

Q L M

CRITERIA –II

2.6.1

**Student Performance
&
Learning Outcomes**

(PO's, PSO's, CO's)



BA / BCOM / BSC – COMPULSORY ENGLISH

PSO 1: It helps student to understand short stories and essays on a variety of important topics.1

PSO 2: It makes student to acquaint them with 'prose', its meaning and importance.

PSO 3: It helps to strengthen the vocabulary.

PSO 4: The students learn grammar units and write grammatically correct sentences.

PSO 5: It also encourages them to write short reports, personal and business letters, e-mails for a variety of purposes.

PSO 6: The language empowers students to prepare for competitive examination.

BA - OPTIONAL ENGLISH

PSO 1: Students will be able to comprehend excellent pieces of prose and poetry in English literature.

PSO 2: It helps students to get acquainted with the literary genre of fiction, prose, drama, poetry, and criticism.

PSO 3: Students will be able to apply knowledge of English language to improve skills in Listening, Speaking, Reading and Writing

PSO 4: It helps them to learn, understand, speak phonetically and write grammatical English.

PSO 5: Students will be able to understand the evolution of criticism and its application in language and literature

PSO 6: It enables students to understand the universal values. It inculcates in the students the habit of reading.



B. A. First Year Optional English

Name of the course: Paper 1: Understanding Prose Fiction

Intended Course Outcomes 1) Learners 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.

Name of the course: Paper 2- : Understanding Poetry in English

Intended Course 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.

Name of the course: Paper 3- : Understanding Non-Fictional Prose in English

Intended Course Outcomes: 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) Learners will attain a certain degree of proficiency in the interpretation of English prose.

Name of the course: Paper 4- : Understanding Drama in English

Intended Course Outcomes: 1) Learners 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 analyse texts from different dramatic genres.

B. A. First Year Compulsory English

Name of the course: (Ability Enhancement Compulsory Course): English Communication B.A./B.Sc./B.Com./B.S.W. First Year (Semesters I and II)

Intended Course 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) Learners will gain the personal enrichment from study of literary pieces in English. 5) Learners will acquire ability to communicate through oral and written texts.



B.A. II YEAR OPTIONAL ENGLISH

Semester III Paper No. V Title: Study of Poetry- Sonnets & Elegy

Intended Course Outcomes: 1) the students will acquaint the students with the literary genre of 'poetry,' particularly sonnet & Elegy, 2) the students are introduced the meaning, types, features and functions of "sonnet Elegy." 3) the students are encouraged to read, understand, and appreciate sonnet, elegy 4) The students are introduced with the world-famous sonnets and elegy. 5) The students are inculcated the habit of reading Sonnet & Elegy.

Semester III Paper No. VI Title: Study of Prose- Essays

Intended Course Outcomes: 1) the students are acquainted with the literary genre of 'prose,' particularly Essays. 2) The students are introduced with the meaning, types, features and functions of "Prose -Essays" 3) The students are encouraged to read, understand, and appreciate Essays. 4) The students are inculcated the habit of reading Essays.

Semester IV Paper No. VII Title: Study of Poetry- Odes and Ballads

Intended Course Outcomes: 1) The students are acquainted with the literary genre of 'poetry,' particularly Odes and Ballads. 2) They are introduced with the meaning, types, features and functions of "Odes and Ballads" 3) They are encouraged to read, understand, and appreciate Odes and Ballads. 4) They are introduced with the world-famous Odes and Ballads. 5) They are inculcated in the habit of reading Odes and Ballads.

Semester IV Paper No. VIII Title: Study of Prose- Autobiography

Intended Course Outcomes: 1) They are acquainted with the literary genre of 'prose', particularly Autobiography. 2) They are introduced with the meaning, types, features and functions of "Autobiography." 3) They are encouraged to read, understand, and appreciate Autobiography. 4) They are inculcated in the habit of reading Autobiography.



B.A. II YEAR COMPULSORY ENGLISH

Compulsory English - Second Year (Ability Enhancement Compulsory Course)

Intended Course Outcomes: 1) The students are introduced with short stories, essays on a variety of important topics, 2) They are encouraged to understand and appreciate prose writings of well-known writers, 3) They are acquainted with 'prose', its meaning and importance, 4) They are made to learn grammar items, such as Idioms, Phrases, and reported speech etc. 5) They are enabled to write grammatically accurate sentences, by identifying correct reported speech in writing English. 6) They are prepared for competitive exams by encouraging them to learn English.

Compulsory English - Second Year (Ability Enhancement Compulsory Course)

Intended Course Outcomes: 1) The students are encouraged to understand and appreciate short lyrical poems, 2) They are motivated to enjoy the inherent rhythmic beauty of lyrical poetry, 3) They are acquainted with famous world poets such as Wordsworth, Blake, Keats, Byron, Browning, Lanston Hughes, Tagore etc, 4) They are prepared for competitive exams by encouraging them to learn English, 5) They are developed in communicative competence by encouraging them to learn to listen, speak, read and write properly, 6) They are developed in the language skills of listening, speaking, reading and writing in the students so that they could use the English language in day to day, practical situations, 7) They are made to understand the importance of non-verbal communication, i.e. body language so as to make communicative situations more meaningful, positive and effective.

Skill Enhancement Course (SEC) - Second Year Skills for Employability-I Semester III & Skills for Employability-II Semester IV

Intended Course Outcomes: 1) Developing a course that meets requirements of the 21st century learners 2) Building Vocabulary comprising Spelling and Pronunciation in

English 3) Developing dialogues for Conversation Skills 4) Developing activities for written communication 5) Developing strategies for professional skills and Soft Skills.



B.A. III YEAR OPTIONAL ENGLISH

DSE I - Semester V Title of the course: Literary Theory and Criticism (A) Introduction to Literary Criticism Course/Paper code: DSE-ENG- I Marks 75 (ESE 40 + CA 35) Credits -3

Course Outcomes: 1) The knowledge about classical masters of criticism is disseminated 2) Critical ability to read texts in the light of past theories is introduced

Utility of the Course: 1) The learners would develop a critical ability to judge literary texts 2) Critical insight into the past theorists would be developed

Objectives of the Course: 1) To introduce the Greek and Roman literary critics to the learners 2) To acquaint the learners with the English literary critics and criticism 3) To understand the texts of major critics 4) To identify and understand the literary terms, phrases and concepts in English related with the literary theories and criticism

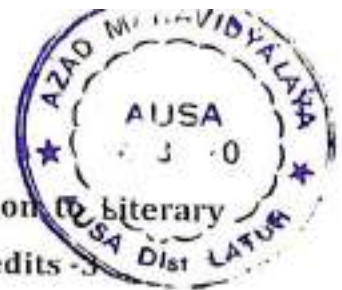
GE I -Semester V Title of the course: Modern English Structure (A) Introduction to English Speech Sounds Course/Paper code: GE-ENG- I Marks 75 (ESE 40 + CA 35) Credits -3

Course Outcomes 1) The practical aspects of the English language are demonstrated 2) Ability to comprehend and reproduce Standard English is introduced.

Utility of the Course: 1) The learners would be able to understand the system of speech with English sounds 2) The ability to understand and reproduce standard patterns of speech is facilitated

Objectives: 1) To acquaint the learners with the English speech sounds, syllable and its structure 2) To study the phonemic transcription and consonant clusters 3) To understand the word accent and intonation in English speech 4) To identify the dialects, idiolects and varieties of British English Prerequisites of the course 1) Charts, diagrams, worksheets based on the course content 2) The use of Language laboratory and audio-visual aids would be additionally beneficial to impart instructions

Semester VI



Title of the course: Literary Theory and Criticism (B) Introduction to Literary Theory Course/Paper code: DSE-ENG Marks 75 (ESE 40 + CA 35) Credits -3

Course outcomes: 1) The knowledge about contemporary theories of criticism is disseminated 2) Critical ability to carry out practical criticism is introduced
Utility of the Course: 1) The learners would develop ability to analyse literary texts according to the rules of prosody 2) Critical insight into the contemporary theories would be developed

Objectives of the Course: 1) To introduce the prominent literary theories to the learners 2) To acquaint the learners with the global critical schools 3) To understand in depth the major literary theories 4) To enable the learners for undertaking practical criticism

VI Title of the course: Modern English Structure (A) Introduction to English Grammar Course/Paper code: GE-ENG- II Marks 75 (ESE 40 + CA 35) Credits -3
Course 1) The course induces an understanding of the mechanism of the English Language 2) The notion of grammatical correctness in practical usage is highlighted

Course outcomes: 1) Learners are enabled to understand the logics and practices in the field of English grammar 2) The foundational structure of English grammar is explained 3) Learners would be able to use the language with grammatical correctness

Objectives: 1) To acquaint the learners with the English Word Classes. 2) To study word structures and affixes. 3) To study the basic clauses and phrases in English 4) To understand the sentence structure and forms and meaning 5) To identify the common errors and ambiguities in English

Objectives: 1) To acquaint the learners with the English Word Classes. 2) To study word structures and affixes. 3) To study the basic clauses and phrases in English 4) To understand the sentence structure and forms and meaning 5) To identify the common errors and ambiguities in English sentences 6) To comprehend the varieties of English language and its dialects

Skill Enhancement Course (SEC) - Third Year Title of the course: Life Skills -I- Semester V Course/Paper code: SEC-ENG- III Credits: 02 (Marks: 50) Periods: 45 (ESE - 25 Marks) (CA- 25 Marks)

Salient Features of the Course 1. The course prepares the learners for a smooth entry in to the world of work 2. Self-awareness and social awareness are developed 3. Skills necessary for digital lifestyle are introduced



Course outcomes: 1) Developing personal and social skills in the learners 2) Creating gender awareness 3) Developing skills for individual and group activities

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.

Skill Enhancement Course (SEC) - Third Year Title of the course: Life Skills -II - Semester VI Course/Paper code: SEC-ENG- IV Credits: 02(Marks: 50) Periods: 45 (ESE - 25 Marks and CA- 25 Marks)

Course outcomes: 1) the students will learn Digital Literacy 2) they will understand the Importance of Digital Literacy 3) they will be able for Interview, Seminar, and Topic Presentation. 4) they will understand Online Transactions and Search Skills, I C T tools: a) Massive Open Online Courses (MOOC) and their utility b) Generic tools c) P2P Networking and its uses d) Cyber security and Network Safety

Azad Mahavidyalaya, Ausa.



Department of Hindi

Course outcome of Hindi

B.A. Hindi or Bachelor of Arts in Hindi is an undergraduate Hindi course. Hindi is a language made up of mostly Sanskrit language along with Urdu, etc. Hindi is the official language of India. The undergraduate program in Hindi Language and Literature is a semester system of three-year duration with six semesters. After having passed the course, the candidates can find many jobs in various spheres in the country

How is B.A. Hindi Course Beneficial?

- It broadens the outlook of the students and raises in them a sense of confidence and responsibility.
- It makes them understand the society better and ready them to fulfill their duties and responsibilities towards the society in a good way.
- It improves their creative writing abilities towards writing in Hindi to enable them to contribute towards Indian Literatures.
- Its benefit is that it trains them in the Fields of journalism and media writing so that they can choose them as a professional option after the course completion. Students can get job opportunity as translator in embassy and many other international Airports.

Hindi as the language of literature may-

- Develop the communication skills in Hindi, the national language.
- Make the learner capable of having a career in Script Writing.
- Make the learner to understand the official Hindi easily.
- Inculcate human values among the learners.



- Develop thoughts and imagination of the learners.
- Develop social, cultural and civic values among the learners.
- Develop the sense of contemporary social, spiritual, political and cultural scenario.
- Develop competency in Literary Forms (Hindi Poetry and Fiction).
- Develop Reading and Writing Skills in Hindi.
- Make the learner understand the history of ancient, medieval and Modern Literature.
- Motivate the learner by the philosophical thoughts of the literary scholars.
- Make the learner familiar with the literary theories
- Develop approach of Hindi Linguistic and Grammar.
- Bring the job opportunities.
- Motivate the learner for further higher education.

AZAD MAHAVIDYALAY AUSA DEPT OF URDU
YEAR 2021-22



I) Name of the programme-

B.A.B.S.C & B.COM

II) Name of the course-

S.L Urdu

III) Name of the paper-

I) Urdu shayri

II) Urdu Nasr

III) Urdu shayri aur ilm ebayan

IV) Urdu Nasr aur Qawaid

IV) Paper Number: -

LII, III & IV

Course Outcome in detail.

A - Objectives:-

To understand he poetry

To understand the linguistic of Urdu shayri and Nasr with style. B- Outcomes :-

- 1) Students are able to read and write of the word meaning of old complex words.
- 2) Students are able to communicate in urdu Language.
- 3) Students are able to Understand the urdu shayri & urdu nasr with them.
- 4) Students are able to write sum theme on paper if ask.



I) Name of the programme-

B.A.F.Y

II) Name of the course-

Urdu Optional

III) Name of the paper-

I) Dastan aur Novel

II) Qasida aur Ghazal

III) Afsana Aur Drama

IV) Masnavi Aur Nazm

IV) Paper Number :-

I,II,III & IV

Course Outcome in detail:

A – Objectives :-

To improve the knowledge and understanding of Urdu Dastan and Noval.

To program and understanding the knowledge about Dastan and Noval and its social, cultural and historical background.

To improve the knowledge and understanding of Qasida and Ghazal.

To program and understanding the knowledge about Qasida and Ghazal and its social, cultural historical background.

To improve the knowledge and understanding about the art and technique of Qasida and Ghazal.

B- Outcomes:-

Students are now able to know about the fundamentals of Urdu languagespecial the Urdu essay.

Students are able to communicate in Urdu language.

Students are able to read and write the Urdu language very well. Students are now interested to read Dastan aur Noval.

Students are now able to read and understand the meaning and importance of the Qasida aur Ghazal.

Students are now able to read and understand Afsana aur Drama.

Students are now interested to read Drama and take part to Play a drama at stage. Students are now able to read and understand Masnavi aur Nazam.

AZAD MAHAVIDYALAY AUSADEPT OF URDU
YEAR 2021-22



I) Name of the programme-

B.A.S.Y

II) Name of the course-

Urdu

III) Name of the paper-

I) Inshaiya aur Drama

II) Marsiya aur Rubai

III) Khaka aur Swaneh Nigari

IV) Nazm Aur Jadeed Ghazal

V) SEC I - Translation

VI) SEC II- Interview & Press confarance

IV) Paper Number :-

V , VI, VII & VIII

Course Outcome in detail:

A - Objectives :-

To understand the fundamentals of Urdu language light essay. To understand the linguistics of Urdu language.

To understand the one of prose from. To understand the Urdu Sketch writing.

To understand the meaning of drama and its importants in Urdu language. To understand the of Marsiya aur Rubai and its importants in Urdu language .

To understand the meaning of Nazam aur Jadeed Ghazal and its importants in Urdu language .

B- Outcomes :-

Students are now able to know about the fundamentals of Urdu language specialthe Urdu essay.

Students are able to communicate in Urdu language. Students are able to Read and write the Urdu Inshaya Nigari.

Students are able to Read and Understand meaning and the importants of Sketches in Urdu litretur.

Students are now able to Read and understand Swaneh Nigari in Urdu litretur. Students are now able to Read and understand Nazam Nigari in Urdu litretur. Students are now able to Read and understand Jadeed Ghazal in Urdu litretur.



I) Name of the programme-

B.A.T.Y

II) Name of the course-

Urdu optional

III) Name of the paper-

IX) Tareekh-E-Urdu Zaban-O-Adab

X) Adabi Tanqeed

XI) Tareekh-E-Urdu Adab

XII) Adabi Tanqeed

SEC-III Mass media aur Inpage

SEC-IV Ishtehar Sazi aur Nama Nigari

IV) Paper Number :-

IX, X, XI & XII

Course Outcome in detail:

A – Objectives :-

- 1) To improve the knowledge about 'Tareekh-e-URDU ZABAN-o-Adab'
- 2) To improve the knowledge about 'Urdu adab'
- 3) To explain the various theories about origin of 'Urdu language'
- 4) To improve the knowledge about 'literary criticism'
- 5) To improve the knowledge about 'literary theories'
- 6) To improve the knowledge about old 'Urdu criticism'
- 7) To improve the knowledge about schools of criticism

B- Outcomes :-

- 1) Students are now able to know the history of the Urdu literature.
- 2) Students are able to know and answer the question about the history of Urdu language or the Zaban.
- 3) Students are now know the effect and influence of various region of India about the formation of Urdu language.
- 4) Students are now interested to know about more detail history of Urdu literature.
- 5) Students are now interested to know about more detail literary criticism.
- 6) Students are now improve the konwedge about School of criticism.
- 7) Students are now improve the konwedge about old Urdu criticism.

AZAD MAHAVIDYALAY AUSADEPT OF URDU
YEAR 2021-22



I) Name of the programme-

M.A. I

II) Name of the course-

Urdu

III) Name of the paper-

I) History of Urdu Language and Litreatur

II) Urdu Gazal

III) Dastan aur Novel

IV) Tanqeed Usool-o-Nazriyad

V) Urdu Masnavi

VI) Afsana aur Drama

VII) Tahreekaat-o-Rujhanat

VIII) Tahreeqa-e-ahqeeq

IV) Paper Number :-

I,II,III,IV,V,VI,VII & VIII

Course Outcome in detail:

A - Objectives :-

- 1) To improve the knowledge about the Urdu language and its origin.
- 2) To improve and understanding the knowledge about social, cultural and historical background of Urdu Language and literature.
- 3) To improve the knowledge and understanding about the specialty.
- 4) To improve the knowledge of various genera of literature.
- 5) TO improve the knowledge about scope and future of Urdu.

B- Outcomes :-

- 1) Students are now able to know the history of the Urdu literature.
- 2) Students are now able to know Urdu Ghazal.
- 3) Students are now able to know Dastan aur novel.
- 4) Students are now able to know Urdu criticism.
- 5) Students are now able to know Urdu Masnavi.
- 6) Students are now able to know Afsana aur Drama.

Students are now able to know Urdu tahqeeq



I) Name of the programme-

M.A. II

II) Name of the course-

Urdu

III) Name of the paper-

IX) Qasida

X) Urdu Mein Ghair Afsanbvi Adab

XI) Urdu Mein Tanz-o-Mizah

XII) Adabi Tanqueed Aur Tanqueedi Dabistan

XIII) Marsiya

XIV) Urdu Nazm

XV) Special Study of Meer Taqi Meer

XVI) Lisaniyat aur Fan-e-Urooz

IV) Paper Number :-

IX, X, XI, XII, XIII, XIV, XV & XVI

Course Outcome in detail:

A - Objectives :-

- 1) To improve the knowledge about the Urdu qasida and its origin.
- 2) To improve and understanding the knowledgw about social, cultural and historical background of Urdu nonfiction prose.
- 3) To improve the knowledge about the Urdu Khaka and its technique.
- 4) To improve the knowledge about Urdu safarnama.

B- Outcomes :-

- 1) Students are now able to know the Urdu Qusida.
- 2) Students are now able to know the Urdu Nazam.
- 3) Students are now able to know the Urdu Lisaniyat.
- 4) Students are now able to know the Adbai tanqeed.

AZAD MAHAVIDYALAYA, AUSA



Programme Outcome/Programme Specific Outcome/Course outcomes

Department of Marathi

Programme Outcome	<p>Student seeking admission for B.A. programme is expected to imbue with following quality which helps them in their future life to achieve the expected goals.</p> <ol style="list-style-type: none"> Realization of human values. Sense of social service. Responsible and dutiful citizen. Critical temper Creative ability.
Programme Specific Outcome	<ol style="list-style-type: none"> Creating an interest in literature. Availing the job opportunities in translation, transformation and media. Developing language. Increasing the critical attitude about literary studies. Imbuing the literary research attitude.
Course	Outcomes
B.A., B.Sc. B. Com., I st Year – Semi -I SL MARATHI-I Aksharlence	<ol style="list-style-type: none"> Acquaintance of medieval and modern prose poetry literature. Identification Marathi literature's kinds. Comprehension about Marathi literary creation and their inspiration. Utilization of grammar in Marathi language. Knowledge of language.
B.A., B.Sc. B. Com., I st Year – Semi -II SL MARATHI-II Sahityshilp	<ol style="list-style-type: none"> Introduction will be happen with Marathi language utilization. Acquaintance will be Marathi literature. Introduction will be happen of various kinds of prose and poetry. Acquaintance will come with life values and art values.
B.A. I st Year of Semi -I Marathi optional - I Modern Marathi Stories	<ol style="list-style-type: none"> Learners will be introduced the Story as the important type of Marathi Literature. Story Vision will be developed among students. Learner's comprehension of literary interest will be widened. Development of aesthetics in Marathi language and literature. Introduction of varies dialects of Marathi language.
B.A. I st Year of Semi-I Marathi optional -II Medieval and modern Marathi poetry literature	<ol style="list-style-type: none"> Identification in poetry course of thought. Comprehension of human values / ethics from manifest through poetry. Developing linguistic and literature aesthetic sense. Acquaintance of various kinds structures. Identification of ancient and modern verse / poetry kinds / types.



<p>B.A. I st Year of Semi-II Marathi optional -III Marathi Stories literature</p>	<p>1. Learners will be influenced by the great personalities of dignified people. 2. To inculcate the human values. 3. To make favorable environment for making of autobiographical, biographical and travelogue. 4. Increase the interest in reading and writing.</p>
<p>B.A. I st Year of Semi -II Marathi optional -IV Modern Marathi Poetry</p>	<p>1. Acquaintance of modern Marathi poetry. 2. Comprehension of human ethics from manifest through poetry. 3. Study of poetries structure, kind, language and image. 4. Discovery of thinking residence in Marathi verse / poetry course.</p>
<p>B.A. II nd Year of Semi -III Marathi optional -V Adhunik Wngmayprakar: Atmcharitra</p>	<p>Understand origin, nature and function of language. Enhance the interest in Marathi language. Develop various language skills Motivate for creative writing Understand various trends in rural literature.</p>
<p>B.A. II nd Year of Semi -III Marathi optional -VI Adhunik Wngmayprakar: Natak</p>	<p>Understand the interrelation between literature and society. Explain the nature language and literature Obtain the skills of literacy criticism To improve the Drama writing skills</p>
<p>B.A. II nd Year of Semi -IV Marathi optional -VII Adhunik Wngmayprakar: Kadambari</p>	<p>Understand the interrelation between literature and society. Explain the nature language and literature Obtain the skills of literacy criticism To improve the Novel writing skills</p>
<p>B.A. II nd Year of Semi -IV Marathi optional -VIII Madhyayugin Gaya Padyacha Abhyas</p>	<p>1. Introduction of the medieval Marathi language and literature. 2. Introduction of the contemporary literary works. 3. Acquiring the skill of translation. 4. Explanation of the need and significance of editing.</p>
<p>B.A., B.Sc. B. Com., II nd Year - Semi -III SEC-I Marathi Bhashik Upyojan wa Lekhan Kaushalya</p>	<p>Student will be able to 1. write letters for official purpose 2. know the structure of news writing 3. write for various advertising agencies 4. serve for various news channels</p>
<p>B.A., B.Sc. B. Com., II nd Year - Semi -IV SEC-II Marathi Bhashik Navnimiti wa Sambhashan Kaushalya</p>	<p>Create an internet in literature Availing the job opportunities in translation, transformation and media. Developing the language Increasing the critical attitude about literature studies. Importing the literature studies attitude.</p>

B.A. III rd Year of Semi -V Marathi optional -IX Madhyayugin Marathi Wangmayacha Itihas	1. Introduction of the historical survey of medieval Marathi literature. 2. Introduction of the literary forms in medieval literature. 3. Explanation of the trends and structure of medieval Marathi literature.
B.A. III rd Year of Semi -V Marathi optional -X Sahityavichar	1. Understanding the formal and informal language. 2. Developing various language skills. 3. Getting motivation for creative writing. 4. Understanding the technique of mass communication.
B.A. III rd Year of Semi -VI Marathi optional -XI Madhyayugin Marathi Wangmayacha Itihas	1. Introduction of the historical survey of medieval Marathi literature. 2. Introduction of the literary forms in medieval literature. 3. Explanation of the trends and structure of medieval Marathi literature.
B.A. III rd Year of Semi -VI Marathi optional -XII Bhashavidnyan ani Vyakaran	1. Understand the nature and function of literature. 2. Understand the nature of the process of literary creation and the concept of literary genus. 3. Acquire ability to analyze the process of literary appreciation. 4. Get acknowledged to some fundamental concepts in literary appreciation.
B.A., B.Sc. B. Com., III rd Year - Semi -V SEC-III Marathi Bhashik Kaushalya Vikas	1. Acquire writing skills for newspaper and media 2. Master the skills of Marathi language 3. Understand the importance of media in society 4. Increase understanding of literature and critical theories 5. Comprehend the concepts in criticism
B.A., B.Sc. B. Com., III rd Year - Semi -VI SEC-IV Marathi Bhashik Kaushalya Vikas	6. Become familiar with value added concepts in criticism 7. Understand the tradition of critics and criticism in Marathi Literature 8. Enrich critical aptitude 9. Aware about nature and scope of interdisciplinary research 10. Understand the tradition of researchers in Marathi literature 11. Comprehend the relation between the creative writer and his age 12. Understand the contribution of various creative artists 13. Comprehend the nature of folk literature and its types

AZAD MAHAVIDYALAYA, AUSA



Course Outcomes

Dept. of Sociology

Course: Introduction to Sociology (P-I)

After successfully completing this course ,the student will able to:

CO1: To understand historical roots of social science.

CO2: To make aware on the various concepts of Sociology and relevance of Sociology as a distinct discipline.

CO3: student learn basic concepts of Sociology and Student could acquire scientific Knowledge of introductory Sociology

Course: New Changes in Social Institution (P-II)

After successfully completing this course ,the student will able to:

CO1: Marriage Related Problems: a) Child Marriage e) Divorce problems in Maharashtra.

CO2: Family Related Problems: a) Domestic Violence b) Problems of old Age c) Husband-wife conflict in nuclear family, causes and effects; d) Generation Gap Conflict

CO3: Meaning and characteristics of caste system

CO4: Education Institution and Privatization of Education in India

Course: Basic Concepts in sociology(P- III)

After successfully completing this course ,the student will able to:

CO1: Social structure. Functional problems of social system

CO2: Meaning and characteristics of social groups, Types of social groups

CO3: Meaning and Nature of social change.

CO4: Factors of social change: Ideology, Demographic, science of Technology, SocioCultural and education:



CO5: The concept of Modernization: Impact of Moderation on Indian Society:

Course: Indian Rural Sociology (P-IV)

After successfully completing this course ,the student will able to:

CO1: Marriage Related Problems: a) Child Marriage e) Divorce problems in Maharashtra.

CO2: Family Related Problems: a) Domestic Violence b) Problems of old Age c) Husband-wife conflict in nuclear family, causes and effects: d) Generation Gap Conflict

CO3: Meaning and characteristics of caste system

CO4: Education Institution and Privatization of Education in India

Course: Indian Society : Structure & Change (P-V)

After successfully completing this course ,the student will able to:

CO1: with the structure and changing nature of Indian society

CO2: various segments and unity of the Indian society

CO3: A brief outline of the making of the Indian Society

CO4: Community Development Programme. Social Stratification and Inequality: Meaning and factors of Inequality

CO5: Social Change in Modern Society

Course: Transformative Movement in India (P-VI)

After successfully completing this course ,the student will able to:

CO1: various traditions, customs, myths and rituals as well as ethics and social values

CO2: Meaning and types of Social Movement, Causes of Social Movement and Significance of Social Movement

CO3: Dalit Movement in Maharashtra

CO4: Anti- Corruption Movement in Maharashtra

COURSE: Rural Society and Development : Skill Enhancement Course – (P-I)



After successfully completing this course .the student will able to:

CO1: Awareness of rural society and Development in the students.

CO2: In the present era rural development programmers improvement of the living standards and providing them opportunities for rural peoples.

COURSE: Social Problems in Contemporary India (P-VII)

After successfully completing this course .the student will able to:

CO1: Meaning & Nature of Social Problems and Causes of Social Problems.

CO2: Causes of Gender Discrimination, Female Prostitution and Sexual Harassment: Effect & Measures

CO3: Social Issues, Causes & Problems of Religious Minorities.

CO4: Meaning & Causes of Juvenile Delinquency, Cyber crime - Nature & Effects

CO5: Problems of Alcoholism - Causes & Measures.

COURSE: Human Rights an Society (P-VIII)

After successfully completing this course .the student will able to:

CO1: Meaning and Development of Human Rights

CO2: Constitution of India

CO3: Rights of Women, Rights of Consumer and Rights of Youth

CO4: Human Resource Development in India

COURSE: Problem of Slum : Skill Enhancement Course – (P-II)

After successfully completing this course .the student will able to:

CO1: To understand problem faced by people living in slums

CO2: Know slum people and their living conditions

CO3: To Know various programmes related to problems of slum



Course: Western Sociological Thinkers –(P –IX)

After successfully completing this course the student will be able to:

CO1: Students will understand the sociological theory.

CO2: The students will apply of these theories to social situations, acquaintance with the writing of these four thinkers, so as to equip the theoretical insights to know analysis and interpret the social scenario around them.

CO3: The students will be familiarized with the different sociological perspectives and theories and Ballads.

Course: Methods of Social Research – (P –X)

After successfully completing this course the student will be able to:

CO1: Students will acquire basic and fundamental knowledge of research methodology.

CO2: Students will be well known about conceptual objectives, tools and techniques of research methodology.

Course: Social Counseling: Skill Enhancement Course (P –III)

After successfully completing this course the student will be able to:

CO1: To conceptualize process of social development in different settings.

CO2: To give a holistic approach for the understanding of different theories of development.

CO3: Students will get job opportunities in the research institutions, teaching, research field, corporate and marketing

Course: Modern Sociological Thoughts in India –(P –XI)

After successfully completing this course the student will be able to:

CO1: understand the thoughts of modern social reformers of the India

CO2: The ideas, views and thoughts of the modern makers of the India



CO3: This course will help student to introduce with modern Indian Social Thinkers to understand their thoughts and build your own ideas.

CO4: Basic objective of this course is to percolate and develop the philosophy and principles, to disseminate the constitutional literacy.

Course: Techniques of Social Research –(P –XII)

After successfully completing this course ,the student will able to:

CO1: understand of the nature of social phenomena

CO2: understand social reality

CO3: understand conceptual objectives, tools and techniques of research methodology

CO4: Acquaint with relationship between education and society, understanding religion, culture as agents of education.

Course:

Course: Social Counseling: Skill Enhancement Course – (P –IV)

After successfully completing this course ,the student will able to:

CO1: This course has field work and field visit camp to provide opportunities to students.

CO2: Student will be able to understand issues and problem for solutions and adopts the counseling skills.

CO3: Students will get job opportunities in the research institutions, teaching, research field, corporate and marketing sector

Program Specific Outcomes

B.A. SOCIOLOGY

It helps to understand basic concepts and scientific knowledge of Sociology. It inculcates among students social integration, social reproduction and social continuity. The students get familiar with social problems, culture, ethnicity, structure and change in the contemporary society. The social milieu presented enable them to gain a better understanding of their situation and region. The students get familiar with the types of social movements and learn philosophical background of various social movements in India. It also enables them to understand human rights and social issues. It train students for the application of social theories (Western and Indian) to social institutions and provides insight to interpret the social scenario with sociological research methods.



Department of History Azad Mahavidyalaya AUSA



1. Programme Outcome

2. Students shall be able to demonstrate their skills by analyzing, synthesizing, and evaluating information from multiple sources.
3. Students will develop the ability to distinguish between fact and fiction while understanding that there is no one historical truth.
4. Students will produce well researched written work that engages with both primary sources and the secondary literature.
5. Students will develop an informed familiarity with multiple cultures.
6. Students will employ a full range of techniques and methods used to gain historical knowledge.
7. Students will develop an ability to convey verbally their historical knowledge.
8. Students will demonstrate their understanding of cause and effect along with their knowledge of the general chronology of human experience.

2. Programme Specific Outcome

1. understand the distinction between primary and secondary sources
2. read primary and secondary sources in a critical way
3. compare and contrast historical interpretations (historiography)
4. construct and communicate historical arguments, primarily in written form
5. demonstrate factual understanding
6. demonstrate conceptual understanding

3. Course Outcomes

1. History of Ancient India (Up to 647 A.D.) Paper – I (Semester – I)

- After completion of the course students has
1. To enhance the national interest among the students.
 2. To support the spirit of competency.
 3. To inculcate the National and International virtues in the minds of students.
 4. To enlighten the spirit of fellow feeling.
 5. To elaborate the Ancient Indian History in various contexts.

2. History of India (648 to 1526 A.D.) Paper – II (Semester – I)

- After completion of the course students has
1. To enhance the national interest among the students.
 2. To support the spirit of competency.
 3. To inculcate the National and International virtues in the minds of students.
 4. To enlighten the spirit of fellow feeling.
 5. To elaborate the South Indian History in various contexts



<p>3. History of Ancient India Paper – III (Semester – II)</p>	<p>After completion of the course students has</p> <ol style="list-style-type: none"> 1. To enhance the national interest among the students. 2. To support the spirit of competency. 3. To inculcate the National and International virtues in the minds of students. 4. To enlighten the spirit of fellow feeling. 5. To elaborate the Ancient Indian History in various contexts.
<p>4. History of India Paper – IV (Semester – II)</p>	<p>After completion of the course students has</p> <ol style="list-style-type: none"> 1. To enhance the national interest among the students. 2. To support the spirit of competency. 3. To inculcate the National and International virtues in the minds of students. 4. To enlighten the spirit of fellow feeling. 5. To elaborate the South Indian History in various contexts
<p>5. History of Maratha (1630-1707 A.D.) Paper – V (Semester – III)</p>	<ol style="list-style-type: none"> 1. Student will introduce the major events in the Maratha history. 2. Student will unfold the global history with the reference to the present issues. 3. Student will narrate the rise of the various ideologies for the human welfare. 4. Student will examine peace keeping process in the modern World.
<p>6. Socio-Religious Reform Movement in India-VI (Semester – III)</p>	<ol style="list-style-type: none"> 1) Students will study the social and economical changes in the world history. 2) Student will understand the relations between the nations in the world. 3) To state the importance of the brotherhood, peace, co-operation and National security.
<p>7) History of Maratha (1630-1707 A.D.)-VII (Semester – III)</p>	<ol style="list-style-type: none"> 1. Student will introduce the major events in the Maratha history. 2. Student will unfold the global history with the reference to the present issues. 3. Student will narrate the rise of the various ideologies for the human welfare. 4. Student will examine peace keeping process in the modern World.
<p>8) Socio-Religious Reform Movement in India-VIII (Semester – III)</p>	<ol style="list-style-type: none"> 1) Students will study the social and economical changes in the world history. 2) Student will understand the relations between the nations in the world. 3) To state the importance of the brotherhood, peace, co-operation and National security.
<p>9) SEC-I Tourism (Semester – III)</p>	<p>The student will be familiar with Development of Tourism, Transport and Accommodation and Planning and operation. Students will be able to acquire the job in tourism filed.</p>
<p>10) History of Modern India (1857- 1947-) Paper No. : IX (Semester - V)</p>	<p>The course will be able</p> <ol style="list-style-type: none"> 1. To enhance the national interest among the students. 2. To support the spirit of competency. 3. To inculcate the National and International virtues in the minds of students. 4. To enlighten the spirit of fellow feeling. 5. To elaborate the Modern Indian History in various contexts.



<p>11) Social Reformers in Modern Maharashtra-X (Semester - V)</p>	<p>1) Students will study the social and economical changes in the world history. 2) Student will understand the relations between the nations in the world. 3) To state the importance of the brotherhood, peace, co-operation and National security.</p>
<p>12) History of Modern India 1857- 1947-XI (Semester - VI)</p>	<p>The course will be able</p> <ol style="list-style-type: none">1. To enhance the national interest among the students.2. To support the spirit of competency.3. To inculcate the National and International virtues in the minds of students.4. To enlighten the spirit of fellow feeling.5. To elaborate the Modern Indian History in various contexts
<p>13) Social Reformers in Modern Maharashtra-XII (Semester - VI)</p>	<p>1) Students will study the social and economical changes in the world history. 2) Student will understand the relations between the nations in the world. 3) To state the importance of the brotherhood, peace, co-operation and National security.</p>
<p>14) Appreciation of Art SEC-III SEC-IV (Semester - VI)</p>	<ol style="list-style-type: none">1. To enhance the views regarding the Indian Art.2. To enrich the historical understanding of the students with reference to creative arts.3. To enable the students for their vocational careers.4. To get jobs in Archaeology Department and Tourism Industries.5. To conserve the historical Monuments and places in their local areas.

Course Outcomes Geography
DEPARTMENT OF GEOGRAPHY
PROGRAMME SPECIFIC OUTCOME



1 - Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change and dynamics; soil formation and classification; hydrological and Oceanographic studies etc.

PSO 2- Associating landforms with structure and process; establishing man-Environment Relationships; and exploring the place and role of Geography vis-a-sis other social and earth sciences.

PSO 3- Understanding the role and functioning of global economies, industrial locations; and the use and exploitation of resources with impacts.

PSO 4- Developing a sensitive and sustainable approach towards the ecosystem and the Biosphere with a view to conserve natural systems and maintain ecological balance.

PSO 5- Analyzing the differential patterns of the human habitation of the Earth, through studies of human settlements and population dynamics.

PSO 6- Understanding and accounting for regional disparities, poverty, unemployment

and the impacts of globalization. Explaining and analyzing the regional diversity of India through interpretation of natural and planning regions.

PSO 7- Over viewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviouralism etc.

PSO 9- Sensitization and awareness about the hazards and disasters to which the subcontinent is vulnerable; and their management.

PSO 8- Training in practical techniques of mapping, cartography, software's, interpretation of maps, photographs and images etc; so as to understand the spatial variation of phenomena on the Earth's surface.

Course Outcomes of B A (Geography)

B A : I

Paper I, Sem : I

An Introduction to Physical Geography

1. Understand the effect of rotation of revolution the earth.
2. Understand interior structure of the earth.
3. Understand Theory regarding of Origin of Continents and Oceans.
4. Study the formation of Rocks.
5. Understand the work of internal and external forces and their associated landforms.



B A : I

Paper II, Sem : I

An Introduction to Human Geography

1. Understand the special branch of Geography.
2. Understand the relationship of man and environment.
3. Study of Urban & rural Settlement.
4. Study of trends & Patterns of world Population.
5. Understand the Concept of Population.
6. Study of Population Migration & their Theory.

B A: I

Paper III, Sem : I

Practical Geography

1. Develop an idea about scale and draw different types of scale like linear, diagonal and vernier.
2. Methods of showing Relief and landforms
3. Study of survey of India map
4. To develop skills among the students to decipher the landforms using contours and to convert the scales
5. To develop abilities among the students to interpret the toposheets, calculate time using longitudes
6. To learn the techniques of showing the relief and landforms

B A: I

Paper : IV Sem : II

Geomorphology

1. Develop an idea about geomorphology and different types of fundamental concepts.
2. Explain different types of geomorphic processes like weathering and mass wasting and cycle of erosion.
3. Understand the processes of erosion, deposition and resulting landforms.
4. Acquire knowledge about slope forms and processes

B A: I

Paper : V Sem : II

Population Geography

1. Students can identified spatio-temporal changes of the settlement pattern in the world.
2. Student can understand the impact of environment on settlement structure.
3. Understand the variation of Rural and Urban Settlement.
4. Understand the problems and trends of urban settlement ,concept of smart city.
5. Gain knowledge different aspects of population geography.
- 5.. Develop an idea about the concept of Migration.

B A: I

Paper : VI Sem : II

Practical Geography

1. They can know about the quantitative techniques in geography..
2. To help students to project, analyze and plan the population growth
3. To develop the skills among the students to interpret the results using representation tools



B A: II

Paper VII, Sem : III

Human Geography

1. Understand the special branch of Geography.
2. Understand the relationship of man and environment.
3. Study of Urban & rural Settlement.
4. Study of trends & Patterns of world Population.
5. Understand the Concept of Population.
6. Study of Population Migration & their Theory

B A: III

Paper VIII, Sem : III

Economic Geography

1. The basic economy of the world is undergoing rapid transformation in recent times.
2. The process of such transformation of economic activities from primary to secondary and tertiary stage is dynamic in nature.
3. In view of this, the objectives of this course are to integrate the various factors of economic development and to acquaint the students about this dynamic aspect of economic geography.
4. The Knowledge About different Industries & World Trade & Study of Major Industries, Trade and Transport

B A: II

Paper IX, Sem : III

Practical Geography

1. Know about diagrammatic data presentation like line, bar and circle.
2. The Knowledge density of population

B A: II

Paper I, Sem : III

Tourism Geography

1. To familiarize the students with aspects of tourism which have a bearing on subject matter of geography
2. To orient the student to the logistics of tourism industry and the role of

tourism in regional development

3. To understand the impact of tourism on physical and human environment

B A: II

Paper X, Sem : IX

Geography Of Maharashtra

1. Understand the Geographical Personality of Maharashtra.
2. Study of Climate, Drainage System, Soils, Natural Vegetation in Maharashtra.
3. Study of Minerals, Power resources, Human resources in Maharashtra.
4. Study of Agriculture, Fishing and Livestock resources in Maharashtra.
5. Study of Major Industries, Trade and Transport.



B A: II

Paper XI, Sem : IV

Population Geography

1. Understand the nature of population. Know about composition of population, like- age, sex marital status, family, economic composition and language.
2. Analyze the global trend and patterns of population growth in developing countries, and migration patterns.
3. Evaluate the population growth theory and migration theories.
4. Understand the population policies in different countries.

B A: II

Paper XII, Sem : IV

Practical Geography

1. Lessons on different statistical methods used in practical geography e.g. frequency polygon, cumulative frequency, mean, median and mode etc.
2. Lessons on cartograms like pie graph, bar graph, and age-sex pyramid etc,
3. Lessons on meteorological instruments like maximum and minimum thermometer, rain gauge, dry and wet bulb thermometer

B A: II

Paper II, Sem : IV

Soil Geography

1. the course is to introduce the students to soil which is one of the important element of the earth which supports the life system.
2. The overuse and misuse of soil in recent years having resulted in degradation of soil.
3. Study of soil will help the students to appreciate the inherent limitations of soil to a particular use and managing the soil effectiveness.

B A: III

PO1. Assess the existing knowledge, concepts, techniques, and methodology appropriate to the graduate's chosen discipline.

- PO2. Conceive and plan a high-quality research and/or creative capstone project in the appropriate disciplinary or multi-disciplinary context.
- PO3. Apply discipline-based and/or cross-discipline-based knowledge to discipline-based problemsolving strateg
- PO4. Identify major issues, debates, or approaches appropriate to the discipline
- PO5. Synthesize complex information appropriate to the discipline
- PO6. Select and organize credible evidence to support converging arguments
- PO7. Develop an argument in accordance with the methods of the discipline
- PO8. Solve discipline-based and/or cross-discipline-based problems using strategies
- PO9. Employ writing conventions appropriate to the discipline
- PO10. Exhibit disciplined work habits as an individual!



Program Specific Outcomes (PSOs)

Geography

PSO 1. Students will be able to understand, analyse and interpret the key concepts in physical and human geography of environmental systems, major landforms, process linkages, variable scale, and "cause and effect" and how they relate to the influence of climate, geology, and human activities in shaping the earth surface.

PSO 2. Students will develop an in-depth understanding of the concepts of "space," "place" and "region" and the importance of spatial and temporal patterns in explaining world affairs. Students will be able to analyse and interpret the different economic, social, cultural, demographic and economic processes, economic regions and their relation with physical and cultural environment.

PSO 3. Students will be able to apply field, laboratory, geospatial, statistical and RS, GIS techniques to quantify the quantity, characteristics, and history of physical phenomena for geographic research and natural resources management. Students will learn scientific methods including critical thinking, sampling, hypothesis formulation and testing, and controlled experimentation to assess environmental problems, and be able to effectively communicate research objectives, methodology, results, interpretations, and conclusions in oral and written formats.

PSO 4. Students will be able to synthesize geographic knowledge and apply innovative research strategies to solve problems in resource conservation, environmental change, and sustainable development within the community, region, and world



Paper XIII Sem : V

Development of Geographical Thought – Part- I

1. Gain knowledge about development of geographical thought.
2. Develop an idea about evolution of geographical thinking and disciplinary trends in Germany, France, Britain, and United States of America.
3. Build an idea about between environmental determinism and possibilism, systematic and regional
4. Know about the trends of geographical thoughts.

B A: III

Paper XIV Sem : V

Geography of India – Part- I

1. To appreciate the regional diversity and to develop acclimatizing temperament among the students
2. To know the physical regions, climatic regions and natural resources of India
3. To bring awareness among the students for judicious and optimum use of natural resources and adherence to sustainable development

B A: III

Paper XV Sem : V

Practical Geography

1. Forming a clear concept on map projections
2. To know the use of particular projection for making particular map
3. To know the skills of construction of projection and map making
4. To use different projections for the representation of different parts of the globe

B A: III

Paper III Sem : V

An Introduction to Research Methodology

1. Learn the significance of statistics in geography.
2. Understand the importance of use of data in geography
3. Know about different types of sampling.
4. Develop an idea about theoretical distribution

B A: III

Paper XVI Sem : VI

Development of Geographical Thought – Part II

1. To enable students to study, understand and examine the existing concepts, approaches and models in geography and evolve with new concepts and approaches
2. To develop the skills among the students to apply approaches and models of geography to the real world problems.
3. To know the contribution of geographers across the globe to the development of geographical concepts, theories and models



B A: III

Paper XVII Sem : VI

Geography of India Part-II

1. To enable students to know the socio economic aspects and their regional variations in planning and development
2. To develop a sense of regional understanding and cooperation
3. To channelize the thought process of the students for planning and balanced regional development for harmonious coexistence

B A: III

Paper XVIII Sem : VI

Practical Geography

1. Lessons on different statistical methods used in practical geography e.g. frequency polygon, cumulative frequency, mean, median and mode etc.
2. Brings direct interaction of different types of surveying instruments like Prismatic Compass, Plane table,
3. The Knowledge Chain & Tap Survey Plotting
4. To make students acquaint with the basic concepts of different survey methods and their use in the field
5. To develop the skills of village survey and report writing

B A: III

Paper IV Sem : VI

Disaster Management

1. Understand the definition, classification of hazards and disasters
2. Gain knowledge about approaches to hazard study.
3. Develop an idea about factors, consequences and management of earthquake, landslide, flood and riverbank erosion.
4. Acquire knowledge about human induced disaster
5. They have to know how prepare a project report based on any one field based case study on flood, landslide, earthquake and human induced disaster.



Subject: Political Science

PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES

BACHOLOR OF ARTS

Department of Political Science

<p>Programme Outcomes</p>	<p>PO 1 : Discuss the theory and apply the methodology of comparative analysis within the discipline of political science. PO 2 : Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class. PO 3 : List the differences between scholarly and popular publications in Comparative Politics. PO 4 : Use library search tools to identify scholarly articles on country-specific government institutions in a nation state other than the United States. PO 5 : Use the Internet and library search tools to find sites on government, international humanitarian organizations, and newspapers originating from their topic country. PO 6 : Write an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the U.S. model.</p>
<p>Programme Specific Outcomes</p>	<p>PSO 1 : <i>Define</i> important field-specific theories and concepts, and understand their role in developing political science knowledge. PSO 2 : <i>Summarize</i> conceptual argument or theoretical approaches, <i>apply</i> them to field-relevant situations, and <i>support</i> their application with appropriate evidence. PSO 3 : <i>Compare</i> and <i>evaluate</i> the merits of multiple policies, theories, or concepts from different disciplinary perspectives.</p>
<p>Course</p>	<p>Outcomes</p>
<p>B.A First Year Semester - I Introduction of Political Concepts P - I</p>	<p>Students will explain the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically. The different ideological standpoints with regard to various concepts and theories are to be critically explained with the purpose of highlighting the difference in their perspectives and in order to understand their continuity and change.</p>

	<p>Student will understand the basic Political concepts by standing the course. Students will be able to solve the Political problems by standing this course. Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.</p>
<p>B.A First Year Semester - I Government and Politics of Maharashtra P-II</p>	<p>On completion of the course, the student shall be able to the patterns of state politics especially in the light of politics of Maharashtra. It not only deals with evolution or formation of Maharashtra state but focus on the changing nature of political culture thereof, and the role of different regional parties in shaping states political system. Followed by structure and function of state government, state legislature, and local self-government, followed by Electoral process which is responsible for stability or instability of Maharashtra political system.</p> <p>Students will understand the formation, Government and other Political issues concern with Maharashtra Government. Student will be to solve the Political problems by studying this course. Pupils will acquire to understand various Political issues, Political process and Political activity. Students get various political ideas concern with state Government and other relevant Political issues.</p>
<p>B.A First Year Semester - II Introduction of Political Concepts P - III</p>	<p>Students will explain the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically. The different ideological standpoints with regard to various concepts and theories are to be critically explained with the purpose of highlighting the difference in their perspectives and in order to understand their continuity and change.</p> <p>Student will understand the basic Political concepts by standing the course. Students will be able to solve the Political problems by standing this course. Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.</p>
<p>B.A First Year Semester - II Government and Politics of Maharashtra P - IV</p>	<p>On completion of the course, the student shall be able to know the patterns of state politics especially in the light of politics of Maharashtra. It not only deals with evolution or formation of Maharashtra state but focus on the changing nature of political culture thereof, and the role of different regional parties in shaping states political system. Followed by structure and function of state government, state legislature, and local self-government, followed by Electoral process which is responsible for stability or instability of Maharashtra political system.</p> <p>Students will understand the formation, Government and other Political issues concern will Maharashtra Government. Student will be to solve the Political problems by studying this course. Pupils will acquire to understand</p>



	various Political issues, Political process and Political activity. Student get various political ideas concern with state Government and other relevant Political issues.
B.A Second Year Semester - III INDIAN CONSTITUTION - Paper - V	This course acquaints students with the constitution, design of state structure, institutions and their actual working overtime. The Indian constitution accommodates conflicting impulses of liberty and justice, territorial decentralization and a strong union for instance within itself. The course traces the embodiment some of these conflicts in constitutional provisions and shows how thus have played out in Political practices. In further, encourages a study of state institution in their mutual interaction with the larger extra constitutional environment.
B.A Second Year Semester - III INTERNATIONAL RELATIONS - Paper VI	Students will acquire knowledge of the basic structure, processes & trends of International Politics. To understand the conceptual framework needed to systematic analysis of World Politics, understand and be capable of evaluating the validity of constructivist approach, To understand theories & concepts of International Relations, International Organization and non-government organizations, Role of UN, International Law and contemporary critical issues in World politics, study of International Relations and develop the ability to think critically above current issues and the future of the world order.
B.A Second Year Semester - III SEC - I - Election management	Students will be able to debates, principles & practices of Election Management. Election, electoral, voting behavior, political participation, public opinion of the context of Democracies with special reference to India. It will familiarize the students with how to conceptualize & measures of election management using quantitative methods, with particular attending being paid to development basic skills pertaining to the collection, analyze and utilization of data.
B.A Second Year Semester - IV INDIAN GOVERNMENT AND POLITICS - Paper VII	On completion of the course, the student shall be able to know the patterns of state politics especially in the light of politics of India. It deals with evolution or formation of India focus on the changing nature of political culture thereof, and the role of different regional parties in shaping states political system.
B.A Second Year Semester - IV INTERNATIONAL ORGANISATION & ISSUES - Paper VIII	Students will acquire knowledge of International Organization and non-government organizations, Role of UN, International Law and contemporary critical issues in World politics, study of International Relations and develop the ability to think critically above current issues and the future of the world order.
B.A Second Year Semester - IV SEC II - Political Journalism	This course will give introduction to the students of political journalism aims to provide voters with the information to formulate their own opinion and participate in community, local to global matter that will affect them. Political journalism is provided through different mediums in print, broadcast, online reporting, instant coverage of campaign, politics, event news, government status, election updates etc.



B.A Third Year Semester - V INDIAN POLITICAL THOUGHT Paper IX	Students will able to deals with the main sources of the political traditions in modern India and focuses the development of social Institution and as well as various patterns of politics that emerged in modern India. This course will be encouraged students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre- and Post-independence India.
B.A Third Year Semester - V WESTERN POLITICAL THINKER Paper X	The course will narrate students the legacy of the thinkers and orient them about continuity and change within the western political tradition. It helps them to study historical aspects western state and society.
B.A Third Year Semester - V SEC – III - INDIAN PARLIAMENTARY PROCEDURE	This paper will helpful and encourage students to know the actual working of the houses the sittings, the role of the presiding officers, the Question Hour.
B.A Third Year Semester – VI POLITICAL IDEOLOGY Paper XI	Acknowledge students with various classical political ideologies and its contemporary relevance.
B.A Third Year Semester – VI MODERN POLITICAL ANALYSIS Paper XII	This paper content will helpful for student to draw new meaning as per recent time they can understand new concept of political science in the reference of modern age.
B.A Third Year Semester - VI SEC – IV - INDIAN DEMOCRACY & GOOD GOVERNANCE	This Course will helpful and encourage students to Acknowledge Democratic Process in India

Course Outcomes: Public Administration



B.A. F.Y. Public Administration

Course: Basic Principles of Public Administration Paper No. – I

After successfully completing this course, the student will be able to:

- CO1) The Course introduces and provides knowledge of Public Administration.
- CO2) To provide knowledge of the new trends in public administration
- CO3) To understand the relations of public administration with other humanities would be more appropriate for solving a dynamics problem

Course: District Administration Paper No. – II

After successfully completing this course, the student will be able to:

- CO1. To know District Administration.
- CO2. To understand Structure and function of various Administrative offices of District Administration.
- CO3. To provide knowledge of the Revenue Administration, Police administration and Judiciary system at district and taluka level.

Course: Administrative Organization and Its Principles Paper No. – III

After successfully completing this course, the student will be able to:

- CO1) Basic Knowledge of administrative Organization and its principles.
- CO2) To provide knowledge of the Functions and qualities of chief executive
- CO3) To understand the importance of public relations in administration.

Course: Administrative System of Maharashtra State Paper No. –IV

After successfully completing this course, the student will be able to:

- CO1) To Understand the Role of Chief Minister and State Secretariat in Maharashtra state.
- CO2) To understand Structure and function of State Legislature
- CO3) To provide knowledge of the state government and Administration. understand the concepts of static and dynamical electrical magnetic fields, the

B.A. S.Y. PUBLIC ADMINISTRATION

Course: Personnel Administration Paper – V

After successfully completing this course, the student will be able to:

- CO1. To familiarize the students with basic process of Civil Service Recruitment in Indian Personnel



Administration.

CO2. To understand how to Train Civil Servants for their Better Role in Indian Governance

Administration.

CO3. To know the Systematic process in Personnel Administration (Recruitment to Retirement of Personnel):. Demonstrate an ability to collect data through observation.

Course: State Government and Administration Paper – VI

After successfully completing this course, the student will be able to:

CO1. The Course introduces and provides knowledge of State Government and Administration.

CO2. To understand process of State Judiciary.

CO3. To know perceive Constitutional and Statutory Agencies.

Course: Office Administration Paper – VII

After successfully completing this course, the student will be able to:

CO1. To understand the meaning of Office Administration.

CO2. To introduce the Office Procedure and Method.

CO3. To identify various problems in Office Administration.

Course: District Administration Paper – VIII

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

CO1. To know what is District Administration means.

CO2. To understand Structure and function of various departments of District Administration.

CO3. To provide knowledge of the revenue system, Judiciary system and Police administration at district level.

B.A. T.Y. Public Administration

Course: Administrative Thinkers Paper-IX

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

CO1) Basic Knowledge of various administrative Theories.

CO2) The approaches of study of public administration.

CO3) The relevance of thoughts in organizations

Course: Rural Local Government In Maharashtra Paper-X

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

CO1) To Understand the Three tire system of panchayati Raj in Maharashtra state.

CO2) Understand to how to help to Zilla parishad, panchayat samiti and Gram Panchayat improve

their overall well being .

CO3) To develop awareness of the basic Governing system to students.

Course: Administrative Thoughts Paper XI

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

CO1) To provide basic Knowledge of various modern administrative . theories

CO2) To Understand the Views of Human Relation theory .

CO3) To Familiarize the students with basic Knowledge of modern administrative thoughts.

Course: Urban Local Government in Maharashtra Paper-XII

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

CO1) To Understand the Role of Urban Local Government in Development of Nation.

CO2) Develop a Local Leadership in urban area.

CO3) To Understand the Role of urban local Institutions in urban development.

CO4) To develop of the basic Governing system to students. functions and eigen values



Program Specific Outcomes

B A PUBLIC ADMINISTRATION



It helps students to understand the basic concepts of Public Administration and can observe it as a responsible citizen. It is one of the major branches of administration in a whole which acquired all spheres of human life from birth to death. It introduces systematic implementation of laws and policies, theories, principles and controlling system. It makes students aware of the fundamental rights and duties of Indian citizens bestowed by the Indian constitution as well as introduces Indian Parliament, its administration, President, Prime Minister, Council of Ministers, and Supreme Court. Students will be able to find out the multidimensionality of problems and processes of Indian Administration and can work for reforms in it. It is also useful to develop leadership skill in students.

Providing a high quality education for a diverse body of public and nonprofit practitioners and pre-service students in the theories that inform the field of public administration. Supporting the practice of public administration and its ability to serve the public interest, with emphasis on the local, state and regional level.

Program Outcomes (PO) ECONOMICS



B.A Economics program adopted by the college is choice based credit system (CBCS)

Pattern. The program comprises six semesters in three years. At the end of this program

B.A Economics (OPT) the students will have acquired following things.

PO 1:- Students will be able to understand different economic issues with the help different concepts, theories and statistical data in a simple way.

PO 2:- Students will have capabilities to tackle economic problems with the help of knowledge of economics which acquired during the program

PO 3:- Besides the subject specific knowledge students will have obtained some values like Gender sensitization sustainability of natural resources, and demographic issues.

PO 4:- Students will be able to go easily in course of P.G in Economics.

PO 5:- Students will qualify the different exams like MPSC, UPSC, Indian Economic Services, Banking exams, etc.

PO 6:- Students will be capable to self-employment with the help of entrepreneurship.

PO 7:- Explain the functions of market and prices mechanisms

PO 8:- Apply the concept of equilibrium to both microeconomics and macroeconomics

PO 9:- Identify key macroeconomics indicators and measures of economics change, growth, and development.

PO 10:- Identify and discuss the key concepts underlying Comparative advantage.

PO 11:- Identify and explain major types of market failures.

Program Specific Outcomes (PSO)

PSO 1:- Students will be able to get in-depth knowledge of basic economic theories.

PSO 2:- Students will be able to apply theories of economic phenomena with statistical Supports.

PSO 3:- Student will be able to evaluate the current economic issues, policies and schemes.

PSO 4:- Assess the use of domestic and international institutions and norms in shaping economics.

Course Outcomes (CO)



COURSE	OUTCOMES
<p>Paper -I Micro Economics</p>	<ol style="list-style-type: none"> 1. Students will be able to explain the concepts of opportunity costs, and the benefits of exchange. 2. 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. 3. Students will be able to explain the concepts of gross domestic product, inflation and unemployment, and how they are measured. 4. Students will be able to explain the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances.
<p>Paper -II Paper Economy of Maharashtra</p>	<ol style="list-style-type: none"> 1. Students will understand various challenges of economy of Maharashtra. 2. Students will enhance the different concept of Maharashtra. 3. This study will suggest remedies for different issues of economy of Maharashtra. 4. It deals with Agriculture but focus on industry and in fracture in Maharashtra. It focuses on structure and growth of Industries as well as New Industrial policy of Maharashtra - 2013.
<p>Paper -III Micro Economics</p>	<ol style="list-style-type: none"> 1. Students will get the knowledge about production cost and revenue of the firm. 2. Students will be acquainted with the various markets from the point of view of competition. 3. This course will be helpful to realize the actual market through competitive point of view.



4. The acquisition of knowledge about providing share of different factors of production.

**Paper -IV
Paper
Economy Of Maharashtra**

1. Students will understand various challenges of economy of Maharashtra.
2. Students will enhance the different concept of Maharashtra.
3. This study will suggest remedies for different issues of economy of Maharashtra.
4. Knowledge of Railway, Roads, water, air Transport and communication means that all aspect which is related to Economy of Maharashtra

**Paper -V
Macro Economics**

1. Students will be able to describe the concepts like GNP, NNP, GDP, Personal Income, Disposable Income and Per Capita Income.
2. It numerates the measuring methods of national income and difficulties in it.
3. It studies theory of money, illustrating its definitions, functions and importance as well as value and measurement.

**Paper -VI
Economics of Development**

1. This paper enables students to acquaint not only with classical theories but also introduces them with other theories of Economic Development.
2. It highlights the factors in Economic Development process such as, Natural Resources, Population, Saving, Capital formation.

Cashless Transaction (SEC-I)

1. Completed the essential reading and activities students should Discuss Banking systems in existence and how they are structured.
2. Explain the relative importance of new modes of payments (cashless) in transactions.

3. Discuss the main types of cashless instruments and the main techniques employed by banks.

**Paper -VII
Banking**

1. Students will be able to know the definition, function and development of central bank.
2. The paper explores the pivotal financial institutions such as IDBI, NABARD, ICICI, EXIM etc. and their function and development.
3. The paper also intends to make students aware of the current trends and reformations in banking services, for example E-banking, ATMs, Debit Cards, Educational Loan, Core Banking and other electronic services.

**Paper -VIII
Development and Environmental
Economics**

1. This paper enables students to comprehend the role of agriculture and industrialization in Economic Development.
2. Not only it illuminates the importance of infrastructure in Economic Development, but emphasizes the importance of agricultural growth in globalization in terms of Economic Development. At times.
3. It also brings in light the environmental concepts related with Economic Development such as pollution, sustainable development etc

**Data Collection
(SEC-II)**

1. On completion of the course, the student shall be able to Demonstrate his/her understanding of sampling methods and the ability to use collection of data
2. Identify the appropriate sample techniques for different kinds of research questions
3. Identify the appropriate source of data in relation to the collection of research data
4. Able to classify and present the



	collected data in the form of Graph, bar diagram, chart etc.
HISTORY OF ECONOMIC THOUGHTS-XI	<ol style="list-style-type: none"> 1. Pupils will understand the basic economic concepts by studying this course. 2. Students will be able to solve the economic problems by studying this course. 3. Students will acquire the judgment power by studying the comparative approach.
INDIAN ECONOMY- GE - ECO -X	<ol style="list-style-type: none"> 1. Student will acquire the knowledge of Indian Economy. 2. Student will understand various challenges of Indian Economy. 3. Student will be able to suggest various measures to policy makers for solution of economic problem.
FINANCIAL INCLUSION AND FINANCIAL LITERACY - SEC-III	<ol style="list-style-type: none"> 1. Completed the essential reading and activities Student will be able to create their own financial plan. 2. Student will be able to create their own budget. 3. Student will propose a personal saving and investment plan. 4. Student will be examining how their choice of carrier and lifestyles will affect their financial plan. 5. Student will be aware about financial inclusion and financial literacy. Student faces a challenging economical future.
HISTORY OF ECONOMIC THOUGHTS -XI	<ol style="list-style-type: none"> 1. Agricultural Entrepreneurship will be adopted by pupils. 2. Students will get knowledge of the exploitation of Indian Economy in the British rule. 3. Students will know how much the political Leadership is successful in solving the economic problems of the society. 4. The students will know the importance of Eastern Economic Ideas on the world level.
PUBLIC FINANCE -GE - ECO - XII	<ol style="list-style-type: none"> 1. Student will able to analyze different



	<p>concept of public finance.</p> <ol style="list-style-type: none">2. The student will understand imbalance between public revenue and public expenditure.3. The students will suggest measures to decrease deficit.2. 4. The student will be able to evaluate working of recent finance commission.
<p>SEC-IV ENTREPRENEURSHIP DEVELOPMENT-</p>	<ol style="list-style-type: none">1. On completion of the course, the student shall be able to Understand the concept of entrepreneurship and its functions.2. The student will also be able to describe the process of entrepreneurship and explain the competencies of an entrepreneur.3. Understand the meaning and ways of generating ideas and able to prepare a business plan.4. Understand the reasons for success and failure of a business plan.5. It Identify the various support structure available for promoting entrepreneurship

AZAD MAHAVIDYALAYA, AUSA.



Name of the Department: Department of Library and Information Science

Programme: Bachelor of Arts, Library & Information Science.

Three years duration with Semester pattern and credit system.

Programme Outcomes:

After the completion of this Library and Information Science three year programme the student will be in a position -

- To develop a strong foundation and inspiration for higher level courses.
- They will learn to integrate theory with practice.
- They will learn the skills of organizing information and recorded knowledge.
- They will work at lower and middle managerial positions in all types of libraries, viz. academic, public and special

Programme Specific Outcomes:

The undergraduate three year Library and Information Science programme curriculum provides a foundation of disciplinary knowledge in library and information science. Students of LIS learn to –

- Effective leadership in the LIS fields.
- Can apply the skills and attitudes of entrepreneurship, visioning, planning and management of libraries and information centers.
- Will become competent to perform day to day housekeeping operations and provide library services such as circulation, cataloguing, classification, reference and information services to users of a library.

Course Outcomes:



- To Understand the different types of libraries and their role in the society.
- To understand & learn about the general tools techniques and principles about the administration of human resources, financial policies and other miscellaneous activities regarding the organization/ institution. will be aware of the emerging trends in library organization and services
- To Understand the different in-house operations associated with libraries.
- To Understand Dewey Decimal Classification and Colon Classification schemes
- To provide practical training of using the DDC schedules
- To Gain knowledge on the concepts and application of IT in Library and Information centers.
- To aware knowledge about Library software, Open-source Library software
- To Understand Professional ethics and Library Legislation in India.
- To make the students aware about the reference sources Understand the types of reference services in libraries and organization of Management and reference department
- To Understand and generate catalogue entries using AACR II.
- To provide practical training about cataloguing of the documents using latest edition of AACR-II

Azad Mahavidyalaya, Ausa.

Department of Physics

PSOs

Program Specific Outcomes of B.Sc. Physics

After completing B. Sc. Physics, students will be able to

PSO2: Apply vector algebra, differential and integral calculus as well as graphical methods to solve physics problems;

PSO3: Demonstrate ability to apply knowledge learned in classroom to set and perform simple laboratory experiments;

PSO4: Solve physics problems using the appropriate methods in mathematical, theoretical and computational physics

Course Outcomes

B.Sc. F.Y. Physics

Course: Mechanics and Properties of Matter (P-I)

After successfully completing this course, the student will be able to:

C01: Understand an intermediate knowledge of Newton's Laws and the equations of motion

C02: Understand types of conservative and non- conservative forces

C03: Determine whether using conservation of energy or conservation of momentum would be more appropriate for solving a dynamics problem

C04: Apply the concepts of elasticity to real world problems.

C05: List fundamental forces in nature, applications and factors affecting surface tension.

C06: Define and conceptualize molecular forces and surface tension

C07: Demonstrate laws of elasticity, surface tension and Hooke's law.

C08: Demonstrate the various elastic constants and apply the knowledge to determine these constants.

Course: Mathematical Methods in Physics (P-II)

After successfully completing this course, the student will be able to:

C01: Apply the concept of vectors and complex variables to various physical quantities.

C02: to solve the problems related to partial differentiation

C03: analyze the periodic functions using Fourier series.

C04: demonstrate the physical interpretation of various vector and scalar fields.

C05: solve different vector identities

C06: analyze the conditions for maxima and minima of various functions.

Course: Heat and Thermodynamics (P-III)

After successfully completing this course, the student will be able to:

C01: learn the behavior of the physical systems at different thermo dynamical conditions.

C02: understand the difference in the behavior of the ideal and real gases, transport phenomenon in gases.

C03: understand the working of various heat engines and the ways to increase their working efficiency.

C04: analyze the T- dS equations

C05: understand the Relation connecting pressure, volume and temperature in an Adiabatic Process

Course: Electricity and Magnetism (P-IV)

After successfully completing this course, the student will be able to:

CO1: understand the concepts of static and dynamical electrical magnetic fields, the sources for generating such fields, polarization and induction effects,

CO2: understand the basic difference between the DC and AC circuits and their functioning.

CO3: Understand the role of electricity in everyday life, relate electrical conduction, using Ohm's law

CO4: understand the working principles of various electrical components and gadgets **CO5:** understand the theory and principle of moving coil galvanometer

CO6: demonstrate the various laws of electromagnetic induction.

Course: Physics Practical (P-V)

After successfully completing this course, the student will be able to:

CO1: Demonstrate an ability to collect data through observation.

CO2: Acquire technical and manipulative skills in using laboratory equipment, tools and materials

CO3: Experimentation and interpreting data.

CO4: Demonstrate an understanding of laboratory procedures including safety, and scientific methods.

CO5: Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.

CO6: Acquire the complementary skills of collaborative learning and teamwork in laboratory settings.

B.Sc. S.Y. Physics

Course: Waves and Oscillations (P-VI)

After successfully completing this course, the student will be able to:

C01: define periodic and oscillatory motion;

C02: setup and solve differential equations of motion for simple harmonic, damped, and forced oscillators;

C03: describe oscillatory motion with graphs and equations, and use these descriptions to solve problems of oscillatory motion;

C04: discuss phenomenon of resonance and apply in different applications;

C05: set and solve differential equation for wave motion for longitudinal and transverse waves;

C06: calculate the phase velocity, energy and intensity of simple harmonic waves;

C07: discuss the Doppler Effect, and predict in qualitative terms the frequency change that will occur for relative motion between source and observer or listener;

C08: Explain in qualitative terms how frequency, amplitude, and wave shape affect the pitch, intensity, and quality of tones produced by musical instruments.

Course: Statistical Physics, Electromagnetic Theory & Relativity (P-VII)

After successfully completing this course, the student will be able to:

C01: Understand Statistical Basis and Thermodynamic probability.

C02: Discuss the concepts of microstate and macro state, basic postulates and behavior of density of states for model system and calculate the number of microstates for different statistical systems

C03: Define and discuss the concepts and roles of thermodynamic functions from the view point of statistical mechanics

C04: Differentiate thermal, mechanical and general interaction between statistical system

C05: Derive and compare Maxwell Boltzmann, Bose-Einstein and Fermi-Dirac distributions; state where they are applicable and explain the connection between classical

C06: Discuss the concepts of electromagnetic Energy and Poynting Vector,

C07: Understand the concept of Ampere's Law and Biot-Savart Law.

C08: discuss the concepts special theory of relativity and derive the Lorentz Transformations, Length Contraction, Time dilation, Velocity addition, relativity of mass, Mass energy relation.

Course: Optics and Lasers (P-VIII)

After successfully completing this course, the student will be able to:

C01: Describe the geometrical formation of images by thin lenses, lens equation and lens makers formula using fundamental laws of geometrical optics.

C02: Describe the Michelson Interferometer

C03: Describe optical aberrations produced in image by lenses and methods of their removal.

C04: Describe the construction and operation of optical devices, including, eyepieces, Huygens Eyepiece, Ramsden Eyepiece and their cardinal points etc.

C05: Use mathematical analysis to find bright and dark fringes in an interference pattern of thin and wedge shaped film and find a wavelength of light using Newton's rings

C06: demonstrate Optical Activity, Specific rotation and Laurent's half shade polarimeter.

C07: Geometrical determination of polarization of light and concept and determine a polarisation state of light by interpreting polarizer

C08: Illustrate the absorption, spontaneous and stimulated emission with appropriate diagrams.

C09: Explain the Properties of lasers, He-Ne laser and diode laser.

Course: Basic Electronics (P-IX)

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

C01: define semiconductor and demonstrate various diodes.

C02: describe construction and working of transistor and its applications in current and voltage amplification using different configurations;

C03: analyze the different transistor connections as CB, CE and CC.

C04: describe DC load line and bias point. List, explain, and design and analyze the different biasing circuits;

C05: explain real and ideal characteristics of operational amplifier and calculate gain in different modes;

C06: define input offset voltage; input offset current, input bias current, input impedance, Output impedance, open loop gain, Slew rate,

C07: describe different applications of operational amplifier;

C08: describe sinusoidal oscillators, Positive feedback Amplifier- Oscillator and Barkhausen Criterion

C09: analyze the Hartley oscillator, Colpitt's oscillator, R-C Network, Phase shift oscillator,

Course: Practical Paper P-X and P-XI

After completing this practical course student will be able to

C01: Use various instruments and equipment.

C02: design experiments to test a hypothesis and/or determine the value of an unknown quantity.

C03: Describe the methodology of science and the relationship between observation and theory.

C04: Set up experimental equipment to implement an experimental approach.

C05: Analyse data, plot appropriate graphs and reach conclusions from your data analysis.

C06: Work in a group to plan, implement and report on a project/experiment.

C07: Keep a well-maintained and instructive laboratory logbook.

C08: Express their knowledge and ideas through oral and written language.

B.Sc. T.Y. Physics

Course: Quantum Mechanics (P-XII)

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

C01: outline the historical aspects of development of quantum mechanics;

C02: explain the differences between classical and quantum mechanics;

C03: describe matter waves, wave function and uncertainty principle;

C04: describe Schrodinger's equation and its steady state form;

C05: solve Schrodinger's steady state equation for simple potentials to obtain eigen functions and eigen values

C06: apply Schrodinger's steady state equation for spherically symmetric potentials obtain eigen functions and eigen values;

C07: interpret quantum numbers in atomic system;

C08: discuss operator algebra in quantum mechanics.

Course: Solid State Physics (P-XIII)

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

C01: Define crystal structure and explain Unit cell, Basis, Symmetry operations, Point groups, space group,

C02: Give original examples of crystal structures and to analyze them with packing fraction, coordination number, number of atoms per unit cell etc.

C03: Derive Bragg Diffraction condition in direct lattice.

C04: Classify the crystal structure by XRD diffraction,

C05: Illustrate various experimental techniques as Bragg's law, Laue's method, and Rotating crystal method.

C06: Apply free electron theory to restate thermal and electrical properties

C07: define Specific heat of gases and Specific heat of solids.

C08: derive Einstein's theory of heat Capacity and Debye's theory of specific heat of solids.

Course: Atomic, Molecular & Nuclear Physics (P-XIV)

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

CO1: Explain The Vector Atom Model, The Pauli's exclusion Principle, Selection rules, Intensity rules, Interval rule

CO2: draw and explain Normal Zeeman effect, Anomalous Zeeman effect, Stark effect.

CO3: explain Theory of pure rotational spectra, Theory of rotation-vibration spectra and Raman Effect,

CO4: explain various Nuclear Fission and Nuclear Reactions

CO5: demonstrate p-p chain reaction as the source of energy in the Sun like stars,

CO6: explain thermal nuclear reactor, the neutron cycle and controlled and uncontrolled thermonuclear reactions.

Course: Digital and Communication Electronics (P-XV)

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

CO1: understand the importance and inter convertibility of various number systems

CO2: understand the principles of digital gates, and working principle of communication systems.

CO3: explain the types of Modulation and Expression for A. M. voltage,

CO4: explain different types of receiver as Turned Radio Frequency (TRF) Receiver, Super heterodyne receiver

CO5: explain the Characteristics of radio receivers: sensitivity, selectivity, fidelity & their measurements.

CO6: know the working of communication systems i.e., modulators, demodulators, transmitters and receivers, etc.

Course: Physics Practical (P-XVI & P-XVII)

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

C02: Follow instructions to perform laboratory experiments in Optics, Thermodynamics, Mechanics, Modern Physics and Electronics

C03: Document their results, using correct procedures and protocols.

C04: Calculate permissible standard error in any physics experiment

C05: Derive conclusions from the analysis of own data.



Azad Mahavidyalaya, AUSA.
Department of Computer Science
PSO of Computer Science

S.N.	PSO No.	Program Specific Outcomes (PSOs) Of B.Sc. Computer Science
1	PSO_1:	Program focuses on giving knowledge of computer from basics to different programming languages like C, C++, JAVA, VB.NET etc.
2	PSO_2:	It will provide the knowledge of Database, Different types of Database Software, its application & implementation in real life software's.
3	PSO_3:	It will enable the student for developing websites using different scripting languages.
4	PSO_4:	It will enable the student for developing application /software's using different programming languages.
5	PSO_5:	Program focuses on giving knowledge of Computer Skill Like java script, Linux and shell programming, R Lang, XML programming, SQL server, MySQL etc. so that students have hands on practice on such subjects.
6	PSO_6:	The students will get awareness about the new subjects like Android, Python, JSP Servlet etc. which are used in MNC
7	PSO_7:	Due to some courses like Digital Image Processing student will take initiative in research Field
8	PSO_8:	Program also focuses on giving knowledge of Basic Networking, Mobile computing so that student will select the Computer Networking field as a Career
9	PSO_9:	students will able to take up self-employment in Indian & global software market.
10	PSO_10:	Program also focuses on to Meet the requirements of the Industrial standards.

Azad Mahavidyalaya, Ausa.

Department of Botany

PSO of botany

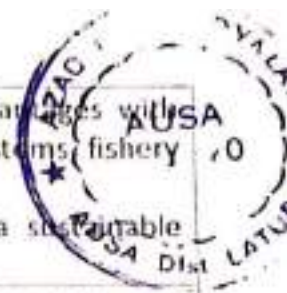


S.N.	PSO No.	Programme Specific Outcomes (PSOs) of B.Sc. Botany
1	PSO_1:	The program will provide an updated education to the students at large in order to know the importance and scope of the discipline.
2	PSO_2:	It will provide mobility to students to other university or state.
3	PSO_3:	It will enable the students to face NET, SET, UPSC and other competitive examinations successfully.
4	PSO_4:	The students will get knowledge of plant science as the basic objective of education.
5	PSO_5:	It will develop a scientific attitude to make students open minded, critical and curious.
6	PSO_6:	The students will develop an ability to work on their own and to make them fit for the society.
7	PSO_7:	The students will expose themselves to the diversity amongst life forms.
8	PSO_8:	There will be development of skill among students in practical work, experiments, equipments and laboratory use along with collection and interpretation of plant materials and data.
9	PSO_9:	9 PSO9 The students will get awareness about natural resources and environment and the importance of conserving the same.
10	PSO_10:	The students will be able to apply the acquired knowledge in the fields of life so as to make our country self-reliant and selfsufficient

Department of Fishery Science



<p>Programme Outcomes</p>	<ol style="list-style-type: none"> 1) Obtain knowledge of fishery science, with a particular emphasis on the biology, assessment, and management of fish and invertebrate fisheries. 2) Achieve knowledge of the scientific tools of data collection in fisheries science and demonstrate competence in compiling and reporting of that data 3) Earn a degree in a timely fashion.
<p>Programme Specific Outcome</p>	<ol style="list-style-type: none"> 1) Develop, operate and manage aquaculture production systems. 2) Operate and manage fishponds, hatchery, fish cage/pens. 3) Produce aquatic plants and animals in a cost effective manner. 4) Detect and manage fish diseases. 5) Provide the necessary nutritional requirement for desired growth and survival of the stock.
<p>COURSE</p>	<p>COURSE OUTCOMES</p>
<p>Paper - I Ichthyotaxonomy and Ecological Adaptation</p>	<ol style="list-style-type: none"> 1) Students will identify fishes and develop and maintain museum. 2) Identification of fishes helps in the export of processed edible fishes as the buyers are very conscious about the correct fish identification along with their scientific and popular names. 3) Correct scientific name of any fish on which one is going to work is a pre-requisite for anyone before starting his biological research.
<p>PAPER II Type study Wallago attu (Fresh water shark).</p>	<ol style="list-style-type: none"> 1) Students will learn all the systems like digestive system, respiratory system, circulatory system etc. 2) That will help the students for their research.
<p>Paper - III Fresh water fish culture technology.</p>	<p>Student will acquire knowledge of:-</p> <ol style="list-style-type: none"> 1) Basic biology of aquatic living resources. 2) Basic marine and freshwater environmental science and oceanography. 3) Aquaculture and fisheries practices for major species worldwide and locally. 4) Aquaculture systems for major species worldwide and locally. 5) Elements of water quality important to aquaculture.



<p>PAPER IV Fish seed production and hatcheries management.</p>	<ol style="list-style-type: none"> 1) Student will discuss advantages and disadvantages of the two aquatic food primary production systems, fishery and aquaculture. 2) Discuss important factors for performing a sustainable fishery and a sustainable aquaculture.
<p>PAPER V: PRACTICAL</p>	<ol style="list-style-type: none"> 1) Examines the biology and ecology of marine and freshwater fish and invertebrate species important to commercial and recreational fisheries, emphasizing the Australian scene. 2) Introduces the topics of Fisheries management and aquaculture management by focusing on the aspects of the species biology that are relevant to their exploitation including taxonomy, anatomy, geomorphology, feeding, reproduction, age and growth, conservation biology and habitat management.
<p>Paper – VI Ecology & Fish Pathology.</p>	<ol style="list-style-type: none"> 1) Demonstrate mastery of basic competencies needed to be an effective aquatic science professional, including understanding and application of the most common and important tools of aquatic ecology and fisheries, including organism collection, habitat assessment and related field and laboratory techniques, basic and applied mathematics and numeracy, statistics, and fundamentals of the scientific method.
<p>Paper – VII Fish Biology.</p>	<ol style="list-style-type: none"> 1) Demonstrate understanding of economics and natural resource management principles and techniques (e.g., assessment, intervention, evaluation, and policy).
<p>Paper – VIII Fish Anatomy, Physiology & Fish microbiology.</p>	<ol style="list-style-type: none"> 1) Demonstrate broad familiarity with fishes and other aquatic organisms from both freshwater and marine environments, as well as breadth in organism diversity of plants or microbes and animals, including their taxonomy, evolution, anatomy, physiology, distribution, and life history.
<p>Paper –IX Fish Technology & Processing.</p>	<p>After completing the course:</p> <ol style="list-style-type: none"> 1) Students will be able to define chemical composition of fish and shellfish. 2) Students will be able to discuss microbiology of fresh and processed fish Students will be able to specify methods of handling of fish. 3) Students will be able to explain canning process. 4) Students will be able to explain curing and freezing of fish. 5) Students will be able to discuss by products of fish processing.



<p>Paper- X Practical Paper based on Theory Paper VI & VIII.</p>	<p>1) Communicate scientific concepts, observations and experimental results in a variety of oral and written formats.</p>
<p>Paper- XI Practical Paper based on Theory Paper VII & IX.</p>	<p>1) Communicate scientific concepts, observations and experimental results in a variety of oral and written formats.</p>
<p>Skill Enhancement course- I Manufacturing of fish by-products.</p>	<p>1) Demonstrate the basic technical skills necessary for work in aquaculture and fisheries (e.g. boats, diving, plumbing, system design, scientific method, data collection and analysis). 2) Fish meal and fish oil represent the most valuable products obtained from marine byproducts.</p>
<p>Skill Enhancement course- II Fish Preservation and Processing Technology.</p>	<p>1) After completing this course students can able to, Deliver the different unit operations and its equipments involved in fish processing fishing resources. 2) Develop value added products from fish. 3) Able to know about quality control of fish processing 4) Know about different methods of processing of fish. 5) Able to acquire a confident to get placement in any fish processing industry.</p>
<p>Paper - XII Indian Fisheries and Mericulture.</p>	<p>1) Understanding of the Classification of Fishery Zones and Fishery resources. 2) Provides an overview of Marine Fishery resources.</p>
<p>Paper – XIII Aquaculture Techniques- culture of fish and nonfish organisms.</p>	<p>1) Apply modern equipment in laboratories, special computer programs for design of fisheries and aquaculture farms by implementation of innovative ideas for management of farms. 2) Describe the fisheries and aquaculture technological processes, identify problems and solve them, relate agriculture activity and aquaculture productivity and safety, analyze and evaluate effects of the fisheries and aquaculture on the environment, to provide the preventive safety measures. 3) Apply methods and techniques used in fisheries and aquaculture design and construction, their management methods and quality assurance principles. 4) Solve the technological challenges related to management of fisheries and aquaculture farms. 5) Organize activities to ensure their entrepreneurship and competitiveness.</p>

Skill Enhancement course- III Fish Feed Production Technology.	1) Basic principles of marketing and food science. 2) Fishing methods and technology 3) Principles of fisheries science and ecosystem based fisheries management.
Paper – XIV Aquarium Keeping and Rearing Of Ornamental Fishes.	1) Student will explain importance of ornamental fish culture in relation with entrepreneurship development. 2) Students will get knowledge about various techniques of ornamental fish breeding, rearing and its marketing to make them self sustainable after graduation. 3) Student will acquire techniques of construction of glass aquarium and its maintenance. 4) Student will explain about fish food production and health related problems with ornamental fish.
Paper – XV Fish Economics, Marketing, Cooperatives and Extension.	Understanding of key topics in marine and fisheries economics. Student will :- 1) Apply economic concepts and techniques to a range of specific issues in the management of marine and fisheries resources. 2) Analyze marine and fisheries resource problems as failures of the economic system to properly coordinate people's incentives and actions. 3) Incorporate broader biological, social and political factors that also shape public policies in the marine environment.
Skill Enhancement course- IV Fabrication of Aquarium.	1) Student will Design and construct aquarium. 2) Student will be well known about fabrication and maintenance of aquarium.
Paper – XVI and XVII PRACTICAL.	1) Communicate scientific concepts, observations and experimental results in a variety of oral and written formats.



Course Outcomes: Mathematics

B.Sc. F.Y. Mathematics



1.

Course: Differential Calculus (P-I)

After successfully completing this course, the student will be able to:

CO1: Understanding concept of Limit, Continuity of Single and two variable Functions

CO2: Find the Higher order derivatives of Product of Functions

CO3: Expand functions in terms of infinite series

CO4: Find Equation of Tangent, Normal and Length of Tangent, Normal, Sub-tangent, Sub-normal.

CO5: Understanding of Mean Value Theorem concepts.

CO6: Understand the concept of Partial differentiation.

CO7: Use the results to solve problems.

CO8: Differentiate difference between derivative of single variable and two variables.

2.

Course: Algebra & Trigonometry (P-II)

After successfully completing this course, the student will be able to:

CO1: Add, Subtract and Multiply two Matrices.

CO2: Recognize the different types of Matrices.

CO3: Find the Inverse of invertible Matrices.

CO4: Determine the Rank of a Matrix.

CO5: Transform matrix to Row Echelon form.

CO6: Solve the System of Linear Equations.

CO7: Find the Characteristic Roots and Characteristic Vectors of a Square Matrix.

CO8: Check that every square matrix satisfies its own Characteristic Polynomial.

3.

Course: Integral Calculus (P-III)



After successfully completing this course, the student will be able to:

- CO1: Apply method of integration to find the integral of function.
 - CO2: Solve examples of definite integrals using Properties definite integrals
 - CO3: Find the area and volume of given shape.
 - CO4: Understanding concept of Gamma and Beta Functions.
 - CO5: Solve problems on Multiple Integrals.
 - CO6: Find the integration of various example.
 - CO7: Understanding concepts of plane of Method of Integration
-

4.

Course: Geometry (P-IV)

After successfully completing this course, the student will be able to:

- CO1: Understanding concepts on Three Dimensional Geometry.
 - CO2: Find equations of Right lines, Planes, Spheres, Cones and Cylinders.
 - CO3: Understand the intersection of any two or three, three dimensional geometrical figures.
 - CO4: Transform the equation of a plane to the normal form.
 - CO5: Transform equation of line from the unsymmetrical to the symmetrical form.
 - CO6: Find the length of perpendicular from a point to a plane.
 - CO7: Find the Direction cosines of any line under the different given conditions.
 - CO8: Find the angle of intersection of two spheres.
 - CO9: Understanding concepts of plane of contact.
-

5.

Course: Mathematics Practical (P-V)

After successfully completing this course, the student will be able to:

- CO1: Verify associativity of matrix addition, left distributive law and right distributive law of matrices.
- CO2: Find determinant, eigen values, eigen vectors, inverse, powers and characteristics polynomial of a square matrix.
- CO3: Understanding concepts of MATLAB
- CO4: To draw the graph of different functions with the help of MATLAB software and related Freeware.

CO5: Solving the Various type of example by using MATLAB.

B.Sc. S.Y. Mathematics

6.

Course: Real Analysis-I (P-VI)

After successfully completing this course, the student will be able to:

CO1: TO Define a set theory & Function.

CO2: To understand the operation on Set.

CO3: Understanding concepts of real valued function.

CO4: To understand the bounded function

CO5: Describe fundamental properties of the real numbers that lead to the formal development of real analysis.

CO7: Comprehend rigorous arguments developing the theory underpinning real analysis.

CO8: Demonstrate an understanding of limits and how they are used in sequences, series, Construct rigorous mathematical proofs of basic results in real analysis

CO9 : To understand the concept of sequence & sub sequences.

CO10 : To learn the concept of convergence & Divergence



7.

Course: Group Theory (P-VII)

After successfully completing this course, the student will be able to:

CO1: Understand the importance of algebraic properties with regard to working within various number systems.

CO2: To understand the concept of Mapping, its types & Example.

CO3: Present concepts of and the relationships between operations satisfying various properties (e.g. commutative property).

CO4: Present concepts and properties of various algebraic structures.

CO5: understand the importance of algebraic properties with regard to working within various number systems

CO6: extend group structure to finite permutation groups (Cayley's Theorem).

CO7: understand Sylow's Theorems

CO8: generate groups given specific conditions

CO9: To define various types of group and understand its concepts.

CO10: To know about Homomorphism & Isomorphism and Also its theorem, examples



8.

Course: Ordinary Differential Equation (P-VIII)

After successfully completing this course, the student will be able to:

CO1: To understand the polynomial & its basic concept.

CO2: To understand solving the linear equation of the first order differential equation

CO3: To explain general linear equation of first order.

CO4: Solving the determinant of linear equation.

CO5: *Theory of Systems of Linear Ordinary Differential Equations*

CO6: Evaluate first order differential equations including separable, homogeneous, exact, and linear

CO7: Show existence and uniqueness of solutions

CO8: Solve second order and higher order linear differential equations.

CO9: Create and analyse mathematical models using higher order differential equations to solve application problems such as harmonic oscillator and circuits.

CO10: Solve differential equations using variation of parameters

CO11: Solve linear systems of ordinary differential equations

9.

Course: Real Analysis-II (P-IX)

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

CO1: To know about Definition & existence of the integral

CO2: Knowledge and Understanding: Learn the theory of Riemann-Stieltjes integrals, to be acquainted with the ideas of the total variation and to be able to deal with functions of bounded variation.

CO3: Intellectual Skills: Develop a reasoned argument in handling problems about functions, especially those that are of bounded variation.

CO4: General and Transferable Skills: Develop the ability to reflect on problems that are significant in the field of real analysis.

CO5: Knowledge of basic theorems and concepts in the different areas of mathematics.

CO6: Knowledge of the implementation of theories in problem solving.

CO7: Various definitions and properties of the Riemann integral.

CO8: Pointwise and uniform convergence of sequences (and series) of functions; conditions for continuity, integrability and differentiability of the limit (sum).

CO9: The notion of measure and its natural domain, Lebesgue's outer measure, Lebesgue's measure and its properties.

CO10: Lebesgue's integral, its properties and its supremacy over the Riemann integral, Heavy set.



10.

Course: Ring Theory (P-X)

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

CO1: To write precise and accurate mathematical objects in ring theory

CO2: For checking the irreducibility of higher degree polynomials over rings.

CO3: To understand the concepts like ideals and quotient rings.

CO4: To understand the concept of ring homomorphism.

CO5: To understand the concept of ring homomorphism

CO6: To Explain Some Classes of ring.

CO7: Assess properties implied by the definitions of rings.

CO8: Use various canonical types of rings

CO9: Analyze and demonstrate examples of ideals and quotient rings

CO10: Use the concept of isomorphism and homomorphism for rings.

11.

Course: Partial Differential Equation (P-XI)

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



- CO1: Introduce students to partial differential equations.
 - CO2: Introduce students to how to solve linear Partial Differential with different methods.
 - CO3: Find the solutions of PDEs are determined by conditions at the boundary of the spatial domain and initial conditions at time zero.
 - CO4: Technique of separation of variables to solve PDEs and analyse the behaviour of solutions in terms of eigen function expansions.
 - CO5: classify partial differential equations and transform into canonical form
 - CO6: solve linear partial differential equations of both first and second order
 - CO7: apply partial derivative equation techniques to predict the behaviour of certain phenomena.
 - CO8: apply specific methodologies, techniques and resources to conduct research and produce innovative results in the area of specialisation.
 - CO9: extract information from partial derivative models in order to interpret reality.
 - CO10: identify real phenomena as models of partial derivative equations.
 - CO11: Explain the concepts and language of partial differential equations
 - CO12: Classify the partial differential equations
 - CO13: Solve the partial differential equation using charpits method, Jacobis method
-

B.Sc. T.Y. Mathematics

12.

Course: Metric Space (P-XII)

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

- CO1: Learn the basic abstract ideas of analysis
- CO2: Learn the basic ideas open sets, closed sets, limit point, isolated points, boundary points, subspace, product metric spaces and apply them to study the nature of sets
- CO3: . Learn the theorems on completeness, compactness, connectedness and use them to solve the problems. Identify the continuity of a function which is defined on metric spaces, at a given point and identify the set of points on which a function is continuous by using different theorems
- CO4: Deal with various examples of metric spaces;



- CO5: Have some familiarity with continuous maps;
 - CO6: Work with compact sets in Euclidean space;
 - CO7: Work with completeness;
 - CO8: Apply the ideas of metric spaces to other areas of mathematics.
-

13.

Course: Linear Algebra (P-XIII)

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

- CO1: To understand elementary basic concept of vector spaces.
 - CO2: To learn linear independent and Basis.
 - CO3: Know about the concept of Dual space.
 - CO4: To solve some example of vector space.
 - CO5: Knowing about inner product space.
 - CO6: Define some specific Definition.
 - CO7: Understand the concept of matrices.
 - CO8: To learn algebra of linear transformation.
 - CO9: To prove some theorem's
 - CO10: Use the concept of basis and dimension of vector spaces linear dependence and linear independence, to solve problems
-

14.

Course: Mechanics -I (P-XIV)

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

- CO1: To understand some basic definitions
- CO2: Explain the law of Parallelogram
- CO3: To understand the magnitude and direction of the resultant
- CO4: discuss resultant of a parallel forces

- CO5: Knowing about the equilibrium of forces acting on a particles
- CO6: Explain triangle law of forces
- CO7: To learn polygon of a force
- CO8: Understand about forces acting on rigid body
- CO9: Explain lami's theorem.



15.

Course: Numerical Analysis (P-XV)

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

- CO1: The students will learn how to Solve the Ordinary differential equation by various method
- CO2: The students will learn how to find the Integration & Derivative by various methods
- CO3: The students will learn how to find the roots of the equation by various methods
- CO4: understand the theoretical and practical aspects of the use of numerical analysis.
- CO5: establish the limitations, advantages, and disadvantages of numerical analysis.
- CO6: understand of common numerical analysis and how they are used to obtain approximate solutions to otherwise intractable mathematical problems.
- CO7: Prove results for various numerical root finding methods.
- CO8: Derive appropriate numerical methods to solve interpolation-based problems
- CO9: The course will also develop an understanding of the elements of error analysis for numerical methods and certain proofs.

16.

Course: Integral Transform (P-XVI)

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

- CO1: Introduction to Laplace transform, formulae , & imp properties.
- CO2: Apply the fundamental concepts of Fourier series, Fourier Sine series, Fourier Cosine series and find series representation of irrational numbers.
- CO3:
- CO4:
- CO5: Write given function in terms of sine and cosine terms in Fourier series and also to get knowledge in Fourier transforms.
- CO6: Learn the methods and properties of Laplace transform and Inverse Laplace Transform, apply them to solve Linear Differential equations.
- CO7: To understand Laplace transform of derivative of order n
- CO8: To find the inverse Laplace transform
- CO9: Knowing about shifting properties



17.

Course: Mechanics -II (Dynamics) (P-XVII)

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

- CO1: To understand some basic definitions
- CO2: To explain Expressions for Velocity and Acceleration
- CO3: To find various Components of Velocity and Acceleration
- CO4: To explain Curvature and Principal normal
- CO5: To understand Newton's Laws of Motion & its drawback.
- CO6: Define some important definitions
- CO7: Learn about Conservative Field of Force
- CO8: Motion of a Projectile and Motion in Resisting Medium
- CO9: To explain Motion of Projectile and Derivation of Equation of its trajectory.



COURSE	COURSE OUTCOMES
Chemistry Paper-I	To enable the students to learn nomenclature and basic concepts in organic chemistry and also understand cyclo-alkanes and alcohols also collect the knowledge about periodic table noble gas and its properties.
Chemistry Paper-II	To acquaint knowledge on mathematical concept in chemistry . study of surface chemistry and states of the matter and also enable to S-block elements and oxidation and reduction.
Chemistry Paper-III	To enable the students to learn about the aromaticity and aromatic hydro-carbons also the useful units such as phenols , halo alkanes and halo-arene the most applied carboxylic acid and its derivatives .
Chemistry Paper-IV	Enable the student to get understand the basic of atomic structure, liquid state , colloidal state and most applicable catalysis . and also the basic concept like chemical bonding.
Chemistry PR-V	Student get understanding practically to find the acidic and basic radicals by semi micro qualitative analysis also synthesis some organic compounds with that they understand to determine viscosity , surface tension of liquid and various solution study .
Chemistry Paper VI	To acquaint knowledge on name reaction with mechanism , aromatic carboxylic and sulphonic acid and organo metallic compounds also they understand widely using oils , fats , soaps and detergents properties and preparation. In this course student get enable theory of qualitative analysis and non aqueous solvent which is very useful in future study .
Chemistry Paper VII	To enable the students to learn about atomic structure and wave mechanics , the applied units thermodynamic and phase equilibrium . Also they get knowledge of nuclear chemistry of gravimetric analysis which is useful for different kinds of analysis data .
Chemistry Paper VIII	Students to learn stereochemistry , carbo hydrates , nitrogen containing organic compounds such as aromatic amines .



	Urea also study applications of reagent in organic chemistry. Also they get understand chemistry d-block and f-block element.
Chemistry Paper IX	To enable the students to know about chemical kinetics, electro chemistry, photo chemistry and chemistry of non transition elements.
Chemistry Paper PR X	Students to acquaint knowledge about identification qualitative analysis of organic compounds also they get practical knowledge of quantitative analysis of some estimations also perform volumetric analysis and complexometric titrations.
Chemistry Practical-XI	Students acquire knowledge on instrumental and non instrumental methods for analysis in which conductometric, potentiometric and colorimetric methods are employed in non instrumental methods energy of activation is determined also they can find partition coefficient and solution study also they get practical knowledge about study of kinetics of some reactions. The most applicable practices they get about separation of binary mixture and estimation of one by volumetric analysis.
Chemistry Paper -XII	To enable the students to know about heterocyclic compounds and 6 members heterocyclic compounds. study on synthetic drugs and dyes, alkaloids, vitamins and pesticides also they get knowledge of coordination chemistry and chemistry of elements in medicine.
Chemistry Paper -XIII	To enable the students to learn about spectroscopic techniques such as IR micro wave and Raman's Specter. Also they get understand kinetics of third order reaction distribution law and metal carbonyls.
Chemistry Paper -XIV	To enable the students to learn about spectroscopic methods like UV spectroscopy, IR spectroscopy and NMR spectroscopy which are widely used by researcher for understanding structure also they get knowledge of amino acids and peptides.



Chemistry Paper -XV

To enable the students to learn about electrochemistry , thermodynamic and magneto chemistry also they get knowledge of bioinorganic chemistry and metal cluster ,

Chemistry PR-XVI

Student get knowledge of organic qualitative analysis and synthesis of different organic compounds .

Chemistry PR-XVII

Students will gain an understanding of analysis techniques by using instrumental and noninstrumental methods , in instrumental methods they get hands on practice on potentiometer , Ph meter conductometer polarimeter. In noninstrumental methods they use various techniques for determination of physical quantities. with this they get prepare complexes of metals and quantitative analysis of metal ion.



VI	DECEII(Section A)	Communication Electronics II (P-XIV)(COMPULSORY)	03	45	10	40		
	DECEII(Section B elective)	Power Electronics II (P-XV A) OR Microcontroller 8051 Programming and Interfacing(P-XV B)	03	45	10	40		
	SECIV	SECIV A : Digital Logic Design SECIV B : Programming Skill in 'C'	03	45	25	25	50	2
V and VI	DECEPII(Section A)	P-XVI Practical based on P-XII	03	24	5	20	25	1
		Practicals based on P-XIV	03	24	5	20	25	1
	DECEPII(Section B)	P-XVII Practical based on P-XIII (B)	03	24	5	20	25	1
		Practical based on P-XV (B)	03	24	5	20	25	1

Total Credits Semester V and VI : 16

[A] Programme Outcomes : Electronics

1. An ability to design and conduct experiments, as well as to analyze and interpret data.
2. An ability to design an electronic system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety, and manufacturability.
3. An ability to function on multidisciplinary teams.
4. An ability to identify, formulate, and solve engineering problems.
5. An understanding of professional and ethical responsibility.
6. An ability to communicate effectively.
7. The broad education necessary to understand the impact of technical solutions in a global, economic, environmental, and societal context.
8. An ability to engage in life-long learning.
9. A knowledge of contemporary issues in technologies related to electronics



[B] Programme Specific Outcomes :

1. Design and implement the systems' components and processes serving the needs of environment and society
2. Perform experiment, analyze and interpret results
3. Use modern tools and technical skills necessary for electronic system development
4. Understand the impact of electronics in modern era
5. Explore the needs of society for sustainable development and human values
6. Understand professional, ethical and legal responsibilities
7. Work effectively in diverse and multidisciplinary tasks, to accomplish common goal
8. Engage in continuing educational / professional, entrepreneurship development
9. Apply electronics engineering and management principles / skills, as a member and leader in a team to solve social and industrial problems.

[C] Course Outcomes :

Paper-I Electronic Components and Circuit Analysis

On completion of the course, students are able to:

1. Understand electronic systems with a continuously variable signal
2. Understand proportional relationship between a signal and a voltage or current that represents the signal.
3. To learn function of basic component's use in linear circuits.
4. Understand component symbol, working principle, classification and specification.
5. To learn different basic applications of electronic components-I Electronic Components and Circuit Analysis

Paper – II Fundamentals of Digital Electronics

On completion of the course, students are able to:

1. Understand basic digital electronic systems
2. To learn function of basic digital circuits and use of logic gates in order to perform Boolean logic.
3. To learn different theorems for simplification of basic Digital electronics circuits.
4. Student understand symbols, Truth tables, Boolean equations, & working principle.



5. At the end of this course, students should be able to recognize and analyze the basic diode circuits.

Paper – III Semiconductor Devices and Instrumentation

On completion of the course, students are able to:

1. Understand the basic characteristics and operation of semiconductor devices such as p-n junctions and Zener diodes
2. Have knowledge of fabrication technology for semiconductor devices and integrated circuits
3. To understand Basic Analog and digital meters for measurement of various electrical parameter.
4. To learn basic test instruments such as power supply, function generator, and CRO and their construction and working principle.
5. Students understand construction, working and characteristics of various diodes and transistors and their applications in digital circuits

Paper – IV Combinational and Sequential Logic Circuits

On completion of the course, students are able to:

1. Simplify the Logic Families.
2. Design and analyze combinational logic circuits
3. Design and analyze synchronous sequential logic circuits
4. Design and analyze asynchronous sequential logic circuits

Paper – V Practicals

On completion of the course, students are able to:

1. Identify the unique vocabulary associated with electronics and explain the basic concepts of Semiconductor diodes such as p-n junction diode, characteristics and ammeters, Zener diode.
2. To apply the basics of diode to describe the working of rectifier circuits such as Full and half wave rectifiers.
3. To solve examples on rectifiers for parameters such as Capacitance, load and source effect, line and load regulations, and circuit current.
4. Construct and verify the operation and characteristics of semiconductor diodes.

Paper – VI Amplifiers, Oscillators & Multivibrators

On completion of the course, students are able to:

1. Design and construct electronic circuits for oscillators, amplifiers, regulated power supplies using integrated circuits.
2. Understand transistor biasing and working principle of Amplifiers.
3. Explain feedback and oscillatory circuits.
4. An idea about Multivibrators and sweep circuits.



Paper – VII Fundamentals of Microprocessors

On completion of the course, students are able to:

1. To understand basic architecture of 16 bit microprocessors.
2. Able to write programs on 8086 microprocessor based systems.
3. Illustrate the organization of registers and memory in microprocessors.
4. Differentiate Minimum and Maximum Mode bus cycle.
5. Identify the addressing mode of an instruction.
6. Develop programming skills in assembly language.

Paper – VIII Op-Amp, Its Applications & Some specialized ICs

On completion of the course, students are able to:

1. To understand Basic differential amplifier and their applications in linear Integrated circuits
2. To learn basic function of operational amplifier, Ideal and practical characteristics and their mathematical application.
3. Explain the characteristics and applications of operational amplifier
4. To learn basic function Specialized ICs

Paper – IX Microprocessor Interfacing

On completion of the course, students are able to:

1. Understand interrupt and interrupt service routine.
2. Understand I/O interfacing and techniques.
3. Understand advance microprocessor.



Paper – X and Paper – XI

On completion of the course, students are able to demonstrate:

1. Op-Amp as Adder, Op-Amp as Subtractor, Op-Amp as Integrator, Op-Amp as Differentiator, Op-Amp as Comparator and Op-amp as Analog Computer.
2. Op-Amp as Inverting Amplifier (DC Gain Verification) and Op-Amp as Non-inverting Amplifier (DC Gain Verification).
3. Op-Amp as Inverting Amplifier (Study of Frequency Response, Gain & -3db Band Width) and Op-Amp as Non-inverting Amplifier.
4. IC555 Timer as Astable Multivibrator.
5. Transistorized Astable Multivibrator (Measurement of Pulse Width, Space Width, Time Period, Frequency and Duty Cycle).
6. Transistorized Mono stable multivibrator (Measurement of Gate Width).
7. Transistorized Bistable Multivibrator.
8. RC Ramp Generator using Transistor (MION easurement of Rise Time, Fall Time and Frequency).
9. ALP for addition of two byte and result 16 – bit numbers
10. ALP for subtraction of two bytes.
11. ALP for 1's complement of 8 bit and 16 bit numbers.
12. ALP to find 2's complement of 8 bit and 16 bit numbers.
13. ALP to find largest and smallest number of series
14. ALP for shifting of 8 bit number:
 - a) Left by one bit position
 - b) Left by two bit position

Skill Enhancement Course SEC I Physics Workshop Skill

On completion of the course, students are able to:

1. Measure f ac and dc voltages/ currents by using analogue multimeter
2. Measure ac and dc voltages / currents by using digital multimeter
3. Test electronic components by using multimeter such as diodes, transistors FETs etc.
4. Measure voltage, time period and frequency using CRO.
5. Measure rise and fall time using CRO. 6. Study wave forms generated by a function generator.

Skill Enhancement Course SEC II Electrical Circuits & Network Skills

On completion of the course, students are able to:

1. Study charging and discharging of a condenser through resistor R.
2. Determine Op-Amp. Parameters
3. Study of transducers (Thermistor, LDR, Photodiode photo transistor etc.)
4. Study frequency response of a microphone.
5. Soldering Skills.
6. Trouble Shooting of simple electronic circuits.
7. Design and development of low voltage power supply.
8. Solve differential equation by using Op-Amp.
9. Study the response of inductors and capacitors with DC or AC sources.
10. Study the capacitance by using LCR meter.

Paper-XII Communication Electronics-I

On completion of the course, students are able to:

1. Understand the basic concept of communication system.
2. Understand AM, FM and demodulation.
3. Understand antenna and radio wave propagation used in communication system.
4. Understand basic concept of digital communication system.
5. Understand the fiber optic communication.

Paper-XIII Introduction to Microcontroller 8051

On completion of the course, students are able to:

1. Ability to differentiate microprocessor and microcontroller.
2. Describe the architecture of 8051
3. Able to write assembly language program for 8 bit microcontroller

Skill Enhance Course –III Linear Circuit Designing

On completion of the course, students are able to:



1. Analyze linear electrical circuits using the modified nodal analysis, mesh analysis, and space methods, and apply the state space method in conjunction with graph-theoretic applications.
2. To learn function of basic component's use in linear circuits.
3. Understand component symbol, working principle, classification and specification.
4. To learn different theorems for simplification of basic linear electronics circuits.
5. Analyze the input-output properties of interconnected two-port networks.



Paper-XIV Communication Electronics-II

On completion of the course, students are able to:

1. Understand basic concept of digital communication system.
2. Understand the fiber optic communication.
3. Understand Radar communication system.
4. Understand use of microwave in communication system.
5. Understand the generation of current and forthcoming generation of mobile communication

Paper-XV Microcontroller 8051 Programming and Interfacing

On completion of the course, students are able to:

1. Ability to differentiate microprocessor and microcontroller.
2. Describe the architecture of 8051
3. Able to write assembly language program for 8 bit microcontroller

Paper-XVI and Paper-XVII Practical's

On completion of the course, students are able to:

1. Implement and verify the Modulation, Demodulation circuits
2. Implement and verify the use of fiber optics in communication system.
3. Design and execute simple programs using Microcontroller 8051.

Skill Enhance Course –IV Digital Logic Design (DLD)

On completion of the course, students are able to:

1. Simplify the Logic Families.
2. Design and analyze combinational logic circuits.

Course outcomes for Microbiology Course:

BACHOLOR OF SCIENCE



Department of Microbiology

Objectives to be achieved:	<ul style="list-style-type: none"> • To introduce the concepts of different applications of research in various field of Microbiology. • To inculcate sense of scientific responsibilities, social awareness and environment awareness • To help students build-up a successful and progressive career. • To deepen students knowledge and prepare them in the pure microbial sciences • Ability to innovate so as to generate new knowledge.
Programme Outcome	<p>Students will communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing.</p> <p>Students will acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis. Students will demonstrate engagement in the Microbiology discipline through involvement in research or internship activities, the Microbiology Student Association club (MSA) and outreach or mentoring activities specific to microbiology.</p>
Programme Specific Outcome	<p>A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. This course also includes sophomore level material covering immunology, virology, and epidemiology and DNA technology. Recommended for all allied health students. Three hours lecture and four hours lab per week. Awareness how some microbiology leads may be developed into enterprise.</p> <p>Awareness of requirements for fruition of a microbiology-related enterprise.</p> <p>Acquired knowledge and understanding of the microbiology concepts as applicable to diverse areas such as medical, industrial, environment, genetics, agriculture, food and others.</p> <ol style="list-style-type: none"> 1. Demonstrate key practical skills/competencies in working with microbes for study and use in the laboratory as well as outside, including the use of good microbiological practices. 2. Competent enough to use microbiology knowledge and skills to analyze problems involving microbes, articulate these with peers/ team members/ other stake holders, and undertake remedial measures/ studies etc. 3. Developed a broader perspective of the discipline of Microbiology to enable him to identify challenging societal problems and plan his professional career to develop

innovative solutions for such problems.

B.Sc. Microbiology - Course Outcomes



COURSE	COURSE OUTCOMES
INTRODUCTORY MICROBIOLOGY (P-I)	<p>On successful completion of this subject the students will gain knowledge about Microbiology starting from history and knowledge about the micro organisms.</p> <p>At the conclusion of this course the students –</p> <ul style="list-style-type: none">• Have developed a good knowledge of the development of the discipline of Microbiology and the contributions made by prominent scientists in this field.• Have developed a very good understanding of the characteristics of different types of microorganisms, methods to organize/classify these into and basic tools to study these in the laboratory.• Are able to explain the useful and harmful activities of the microorganisms.• Are able to perform basic experiments to grow and study microorganisms in the laboratory.
MICROBIOLOGICAL TECHNIQUES (P-II)	<p>Basic skills such as culturing microbes, maintaining microbes, safety issues related to handling of microbes, Good Microbiological practices etc. On successful completion of this subject the students will gain basic knowledge about Microbiology starting from history. Basic laboratory techniques and basic knowledge about the micro organisms.</p>
BASIC MICROBIOLOGY & BIOMOLECULES (P-III)	<p>To inculcate knowledge in basic microbiology and biomolecular.</p>
MICROBIAL PHYSIOLOGY (P-IV)	<p>To inculcate knowledge in cell divisions, functions and microbial physiology.</p> <p>By the conclusion of this course, the students are capable of -</p> <ul style="list-style-type: none">• Describing the growth characteristics of the microorganisms capable of growing under unusual environmental condition of temperature, oxygen and solute and water activity.• Describing the growth characteristics of the microorganisms which require different nutrient for growth and the associated mechanisms of energy generation for their survival like autotrophs, heterotrophs, chemolithoautotrophs, etc.• Differentiating concepts of aerobic and anaerobic respiration and how these are manifested in the form of different metabolic pathways in microorganisms.
APPLIED MICROBIOLOGY (P-VI)	<p>On successful completion of this subject the students should have Knowledge on bioinstrumentation and their application and usages.</p>
IMMUNOLOGY	<p>To inculcate knowledge in human immune response towards</p>

<p>(P-VII)</p> <p>Food, Soil Microbiology and Microbial Ecology (P-VIII)</p>	<p>microorganisms</p> <p>Enable the student to get sufficient knowledge in relation between food and microbes, techniques used in food processing.</p> <p>By the completion of this course, the students -</p> <ul style="list-style-type: none"> • Have developed a fairly good knowledge and understanding of different types of environments and habitats where microorganisms grow including the microbiomes of human gut and animal gut. • Are able to identify the important role microorganisms play in maintaining healthy environment by degradation of solid/liquid wastes; how these activities of microorganisms are used in sewage treatment plants, production of activated sludge and functioning of septic tanks • Have understood the significance of BOD/COD and various tests involving use of enumerating fecal <i>E.coli</i> for assessing quality of water. • Have developed the practical skills for conducting experiments to assess the BOD/COD of wastewaters and their interpretation; practically assess the portability of drinking water by the use of standard microbiological tests.
<p>Medical Microbiology (P-IX)</p>	<p>To inculcate knowledge in relationship between human disease and micro organisms, pathogenicity, laboratory diagnosis and treatment methods.</p> <p>By the conclusion of this course, the students clearly -</p> <ul style="list-style-type: none"> • Understood the basic and general concepts of causation of disease by the pathogenic microorganisms and the various parameters of assessment of their severity including the broad categorization of the methods of diagnosis. • Developed a thorough understanding of common bacterial, viral, fungal, parasitic diseases of human being including some very important diseases of the animals also. • Conceptualized the protective role of the immune system of the host and developed an understanding of the basic components as well as the mechanisms underlying the immune system and its response to pathogenic microorganisms. • Are able to conduct experiments for growing common bacteria in different microbiological media, antibiotic sensitivity determination and antigen antibody reaction (precipitation test in the agarose)
<p>Microbial Genetics DSEMB I</p>	<p>This course Presents about Section culture and maintenance, Identification of Mutants - Physical and Chemical Methods, Experiments to determine Mendel's law, Monohybrid and dihybrid cross using plants, Sex chromatin (buccal smear), Skill Based Subje</p>
<p>Nitrogen Metabolism DSEMB I</p>	<p>To inculcate knowledge in relationship Biochemistry of Bacterial Nitrification/Denitrification</p>
<p>Molecular Biology DSEMB II (Section</p>	<p>This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have</p>





<p>A)</p>	<p>understood the molecular aspects of genetics. By the conclusion of this course, the students-</p> <ul style="list-style-type: none"> • Has acquired knowledge of gene, their expression and regulation of expression. • Has acquired a fairly good understanding mechanism of genetic exchange, mutations and their implications. • Has developed practical skill for isolation of bacterial plasmid DNA and its visualization in gel after separation by electrophoresis. • Has acquired a fairly good knowledge of the tools and the methods for genetic engineering. • Has acquired a fairly good understanding of how these tools and methods are employed in the laboratory for manipulation of DNA so as to make it relevant for biotechnological uses. • Students can perform isolation of DNA, amplification of any gene by PCR and its analysis by Agarose gel electrophoresis.
<p>Industrial Microbiology DSEMB II (Section B I)</p>	<p>This course Presents about Microbes in Industrial Microbiology. Downstream processing and Typical Fermentative production. By the conclusion of this course, the students -</p> <ul style="list-style-type: none"> • Are capable of describing a large number of substrate that are used for the industrial fermentation processes. • Have developed an understanding of different types of reactors or fermenters which are used for laboratory, pilot and industrial scale fermentations and their processes parameters. • Have acquired a detailed knowledge of number of products which are produced by industrial fermentation processes.
<p>Pharmaceutical Microbiology DSEMB II (Section B II)</p>	<p>This course presents Medicines for different disease Goals: To make the student to understand the concept therapy. Objectives: On successful completion of the subject the student should have understood: Drug administration, drug metabolism and allergy.</p>
<p>Practicals Based on P - XII & P - XIV (DSEMBP I) [DSEMB I & II]</p>	<p>Practical includes studies of growth of microorganisms and life activities of Microorganisms.</p>

Highlighted writing indicates newly added points in PO, PSO and CO


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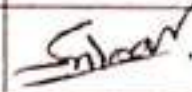
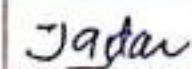
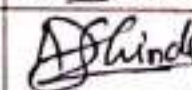

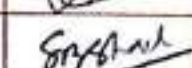
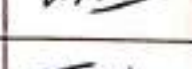
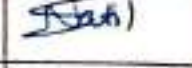
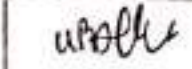
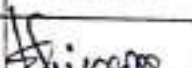
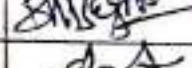
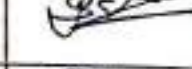



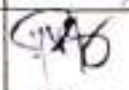
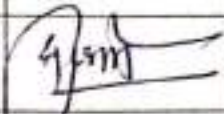

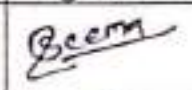

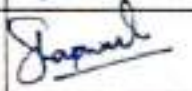
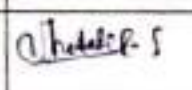


NOTICE


Date: 08/08/2020

All the HoDs of senior college are hereby informed that they should give teaching plan, scheme of internal assessment, POs, PSOs and COs of their course in class and give its weblink.


Principal
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1	Dr. N. K. Syed	English	
2	Prof. Jahagirdar T. A.	Hindi	
3	Mr. D. A. Shinde	Marathi	
4	Dr. A. K. Sardarpasha	Urdu	
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9	Dr. S. V. Pade	Economics	
10	Dr. K. N. Sayyad	Public Admin	
11	Mr. B. N. Jadhav	Library Science	

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16	Dr. S. S. Korde	Fishery science	
17	Mr. Zargar Owais	Computer science	
18	Miss. S.O.Shahapurkar	Botany	
19	Dr. R. S. Shertate	Microbiology	
20	Dr. R. V. Suryawanshi	Electronics	
21	Mr. K. R. Durugkar	Commerce	


Principal
Arad Mahavidyalaya Area
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Date: 10/11/2021

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Weblink of POs COs and PSOs

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