dynasty

2. Students will know the cultural development in Mughal Empire 3. Students will know the contribution of British Governor Generals.

4. Students will know the British Rule.

Paper IX&XI: Modern India (1857 to 1947 AD)

1. To enhance the Historical Interest among the students.

2. Students will be able to analyze the process of rise of modern India. 3 Students will know the freedom struggle of India.

4. Students will be able to categorize different schools of thoughts

Paper X&XII:- Social Reformers in Maharashtra & Renaissance Movement.

1 Students will be aware about the Social Reformers of Maharashtra.

2 Students will get the knowledge about the contribution of social Reformers.

3 Students will be inculcated with the values of Social Harmony and devotion.

4. Students will be known about the Social Institutions.

Paper IX & XI History of Modern India

1. To introduce Indian Freedom Struggle Movements in broad manner.

2. To instill the spirit of nationalism among students.

3. Make the students responsible Citizen of the nation.
4. To inculcate moral qualities like Freedom, Unity, Fraternity, Equality in students.
5. To make the students aware of criticizing.

**Outcomes of the Skill Enhancement Course at U.G. Level B.A II- Tourism
Paper I&II**

The Students will enriched with the understanding of the Tourism.
To conserve the historical monuments through Awareness in Students.
Students will be able for the getting jobs ni Tourism Sector.
To make awareness about the Historical Heritage of
India.

B.A. III Appreciation of Art PaperIII IV

To introduce to the Students with Indian Art
To understand the various forms of Indian Art.
Students will be able for careers in Tourism and Archaeology.
To give wide Exposure of the understanding above the conservation of Historical Sites.

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Course Outcomes

B.A. Economics

- Economics is the subject of social science. Economics graduate students will be able to understand finance activity to gain a better understanding of how production distribution and consumption of goods and services can be exchanged in an economy.
- Economics graduate students will be able to demonstrate knowledge of the laws of supply and demand and equilibrium and apply the supply and demand model to analyze responses of markets to external events.
- After became economics graduate students will be able to understand and explain the basic concepts of economics.
- The students will be able to understand the basic features of the economy. The students also are able to understand the problems related agriculture, industries service, cooperative sector and infrastructure in the economy.
- The course is helpful to study other branches of economics and research. The course will be useful for the students to understand Data analysis, Estimation and inference since the course is best on the techniques of statistics and quantitative techniques.
- Micro and Macro Economics is designed to make undergraduate student aware of the basic theoretical framework underlying the field of micro and macro economics.
- This course aims to develop the board conceptual frameworks, which will enable-students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages.

- Students will be able to understand the banking systems in existence and how they are structured. The course explains the relative importance of new modes of payments (cashless) in transactions. Students also able to understand the basic concept of financial inclusion and financial literacy.
- In the contemporary world with globalization and liberalization more and more attention is being given to industry. Students will be able to understand the basic characteristics of Indian economy and its potential on natural resources. understand the challenges of Indian economy.
- Through the department, students are helped to face competitive exams and acquire the knowledge required for employment, through which students become good citizens.

COURSE OUTCOMES SUBJECT OF MARATHI

मराठी विभाग

बी.ए., बी.कॉम., बी.एससी. पदवी प्रथम वर्ष

द्वितीय भाषा - मराठी (Second Language)

सत्र - पहिले MAR- S.L. - I अभ्यासपत्रिका - पहिली 'अक्षरलेणी'

1. मध्ययुगीन व आधुनिक गद्य-पद्य वाङ्मयाचा परिचय.
2. मराठीतील वाङ्मयप्रकारांची ओळख.
3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणा संबंधी आकलन.इ
4. मराठी भाषेतील व्याकरणाचे उपयोजन.
5. भाषाज्ञान.

सत्र - दुसरे MAR- S.L. - II अभ्यासपत्रिका - दुसरी 'साहित्यशिल्प'

1. मराठी भाषेच्या उपयोजनाशी परिचय होईल.
2. मराठी साहित्याची ओळख होईल.
3. गद्य आणि पद्य यातील विविध प्रकारांचा परिचय होईल.
4. मराठी भाषेच्या प्रमाण लेखनाची ओळख होईल.
5. जीवनमूल्ये व कलामूल्ये यांच्याशी परिचय होईल.

बी. ए. प्रथम वर्ष मराठी (ऐच्छिक)

सत्र - पहिले MAR- I अभ्यासपत्रिका - पहिली: आधुनिक मराठी कथा वाङ्मय

- 1) कथा वाङ्मयाच्या विविध प्रकारांची ओळख
- 2) विद्यार्थ्यांची कथात्मकदृष्टी विकसित करणे.
- 3) साहित्यअभिरुचीच्या आकलनक्षमता रुंदावणे.
- 4) भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचा विकास करणे.
- 5) मराठीच्या विविध बोलींचा परिचय.

MAR- II अभ्यासपत्रिका - दुसरी : मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय -II

- 1) वाङ्मयीन व भाषिक आकलनक्षमता वाढविणे.
- 2) कालानुक्रमे अभ्यास घटकांद्वारे अध्ययन सुलभता निर्माण करणे.
- 3) मध्ययुगीन आणि आधुनिक काळखंडातील कवितेच्या विचारधारा समजून घेणे.
- 4) कविता अभ्यासाच्या आणि लेखनाच्या अभिरुची विकसित करणे.

5) काल्पनिक वाङ्मयाचा परिचय घडविणे.

सत्र - दुसरे

MAR- III अभ्यासपत्रिका - तिसरी : मराठी कथात्मक साहित्य

- 1) महाभारतकाव्याच्या व्याख्यात्मकतेचा प्रेरणा.
- 2) मालवी मूल्यांची कलकल करणे.
- 3) आत्मकथांवर, चरित्रावर, प्रवासवर्णनांवर व इतर कथात्मक साहित्य निर्मितीस प्रेरक वातावरण निर्मिती.
- 4) वाचन आणि लेखन अभिरुची वृद्धिंगत करणे.

MAR- IV अभ्यासपत्रिका - चौथी : आधुनिक मराठी कविता

- 1) आधुनिक मराठी कवितेचा परिचय.
- 2) काव्य प्रवाहातील प्रकटलेल्या मालवी मूल्यांचे आकलन.
- 3) कवितेचे रचनाप्रकार, भाषा आणि प्रतिमा शुद्धीचा अभ्यास.
- 4) मराठी काव्य प्रवाहातील वैचारिक अधिष्ठानाचा शोध.

बी.ए., बी.कॉम., बी.एससी. पाठवी द्वितीय वर्ष
द्वितीय भाषा - मराठी (Second Language)

सत्र - तिसरे MAR- S.L. - III अभ्यासपत्रिका - तिसरी 'अक्षरविद्या'

1. अक्षरसमृद्धी आणि आधुनिक गद्य-पद्य वाङ्मयाचा परिचय.
2. मराठीतील वाङ्मयप्रकाराची ओळख.
3. मराठी साहित्यनिर्मिती आणि त्याच्या प्रेरणा संधी आकलन.
4. मराठी भाषेतील व्याकरणाचे उपयोजन.

सत्र - चौथे MAR- S.L. - IV अभ्यासपत्रिका - चौथी 'साहित्यसारिता'

1. अक्षरसमृद्धी आणि आधुनिक गद्य-पद्य वाङ्मयाचा परिचय.
2. मराठीतील वाङ्मयप्रकाराची ओळख.
3. मराठी साहित्यनिर्मिती आणि त्याच्या प्रेरणा संधी आकलन.
4. मराठी भाषेतील व्याकरणाचे उपयोजन.

बी. ए. द्वितीय वर्ष मराठी (ऐच्छिक)

सत्र - तिसरे

MAR- V अभ्यासपत्रिका - पाचवी निवडक मराठी गद्य

- गद्य संकल्पनेचा परिचय.
- मानवी मूल्यांची रुजवण.
- आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर गद्य साहित्य निर्मितीची प्रेरणा देणे.
- वाचन आवि लेखन यांची अभिरुची वृन्धिगत करणे.
- मराठी साहित्याकडे वाचकांना आकर्षित करणे.

MAR- VI अभ्यासपत्रिका - सहावी मराठी नाट्यात्म साहित्य

- आधुनिक मराठी नाटकांचा परिचय.
- नाट्यप्रवाहातून प्रकटलेल्या मानवी मूल्यांचे आकलन.
- मराठी वाङ्मय प्रवाहाच्या स्वरूप आवि व्याप्तीचा मागोवा.
- नाट्यरचना, प्रकार, भाषा आणि प्रतिमा सृष्टीचा अभ्यास.
- मराठीनाट्य प्रवाहातील वैचारिक अधिष्ठानांचा शोध.

सत्र - चौथे

MAR- VII अभ्यासपत्रिका - सातवी निवडक कादंबरी वाङ्मय

- कादंबरी वाङ्मयाच्या विविध प्रकारांची ओळख होते.
- विद्यार्थ्यांची कथात्मक दृष्टी विकसित करणे.
- कादंबरी अध्ययनामुळे जीवन आकलनकक्षा रुंदावतात.
- भाषिक आणि वाङ्मयीन सौंदर्य दृष्टीचा विकास.
- मराठीच्या विविध बोलींचा परिचय.

MAR- VIII अभ्यासपत्रिका - आठवी वैचारिक साहित्य

- विचारधारांची ओळख.
- मानवी मूल्यांचे आकलन.
- भाषिक आणि वाङ्मयीन सौंदर्य दृष्टीचा विकास.
- विविध तत्त्वज्ञानाचा परिचय.
- सामाजिक प्रश्नांची ओळख.

बी. ए. तृतीय वर्ष मराठी

सत्र - पाचवे

MAR- IX अभ्यासपत्रिका - नववी मध्ययुगीन मराठी वाङ्मयाचाइतिहास

1. मध्ययुगीन मराठी साहित्याच्या प्रेरणा समजून घेणे.
2. मध्ययुगीन मराठी साहित्याचे स्वरूप, परंपरा आणि इतिहास यांचा परिचय.
3. मध्ययुगीन सामाजिक आणि सांस्कृतिक पार्श्वभूमीचा अभ्यास.
4. विविध संप्रदाय आणि त्यांच्या विचारधारा समजून घेणे.

MAR- X अभ्यासपत्रिका - दहावी साहित्यविचार

1. साहित्य दृष्टीकोनाचा विकास.
2. भारतीय साहित्यशास्त्राची ओळख.
3. पाश्चिमात्य साहित्य विचारांचा अभ्यास.
4. रस विचारांचे पायाभूत अभ्यास.

सत्र -सहावे

MAR- XI अभ्यासपत्रिका - अकरावी मध्ययुगीन मराठी वाङ्मयाचाइतिहास

1. मध्ययुगीन मराठी वाङ्मयनिर्मितीच्याप्रेरणासमजूनघेणे .
2. मध्ययुगीनमराठी वाङ्मयाचेस्वरूपपरंपरा व इतिहासयांचापरिचयदेणे.
3. मध्ययुगीनकालखंडातीलवाङ्मयाच्यासामाजिकतथासांस्कृतिकपार्श्वभूमीचाअभ्यासकरणे.
4. मध्ययुगीनकालखंडातीलविविधसंप्रदायाच्याविचारधारासमजूनघेणे.
5. मध्ययुगीनकालखंडातीलवाङ्मयाबद्दलअभिरुचीवाढविणे

MAR- XII अभ्यासपत्रिका - बारावीभाषाविज्ञान व व्याकरण

1. मराठी भाषेचीअभिरुचीवाढवणे
2. मराठी भाषेचेशास्त्रशुद्धस्वरूपसमजूनघेणे.
3. भाषेचेस्वरूपकार्यसमजूनसांगणे.
4. भाषिकपरिवर्तनाचीकारणनिमांसाशोधणे.
5. ऐतिहासिकभाषाविज्ञानाचापरिचयकरूनदेणे.
6. प्रयोगविचारविभक्तीविचारयांचाअभ्यासकरणे

Corporate Accounting

Course Outcomes:

1. The course is beneficial to understand the provision of company act 1956 regarding the preparation of accounts.
2. It is beneficial for students to move in to advance areas i.e. C.A, I.C.W.A, CS etc
3. It could help graduates to work as financial analyst, HRM officers.
4. It provides the knowledge of differentiating the profit prior and post Incorporation.
5. It provides the basic concept of knowledge of buyback, for features of shares.

Cost Accounting

Course Outcomes:

On completion of this course students will be capable for

1. The selection of the appropriate cost accounting and their impact on the business policy.
2. The determination of cost as per element per unit of production.
3. The Identification and control of cost of production.
4. Becoming a superior Cost accountant and cost analyst.

Principles of Business Management

Course Outcomes:

1. Successfully completion of this course, students will be able to understand the Managerial functions.
2. To understand the way of implementation of the planning process within the organization.
3. It would help the students to clarify the basic and fundamental concepts of the management systems.
4. To illustrate the ability to directly leading and communicating effectively.
5. It would be useful for analyzing, evaluating and synthesizing the information of management.

Mercantile Law

Course outcomes:

Students will be able to apply and follow the rules and regulations as per the various business and mercantile laws.

Fundamentals of Income Tax

Course Outcomes:

1. After Completion of course students will be capable to describe the provisions in the corporate tax law which can be used for tax planning.
2. Students can well define the residential status of the assets.
3. Student of the course will be able to explain different type of income of their tax liabilities, expenses and their deduction ability.
4. Students who complete their course will be able to learn various direct and indirect taxes and their implications
5. Students of the course will be able to state the use of various deduction to reduce the taxable income.
6. Student will be capable of choosing a career to become a Tax consultant.

Management Skills

Outcomes :

After acquired the skills of management students be capable

- 1 Improve the technical skill and ability
- 2 students can develop his analytical ability & competent use of tool, work resolved the solve the problems
- 3 It help to coordinate and resolved the conflict within organisations
- 4 It can develop the team work
- 5 It help to develop integrity, self-awareness dedication, external conduct amongst the people.

Course Outcomes

- 1 It is helpful to acquaint the knowledge of banking procedure
- 2 It is helpful to understand the detail knowledge of banking and financial situations
- 3 It is helpful to enable Banking, Economics, and management experience asking Service Skills

E-Commerce-I

Course Outcomes:

1. It enables students to evaluate the information on the Need of business entity to adhere the E -Commerce.
2. The course is useful for the In application technologies and tools in commerce which are used to Conduct the business.
3. E- commerce has posed the new issues in the development of Business information systems
4. The scheme is to understand the new content and practice regarding web-based technologies.
5. It impacts on business process.

Fundamental of Financial Accounting

Course Outcomes:

Student Can Understand the :

- i) Accounting Knowledge
- ii) Application of Accounting in Business

Business Statistics

Course Outcomes:

Student can understand the basic concept of statistics and its application in business and data analysis.

Business Economics-I

Course Outcomes:

Students will be acquainted with the business economic principles and theories as are applicable in business.

Fundamentals of Business Communication

Course Outcomes:

Adequate Knowledge about good communication in business

Computer for Business

Course Outcomes:

Adequate Knowledge about Information technology

Office Management

Learning outcomes: -

- 1 Students can understand the practices of office administration
- 2 The students can learn to maintain the official files and documentation

Fundamentals of Salesmanship

Learning outcomes:-

1. Identifying customers and their needs
2. Marketing sales presentation and organizing demonstration
3. Computer basics and needs and used in selling techniques

Advanced Accounting – I

Course Outcomes:

Student can acquire knowledge of advance level of accounting for professional
Basic knowledge of financial accounting

Management Accounting – I

Course Outcomes:

Students can take managerial decisions regarding finance of the business
Basic knowledge of accounting and mathematics

Auditing-I

Course Outcomes:

Regarding minute study to find out the fraud and errors in accounting

Marketing Management

Course Outcomes:

To aware oneself in respect of difference between sales and marketing.
Social role of business and Environmental factors affecting the business.

Human Resource Management

Course Outcomes

Regarding the major living aspect of business i.e. human resources, helps to know the recruitment and other basic needs.

**KATRUWAR ARTS, RATANLAL
KABRA SCIENCE & B.R. MANTRI
COMMERCE COLLEGE, MANWATH
- 431 505 DIST. PARBHANI (M.S.)**



**कत्रुवार कला, रतनलाल काबरा विज्ञान व
बी. आर. मंत्री वाणिज्य महाविद्यालय,
मानवत जि. परभणी — ४३१५०५.**

BEST COLLEGE AWARD 2010

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Department of Computer Science

Course Outcomes

1. By following all topics from Curriculum of B. Sc. Optional Computer Science, student become local to global in all respect.
2. Confidently using all E-platforms they are using with new generations of modern Technology. By adopting these skills they are made themselves somehow "Atmanirbhar" to put forth them as computer professional in front of society.
3. An ability to apply knowledge of computing and mathematics appropriate to the discipline.
4. An ability to identify, formulate, and develop solutions of computational challenges.
5. An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
6. An ability to function effectively on teams to accomplish shared computing design, Evaluation, or implementation goals.
7. An understanding of professional, ethical, legal, security, and social issues and Responsibilities for the computing profession.
8. An ability to communicate and engage effectively with diverse stakeholders.
9. An ability to analyse impacts of computing on individuals, organizations, and society.
10. Recognition of the need for and ability to engage in continuing professional development.
11. An ability to use appropriate techniques, skills, and tools necessary for computing practice.
12. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modelling and design of computational systems in a way that demonstrates comprehension of the trade-offs involved in design choices.
13. An ability to apply design and development principles in the construction of software systems of varying complexity.

B.Sc. (Optional)

B.Sc. F.Y. Theory: Paper No. I Programming Logic Concepts

Course Code: OCS-101

Course objectives:

1. To develop understanding of problem solving using computer.
2. To develop understanding of basic data structure such as arrays.

Outcomes:

1. Student will be able to design algorithms to solve different problems.
2. Student will understand how to solve problems using computers.

Theory: Paper No. II Designing of Web Pages Using HTML:

Course Code: OCS-102

Course Objectives

1. Develop skill in analysing the usability of a website.
2. Understand how to plan and conduct user research related to web usability.
3. Learn techniques of responsive web design, including media.

Course outcome:

1. Student will be able to use the HTML programming language
2. Student will understand the principles of creating an effective web page.

Theory: Paper No. III Introduction to Data Structure:

Course Code: OCS-103

Course Objectives

1. To solve problems using data structure such as linear list, stack, queues, hash tables, binary trees, heaps, binary search trees and graphs and writing programs for these solutions.
2. Able to write well-structured procedure oriented programs.

Course outcome:

1. Students are learn to develop application using data structures.
2. Students develop knowledge of applications of data structures including the ability to implement algorithms for the creation, insertion, deletion, searching etc.

Theory: Paper No. IV Programming in C Language Outcomes:

Course Code: OCS-104

Course Objectives

1. The course aims to provide exposure to problem solving through programming.
2. It aims to train the student to the basic concept of the 'C' programming language.

Course outcome:

1. Students will get complete knowledge of C language to develop logics which will help them to create programs, applications in C
2. Students will get the more advanced features of the C language.

Practical (Annual): Paper No. V Marks: 100 Practical Based On Theory Papers- I & IV**Course Code: OCS-105 (Lab)****Course Objectives:**

1. To familiarise the students to the practical HTML, DHTML and JAVA Script.
2. Give hands on training to the students and make them acquainted with various real time application implemented currently in the industry using programming in 'C' language.

Outcomes:

1. Students get practical approach to understand students the principles of creating an effective web page.
2. Students provide complete knowledge of Data structure and algorithms to implement Using 'C' language.
3. Students develop logics which will help knowledge and create programs.

B.Sc. S.Y.**Theory: Paper No.VI Operating System****Course Code: OCS-201****Course Objectives:**

1. To learn fundamentals of operating system.
2. To understand the Structure and organization of the File System.
3. To learn mechanism of OS.

Outcomes:

Students will be able to -

1. Understand the basic components of computer Operating System.
2. Understand types of operating systems
3. Know various management techniques of operating systems.

Theory: Paper No. VII Object Oriented Programming using C++**Course Code: OCS-202****Course Objectives:**

1. To understand how C++ improves C.
2. To learn OOP's concept.
3. To learn how to design C++ classes for code reuse.

Outcomes:

1. Students will be able to do programming independently.
2. Students will also be able to build small application.

Paper No. Skill Enhancement Course (SEC)-I:**Course Code: OCS-204****A) Programming in SCILAB****OR****B) PC installation & Networking****Course Code: OCS-204(A)****A) Skill Enhancement Course (SEC)-I: Programming in SCILAB****Course Objectives:**

1. To learn basic functioning in SCILAB.

Outcomes:

1. Students will be able to understand the main features of the SCILAB program development environment.
2. Students can implement simple mathematical functions/equations in numerical computing environment such as SCILAB.

Skill Enhancement Course-I:**Course Code-204 (B) PC Installation & Networking****Course Objectives:**

1. The course is designed to build practical skill in Assembling & maintenance of the personal desktop computer.
2. Installation of operating system and software's as well as to setup the network.

Outcomes:

1. Students will acquire knowledge of computer hardware and peripherals.
2. Students can do their installation of Hardware and system software.
3. Students can do PC assembly, trouble shooting.

Theory: Paper No. VIII Computer Networks Outcomes:**Course Code: OCS-205****Course Objectives:**

1. Understanding basics of computer networking, connectivity techniques and related protocols.
2. This introduces the students to computer networks and concentrate on building a firm foundation for understanding data communication.

Course Outcome:

Students would be able

1. To define computer network, types of networks.
2. Able to choose computer network.
3. Able to escalate a computer network
4. Able to establish a computer network.

Theory: Paper No. IX Java Programming Outcomes:

Course Code: OCS-206

Course Objectives:

1. To learn why JAVA is useful for the design of desktop and web applications.
2. To learn how to implement object-oriented designs with JAVA.
3. To identify JAVA language components and how they work together in applications.

Course Outcome:

On completion of the course the student would be able

1. To use Java integrated development environment.
2. To write, compile, run, and test simple object-oriented Java programs.
3. To make elementary modifications to Java programs.
4. To solve real-world problems

Paper No. II Skill Enhancement Course (SEC) -II:

(A) Introduction to Web Applications

OR

(B) Digital Media Concepts

Course Code: OCS-208

Skill Enhancement Course-II: 208 (A) Introduction to Web Applications**Course Objectives:**

1. The course is designed to build practical skills of development of web applications.
2. Learn how to setup a quick and easy website with the new free Google sites.

Course Outcome:

1. Student obtain knowledge of website development and design specialization.

Skill Enhancement Course-II: 208 (B) Digital Media Concepts**Course Objective:**

1. The course is designed to build practical skills in the creation and publication of digital technologies.

Course Outcome:

1. Student will be able to use essential skills for digital media.

Practical: Paper No. X Practical's based on theory papers-VI & VII (OS and C++)

Course Code: OCS-203

Course Objectives:

1. To understand the services provided by and the design of an operating system.
2. To understand structure and organization of the file system.
3. To understand what a process is and how processes are synchronized and scheduled.
4. To understand different approaches to memory management.
5. To understand how C++ improves C with object-oriented features.

Outcomes:

1. Student will be able to understand the basic components of a Linux operating system, and the interactions among the various components.
2. Student will be able to independently program in C++.

Practical: Paper No. XI Practical's based on theory papers- VIII & IX (CN & Java)

Course Code: OCS-207

Course Objectives:

1. To develop an understanding of different components of computer networks, various protocols, modern technologies and their applications.
2. To learn why JAVA is useful for the design of desktops and web applications.

Course Outcomes:

1. Students will gain expertise in some specific areas of networking such as the design and maintenance of individual networks.
2. Student would be able to, use an integrated development environment to write, compile, run, and test simple object oriented Java programs.

B.Sc. T.Y.

Course Code-OCS 301

Paper No. XII Software Engineering

Silent Features: Software engineering is art of software designing. It aims to prepare detailed plans and designs as per customer's demands, carry out testing, develop intuitive user interfaces, and integrate all these activities into a system.

Learning Objectives:

- 1) Understand Software Engineering Process.
- 2) Understand Requirement and Components of Software Engineering.
- 3) Understand Software Design and Software testing fundamentals.

Utility of the Course:

Confidence of becoming a Software developer in order to get placement as well as research activity.

Prerequisite:

Knowledge of computer Programming & Data Structure.

Outcomes:

1. Prepare student to develop a software.
2. Student get ready to work as a software tester.

Course Code: OCS 302**Paper No. XIII [A] Programming in Visual Basic (Elective)**

Silent features: Visual Basic is a Graphical User Interface Language. We can design various forms and reports by drag and drop models. It is very convenient GUI platform for modern software designing.

Learning Objectives:

- 1) To learn Graphical Interface Language.
- 2) To develop an application using GUI Language.
- 3) Implement VB programs to solve simple problems.

Utility of the Course:

Confidence of becoming a Software developer in order to get placement as well as in research activities.

Prerequisite: Knowledge of Programming.

Outcomes:

1. Student learn Graphical User Interface Language.
2. Student learn to develop an application using GUI Language.
3. Implement VB programs to solve simple problems.
4. Prepare student for windows programming and write small applications.

Course Code: OCS 302**Paper No. XIII [B] Advanced Java Programming (Elective)****Silent Features:**

1. To Understand the Graphics and Applet programming.
2. To give the Knowledge on basics concepts of multithreading programming.
3. To understand web-based programming.

Utility of Course:

To encourage the students to develop web- based applications.

Prerequisite: Knowledge of C, C++, JAVA programming.

Outcomes:

1. Student understand the Graphics and Applet programming.
2. Student understand the knowledge on basics concepts of multithreading programming.
3. Student understand how to develop web-based programming.

OCS 303 (SEC - III) Section-A**Skill Enhancement Course-III****A) System Security**

Learning Objectives: Course covers fundamental issues and first principles of security and information assurance. The course will look at the security policies, models and mechanisms related to confidentiality, integrity, authentication, identification, and availability issues related to information systems.

Learning Outcomes:

Candidate who have successfully completed this course, should have achieved the following total learning outcome knowledge.

- 1 Candidates are expected to possess in-depth knowledge of formal modelling techniques for secure computer systems.
2. Candidates have advanced knowledge of common vulnerabilities, attack mechanisms, and methods against computer and information systems.

B) Data Science

Learning Objective:

The key objective of data science is to extract valuable information for use in strategic decision making, product development, trend analysis and forecasting.

Learning Outcomes:

1. Students will develop relevant programming abilities.
2. Students will demonstrate proficiency with statistical analysis of data.
3. Students will develop the ability of build and assess data based models.
4. Students will execute statistical analyses with professional statistical software.

Course Code: OCS304

Paper No. XIV Software Testing

Silent features: software testing is one of the important phase in software development. Before the software is deployed to customer, it should be testing on various aspects. So that any kind of execution, interface, security, etc. issue should be generated while user works

Outcomes:

1. Students learn the language of the web: HTML and CSS.
2. Students understand simple and impressive design techniques, from basics till advanced to focus on goal oriented and user centric designs.
3. Students know how to and where to start research, planning for website & actually build excellent websites.
4. Students able to create web elements like buttons, banners & Bars and of course complete UI designs, forms and validations for your website.
5. Students know for setting up page layout, color schemes, contract. and typography in the designs.

OCS-306 (SEC-IV) Section-B**Skill Enhancement Course-IV****Image Processing Software's****Course objectives:**

Describe and explain basic principles of digital image processing, design and implement algorithms that perform basic image processing (e.g. noise removal and image enhancement), design and implement algorithms for advanced image analysis (i.e. image compression, image segmentation & image representation), assess the performance of image processing algorithms and systems.

Course Outcomes:

1. Students understand the need for image transforms and their properties.
2. Student can develop any image processing application.
3. Student understand the need for image compression.
4. Student can learn the spatial and frequency domain techniques of image compression.

Annual practical Papers

Code OCS 307

Paper No-XVI

(Practical's based on theory papers- XIII & XV)

Code OCS 308

Paper No-XVII

(Project Work)

with software. Hence software testing professional is an important designation in software development industry.

Learning objectives:

1. Understand software testing process.
2. Understand various types of software testing.
3. Understand how to handle testing process.

Utility of course: set the basic path to students towards becoming a software professional.

Prerequisite: Knowledge of Software Engineering.

Course Code-OCS 305

Paper No-XV (A) (Elective) Relational Database Management System

Course objectives:

1. To teach fundamental concepts of RDBMS.
2. To teach database management operations.

Course Outcomes:

- 1 Students get knowledge of RDBMS
2. Students learn about the Use of SQL & PL/SQL for RDBMS Unit.

Course Code-OCS 305

Paper No-XV (B) (Elective) Data Mining [B]

Outcomes:

1. Students learn the data mining tasks.
2. Students learn data mining algorithms.
3. Students understand various data mining Tools, Application, and case Study.
4. Students understand various classification, association rules algorithms
5. Understand concept of clustering analysis.

OCS-306 (SEC-IV) Section-B

Skill Enhancement Course-IV:

Website Development.

Course Objectives:

1. Become familiar with graphic design principles that relate to web design.
2. Learn how to implement theories into practice.
3. Develop skills in analysing the usability of a web site.
4. Understand how to plan and conduct user research related to web usability.
5. Learn the language of the web: HTML and CSS.

KATRUWAR ARTS, RATANLAL
KABRA SCIENCE & B.R. MANTRI
COMMERCE COLLEGE, MANWATH
- 431 505 DIST. PARBHANI (M.S.)



कत्रुवार कला, रतनलाल काबरा विज्ञान व
बी. आर. मंत्री वाणिज्य महाविद्यालय,
मानवत जि. परभणी – ४३१५०५.

BEST COLLEGE AWARD 2010

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(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

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DEPARTMENT OF CHEMISTRY

Course Outcomes; B.Sc. CHEMISTRY

- 1] Creating interest in environmental issue.
- 2] Increasing working knowledge of instruments.
- 3] Obtaining the knowledge of pharmaceutical tables
- 4] Social awareness about the quality of water.
- 5] Increasing the practical skill of the students
- 6] Awareness about plastic garbage.

Course Outcomes; M.Sc. CHEMISTRY

- 1] Gain complete knowledge about all fundamental aspects of all the elements of chemist.
- 2] Understand the background of organic reaction mechanisms, complex chemical structures, and instrumental methods of chemical analysis, molecular rearrangements and separation technique.
- 3] Gather attention about the physical aspect of atomic structure, dual behavior, reaction pathway, with respect to time, various energy transformations, and molecular assembly in Nano level, Significance of electrochemistry, molecular segregation using their symmetry.
- 4] Carry out experiments in the area of organic analysis, estimation, separation, derivative process, inorganic semi micro analysis, preparation, Conductometric and Potentiometric.

5] Think critically and analyze chemical problems.

6] Present scientific and technical information resulting from laboratory experimentation in both written and oral formats.

7] Apply modern methods of analysis to chemical system in a laboratory setting.

Course Outcomes; B.Sc. Chemistry

Sr. no.	Course	Course Outcomes;
01	B.Sc. I Year	
	Paper -I	Organic and Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes. 1. Student should learn basic concept of organic chemistry, Nomenclature. 2. Student gets well acquainted with functional group in organic chemistry. 3. To understand the basic concepts and differences aliphatic hydrocarbons. 4. To know about term cycloalkane , cycloalkene and diene. 5. Learn and practice about organic compounds with their names. 6. Students learn some exceptional electronic configuration, trends and Periodicity in the following properties like atomic size, ionization energy, electron affinity & electronegativity. 7. To understand the inert gases forms compounds, different fluoride compounds of xenon.
02	Paper -II	Physical and Inorganic Chemistry Outcomes: After completion of syllabus students will be able to understand Following outcomes. 1. Learning and understanding rules of logarithm, Rules of drawing graph, Derivatives, Integration , different mathematical concept and SI units, and their Use in solving numerical. 2. Learning surface phenomena at heterogeneous surfaces. 3. Student will learn the basic knowledge of gas phase, Kinetic molecular theory, Critical phenomenon, liquefaction and molecular velocities. 4. To impart knowledge about solid phase, crystallography and some crystal Structure. 5. General characteristics of s-block elements, oxides, hydroxide, carbonate & its complexes 6. Study the oxidation and reduction by different met
	Paper -III	Organic and Inorganic Chemistry Outcomes: After completion of syllabus students will be able to understand following Outcomes. 1. Student should learn the concept of aromatic hydrocarbons, Aromaticity and antiaromaticity. 2. Student should understand the phenols and synthesis of phenols 3. Student knows about the haloalkene and haloarenes compounds. 4. To know the concepts of carboxylic acids and their derivatives. 5. To know about the types of alcohols and reaction of epoxide. 6. To study the different properties of P- block elements.

		7. To know the acids & Bases by different concepts.15
04	Paper -II	Physical and Inorganic Chemistry
		<p>Outcomes: After completion of syllabus students will be able to understand following Outcomes.</p> <ol style="list-style-type: none"> 1. To impart knowledge of atomic structure, different theories of atomic structure, rules of Electronic configuration and quantum numbers. 2. Learning of properties of liquid phase as surface tension, Viscosity and parachor. 3. Student will learn the basic knowledge of colloidal state, types, preparation, properties and Applications of colloidal state. 4. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed Reactions. 5. To understanding the chemical bond and its different types of bonds. 6. Learning the Concept of hybridization and study of VSEPR & Molecular Orbital theory.
	Paper -VI	Organic and Inorganic Chemistry
		<p>Learn the mechanism of name reactions. Know the Synthesis, and Reactions of Aromatic Carboxylic and Sulphonic acids.→ Know the Synthesis, and Reactions of Organometallic compounds.→ Learn the synthesis, mechanism, applications of active methylene compounds.→ Gathering basic knowledge of Oils, Fats, Soaps and Detergents.→ Understand the basic principle and application of Qualitative Analysis.→ Know the Classification, Properties of Non- aqueous s→</p>
	Paper -VII	Physical and Inorganic Chemistry
		<p>After completion of these courses students should be able to, Write an expression of Davisson-Germer experiment.● Derive Schrodinger wave equation.● Understand De-Broglie's hypothesis and uncertainty principle.● Solve the numerical problems based on De-Broglie.● Understand concept of entropy.● Understand statements of first, second and third law of thermodynamics.● Know the meaning of phase, component and degree of freedom.● Know the nuclear structure● & different energy of nuclear. Understand the different steps● & procedure in the gravimetric separation method.</p>
	Paper -VIII	Organic and Inorganic Chemistry
		<p>Outcomes: Learn the stereoisomerism of Chiral compounds.→ Know the Classification, and Reactions of carbohydrates.→ Know the Synthesis, and Reactions of Nitrogen Compounds.→ Gathering applications of Reagents in Organic Synthesis.→ Understand the Characteristics of d-Block Elements.→</p>

		Know the Characteristics of d-Block Elements.→
	Paper -IX	Physical and Inorganic Chemistry
		OUTCOMES: After completion of these courses students should be able to, Know the rate constant and factors affecting rate of reactions.● Write an expression for rate constant (K) for first order, second order reaction.● Know the terms cell constant, specific conductivity, equivalent conductivity and molar● conductivity. Know the applications of Kohlrausch's law.● Compare between thermal and photochemical reactions.● Discuss different types of photochemical process.● Know the preparation, properties, structure● & application of different compounds. Discuss different inter halogen compounds by preparation, properties, structure and uses.●
	Paper-X	Outcomes: Learn basics of thin layer chromatography and distillation.→ Learn fundamentals of organic qualitative analysis.→ Learn about organic estimations.→ Basics of volumetric analysis.→
	Paper-XI	Outcomes: After completion of this course students should be able to, Calculate normality and strength of the solution using potentiometer and conductivity meter.● Find pka value on pH meter.● Verify Lamberts-Beer's law colorimetrically and determine unknown concentration of the● solution. Determine energy of activation.● Determine heat of solution.● Study the effect of solute on CST of phenol-water system.● Determine the enthalpy of ionization of weak acid / weak base.● Determine partition coefficient.● Separations of elements from each other● & analysis by volumetric method.
	Paper -XII	Organic and Inorganic Chemistry
		Course Outcome(s) CO1 Learn the mechanism of Electrophilic Substitution reaction of Heterocyclic Compounds CO2 Know the characteristics, Classification and synthesis of Drugs and Dyes CO3 Explaining theories of Color and chemical constitution of Dyes CO4 Gathering basic knowledge of Alkaloids, Vitamins and Pesticides CO5 Understand the basic principle and application of coordination complexes CO6 Know the application of elements in Medicine
	Paper -XIII	Physical and Inorganic Chemistry
		Course Outcome(s) CO1 Understand the concepts of molecular Spectroscopy and its applications CO2 Analyze Rotational, Vibrational and Raman, Spectra CO3 Interpret the theoretical and experimental methods of chemical kinetics CO4 Know the theory and application of Distribution law CO5 Explain the Nomenclature, classification and application of Organometallic Compounds CO6 Illustrate the classification and application of Metal Carbonyls
	Paper -XIV	Organic and Inorganic Chemistry

		<p>Course Outcome(s)</p> <p>CO1 To learn the basic principle and terms used in UV, IR & NMR Spectroscopy</p> <p>CO2 Acquire the fundamental knowledge of classification and Synthesis of Amino Acid and Peptides</p> <p>CO3 Describe the types of Rearrangement</p> <p>CO4 Postulates and limitations of VBT and CFT</p> <p>CO5 Calculation of CFSE for Tetrahedral and Octahedral Complexes</p> <p>CO6 Explain the types of electronic transition and selection rule</p> <p>CO7 Apply spectroscopic techniques in analyzing the structure of simple organic Molecules</p>
	Paper -XV	Physical and Inorganic Chemistry
		<p>CO1 Know the importance of Solutions of Non Electrolytes</p> <p>CO2 Understand the basic principle of Colligative properties</p> <p>CO3 Study the theory and application of Polarography</p> <p>CO4 Analyze the application of Isopoly and Heteropoly acids and anions</p> <p>CO5 Introduction and application of Isolobality and Isolobality analogies</p>
	SEC-III	
		<p>Course Outcome(s)</p> <p>CO1 Basic concepts of electrochemistry and its applications</p> <p>CO2 Understanding the Nernst heat theorem and the Thermodynamics open system</p> <p>CO3 Know the Vant-Hoff's Reaction Osochore and numerical on it</p> <p>CO4 Explain the types of magnetic substances and effect of temperature on it</p> <p>CO5 Biological role of alkali and alkaline earth metal ions</p> <p>CO6 Describe the structures and functions of Metal Cluster</p>
	SEC-IV	
		<p>Course Outcome(s)</p> <p>CO1 Be able to determine the structure by using Spectra</p> <p>CO2 To train the students for the preparation of various cosmetics</p> <p>CO3 Know the classification and Fatty acid composition of Oils and Fats</p> <p>CO4 Analysis of Oils and Fats by physical and chemical method</p>

**Katruwar Arts, Ratanlal Kabra Science & B.R.Mantri Commerce
College, Manwat Dist. Parbhani. (M.S.)**

Department of Physical Education

Report of out comes subject paper

**Physical Education to bears an ancient history its sources exhibit the nature of man, prevailing economic
religious. And cultural conditions of all people**

**In the age of science, due to creation of mechanical tools. For many tasks, human beings get free time
through play free time can be utilized and students institute can be developed easily**

A Sense of nationalism can be instilled in the students outcome of physical education are as follows

- 1) Physical education students get acquainted with the sports culture, traditions of different counties
- 2) It provides information on country's different sports organization and their functions
- 3) Get information about Olympics and other world competitions. What is competition and the determination required to participate in the competition is cicuted in the students.
- 4) It instills in the students a love for sports and helps in promotion and dissemination of sports
- 5) Useful for students to develop Physical abilities
- 6) Learn about the Philosophy of Physical education
- 7) Helps to create national unit
- 8) Culture is exchanged through play
- 9) Social qualities are developed through play
- 10) Helps to dispel misconceptions about sports in the society
- 11) Students learn about human anatomy
- 12) Raise awareness about yourself and your health
- 13) Information can be given to maintain good health in the community

- 14) Information on remedial measures to maintain good health
- 15) Through this syllabus students get knowledge of Physiology
- 16) Get information on balanced diet on and health
- 17) Helps to improve physical and mental health
- 18) Awareness about diet Can be spread in the Society
- 19) Get inform about diet's Constituents and vitamins.
- 20) Student learn how to organize in the future life
- 21) Social development can be achieved through physical education
- 22) Students get information about organizing and planning of competition
- 23) Students get information about financial transaction in future life.
- 24) Personality development can be achieved through Physical education
- 25) Useful for participation in competitive exams.
- 26) Students get information about growth and development
- 27) It builds Capacity to play at national level
- 28) To revive students
- 29) They progress politically and Socially
- 30) Helps students develop emotionally
- 31) It helps to develop Physical skills of students.
- 32) Instinctive instincts develop.

03.	B.A.F.Y.	Basic Concepts in Sociology-III	<p>1.To think with society</p> <p>2. Humanly created organization of inter relationships that connects individuals in common culture.</p> <p>3.Sets of tradition, rules, symbols that shape and are enacted as feelings thoughts and behaviour of groups of people</p>	<p>1.To understand the basic concept in sociology and their fundamental theoretical interrelationship</p> <p>2.Student will be able to give examples show interrelationships and demonstrate the relevance</p>
04	B.A.F.Y.	Contemporary Social Institutions-IV	<p>1.A definition of Contemporary Sociology</p> <p>2.Indian Sociology is a term that describes practitioners who use sociological theories and methods outside of academic setting with the aim to produce positive social change through active intervention.</p>	<p>1.Institution can refer to mechanism of social order, which govern the behavior of set of individuals within a given community.</p> <p>2.Moreover institutions are identified with social purpose, transcending individuals and intention by mediating the rules that govern living behavior.</p> <p>3.Debates about the social impact of sociology have been historically centered.</p>
05	B.A.S.Y.	Indian Society : Structure and change-V	<p>1. Student should ve to structure of the Indian society and changing aspects.</p> <p>2.Student also known as the goal must be unity not uniformity</p> <p>3.The bond of unity in relation to Indian heritage in a certain underlying uniformity of life have been reflected in the observations of many foreigners also.</p>	<p>1.Sociologists are typically motivated the desire to better understand the principle of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy.</p> <p>2.This course gives insights about social change in India</p>

	B.A.S.Y.	Human Rights and Social Justice-VI	<p>1.Student will understand what are the human rights and what is the meaning of social justice and its necessity.</p> <p>2.Student also develop an understanding of challenges to human rights and social justice.</p> <p>3.Student will understand how human rights can be used as a practice tool to support them</p>	<p>1.The issues that make social justice difficult to achieve such as poverty, exclusion and discrimination are in direct contradiction with human rights, which apply to all individuals indiscriminately.</p> <p>2.Human rights can help to fight indignity.</p> <p>3.Human rights provide legal framework that allows individuals to hold government to account and requires the state to ceate conditions necessary for the achievement for social justice.</p>
	B.A.S.Y.	SEC Personality Development - I	<p>1.To enhance and groom one's outer and inner self about a positive change in students life.</p> <p>2.To basic awareness about significance skill Enhancement such objectives are.</p> <p>3.To help the student be positive, Increase and improve self comfidence, learn to lead and face the challenges and be good human being.</p>	<p>1.This course will polish students presentation and communication skill and proper to successful career.</p> <p>2. Apply the understanding of communication skill into everyday practice and understanding the importance of human life.</p>
	B.A.S.Y.	Issuse and Problems in Indian Society-VII	<p>1.To sensitize the students to the emerging social issues and problems in Indian Society enable then to acquire sociological understanding of these issues and problems and deals with the real fact.</p>	<p>1.A social issue is problem that influences many citizens within a society and one that many people strive to solve.</p>

			<p>2.To introduce the concepts, theories and case studies that seek to clarify social issues and social problems.</p> <p>3.This course is designed to identify and analyse come of such emerging social issues and problems from sociological perspective.</p>	<p>1.After studing this course students should able to consequence of factors extending beyond an individual's.</p> <p>2.Demonstrate how certain social contretion become dominat.</p> <p>3.Distinguish how labeling something can create expretion about behavior and action.</p>
	B.A.S.Y.	Neo Social Movements-VIII	<p>1.The objective of the course is Neo-social Movements Concentrate on the grassroots level with the aim to the represent the interests of marginal or exclued groups.</p> <p>2.To promote understanding of the common groups and shared goals.</p> <p>3.To consider the strategic value for movements.</p> <p>4.To provide spaces and opportunities for movement</p>	<p>1.The knowledge obtained in this social movement was valuable because they could use it for the cause.</p> <p>2.Social movement play such an important role in bringing about social change in political, religious, educational, health, corporate, government and other institutional areas.</p> <p>3.Social movements more rewarding than other learning outcomes because the outcome includes a direct impact on social change.</p>
	B.A.S.Y.	SEC Time management-II	<p>1.Students will learn achive better results.</p> <p>2.Through effective planning and clarifying objectives and importance of Goal in life.</p>	<p>1.Students understanding the how to set specific,measurable,actionoriented,reasistic and timely goals.</p> <p>2.Students works forward accomplishing those goals by self-reflection and self-monitering.</p>

	B.A.T.Y	Western Sociological Thinkers-I	<p>1.The course will help Students to introduce with western social thinkers understand their analysis and build up your own ideas.</p> <p>2.It is intended to cover those who have made substantive contributions to social theory and research including any Sociology with sub field.</p>	<p>1.This course is to provide to the sociology students with the understanding of sociological theory.</p> <p>2. This course train students for the application of these theories to social situations.acquaintance with the writing of these four thinkers</p> <p>3. to equip the students with theoretical insights to know analysis and interpret the social scenario around them.</p> <p>4. An attempt to familiarize students with the different sociological perspectives and theories.</p>
	B.A.T.Y	Methods of Social Research-I	<p>1. This course aims to provide an understanding of the nature of social phenomena.</p> <p>2. The issue involved in social research and the ways and means of understanding and studying social reality.</p>	<p>1. The course has importance in the field of sociological research.</p> <p>2. Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.</p> <p>3. This course has major aims to provide basic and fundamental knowledge of research methodology.</p> <p>4. This paper provides conceptual objectives, tools and techniques of research methodology.</p> <p>5.This course has also significance in providing scientific attitude and temper among the student of social sciences</p>

				6. This course students will get job opportunities in the research institutions, teaching field, corporate and marketing sector.
	B.A.T.Y	SEC- Social Counseling-I	<p>1.The course would be play vital roles in the different field of counseling.</p> <p>2. Sociology has very vital role in field of counseling to the individuals of the society for social progress and development.</p> <p>3.This course consists of important and primary methods of counseling</p> <p>4.The aim of this course is to provide tools and techniques to the students for social counseling.</p>	<p>1.Counseling helps student to build skill, they can use in solving their problems.</p> <p>2. counseling is important because it gives the opportunity and offer a positive benefits which can enhance person life.</p>
	B.A.T.Y	Modern Sociological Thoughts in India-II	<p>1.This course will help student to introduce with modern Indian Social Thinkers to understand their thoughts and build your own ideas.</p> <p>2.Basic objective of this course is to percolate and develop the philosophy and principles</p> <p>3.To disseminate the constitutional literacy at grass root level of society by multidisciplinary approach of thinking for getting solution of social problems</p>	<p>1.This course has importance of understanding the thoughts of modern social reformers of the India.</p> <p>2.This course aims to orient the students of sociology towards the ideas. Views and thoughts of the modern makers of the India.</p> <p>3.This course would help to enlighten the understanding of cotemporary issues and challenges of the country. This understanding which develops and build up capacities of the young generation of the country</p>

	B.A.T.Y	Techniques of Social Research-II	<p>1.This course aims to provide an understanding of the nature of social phenomena.</p> <p>2.The study of research methods as a means of understanding social reality.</p>	<p>1.This course has importance in the field of sociological research.</p> <p>2.Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students.</p> <p>3.This course has major aims to provides basic and fundamental knowledge of research methology</p> <p>4.This course has also significance in providing scientific attitude and temper among the student of social sciences in general sociology in particular.</p>
	B.A.T.Y	Social Counseling-II	<p>1.This course has aim to introduce moral ethics and values which would be helpful for the sustainable development of the human society.</p> <p>2.This course has importance in the course to the different actors of the society</p> <p>3.This course has field work and visit camp to provide opportunities to students to understands issues and problems for solutions and adopt the counseling skills</p>	<p>1.This course helps student to build skill, they can use in solving their problems</p> <p>2.Counseling is important because it gives the opportunity and offer a positive benefits which can enhance person life.</p>

