Walwa Taluka Education Society's

YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR

Tal. Walwa Dist. Sangli

Maharashtra

PROGRAMME OUTCOMES (POs), PROGRAMME SPECIFIC OUTCOMES (PSOs) AND COURSE OUTCOMES (COs)

2019-20

PROGRAMME OUTCOMES (POs)

BACHELOR OF ARTS (B. A.)

- To demonstrate knowledge and to understand selected fields of study in humanities, social sciences and languages.
- To apply critical and analytical method to identify and resolve the problems with social contexts.
- To apply independent approach for themes and methodologies.
- To create good citizenship among the students.
- To communicate communication skills and soft skills.
- To develop the learners in all perspectives.

BACHELOR OF COMMERCE (B. COM.)

- To understand the principles and practices of management.
- To understand basic accounting and its application to business.
- To acquire qualities and skills of entrepreneurship.
- To face the changing environment of business in the process of Globalization.
- To understand basic knowledge of quantitative techniques applicable to business.
- To understand the concepts in insurance, Banking, Marketing and e-commerce.

BACHELOR OF BUSINESS ADMINISTRATION (B. B. A.)

- Understand fundamental concepts and principles of management, realistic and practical applications of these concepts and functions of management
- Familiar with interactions between the environment, technology, human resources, and organizations in order to achieve high performance
- Understand the Industrial functioning and strategies to overcome challenges in markets
- Understand different accounting concepts and conventions.
- Identify the role and significance of various elements of marketing.
- Understand of broad business concepts and principles
- Develop various real time applications using latest technologies and programming languages.

- Possess strong foundation for their higher studies.
- Become employable in various IT companies and government jobs.
- Develop Critical Thinking Skills, Communication Skills, Technology Skills, and Business Knowledge etc.

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

- Develop various real time applications using latest technologies and programming languages.
- Apply knowledge of mathematics, computer science and management in practice.
- Prepare program for a range of computer applications, computer organization, techniques of computer networking, software engineering-Commerce, Web Designing, Big Data, IOT, Python and Advance JAVA.
- Demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems.
- Demonstrate use of appropriate techniques to effectively manage business challenges.
- Effectively communicate business issues, management concepts, plans and decisions both in oral and written form using appropriate supportive technologies.
- Possess strong foundation for their higher studies.
- Blend analytical, logical and managerial skills with the technical aspects to resolve real world issues.
- Become employable in various IT companies and government jobs.
- Enhance their programming skills. Learn essential IT support skills including installing, configuring, securing and troubleshooting operating systems and hardware
- Apply knowledge of computing, mathematics, science, and engineering appropriate to the modelling and design of software

BACHELOR OF SCIENCE (B. SC.)

- The College has introduced B. Sc. from this academic year and offered seven science subjects: Physics, Chemistry, Botany, Zoology, Mathematics, Electronics and Computer Science.
- Apart from these specific subjects, the skill enhancement courses (SEC) and ability enhancement course (AECC) are included in the curriculum of the affiliating university.

- These courses introduce a wide range of topics to students to understand the basic knowledge of branches of sciences.
- To understand and develop subject skills of Physics, Chemistry, Botany, Zoology Mathematics and computer science.
- It helps to develop scientific temper among the students.

MASTER OF COMMERCE (M. COM)

The College has introduced Master of Commerce (M. Com) from this academic year and offered four subjects: Management Concept and Organizational Behavior, Managerial Economics, Business Finance, Managerial Accounting, Advanced Accounting etc. Upon post-graduation, students will be able:

- To acquire sound Knowledge of concepts, methods and techniques of management accounting.
- To develop competence with their usage in managerial decision making and control
- To gain ability to solve problems relating to Company Accounts, Valuations and special types of situations.
- To gain knowledge of the provisions of Income - tax to calculate taxable Income of 'Individual', 'Hindu Undivided Family' and 'Firm' assesses
- To learn application of different methods of costing in Manufacturing and Service Industry.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

MARATHI

- To understand and appreciate Marathi literature and language.
- To understand nature and creative process of literature.
- To increase interest in reading Marathi literature.
- To understand importance of language in day-to-day life.

HINDI

- To understand the history of Hindi literature and its various forms.
- To understand Hindi language and literature.
- To make use of Hindi in day-to-day life.
- To develop communication skills in Hindi.
- To study formal and informal use of language.
- To propagate Hindi as a national language.

ENGLISH

- To understand the history of English literature and its various forms.
- To know major literary writers, genres and periods.
- To make critical appreciation of English literature.
- To develop communication skills in English.
- To develop knowledge of English culture, history, and texts.
- To understand basic concepts in linguistics and their usage.

ECONOMICS

- To study Indian and world economy.
- To study macroeconomic policies as fiscal and monetary policies of India.
- To determine economic variables including inflation, unemployment, poverty, GDP, Balance of payments using statistical methods.
- To understand the behavior of financial and money markets and perform cost benefit analysis for investments.
- To master the general ability of analyzing economic issues and problems.

HISTORY

- To study and interpret history objectively.
- To study the history of various countries in the world.
- To study the change and impact of the revolutionary events.
- To understand Indian freedom struggle and freedom fighters in making of modern India.
- To realize the role of social reform movements in the development of modern India.

GEOGRAPHY

- To understand the physical setup of the world.
- To study relationship between human activities and physical resources.
- To relate the global level situation to the local level.
- To study natural and manmade disasters and their management.
- To acquire scientific temperament and respect diversity in the world.
- To acquire different cartographic and geoinformatic techniques and methods used for representation of demographic and physio-socio-economic database.

ACCOUNTANCY

- To provide thorough knowledge about fundamentals of Commerce and Accountancy
- To deliver the skills to participate in the modern business and economic world.
- To develop ability to address various tax issues and reforms
- To offer practical exposure to equip the student to face the challenges in Business.
- To develop Proficiency for completing various professional courses
- To contribute towards the development of new practices and procedures of Accounting.
- To understanding the basic concepts and advantages of Cost Accounting
- To create ability to identify the critical role of cost allocation and cost apportionment for ascertaining cost of various cost centers and rates for recovery of overhead.

INDUSTRIAL MANAGEMENT

- Understand fundamental concepts and principles of industrial management, realistic and practical applications of these concepts and functions of management
- To deliver the skills to participate in the modern business and economic world.
- To contribute towards the development of new practices of Industrial Management
- To study natural and manmade disasters and their management
- To develop competence with their usage in managerial decision making and control

COURSE OUTCOMES (COs)

MARATHI

बी. ए. भाग 1 : पाठ्यपुस्तक - शब्दसंहिता (आवश्यक अभ्यासपत्रिका)

१) विद्यार्थ्यांची मराठी भाषा आणि साहित्य या विषयी अभिरुची विकसित करणे.
२) साहित्य परंपरा, लेखक,कवी यांचा परिचय करून देणे.
३) विद्यार्थ्यांमध्ये मातृभाषा राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्य याविषयीजाणीव निर्माण करणे.
४) विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धापरीक्षांची पूर्वतयारी करून घेणे.
५) निबंधलेखनाच्या माध्यमातून भाषा उपयोजना ची कौशल्ये विकसित करणे.

बी. ए. भाग 1 : पाठ्यपुस्तक - अक्षरबंध (अभ्यासपत्रिका-१)

१) विद्यार्थ्यांची मराठी भाषा आणि साहित्य या विषयी अभिरुची विकसित करणे.
२) साहित्य परंपरा, लेखक,कवी यांचा परिचय करून देणे.
३) विद्यार्थ्यांमध्ये मातृभाषा राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्य याविषयीजाणीव निर्माण करणे.
४) विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धापरीक्षांची पूर्वतयारी करून घेणे.
५) चित्रपट आणि प्रसारमाध्यमे यांच्या लेखन आणि उपयोजना च्या आकलनाचा अवकाश वाढविणे.

बी. ए. भाग 2 : पाठ्यपुस्तक- काय डेंजर वारा सुटलाय! (नाटक)सत्र -३ विद्याशाखीय विशेष गाभा अभ्यासपत्रिका-३.

१) नाटक या वाङ्मय प्रकाराचे आकलन करून घेणे.
२) समकालीन नाटकातून नाटककाराच्या समकालाचे प्रतिबिंब कशा प्रकारे प्रकट होते याचा अभ्यास करणे.
३) नाट्य अभ्यासाद्वारे प्रयोग रूप नाटक व नाट्य क्षेत्रातील ज्ञानसंपादन चालना देणे.
४) नाट्याभ्यासातून सभ्यता, संस्कृती, राष्ट्रीय एकात्मता व बंधुता वाढीस लावणे.
५) विद्यार्थ्यांमध्ये संवाद लेखन कौशल्य विकसित करणे.

बी. ए. भाग2 : पाठ्यपुस्तक- काव्यगंधसत्र -३ विद्याशाखीय विशेष गाभा अभ्यासपत्रिका-४.

१) मराठी काव्य परंपरा व काव्य प्रवाह यांची ओळख करून घेणे.
२) मराठी काव्यातून प्रकट होणारे माणूस आणि समाज आज यातील परस्पर संबंध शोधणे.
३) कवितेच्या कलात्मक आकृतिबंधाचे मोल अभ्यासणे.
४) काव्य प्रवाहानुरूप काव्य लेखनाचे विशेष अभ्यासणे.
५) प्रात्यक्षिकाद्वारे लेखन कौशल्य रुजविणे.

बी. ए. भाग2 :साहित्यकृती-माती, पंख, आणि आकाश(आत्मचरित्र) सत्र -४ विद्याशाखीय विशेष गाभा अभ्यासपत्रिका-५

१) आत्मचरित्र या वांग्मय प्रकाराची ओळख करून घेणे.
२) इतर वांग्मय प्रकार आणि आत्मचरित्र यातील अभिव्यक्ति रूपांचा अभ्यास करणे .
३) आत्मचरित्रकाराच्या व्यक्तिमत्त्वाची जडणघडण आणि त्याचा समकालीन समजून घेणे.
४) वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे.
५) आत्मवृत्तपर लेखन कौशल्ये विकसित करणे.

बी. ए. भाग2 : साहित्यकृती-जुगाड सत्र -४ विद्याशाखीय विशेष गाभा अभ्यासपत्रिका-६

१) कादंबरी या वांग्मय प्रकाराची ओळख करून घेणे.
२) समकालीन कादंबरीतील नव्या अवकाशाचा शोध घेणे व आधुनिकतेमधील अंतर्विरोध समजून घेणे .
३) मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४) कादंबरीलेखनाचे विशेष अभ्यासणे.
५) वृत्तांत लेखन कौशल्ये रुजविणे.

बी. ए. भाग3 : सत्र -५ विद्याशाखीय विशेष निवड,,सहित्यविचारअभ्यासपत्रिका-७

१) पौर्वात्य पाश्चात्त्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजून घेणे.
२) साहित्य प्रयोजनाचे आकलन करून घेणे .
३) साहित्याची निर्मिती प्रक्रिया आणि त्याचे स्वरूप आकलन करून घेण.
४ ललित व ललितेतर साहित्याचे स्वरूप समजून घेणे.
५) भाषेतील अलंकार समजून घेणे.

बी. ए. भाग3 : सत्र -५ विद्याशाखीय विशेष निवड,, मराठी भाषा व भाषाविज्ञान अभ्यासपत्रिका-८

१) भाषा उत्पत्तीचा अभ्यास करणे.
२)भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेणे .
३) स्व न विचार व वाक्य विचारांचा परिचय करून देणे.
४) भाषा विज्ञानाचा परिचय करून देणे.
५) मराठी भाषेविषयी विद्यार्थ्यांची आवड निर्माण करणे.

बी. ए. भाग3 : सत्र -५ विद्याशाखीय विशेष निवड,, मध्ययुगीन मराठी वांगमयाचा इतीहास अभ्यास पत्रिका क्र.IX

१) मध्ययुगीन मराठी वांगमयाचा कालिक अभ्यास करणे.
२) मध्ययुगीन मराठी वांगमयाचा स्थूल परिचय करून घेणे .
३) मध्ययुगीन मराठी वांगमयाचा चे स्वरूप, वैशिष्ट्ये अभ्यासणे.
४) मध्ययुगीन मराठी वांग्मयातील महत्त्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय करून घेणे.
५) मध्ययुगीन मराठी वांगमया च्या गद्य-पद्य रचनेचे विशेष अभ्यासणे.

बी. ए. भाग3 : सत्र -५ विद्याशाखीय विशेष निवड,, मराठी भाषा व अर्थार्जनाच्या संधीअभ्यास पत्रिका क्र.X

१) सर्जनशील लेखन प्रक्रिया समजून घेणे.
२) वैचारिक लेखनाचे स्वरूप अभ्यासणे .
३) शोधनिबंध व प्रकल्पलेखन कौशल्य समजून घेणे.
४) आंतरजालावरील मराठी लेखनपद्धती अभ्यासणे.

बी. ए. भाग3 : सत्र -५ विद्याशाखीय विशेष निवड, वांग्मय प्रवाहाचे अध्ययन- मध्ययुगीनअभ्यास पत्रिका क्र.XI

१) मध्ययुगीन महाराष्ट्र व महानुभाव पंथ यांचा परिचय करून.
२) महानुभाव वांगमया च्या प्रेरणा व स्वरूप समजून घेणे .
३) महानुभावीय ग्रंथकार केसोबास यांचा परिचय करून घेणे.
४) दृष्टांतपाठातील आशय स्वरूप व अभिव्यक्ती विशेष अभ्यासणे
५) दृष्टांत पाठातील भाषिक वैभवाचा परिचय करून घेणे.

बी. ए. भाग3 : सत्र -६ विद्याशाखीय विशेष निवड, सहित्यविचार अभ्यास पत्रिका क्र.XII

१) शब्द शक्ति चे आकलन करून घेणे.
२) साहित्यातील रसाचे स्वरूप व रस प्रक्रिया समजून घेणे .
३) निर्मितीच्या आनंदाची मीमांसा करणे.
४) व्यवहार भाषा, शास्त्र भाषा, आणि साहित्य भाषा यातील भेद समजून घेणे
५) साहित्य भाषेचे आकलन करून घेणे.
६) भाषेतील छंद व वृत्ते यांचा अभ्यास करणे.

बी. ए. भाग3 : सत्र -६ विद्याशाखीय विशेष निवड,, मराठी भाषा व भाषा विज्ञान अभ्यास पत्रिका क्र.XIII

१) मराठी भाषेची वर्ण व्यवस्था समजून घेणे.
२) ध्वनि व अर्थ परिवर्तनाची कारणे व प्रकार यांची माहिती करून घेणे .
३) प्रमाण भाषेचे स्वरूप व विशेष अभ्यासणे.
४) बोलींचे स्वरूप व विशेष समजून घेणे.
५) मराठी भाषेबद्दलची विद्यार्थ्यांची आवड विकसित करणे.

बी. ए. भाग3 : सत्र -६ विद्याशाखीय विशेष निवड, मध्ययुगीन मराठी वांग्मयाचा इतिहास अभ्यास पत्रिका क्र.XIV

१) मध्ययुगीन मराठी वांगमयाचा कालिक अभ्यास करणे.
२) मध्ये योगी मराठी वांगमयाचा स्चूल परिचय करून घेणे .
३)पंडित कवी व त्यांची रचना यांचा परिचय करून घेणे.
४) बखर वांग्मय आणि शाहिरी वांग्मय यांचे स्वरूप विशेष अभ्यासणे.
५) मध्ययुगीन मराठी गद्य पद्य रचनेचे विशेष अभ्यासणे.

बी. ए. भाग3 : सत्र -६ विद्याशाखीय विशेष निवड,, मराठी भाषा व अर्थार्जनाच्या संधी अभ्यास पत्रिका क्र.XV

१) प्रसारमाध्यमातील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे.
२) स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून घेणे .
३)उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन करणे.
४) मुद्रित शोधनाची पद्धत अभ्यासणे.

बी. ए. भाग3 : सत्र -६ विद्याशाखीय विशेष निवड, वांग्मय प्रकाराचे अध्ययन-ललित गद्य(व्यक्तिचित्रे) अभ्यास पत्रिका क्र.XVI

१) ललित गद्य वांग्मय प्रकाराचे स्वरूप अभ्यासणे.
२) व्यक्तिचित्र संकल्पना व स्वरूप समजून घेणे. ३) प्रवाहानुरूप मराठीतील व्यक्तीचित्रांचे स्वरूप अभ्यासणे.
४) मुलखावेगळी माणसं मधील शैक्षणिक सामाजिक सांस्कृतिक राजकीय पर्यावरण आणि कौटुंबिक भावविश्व अभ्यासणे.
५) मुलखावेगळी माणसं मधील व्यक्तीविशेषांचे आकलन करून घेणे.
६) मुलखावेगळी माणसं मधील ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन करून घेणे.
७) मुलखावेगळी माणसं मधील अभिव्यक्ती निवेदनशैली व भाषा विशेष अभ्यासणे.

HINDI

बी. ए. भाग १ : हिंदी (विषेश ऐच्छिक)

1. छात्रों की हिंदी साहित्य के प्रति रुचि बढाना
2. छात्रों को हिंदी के प्रतिनिधि गद्यकारों एवं कवियों से परिचित कराना।
3. छात्रों में हिंदी भाशा के श्रवण, पठन एवं लेखन की क्षमताओं को विकसित कराना।
4. निबंध, कहानी, रेखाचित्र, एकांकी,रिपोर्ताज, संस्मरण, व्यंग्य आदि विधाओं के माध्यम से छात्रों का भावात्मक विकास कराना।

5. छात्रों में नैतिक मूल्य, राश्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण करना।
6. छात्रों में राश्ट्र के प्रति प्रेम, राश्ट्रीय ऐक्य स्थापना एवं सामाजिक प्रतिबद्धता हेतु राश्ट्रभाशा हिंदी का प्रचार-प्रसार करना।

बी. ए. भाग २ : हिंदी (ऐच्छिक) तृतीय सत्र प्रश्नपत्र -3 : अस्मितामूलक विमर्श और हिंदी गद्य साहित्य

1. कथा साहित्य का स्वरूप, तत्व एवं प्रकारों का अध्ययन कराना।
2. समीक्षा मानदंडो के आधार पर कथा साहित्य का अध्ययन कराना।
3. कथेतर साहित्य का समीक्षात्मक अध्ययन कराना।
4. कथा और कथेतर साहित्य का वर्तमान प्रासंगिकता के साथ अध्ययन कराना

बी. ए. भाग २ : हिंदी (ऐच्छिक) तृतीय सत्र प्रश्नपत्र - 4 :हिंदी संतकाव्य तथा राष्ट्रीय काव्यधारा

1. छात्रो की हिंदी साहित्य के प्रति रुचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना।
2. छात्रों को मध्यकालीन हिंदी कवियों से परिचित कराना।
3. छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण करना।
4. छात्रों को आधुनिक हिंदी कविता मे चत्रित विविध विमर्षो से परिचित कराना

बी. ए. भाग २ : हिंदी (ऐच्छिक) चतुर्थ सत्र – प्रश्नपत्र 5 : रोजगार परक हिंदी

1) छात्रो मे हिंदी मे कार्य करणे की विचार क्षमता,कल्पनाशीलता,एवं रुचि विकसित करना l
2) रोजगारोन्मुख शिक्षा एवं कौशल्य प्रदान करना I
3) कार्यालय और व्यवसाया मे हिंदीप्रयोग का कौशल ज्ञान विकसित करना I
4) पत्राचार के स्वरूप का परिचय करना I
5) अनुवाद और व्यावहारिक लेखन का महत्व तथा उपयोगिता से परिचित करना I
6) छात्रों मे हिंदी भाषा के श्रवण पठन एवं लेखन कौशल्य को विकसित करना I

बी. ए. भाग २ : हिंदी (ऐच्छिक) चतुर्थ सत्र प्रश्नपत्र - 6 : अस्मितामूलक विमर्श और हिंदी पद्य साहित्य

1. छात्रों को हिंदी कवियों से परिचित कराना।
2. छात्रों में हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमता को विकसित कराना।
3. छात्रों की हिंदी साहित्य के प्रति रुचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना।
4. छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण कराना।

बी. ए. भाग ३ : सत्र- 5 प्रश्नपत्र - VII : विधा विशेष का अध्ययन

1.नाटककार कुसुमकुमार की बहुमुखी प्रतिभा से परिचित कराना।
2.नाटककार कुसुमकुमार के साहित्य से परिचित कराना।
3.नाटककार कसुमकुमार की विचारधारा से परिचित कराना।
4.नाटककार कुसुमकुमार के निर्धारित ग्रथ का सूक्ष्म आल¨चनात्मक अध्ययन कराना।
5.लेखिका के नाटककार के रूप मे साहित्यिक स्थान क¨ निर्धारित कराना।

बी. ए. भाग ३ : सत्र - V प्रश्नपत्र- VIII : साहित्यशास्त्रऔर सत्र-VI प्रश्नपत्र- XIII : साहित्यशास्त्र और हिंदी आलोचना

1) साहित्य निर्मिति की प्रक्रिया का बोध कराना।
2) साहित्य /काव्य के विभिन्न अंगों से परिचित कराना।
3) साहित्य/काव्य की नवीन विधाओंसे परिचित कराना।
4) समीक्षा सिद्धांत से परिचित कराना।
5) साहित्य /काव्य के तत्वों से परिचित कराना।
6) अलंकारों से परिचित कराना।

बी. ए. भाग ३ :सत्र V प्रश्नपत्र IX और सत्र VI प्रश्नपत्र XIV : हिंदी साहित्य का इतिहास

1) हिंदी भाषा तथा साहित्य की विकास यात्रा से अवगत करना I
2) हिंदी साहित्य की विकास यात्रा मे हिंदी भाषा के माध्यम से अलग अलग विचार धारा और प्रवृत्तीयों से अवगत करना।
3) छात्रो मे साहित्य समझने तथा उसका आस्वादन मूल्यांकन करणे की दृष्टी को बढाना I
4) छात्रोंको साहित्य के संदर्भ मे विभिन्न साहित्यिक विधाओं के विकास क्रम से परिचित करना I
5) इतिहासकरों द्वारा प्रस्तुत काल विभाजन और नामकरण को जानने के लिए प्रेरित करना I
6) हिंदी के प्रमुख संत कवि, उनकी रचनाये और उनका समाजसुधार मे योगदान से परिचित करना I
7) हिंदी साहित्य के अंतर्गत गद्य-पद्य विधा और उसके भेदों, उपभेदों से अवगत करना I

बी. ए. भाग ३ :सत्र-V प्रश्नपत्र –X और सत्र-VI प्रश्नपत्र – XV : प्रयोजनमूलक हिंदी

1.हिंदी में कार्य करने की रूचि विकसित करना।
2. रोजगार उन्मुख शिक्षा एवं कौशल्य प्रदान करना।
3. पारिभाषिक शब्दावली से परिचित करना।
4. सरकारी पत्राचार के स्वरूप का परिचय कराना।
5.जनसंचार एवं इलेक्ट्रॉनिक माध्यमों से परिचय कराना।
6. अनुवाद स्वरूप, महत्व तथा उपय ंगिता से परिचित कराना।
7. रोजगार परक हिंदी की उपयोगिता स्पष्ट कराना।

बी. ए. भाग ३ :सत्र-V प्रश्नपत्र-XI भाषा विज्ञान और हिंदी भाषा और सत्र – VI प्रश्नपत्र –XVI भाषा विज्ञान और हिंदी भाषा

1) भाषा के विविध रूपों का परिचय कराना ।
2) भाषा विज्ञान का सामान्य परिचय कराना।
3) हिंदी भाषा एवं लिपि के उद्भव और विकास का परिचय कराना ।
4) भाषा की शुद्धता के प्रति छात्र को जागृत करना ।
5) मानक हिंदी वर्तनी और व्याकरण से परिचित कराना ।

बी. ए. भाग ३ : सत्र -V प्रश्नपत्र - XII DSE-E131

1. उपन्यास के तात्विक स्वरूप का परिचय देना।
2. उपन्यासकार के व्यक्तित्व एवं कृतित्व से परिचित कराना।
3. रचना विशेष का महत्व समझना एवं मूल्याकंन करने की क्षमता बढाना ।

ENGLISH

B.A. Part I – (AECC 1) (Comp. English) (CBCS) English for Communication (Sem I & II)

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

B.A. Part I (Discipline Specific Core) (DSC- A3) (English Paper –I) (Semester – I)
Modern Indian Writing in English Translation

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to short story as a form of literature with reference to the texts prescribed.
3. To develop literary competence among students

B.A. Part I (Discipline Specific Core) (DSC –A15) (English Paper –II) (Semester – II)
Modern Indian Writing in English Translation

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to poetry and play as forms of literature with reference to the texts prescribed.
3. To develop literary competence among students.

B. A. Part II : (CBCS) ENGLISH FOR COMMUNICATION
(Compulsory English)

1. To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the students essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
5. To help the students to learn and practice both language and soft skills.
6. To encourage the active involvement of the students in learning process.
7. To enable the students to cultivate a broad, human and cultured outlook

B. A. Part II (Discipline Specific Core) (DSC-C5) English (Paper III) (Semester III)
LITERATURE AND CINEMA (CBCS)

1. To introduce film and its relationship to literature to the students
2. To acquire film literacy through a working knowledge of basic film terminology
3. To develop critical approaches to engage with film adaptations
4. To establish a clear understanding of literature through film adaptations of literary texts
5. To introduce the students to the issues and practices of cinematic adaptations

B. A. Part II (Discipline Specific Core) (DSC-C29) English (Paper V) (Semester IV)
LITERATURE AND CINEMA (CBCS)

1. To introduce film and its relationship to literature to the students
2. To acquire film literacy through a working knowledge of basic film terminology
3. To develop critical approaches to engage with film adaptations
4. To establish a clear understanding of literature through film adaptations of literary texts
5. To introduce students to the issues and practices of cinematic adaptations

B. A. Part II (Discipline Specific Core) (DSC-C6) English (Paper IV) (Semester III)
PARTITION LITERATURE (CBCS)

1. To create an awareness of the partition scenario among the students
2. To explain the hidden human dimensions of the partition to the students
3. To elaborate on the impact of partition on society

B. A. Part II (Discipline Specific Core) (DSC-C30) English (Paper VI) (Semester IV)
PARTITION LITERATURE (CBCS)

1. To create an awareness of the partition scenario among the students
2. To explain the hidden human dimensions of the partition to the students
3. To elaborate on the impact of partition on society

B. A. Part III Special English Semester V Paper VII
Literary Criticism and Critical Appreciation

1. To introduce the learners to the major trends in literary criticism
2. To familiarize them with the major critical concepts
3. To make them study the original contributions to literary criticism
4. To acquaint them with the various literary movements
5. To train them to write critical appreciation of poetry

B. A. Part-III Special English Semester - V (Paper - VIII)
Understanding Poetry

1. To make the students engaged and curious readers of poetry
2. To introduce the students to poetry from various cultures and traditions
3. To make the students understand that poetry gives intellectual, moral and linguistic

B. A. Part III Language and Linguistics
Semester–V Paper-XI To acquaint the students with:

1. Speech mechanism
2. The basic sounds in English language
3. Word transcription and word stress
4. The word–formation processes; word classes
5. Types of phrases and their form and function

B. A. Part III: Language and Linguistics Semester–VI Paper-XVI
To acquaint the students with:

1. Various types of clauses
2. The structure of complex sentences in English
3. Types of subordinate clauses, and their form and function labels
4. Cohesive devices
5. Discourse analysis

B.Com.I (CBCS): English for Business Communication

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

B.Com.II (CBCS) English for Business Communication

1 To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the student's essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
5. To help the students to learn and practice both language and soft skills.
6. To encourage the active involvement of students in learning process.
7. To enable the students to cultivate a broad, human and cultured outlook.

HISTORY

B.A.II Sem. III: Paper III- History of Modern Maharashtra (1900 to 19600) CBCS

1. Understand the beginnings and growth of nationalist consciousness in Maharashtra
2. Explain the contribution of Maharashtra to the national movement
3. Give an account of various movements of the peasants, workers, women and backward classes
4. Know the background and events which led to the formation of separate state of Maharashtra

B.A.II Sem. III: Paper IV- History of India (1757-1857) CBCS

1. Acquaint himself with significant events leading to establishment of the rule of East India Company
2. Know the colonial policy adopted by the company to consolidate its rule in India
3. Understand the structural changes initiated by colonial rule in Indian economy
4. Explain the various revolts against rule of the East India Company

B.A.II Sem. IV: Paper V- History of Modern Maharashtra (1960-2000) CBCS

1. Acquaint himself with the contribution of eminent leaders of Maharashtra
2. Know about the economic transformation of Maharashtra
3. Understand the salient features of changes in society
4. Explain the growth of education

B.A.II Sem. IV: Paper VI- History of Freedom Struggle (1858-1947) CBCS

1. Understand the events which lead to the growth of nationalism in India
2. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi
3. Explain the contribution of Revolutionaries, Left Movement and Indian National Army
4. Know the concept of Communalism and the causes and effects of the partition of India

B.A.II SEM III: IDS Paper I: Social Reforms in India (CBCS)

1. Understand the salient features of prominent socio-religious reform movements
2. Explain the thought and work of Mahatma Phule for radical transformation of Indian Society
3. Know the measures taken by Rajashri Shahu Maharaj for emancipation of lower classes and women
4. Understand the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India
5. Know how the Indian constitution embodies the values of social justice and equality

B.A.II SEM IV: IDS Paper II: Social Reforms in Maharashtra (CBCS)

1. Know about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prathana samaj
2. Understand the contribution of women reformers
3. Explain the contribution of Social reformers in the fight for social justice
4. Explain the role played by educational reforms in transformation of society

GEOGRAPHY

B. A. I Sem. I: Paper I Physical Geography

1. Understand the background knowledge of Geography, Geology and Climatology.
2. Know basic concepts in physical geography like Continental Drift and Cycle of Erosion.
3. Identify and communicate some geomorphologic concepts and processes take place on the earth surface and within the earth crust.
4. Think critically about atmospheric phenomena.

B. A. I Sem. II: Paper II Human Geography

1. Understand the background knowledge of Human Geography, Population and Agricultural Geography.
2. Think critically on the factors affecting agriculture and problem associated with it.
3. Knowledge of human population, its' growth and consequences
4. Gain knowledge rural and urban settlement

B. A. II Sem. III: Paper III Soil Geography

1. Understand the process of formation of soil
2. Gain the knowledge about the type of soil
3. Increase the awareness about soil degradation and its remedies
4. Learn the soil analysis

B. A. II Sem. III: Paper IV Resource Geography

1. Understand the concept of resource
2. Gain the knowledge about classification of resources
3. Learn about the water, forest, energy and human resources and their utilization
4. Increase awareness about problems associated with sustainable resources

B. A. II Sem. III: IDS Paper I Concepts in Tourism Geography

1. The geographical, social and cultural components of Tourism are understood.
2. Know the recent trends in tourism
3. Understood the impacts of various factors on tourism
4. Aware about the sustainable tourism development.

B. A. II Sem. IV: Paper V Oceanography

1. Understand oceanography as a branch of physical geography
2. Gain the knowledge about oceanic temperature.
3. Understand the concept of oceanic currents their distribution and mechanism
4. Aware about the ocean pollution and its remedies

B. A. II Sem. IV: Paper VI Agricultural Geography

1. Understand the major agricultural systems in India
2. Know about the agricultural regionalization
3. Think about the physical and human determinants of agriculture
4. Aware about the major agricultural problems

B. A. II Sem. IV: IDS Paper II Development and Planning of Tourism

1. Know the tourism planning
2. Gain the knowledge about the various tourism centres in India
3. Gain the knowledge about the various tourism centres in Maharashtra
4. Involve in the tourism planning and development

B. A. III Sem. V: Paper VII Physical Geography of India

1. Understand the physical setting of geography in India.
2. Know the concept of climate and mechanism of climate change.
3. Understand the importance soil and vegetation, erosion and conservation
4. Study the drainage pattern in India

B. A. III Sem. V:Paper VIII: Economic Geography

1. Understand the convectional and non-convectional resources in India
2. Know the importance of agriculture in Indian economy
3. Understand the importance of Industries in Indian economy
4. Increase in the knowledge of trade and transport system

B. A. III Sem. V: Paper IX: Research Methodology

1. Understand the importance of research methodology.
2) Understand the concepts in research methodology.
3) Get familiar with principles and techniques of research.
4) To develop skills for applying ICT in geography.
5) Aware about the students research methodology with recent technology

B. A. III Sem. VI: Paper X: Economic Geography of India

1) Acquainted with distinct dimensions of India. 2) Understand the economic setup of the country.
3) Aware about the agricultural product of the country.
4) Get information about air ways, railways, and road ways in India.
5) Get information about transport and trade in India.

B. A. III Sem. VI:Paper XI: Urban Geography

1. Know the types of Urban Settlements, site & Situation.
2. Get the ideas of relationship between human activities & urban development.
3. Increase capability for handling the present problematic situation in Urban and rural areas.
4. Become good planner and environmental Conservator.

B. A. III Sem. VI: Paper XII: Political Geography

1. Acquainted distinct dimensions of Political Geography
2. Understand the basic concepts in Political Geography
3. Increase awareness about the role of geographical factors influencing the political character of countries
4. Gain the knowledge of the geo-political issues in the world with special reference to India

B. A. III Sem. VI: Paper XIII: Map work and Map Interpretation

1. Students introduce with the importance of map making & map Interpretation.
2. Students are understand map, concept of projection and concept of scale.

3. Trained in analysis of landforms.
4. Developed the skill of map Interpretation
5. Know about the S.O.I. toposheets and I.M.D. weather maps.
6. Students familiarized with the different cartographic techniques and methods used for representation of demographic and physio- socio-economic database.

B. A. III Sem. VI: Paper XIV: Advanced Tools, Techniques & Field Work

1. Students introduced with the importance of field work & advanced Techniques in Geography.
2. Trained in application of modern tool & techniques in Geography.
3. Enhanced the skill in instrumental survey.
4. Students enabled to understand the use of computer for analysis of Geographical data.
5. Get basic information about Arial Photographs, Remote Sensing, GIS and GPS.

ECONOMICS

B. A. III (Semester V) (Elective Course- 7): Principles of Micro Economics- I

1. Explain what economics is and explain why it is important
2. Understand consumer decision making and consumer behaviour
3. Define the concept of utility and satisfaction
4. Derive revenue and cost figures as well as curves
5. Understand producer decision making and producer behaviour

B. A. III (Semester VI) (Elective Course- 12) Principles of Micro Economics- II

1. Identify the market structure
2. Analyse the economic behaviour of individual firms and markets
3. Analyse a firm's profit maximising strategies under different market conditions
4. Understand the factor pricing

B. A. III (Semester V) (Elective Course- 8): Economics of Development

1. Identify the dimensions of development
2. Distinguish the fundamental and contemporary development debate
3. Know the theories of economic development
4. Realise the role of state in economic development

B. A. III (Semester VI) (Elective Course- 13): Economics of Planning

1. Get acquainted with economic planning and its importance in development
2. Get acquainted with development of planning and planning machinery in India
3. Evaluate sectoral performance of the Indian economy
4. Compare and analyse Indian models of economic development

B. A. III (Semester V) (Elective Course- 9): International Economics- I

1. Explain international trade
2. Understand the measurement of gains from international trade
3. Distinguish different rates of exchange
4. Measure the terms of trade

B. A. III (Semester VI) (Elective Course- 14): International Economics- II

1. Distinguish between balance of trade and balance of payments
2. Analyse the balance of payments
3. Understand the various types of foreign capital
4. Analyse the impact of international institutions on Indian economy

B. A. III (Sen.) (Elective Course- 10): Research Methodology in Economics- I

1. Get acquainted with the basic concepts of research and its methodologies.
2. Select and define appropriate research problem and parameters.

B. A. III (Sem.VI) (Elective Course- 15): Research Methodology in Economics- II

1. Understand the sampling techniques as a method of data collection
2. Use techniques of data analysis in research
3. Write a research report and thesis
4. Write a research proposal (grants)

B. A. III (Semester V) (Elective Course- 11): History of Economic Thoughts- I

1. Understand the basic economic ideas of various economic thinkers of the world
2. Understand the development of economic thoughts

B. A. III (Semester VI) (Elective Course- 16): History of Economic Thoughts- II

1. Understand the economic concepts and theories of Neo-Classical and Indian thinkers.
2. Understand the development of economic thoughts

PHYSICAL EDUCATION

B. A. I (Sem-I & Sem-II) (Paper No. I & II): Introduction of Physical Education and Sports

1. To introduce the subject Physical Education to the students
2. To teach the importance of health in life
3. To impart the importance of awareness of physical health

B. A. II (Sem. III) (Paper No. III): History of Physical Education

1. To acquaint students regarding reflections of physical education
2. To aware students about global History of Physical Education
3. To develop skill of students in relation with application of Philosophy of physical education and Professional approach

B. A. II (Sem. III) (Paper IV): Organization and Administration in Phy. Edu. and Sports

1. To acquaint students regarding Organization and conduct of program in physical education
2. To aware students about conduct of sports events, equipment and facilities, budget making etc.
3. To develop skill of students in relation with application of Principles of Organization and Administration and their Professional services

B. A. II (Sem. IV) (Paper No. V): History of Physical Education

1. To acquaint students regarding reflections of physical education
2. To aware students about National History of Physical Education
3. To develop skill of students in relation with application of Philosophy of physical education and Professional approach

B. A. II (Sem. IV) (Paper VI): Organization and Administration in Phy. Edu. and Sports

1. To acquaint students regarding Organization and conduct of various competitions
2. To aware students about conduct of sports events, equipment and facilities, budget making etc.
3. To develop skill of students regarding preparation of various play fields
4. To emphasize need of well-defined administrative policies and the means of establishing these

SOCIOLOGY

B. A – I (Sem. I) : Paper I : Introduction To Sociology

1. Define Sociology and demonstrate nature, scope and subject-matter of Sociology
2. Demonstrate how Sociology differ from and similar to other social sciences and their areas of interdependence.
3. Acquaint themselves with the basic concepts of Sociology like society, community, association, culture, social change, social stratification etc.
4. Know the basic social institutions like family, marriage, kinship in a scientific way.
5. Understand and demonstrate how self develops through various process of interaction. Demonstrate how societal and structural factors influence individual behavior.
6. Explain social change and the factors affecting social change. Realize the importance of cultural lag to understand social change.

B. A – I (Sem. II) : Paper II : Applied Of Sociology

1. Meaning, scope, types and significance of Sociology.
2. Understand the kinds of questions sociologists have typically addressed and the role sociology plays in contributing to our understanding of social reality.
3. Understand the connection between the individual and society.
4. Use the methods sociologists use to answer important questions about society.
5. Use the sociological imagination to understand their role in making, maintaining, or changing society.

B. A – II (Sem. III) : Paper III : Social Issues in India

1. This paper will develop theoretical understanding to study the individual behavior and social problems.
2. Students get acquainted about the various social problems like child labour and abuse, unemployment, corruption, terrorism, casteism and communalism and gender discrimination.
3. Students develop conceptual understanding about poverty and unemployment and studied about the two main poverty abolishment programs in rural India like MNREGA and IRDP.
4. Students acquainted about affirmative action regarding backward caste and minorities.

B. A – II (Sem. III) : Paper IV : Social Movement in India

1. Explain Social Movements and Types of Movements
2. Describe Reform Movements
3. Describe Radical/ Revolutionary Movements
4. Elaborate Regional Movements – Shetkari Sanghtana, Dalit, Trible Movements.
5. Understand Environmental and Women's Movements.
6. Explain the impact of Social Movements on Social Policy

B. A – II (Sem. IV) : Paper V : Gender and Violence

1. Explain Gender in Sociological Analysis
2. Describe the relation between Social Structure and Gender Inequality
3. Understand theories and Perspectives of Feminism
4. Analyse the relation between Gender and Development
5. Explain the Politics of Gender

B. A – II (Sem. IV) : Paper VI : Sociology of Health

1. Meaning, aim, objectives and scope of Health Sociology.
2. Major theoretical approaches to health sociology.
3. The concept of health and illness and different social determinates of health and illness.
4. Major contributions of health sociology.
5. Social Medicine- Its Evolution and development.

POLITICAL SCIENCE

B. A I Paper-1 Introduction to political Science

1. Introduction and Importance of political science
2. Introduction to political Theory, Political process Public Administration and International Politics.
3. Importance and challenges before Democracy.
4. Concepts of Political Science- Rights, Liberty, Equality, Justice,

B.A I Paper- II : Indian Constitution

1. Informed about how the Indian constitution was made.
2. To Know duties and rights of citizens, and states' welfare duties
3. The study the functioning Loksabha and Rajyasabha.
4. To study the nature of supreme court.

B. A II Paper-III : Political process in India

1) Should be introduced to Indian Federalism.
2) Should be introduced to electoral Process in India.
3) Should be introduced to Party System of India.
4) Should understand the issues in Indian Politics

B.A II Paper –IV : Indian political Thought Part - I

1) Should be introduced to Indian Political Thoughts.
2) Should have knowledge of kautilya and his Theory.
3) Mahatma Phule's satyashodhak samajand it's Revolutionary Thought.
4) Should Know justice. M.G. Ranade's role in Political Liberalism Economic Ideas.
1) 5)Should know the extremist thought of Lokmanya Tilak

B.A II Paper- V : Local Self Government In Maharashtra

1) To introduce historical background of local self Government.
2) Should be introduced Rural Local Self Government .
3) Should be introduced Urban Local Self Government.
4) Should understand the difference between Rural and Urban Local Self Government.
5) Should be made aware about constitutional Amendments and challenges.
6) Should give respect to democracy.

B. A II (IDS Paper I) : Public Administration

1) Should be introduced to Public Administration.
2) Should be taught to organization- meaning, definition and Bases.
3) Should be understand the challenges of privatization.
4) Should be introduced to changing perspective in Public Administration.

B.A II (IDS Paper-II) : Public Administration

1) Should have Knowledge of Recruitment, Training and Promotion in Personnel Administration.
1) 2)To gain knowledge of budgetary process in India
2) Should be made aware about safeguards against delegated Legislation.
3) To study the New Trends in Public Administration.

MANAGEMENT

BBA I (Sem. I) : Fundamental of Business Management

1. Developed a working knowledge of fundamental terminology and frameworks in the four functions of management: Planning, Organizing, Leading and Controlling
2. Able to analyze organizational case situations in each of the functions of management
3. Able to identify and apply appropriate management techniques for managing contemporary organizations
4. An understanding of the skills, abilities, and tools needed to obtain a job on a management track in an organization of their choice

BBA I (Sem. I) : Principal of Marketing -I

1. Understand the fundamentals of marketing.
2. Aware of the 4P's & 4C's of marketing mix.
3. Understand the consumer behavior and importance of market segmentation

BBA I (Sem. I) : Micro Economics - I

1. Learners will be able to explain meaning and scope of business economics
2. Learners will apply the concept and theories of demand and consumer behaviors'
3. Learners will apply concepts of factor pricing and production function in businesspractices
4. Learners will understand different markets and its pricing practices

BBA I (Sem. I) : Information Technology in Busi.Mgt.

1. Understand basics of computer technology.
2. Identify software and networking technology for business.
3. Prepare documents, files and folders with the help of Ms-Words
4. Prepare power point presentations.
5. Analyze Business data using MS – Office

BBA I (Sem. I) : Business Communication P- I

1. Understand business communication
2. Develop vocabulary
3. Develop effective writing skills
4. Develop effective reading skills

BBA I (SEM II) : Accounting for Managers

1. Understand the concepts in accountancy.
2. Prepare trial balance and subsidiary books of accounts.
3. Demonstrate calculations of depreciation.
4. Prepare statements of accounts.

BBA I (SEM II) : Human Recourse Management

1 Describe human resource planning process
2 Describe selection procedure in detail
3 Describe the methods of management development
4 Analyze why human resource management is important
5 Describe different methods of training

BBA I (SEM II) : Macro Economics

1. Learners will be able to understand concepts of national income and demand of supply of money
2. Learners will apply the principles and theories of inflation and business cycle
3. Learners will understand different concepts of public finance

BBA I (SEM II) :Management Information System

1. Understand basics Information System.
2. Understand working and applications of different information systems.
3. Study system development lifecycle.
4. Analyze the system requirement

BBA I (SEM II) : Business Communication Paper - II

1. Understand the nature of effective oral communication
2. Face the interview confidently and participate in the group discussion
3. Develop presentation skills
4. Understand different modern office communication tools

BBA II (SEM III) : Service Marketing

1. Illustrate Services- it's concept, classification and importance 2. Compare goods and services
3. Demonstrate 7 P's of service marketing
4. Application of 7 P's for various service organizations5. Develop 7 P's of marketing for a service organization

BBA II (SEM III) : Cost Accounting

1. Describe concepts in Cost Accountancy
2. Analyze methods of Costing, Cost Levels and methods of pricing material issues, Inventory Control Techniques
3. Define application of Marginal Costing Technique in decision making
4. Discuss Cost Audit and Cost Control Technique.

BBA II (SEM III) :Forms of Business Organization

1. Understand different forms of business organization.2. Classify different sources of finance available & its influence on business decisions
3. Illustrate different combinations of business.
4. Understand new trends in management.

BBA II (SEM III) : Fundamentals of Entrepreneurship

1. Have a fair idea about aspects of entrepreneurship development
2. Understand the role of entrepreneurs, and the importance of entrepreneurship with the challenges and opportunities.
3. Get acquainted with different theories of entrepreneurship
4. Understand the concept and role of woman entrepreneurs
5. Understand the concept of rural and social entrepreneurship

BBA II (SEM III) : Statistical Techniques for Business

1. Define descriptive Statistical techniques
2. Describe applications of statistical techniques.
3. Apply suitable statistical formula and calculate result. 4. Conclude degree of relationship of two variables and estimateunknown variable.

BBA II (SEM IV) : Rural and Retail Marketing

1. Develop understanding of concepts of rural and retail marketing.2. Understand the current situation of rural marketing.
3. Analyze the marketing of agricultural inputs and products.4. Understand retail formats, retail buying behavior and retailmarketing mix.

BBA II (SEM IV) : Management Accounting

1. Understand Management Accounting and Reporting tomanagement
2. Understand tools and techniques of Management Accounting 3. Understand Financial Statement Analysis

BBA II (SEM IV) : Entrepreneurship Project Management

1. Understand the process of project identification
2. have a fair idea about different institutions and schemes

3. Understand different methods of project appraisal
4. Understand the process of preparation of business plan

BBA II (SEM IV) : Statistics for Decision Making

1. Define tools Statistics used for decision making
2. Describe applications of statistics for decision making.
3. Apply suitable statistical formula and estimate trend.
4. Construct control charts

BBA II (SEM IV) : Research Methodology

1. Define various terms used in research process
2. Describe research design, sample design and sampling methods 3. Apply appropriate methods for data collection for research work 4. Use appropriate statistical tools for data analysis and interpretation

BBA III (SEM V) : Fundamentals of Business Laws and Tax Laws(Paper - I)

1. Bring awareness about business Laws and tax laws amway the students.
2. Give exposure to various laws and acts which have impact on business and industry.

BBA III (SEM V) : Recent Trends In Marketing (Paper - I)

1. To help the students in understanding the recent trends in marketing.2. To provide an understanding of the application of marketing management for decision on marketing.

BBA III (SEM V) : Practices in Modern ManagementPaper-I

1. To impart knowledge about various modern management thoughts. 2. To understand the application of management techniques to solve various Management problems.

BBA III (SEM V) : International BusinessPaper - I

1. To impart knowledge and skill of analysis of operational processes of business between two or more nations.
2. To understand the application of knowledge for decision making in international business.

BBA III (SEM V) : Financial ManagementPaper - I

1. The objective of this subject is to help the students in understanding the conceptual frame work of financial management..
2. This subject provides the students an understanding of the application of financial management for decision making.

BBA III (SEM V) : Foundation Of Human SkillsPaper I

1.To develop different human skills among students.2.To enhance quality behavior.
3.To increase Emotional Quotient by learning values.

BBA III (SEM V) : Research Methodology

1. To Provide basic knowledge of research objectives , research problemformulation, research design, samplings, data collection, analysis of data andreport writing .

BBA III (SEM VI) : Fundamentals of Business Laws and Tax Laws (Paper - II)

1. To bring awareness about business Laws and tax laws amway the students.
2. To give exposure to various laws and acts which have impact on business and industry.

BBA III (SEM VI) : Recent Trends In Marketing(Paper - II)

1. To help the students in understanding the recent trends in marketing.2. To provide an understanding of the application of marketing management for decisions on marketing.

BBA III (SEM VI) : Practices in Modern ManagementPaper-II

1. To impart knowledge about various modern management thoughts. 2. To understand the application of management techniques to solve various Management problems.

BBA III (SEM VI) : International BusinessPaper - II

1. To impart knowledge and skill of analysis of operational processes of business between two or more nations.
2. To understand the application of knowledge for decision making in international business.

BBA III (SEM VI) : Financial Management Paper - II

1. The objective of this subject is to help the students in understanding theconceptual frame work of financial management..
2. This subject provides the students an understanding of the application offinancial management for decision making.

BBA III (SEM VI) : Foundation Of Human SkillsPaper II

1.To develop different human skills among students. 2.To enhance quality behavior.
3.To increase Emotional Quotient by learning values.

BBA III (SEM VI) : Project and Viva Voce

1. To expose the BBA students to practical application of theoretical concepts, whichthey have learnt during the BBA course.

COMPUTER APPLICATION

BCA I (Sem. I): Fundamentals of Computer

1. Understand basic concepts of computer.
2. Describe peripheral devices and number systems.
3. Understand operating environment
4. Demonstrate the use of Linux Operating system commands

BCA I (Sem. I): Introduction to Programming Using C

1)Understanding a functional hierarchical code organization.
2)Ability to work with textual information, characters and strings.
3)Ability to work with arrays of complex objects

BCA I (Sem. I): Principles of Management

1. Understand the influence of historical forces on current practice of management.
2. Understand frameworks in the four functions of management.
3. Understand leadership styles to anticipate the consequences of each leadership style
4. Be able to identify and apply appropriate management techniques for organizations
5. Understand social responsibility involved in business situations

BCA I (Sem. I): Business Communication

1. Communicate in English in written as well as oral mode
2. Make presentations in English
3. Do effective business correspondence

BCA I (Sem. I): Office Automation

1) Understand the components of office automation
2) Perform operations using MS Word and PowerPoint
3) Surf details through Internet
4) Understand and discuss about the use of Office Package and internet in daily life

BCA I (Sem. I): Lab Course-I Based on CC 102

1)Understand the basic terminology used in computer programming.
2)Write, compile and debug programs in Language.
3) Create programs involving decision structures, loops, strings and functions. 4) Use internet and internet tools.
5) Perform operations using MS Word and PowerPoint6) Create business presentations using PowerPoint

BCA I (Sem. II): DBMS

1) Describe the basic concepts of DBMS and various databases used in real applications
2) Demonstrate the principles behind systematic database design approaches.
3) Design the database structure by applying the concepts of Entityrelational model and Normalization.
4) Learn MS-Access for database creation and handling transactions.

BCA I (Sem. II): Operating System

1) Possess knowledge of Operating Systems and their types.2) Apply the concept of a process and scheduling algorithms. 3) Realize the concept of deadlock and different ways to handle it. 4) Understand various memory management techniques and file system.

BCA I (Sem. II): Object Oriented Programming Using C++

1)Understand the difference between object oriented programming and procedural oriented language and data types in C++.
2)Program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
3)Simulate the problem in the subjects like Operating system, Computer networks andreal world problems

BCA I (Sem. II):Financial Accounting with Tally

1. Use basic accounting terminology, procedures and systems of maintaining accounting records.

2. Understand financial statements
3. Learn to create company, enter accounting voucher entries and also print financial statements, etc. in Tally.
4. Demonstrate MIS reports in Tally ERP.

BCA I (Sem. II): Mathematical Foundations for Computer Applications

1)Familiar with Determinant and Matrices. 2) Formulate Limit, Continuity and Differentiability.

BCA I (Sem. II):Lab Course-III Based on CC201 and AEC 204

1. Familiar with the students with OOPs concept • create programs for various real world problems.

BCA II (Sem. III): Cost Accounting

1. To gain the understanding of costing concepts and procedure in cost accounting system.

BCA II (Sem. III): HRM

1. To enable the students to understand the HR Management and system at various levels in general and in certain specific industries or organizations.2. To help the students focus on and analyse the issues and strategies required to select and develop manpower resources 3. To develop relevant skills necessary for application in HR related issues 4. To Enable the students to integrate the understanding of various HR concepts along with the domain concept in order to take correct business decisions

BCA II (Sem. III): System Analysis & Design

1. Identify various types of information systems concepts and terminologies. Theory
2. Explain the types of business needs that can be addressed using information technology based solutions.
3. Discuss the initial phases of the System Development Life Cycle (SDLC) using analytical tools and quantitative techniques used to identify problems.
4. Define problems and opportunities that initiate projects. Theory
5. Evaluate information systems projects to identify various aspects of feasibility of these projects.

BCA II (Sem. III):Object Oriented Programming with C++

1.To understand how C++ improves C with object-oriented features.
2.To learn how to write inline functions for efficiency and performance.
3.To learn the syntax and semantics of the C++ programming language.
4. To learn how to design C++ classes for code reuse.

BCA II (Sem. III): Computer Oriented Statistical Methods

1. An ability to apply knowledge of computing and mathematics appropriate to the discipline
2. An ability to analyze a problem, and identify and define the computing requirements

BCA II (Sem. III): Lab Course Based on Paper No. 304

1. To practically train students in performing basic computer operations and use DOS, Windows and Linux Operating System and develop effective web pages.

BCA II (Sem. IV): Entrepreneurship Development

1. To Analyse the business environment in order to identify business opportunities,
2.Toidentify the elements of success of entrepreneurial ventures,

BCA II (Sem. IV): Organizational Behaviour

1. To Idetify personal dimensıons of personality,job satisfaction, motivation and learning
2. To help the students to develop cognizance of the importance of human behaviour.3..Describe the general history of management theory and practice and frame how organizational behavior has developed from these into a discreet field.

BCA II (Sem. IV): DBMS using MS-Access.

1.Examine database concepts and explore the Microsoft Office Access environment.
2.Design a simple database.
3.Build a new database with related tables.

BCA II (Sem. IV): Web Technology

1. student will be familiar with client server architecture and able to develop a web application
2.Students will gain the skills and project-based experience needed for entry into web application and development careers.

BCA II (Sem. IV): Computer Mathematics

1. Be able to construct simple mathematical proofs and possess the ability to verify them
2.Be able to apply basic counting techniques to solve combinatorial problems

BCA II (Sem. IV): Lab Course Based on Paper No. 403 & 404

1. Enhance practical based skill of databaseand explore the Microsoft Office Access environment.
2.Design MS-Access database.
3.Build a new database with related tables.

BCA III (Sem. V): Management Accounting

1. Explain the application of management accounting and the various tools used2. Analyse the financial statement using various ratios

BCA III (Sem. V): E-Commerce

1. Demonstrate an understanding of the foundations and importance of E-commerce
2. Analyze the impact of E-commerce on business models and strategy
3. Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational. 3. Describe the infrastructure for E-commerce

BCA III (Sem. V): Computer Network

1. Learning about computer network organization and implementation 2.Obtaining a theoretical understanding of data communication and computer networks

BCA III (Sem. V): RDBMS with Oracle

1. Master the basics of SQL and construct queries using SQL 2.attendees write stored procedures, functions, packages, and triggers, and implement complex business rules

with oracle

BCA III (Sem. V): Visual Programming

1. Students list the visual programming concepts.
2. Explain basic concepts and definitions.
3. Express constants and arithmetic operations.
4. Distinguish variable and data types.
5. Students code visual programs by using Visual Basic work environment.

BCA III (Sem. V): Lab Course based on 504 and 505

1. Toconstruct queries using SQL 2. Towrite stored procedures, functions, packages, and triggers, and implement complex business rules with oracle3. To implement code through Visual Programming

BCA III (Sem. V): Mini Project

1. To anlyse data, desging database, implement softwareproject

BCA III (Sem. VI): Strategic Management

1. To demonstrate effective application of concepts, tools & techniques2.To practical situations for diagnosing and solving organisational problems.

BCA III (Sem. VI): Data Mining and Data Warehousing

1. Understand Data Warehouse fundamentals, Data Mining Principles2. Design data warehouse with dimensional modelling and apply OLAP operations

BCA III (Sem. VI): Linux Operating System

1.To understand the basic components of a computer operating system, and the interactions among the various components. 2. Undertood the policies for scheduling, deadlocks, memory management, synchronization, system calls, and file systems.

BCA III (Sem. VI): Java Programming

1. Write, compile, and execute Java programs2.Write, compile and execute Java programs using object oriented class structures with parameters, constructors, and utility and calculations methods, including inheritance, test classes and exception handling

BCA III (Sem. VI): Lab Course based on Paper no.- 603 & 604

1.To hadle Linux commands
2. Implements Java Code using OOP

BCA III (Sem. VI): Major Project

1. To anlyse data, desging database, implement softwareproject

BOTANY

B.Sc.Part I : Subject: Botany
SEMESTER –I
Botany Paper I: DSC- 13 A: BIODIVERSITY OF MICROBES, ALGAE AND FUNGI

- Learn about classification, characteristics, ultra structure of Prokaryotic and Eukaryotic microbes.
- Know about organisms and causal factor responsible for plant diseases & methods ofstudying plant diseases.
- Discuss about importance of morphological structure, classification, reproduction andeconomic importance of Algae.
- Study and impart knowledge about the general Characteristics, structure, reproduction, life history and economicimportance of fungi. Understand the features of Lichens.
- Know the control measures of plantDiseases.
- Provides students with an in-depth knowledge of the diversity in form, structureand habits of Cryptogams.

Botany Paper II: DSC- 14 A: Biodiversity Of Archegoniate- Bryophytes, Pteridophytes, Gymnosperms.

- Students able to explain about structure, classification, reproduction, life cycleof Bryophytes.
- Learn about the general characters and classification by K.R. Sporne, stelar evolution in Pteridophytes, heterospory and origin of seed habit.
- Students able to explain about structure, classification, reproduction, life cycle and economic importance of Gymnosperms.
- Internal structure will be observed for further studies as well as to study the developmental pattern of plant
- Knowledge of organic evolution with special reference to Plant. (Algae to Angiosperms.)
- Know about the Economic importance of Bryophytes, pteridophytes, Gymnosperms.

SEMESTER –II
Botany Paper III: DSC- 13 B: PLANT ECOLOGY

- Students learned about the interaction between biotic and abiotic components of the environment.
- Know about the concept of energy flow in the ecosystem.
- Students will acquire knowledge regarding vegetation and its analysis.
- Know about different pollutions, consequences in the environment and its mitigation.
- Students will know about the floristic regions and plant formation of the planet.
- Students will deepen the vegetation types of various country.
- Learn the Approaches to the study of Ecology (Autecology, Synecology and Genecology)
- Understand the population & Community Ecology - concept of metapopulation.

Botany Paper IV: DSC- 14 B: PLANT TAXONOMY

- Aware various plant families and its economic importance.

- Learn the types of classifications- artificial, Natural and phylogenetic.
- Gain knowledge about Botanical Survey of India (BSI).
- Briefly studied on herbarium techniques.
- Learn the taxonomic evidences from molecular, numerical and chemicals
- Brief studied the economic products with special reference to the Botanical name, family, morphology of useful part and the uses.

SEMESTER- III

Botany Paper V: Dsc C13: Embryology Of Angiosperms

- Students get knowledge in internal structure of anther and isolation of endosperm.
- The course paper cover basic aspects of structure of plant organs; reproductive developmental aspects of male reproductive system - Pollen grains, female reproductive system -embryo sac.
- Students will be able to utilize embryological studies in various aspects like analysis of evolutionary trends, Circumscription and delimitation of taxa and making a decision on systematic positions.
- Get knowledge on structure and development plant embryo.
- Learn about double fertilization and their significance.
- Know about the Structure and development of dicot and monocot embryos.
- Learn about the production of Synthetic seeds & significance
- Study about the role of polyembryology in crop improvement.

Botany Paper Vi: Dsc C14: Plant Physiology

- To become knowledgeable in plant and its water relations.
- Students will able to gain knowledge onrole of micronutrients in plant growth, their development and understand the mechanism of nitrogen metabolism.+
- To gain knowledge about chloroplast structure, photosynthetic pigments, the path of energy from the light reactions through Calvin cycle.
- Students are able to understand the process of translocation of organic solutes in plants.
- To understand the energy releasing steps in Glycolysis. Students will be familiar about the mechanism of respiration.
- To acquire knowledge in plant growth regulator and its uses, understand the physiology of flowering and photoperiodism
- Know about the requirement of mineral nutrition for plant growth
- Understand the process of Photosynthesis, Plant water relation ,and Vernalization.

SEMESTER- IV

Botany Paper VII: DSC D13: PLANT ANATOMY

- Learn the structure, chemistry and functions of cellular organelles Meristems
- Gain knowledge on fixation, dehydration, embedding, hand sectioning, microtome sectioning.
- Plant anatomyare much awaited subject to study the internal structures& function ofMeristematic and Permanent Tissue in plants.
- The course paper cover basic aspects of anatomy of plant tissues such as meristems, epidermis, permanent tissues, complex tissue systems .
- Students will be benefitted by studying the plant anatomy enables to identify fragmentary plant materials, wood, forensic investigation, and applied aspects of meristems cultures.

- Students able to understand the internal structure of monocot and dicot (stem, leaf and root), secondary thickening, anomalous secondary thickening (Dicot and Monocot) and nodal anatomy.

Botany Paper VIII: DSC D14: PLANT METABOLISM

- The students will be able to understand the fundamental biochemical principles of enzymes, such as the structure and function of enzymatic process in living system.
- Distinguishing the fundamentals of enzyme nomenclature, classification and various applications of enzymes that can benefit to human life.
- The student will learn kinetics of enzyme catalyzed reactions.
- The student will be able to perform immobilization of enzymes.
- The students able to get knowledge about general system of seed germination and seed dormancy.
- Learn the properties, Enzyme catalysis and activation energy– Mechanism of enzyme action.
- Understand the process of Seed dormancy, Respiration and Nitrogen metabolism.

PHYSICS

B. Sc. - I.Semester- I.
Physics paperI
DSC - I A MECHANICS

Name of the Topic	Expected learning outcome
1.vectors	Learning and understanding vector algebra and it's derivatives
2.Ordinary differential equation	Knowledge about differential equations, first order and second order homogeneous differential equations gained by students
3. Law's of motion	Learning and understanding Newton's laws ofmotion
4. Momentum and Energy	Learning and understanding conservation of linear and angular momentum . conservation of energy and Dynamics of system of particle
5. Rotational motion	Learning and understanding M.I of Sphericalshell, solid cylinder. Motion of Spherical shell,solid cylinder

B. Sc.- I.Semester- I.
Physics paperII
DSC - 2A MECHANICS - II

Name of topic	Expected learning outcome
1.Gravitation	learning and understanding Newton's laws of motion, Kepler's Law and Basic idea of GPS
2.oscillation	Knowledge about simple harmonic motion it's it's differential equation. Damped and forced oscillations gained by students
3.Elasticity	Learning and understanding bending of beam,bending moment, Tortional oscillations. Determination of Y, n and sigma by Searl's method
4.surface Tension	Knowledge about surface tension and experimental determination of ST byJeager's method and applications of ST

B. Sc.- I.Semester- II
Physics paperIII
DSC - B ELECTRICITY AND MAGNETISM - I

Name of the Topic	Expected learning outcome
1. Vector analysis	Learning and understanding Gradient, divergence, curl and it's significance. Gauss divergence Theorem and Stoke's theorem
2. Electrostatics	Knowledge aboutConcepts ofElectrostatic field, Dielectric medium, Parallel plate gained by students

B. Sc.- I.Semester- II.
Physics paper IV
DSC -2B ELECTRICITY AND MAGNETISM - II

Name of the Topic	Expected learning outcome
1.A.C.circuit	Learning and understanding series LCR circuit it's Resonance, Q-factor and AC-bridge:Owen's bridge
2.Magnetism	Learning and understanding Magnetostatics, Bio-sawart's law and it's application, Ampere's circuital law, Brief introduction of dia-,para- and ferro-magnetic materials
3.Electromagnetic Induction	Knowledge about Faraday's law of electromagnetic induction, lenz's law gained by students
4. Maxwell's equations and electromagnetic wave propogation	Learning and understanding Maxwell's equations,transves nature of EM waves. Eelctromagnetic wave propogation through vaccum and isotropic dielectric medium.

B.Sc. Part-III
Semester-VI PHYSICS Paper-XIII
DSE-F1 Nuclear and Particle Physics

Name of the Topic	Expected learning outcome
1. General Properties of Nuclei and Nuclear Model	To understand Constituents of nucleus and their intrinsic properties,Quantitative facts aboutsize, mass, charge density (matter energy), binding energy, average binding energy and its variation with mass number ,Liquid drop model approach, Semi empirical mass formula, Magic numbers .
2. Particle Accelerators	Learning and understandingNeed of accelerators, Cyclotron-construction, working, theory and its limitations, Principle of phase stable orbit, Synchrocyclotron - construction and working, Synchrotrons- electron synchrotron and proton synchrotron, Betterton - principle, construction and working condition, expression of energy gain.
3. Nuclear Detectors	Learning and understanding Ionization chamber, Geiger Muller counter- construction, Construction of photo-multiplier tube (PMT), Scintillation detector-principle, construction and working, Wilson cloud chamber, Semiconductor detector, Cerenkov radiations, Cerenkov detector.

4. Particle Physics	Learning and understanding Particle interactions, Classification of elementary particles, Symmetries and conservation laws energy, momentum, angular momentum and parity, Baryon number, Lepton number, Concept of quark model.

B.Sc. Part-III
Semester-VI PHYSICS Paper-XIV
DSE-F2 Solid State Physics

Name of topic	Expected learning outcome
Unit-I 1. Crystal Structure	learning and understanding Solids: amorphous, polycrystalline and crystalline materials;Miller indices, Miller indices and inter-planer spacing, Simple crystal structures: SC, BCC, FCC and HCP(Co-ordination number, atomic radius, atoms per unit cell and packing fraction)
2. X-Ray Diffraction	Knowledge about Reciprocal lattice and its properties, Brillouin zone, Diffraction of X-rays by crystals, Ewald construction, Bragg's law in reciprocal lattice, Experimental methods in X-ray diffraction ,Analysis of cubic crystal by powder method.
Unit-II 1. Magnetic Properties of Matter	Learning and understanding Classical Langevin theory of diamagnetic and paramagnetic materials, Quantum mechanical treatment of paramagnetism , Curie's law, Weiss theory of ferromagnetism and ferromagnetic domains, Explanation of B-H curve, Hysteresis and energy loss.
2. Elementary Band Theory of Solids	Knowledge about Concept of density of states, Bloch theorem (statement only), Kroning–Penny model, Origin of energy gap, Velocity of electrons according to band theory, Effective mass of an electron, Distinction between metals, semiconductors and insulators, Hall Effect - Hall voltage and Hall Coefficient.

B.Sc. Part-III
Semester-VI PHYSICS Paper-XV
DSE-F3 Atomic and Molecular Physics and Astrophysics

Name of the Topic	Expected learning outcome
UNIT-I 1. Atomic Spectra	Learning and Observed hydrogen fine structure, Spectral notations and optical spectral series for doublet structure, Spectrum of sodium and its doublet fine structure .Normal order of fine structure doublets, Electron spin-orbit interaction, Normal and anomalous Zeeman effect and their explanation from vector atom model, Lande'sg factor.
2. Molecular Spectra	Knowledge aboutH_2 + molecular ion, The hydrogen molecule, Rotational energy levels, Rotational spectra, Vibrational spectra, Vibration – rotation spectra, Electronic spectra of diatomic molecules.
UNIT-II 1 Raman Spectra	Raman Effect ,Characteristic properties of Raman lines, Classical and quantum theory of Raman Effect ,Difference between Raman spectra and infrared spectra.

2. Structure of Universe.	Big-Bang theory, Steady state theory, Oscillating theory ,Hubble law, Cosmological tests, Milky Way galaxy, Origin of solar system
3. Stellar Evolution	The H–R Diagram, Evolution of main sequence stars - Red giants and White dwarfs, Evolution of more massive stars- Supernova, Neutron star, Black hole, Surface of the Sun, Sunspots, Sunspot cycle

B.Sc. Part-III Semester-VI
PHYSICS Paper-XVI
DSE-F4 Energy Studies and Materials Science

Name of the Topic	Expected learning outcome
1. Energy and Wind Energy	Learning and understanding) Energy, Forms of energy, Man and environment, Energy chains, Classification of energy resources, Energy demands, Age of renewable and alternatives, Wind energy, Wind energy chains, Wind energy quantum, Types of a wind turbine generator unit, Horizontal axis propeller type wind turbine generator unit.
2. Solar Energy	Learning and understanding Solar energy, Solar energy spectrum (UV, Visible and IR),Solar photovoltaic systems, Merits and limitations of solar PV systems, Prospects of solar PV systems, Power of a solar cell and solar PV panel.
3. Biomass Energy	Knowledge about Origin of biomass, Biomass energy resources (biomass from cultivated crops, biomass from waste organic matter), Biomass conversion process (biochemical conversion-anaerobic digestion and fermentation)
UNIT-II 1. Superconductivity	Learning and understanding Idea of superconductivity, Critical temperature, Critical magnetic field, Meissner effect, Type-I and Type-II superconductors, London equation and penetration depth, Isotope effect, Application (magnetic levitation)
2. Nanotechnology	Introduction to nanoscience and nanotechnology, Length scales relevant to nanoscience, Nanostructures: 1D, 2D and 3Dnanostructures, Size effects in nanosystems, Quantum confinement, Applications of nanotechnology (Spintronics, Molecular electronics, Nanobiotechnology)

COMPUTER SCIENCE

B.Sc (Computer Science) - I		
Sr.No	**Course Name**	**Course Outcomes**
1	Problem Solving using Computers	1. Students will be able to develop logics which will help them to create programs, applications in C. 2. Explain the process of problem solving using computer. 3.Design an algorithmic solution for a given problem 4. Also by learning basic programming construct they can easily switch over to any other language in future. 5. Problem solving through computer programming.
2	Database Management System	1 .To understands the application of DBMS, difference between file systems vs. dbms. 2. Identify the data model; understand dbms Structure, Identify Entity, ERD, Understand Relation algebra concept, selection. 3. Study Of projection, relational calculus which helps in Understanding Queires, Able to run DDL, DML Command.
3	Programming Skills Using 'C'	1. Adequately explain functioning of computer components. 2. Write a maintainable C program for a given algorithm. 3. Trace the given C program manually, 4. Write C program for simple applications of real life using structures and files.
4	Relational Database Management System	1. Enhance the knowledge of the process of database development and administration using SQL and PL/SQL. 2. Use the Relational Model and how it is supported by SQL and PL/SQL. 3. Use the PL/SQL Code Constructs of IF-THEN-ELSE and LOOP types as well as syntax and command functions. 4. Enhance the knowledge and understanding of database analysis and design.
B.Sc (Computer Science) - II		
1	PHP and MySQL	1. To understand basic concept of PHP. 2. To Learn how to developing applications in PHP using MySQL. 3. To learn and develop various PHP technology applications that definitely meets the current industry needs.
2	Object Oriented Programming Using C++	1. To understand how C++ improves C with object oriented features 2. To learn syntax and semantics of C++ programming language 3. To learn how to write inline functions for efficiency and performance.

		4. To learn how to overload functions and operators in C++. 5. To learn how to design C++ classes for code reuse. 6. To learn how inheritance promote code reuse in C++. 7. To learn how inheritance and virtual functions implement dynamic binding with polymorphism.
3	Cyber Security Essentials-I	1. Understand concept of information security management. 2. Learn different access controls methods. 3. Understand wireless network security. 4. Learn cyber security laws and importance of security audit.
4	Data Structure Using C++	1. Understand the basic concepts such as Abstract Data Types, Linear and Non Linear Data structures. 2. Ability to choose appropriate data structures to represent data items in real world problems. 3. Ability to analyze the time and space complexities of algorithms. 4. Ability to design programs using a variety of data structures such as array, stacks, queues, linked list 5. Able to analyze and implement various kinds of searching and sorting techniques.
B.Sc (Computer Science) - III		
1	Core Java	1. Object oriented programming concepts using Java. 2. Knowledge of input its processing and getting suitable output. 3. Understand, design, implement and evaluate classes and applets. 4. Understand concept of Multiprogramming and Exception Handling
2	C# Programming	This course will cover the practical aspects C#.NET framework. The goal of this course is to introduce the students to the basics of OOPs and windows application program.
3	LINUX Part I	1. Upon completion of this course, students should have a good working knowledge of Linux.2. Allowing them to easily use any Linux distribution.3. This course shall help student to learn advanced subjects in computer science practically.
4	Python Part I	1. To understand why Python is a useful scripting language for developers. 2. To learn how to write loops and decision statements in Python.3. To learn how to use lists, tuples, and dictionaries in Python programs
5	Advanced Java	1) The student will be able to develop distributed business applications, develop web pages Using advanced server-side programming through servlets and Java server pages. 2) Demonstrate approaches for performance and effective coding3) To learn database programming using Java 4) To study web development concept using Servlet and JSP
6	ASP .NET	This course will cover the practical aspects of multi-tier web based application development using the .NET framework. The goal of this course is to introduce the students to the

		basics of distributed Web application development
7	Linux Part II	1. This course covers design principles of Linux Operating System Memory management. 2. Structure of File system and virtual file system is also elaborated.3. This course contains details of shell programming and introduces System administration
8	Python Part II	1. To learn how to write functions and pass arguments in Python 2. To learn how to build and package Python modules for reusability 3. To learn how to use exception handling in Python applications for error handling

ZOOLOGY

B. Sc. Part – I Semester – I
ZOOLOGY DSC – 15A
(ANIMAL DIVERSITY-I)

1: Provides students with an in-depth knowledge of the diversity in form, structure and habits of invertebrates.
2: Learn basics of systematics and understand hierarchy of different categories.
3: Learn diagnostic characteristics of different phyla through brief studies.Some special features, organs, pathogenecity.
4: Obtain overview of economically important invertebrates.
5: Classify all the invertebrate phyla up to class
6: Understand the economic importance of invertebrates

B. Sc. Part – I Semester – I
ZOOLOGY DSC – 16 A
(ANIMAL PHYSIOLOGY)

1: Form a perspective of health and biology through the study of human physiology.
2: Study different systems and their inherent disorders and deficiencies.
3.Understand the relative position of individual organs and associated structures through dissection of the invertebrate representatives.

B. Sc. Part – I Semester – II
ZOOLOGY DSC – 15B
(CELL BIOLOGY AND EVOLUTIONARY BIOLOGY)

1: Knowledge regarding the fundamental structure function of the cell. CO2: Understanding ultra structure of prokaryotic and eukaryotic cells.
2: Understanding the Structure and functions of all the organelles in the cells.
3: Studying the mechanism and complications of cell division.
4:Understand the functioning of nucleus and extra nuclear organelles and understand the intricate cellular mechanisms involved.
5: Acquire the detailed knowledge of different pathways related to cell signaling and apoptosis
6: Knowledge of organic evolution with special reference to man.

7: Enhance the concept of nature and her resources and appreciating the process and product of organic evolution
8: Understanding hrough three important processes of cell division, cell differentiation and morphogenesis.
9: Examine the evolutionary history of the taxa based on developmental affinities

B. Sc. Part – I Semester – II
ZOOLOGY DSC – 16B (GENETICS)

1: Study the under lying genetic mechanism operating in man and state.
2: Learn the mechanism of crossing over and inheritance pattern in man.

B. Sc. Part II
B. Sc. Part II Semester- III
ZOOLOGY PAPER-V DSC-_(ANIMAL DIVERSITY-II)

1: Provides students with an in-depth knowledge of the diversity in form, structure and habits ofvertebrates.
2: Learn basics of systematics and understand hierarchy of different categories.
3: Learn diagnostic characteristics of different phyla through brief studies Some special features, organs, pathogenecity.
4: Obtain overview of economically important vertebrates.
5: Classify all the vertebrate phyla up to class
6: Understand the economic importance of vertebrates
7: Understand the evolution, hierarchy and classification of different classes of chordates
8: Get an idea on the morphology and physiology of various organisms
9: Study the adaptations and economic importance of specific vertebrates

B. Sc. Part II Semester- III
ZOOLOGY Paper-VI DSC- _ (BIOCHEMISTRY)

1: Learn clinical procedures for blood and urine analysis.
2: Skill in simple biochemical laboratory procedures.
3: All the biochemical components of the body system are studied.
4: It helps the student to get a view about the chemical compositions of different chemical compounds such as enzymes, hormones and other secretions. It also includes the pathway and chemical which are responsible for the energy production in our body.
5: Understand of bio-molecules and their role in metabolism. and scope of biochemistry.
6: Understand the structure function and biological significance of carbohydrates, amino acids, proteins, lipids and nucleic acids.
7: Understand the concept of enzyme, its mechanism of action and regulation.
8: Understand the process of DNA replication, transcription and translation. Learn the preparation of models of peptides and nucleotides

B. Sc. Part II Semester- IV
ZOOLOGY Paper-VIIDSC- _(REPRODUCTIVE BIOLOGY)

1: Identify structures and function of reproductive anatomy in the male and female
2: Identify hormones, their production site, physiology impacts and how to manipulate specific hormones to control reproduction either positively or negatively.
3: Summarize critical components of reproductive technologies involved in breeding, semen collection, gamete biology and embryonic development.
4: Understand the importance of good health.
5: Observe clean sexual habits thereby warding off sexually transmitted diseases.
6: Understand processes of spermatogenesis, oogenesis. and understanding of the hormonal control of reproduction
7: Critically assess relevant scientific literature in Human Reproductive Biology

B. Sc. Part II Semester- IV
ZOOLOGY Paper-VIIIDSC- _(APPLIED ZOOLOGY-I)

1: Get an idea of the applied branches of zoology with a view of educating youngsters on the possibilities of self employment
2: Understand skills and requirements necessary to find and maintain a job
3: Identify the types of insect pests particularly the most common one.
4: Understand the effective way of insect pest management strategy.
5: Understand the importance of genetic improvement in animal production.
6: Identify current and future issues relating to animal husbandry Understand the culture techniques of prawn, pearl and fish.Understand silkworms rearing and their products. Understand the Bee keeping equipments and apiary management. Understand dairy animals management, the breeds and diseases of goats and learn the testing of egg and milk quality.Learn various concepts of lac cultivation. Be aware of a broad array of career options and activities in human medicine, biomedical research and allied health professions.

CHEMISTRY

B.Sc - 3
SEMESTER- 5
DSE-E5- Chemistry Paper No- 9 (Inorganic Chemistry)

CO1- Study the role of acids, bases, non-aqueous solvents in chemistry.
CO2- Understand geometry, stability and nature of bonding between metal ion and ligand in complexes.
CO3- Study the synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices.
CO4- Study the structure, method of preparation and the applications of organometallic compound in various fields.
CO5- Understand the classification, types, mechanism and applications of catalyst in industrial fields.

DSE-E6- Chemistry Paper No- 10 (Organic Chemistry)

CO1- Understand of energy associated with electromagnetic radiation and its use in analytical technique.

CO2- Study the chromophore, auxochrome and calculation of λmax..

CO3- Study the vibrational transitions, regions of IR spectrum, functional group recognition.

CO4-Understand of magnetic-non magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern

CO5- Knowledge of molecular ion, fragmentation pattern and different types of ions produced.

CO6- Understand the structure of organic compound with the help of provided spectral data.

DSE-E7- Chemistry Paper No- 11 (Physical Chemistry)

CO1- Understand quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators (Hamiltonian), learning of Schrodinger wave equation. Physical interpretation of the ψ and ψ2. Particle in a one dimensional box

CO2- Study spectroscopy, Electromagnetic spectrum, Energy level diagram, Study of rotational spectra of diatomic molecules: Rigid rotor model, Microwave oven, vibrational spectra of diatomic molecules, simple Harmonic oscillator model, Raman spectra: Concept of polarizability, pure rotational and pure Vibrational Raman spectra of diatomic molecules,.

CO3- Understand photochemical laws, reactions and various photochemical phenomena.

CO4- Study the various types of solutions, relations vapour pressure, temperature relations.

CO5- Understand the knowledge of emf measurements, types of electrodes, different types of cells, various applications of emf measurements

DSE-E8- Chemistry Paper No- 12 (Analytical Chemistry)

CO1- Understand the techniques of gravimetric analysis.

CO2- Study the instrumental analysis of alkali and alkaline earth elements.

CO3- Understand working and applications of optical methods as an analytical tool.

CO4- Understand theory and applications of potentiometric titrations.

CO5- Understand the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries / laboratories.

B.Sc - 3

SEMESTER- 6

DSE-F5- Chemistry Paper No- 13 (Inorganic Chemistry)

CO1- Study the mechanism of the reactions involved in inorganic complexes of transition metals. Understand the thermodynamic and kinetic aspects of metal complexes.

CO2- Understand the generation of nuclear power with the help of nuclear reactions. Study the role of radio isotopes in medicinal, industrial and Archaeology fields

CO3- Study the characteristics, properties and separation of lanthanides and Actinides. Understand the synthesis and IUPAC Nomenclature of transuranic elements (TU)

CO4- Study the techniques involved in ore dressing and extraction of cast iron from its ore.

CO5- Study the role of various metals and non metals in our health.

DSE-F6- Chemistry Paper No- 14 (Organic Chemistry)

CO1- Understand the reagents used in organic transformations and various reactions used in organic synthesis..

CO2- Study basic terms used in retrosynthetic analysis, retrosynthesis of some organic compounds.

CO3- Study addition reaction across >C=C< bond w.r.t. hydrohalogenation, hydration hydroxylation, ozonolysis and addition of halogen, halogen acid, hydrogen,water, etc. across −C≡C−bond

CO4- Study the terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics and classification. Analytical and synthetic evidences of Citral and Nicotine.

CO5- Understand classification of drugs, Qualities of ideal drug. Synthesis and uses of some representative drugs and Drug action of sulpha drugs.

DSE-F7- Chemistry Paper No- 15 (Physical Chemistry)

CO1- Understand of phase rule, learning of One component, Two component and Three component systems phase diagrams with suitable examples.

CO2- Study the basic concept of Thermodyanamics, free energy, Gibbs-Helmholtz equation and its applications, problem related with it.

CO3- Understand Space lattice, lattice sites, Lattice planes, Unit cell. Laws of crystallography, Weiss indices and Miller indices, Cubic lattices and types of cubic lattice, planes or faces of a simple cubic system, Diffraction of Xrays, Derivation of Bragg's equation. Determination of crystal structure by Bragg's method. Crystal structure of NaCl and KCl on the basis of Bragg's equation.

CO4- Study the kinetics, Simultaneous reactions such as i)opposing reaction ii)side reaction iii)consecutive reactions: iv) chain reaction v) explosive reaction

CO5- Understand the knowledge of distribution law, its modifications, applications of distribution laws, process of extraction, determination of solubility, distribution indicators, molecular weights.

DSE-F8- Chemistry Paper No- 16 (Industrial Chemistry)

CO1- Understand the whole process of manufacture of sugar and byproducts of sugar industry.

CO2- understand of physicochemical principles of production of ammonia, sulfuric acid, nitric acid and sodium carbonate along with its manufacturing plant.

CO3- Understand the classification, synthesis and applications of various polymers.

CO4- Understand the petroleum Industry, fuels and need of use of ecofriendly fuels

CO5- Understand nanotechnology including classification, optical properties, synthesis routes, characterization techniques and applications of nano-materials

B.Sc. I Semester I

DSC - 3 A - Chemistry Paper I (Inorganic chemistry)

Name of the Topic	Expected LerningOutcome
1) Atomic structure and periodicity of Elements.	Ionic knowledge about Bohr's theory, quantum numbers &periodicity of elements gained by the students.
2) Chemical bonding and molecular structure (A) ionic bonding.	Learning and understanding the knowledge about Born - Haber cycle, ionic character.
3) Chemical bonding and molecular structure (B) valence bond theory (VBT).	To promote understanding of basic facts &concepts by hybridization while retaining theexcitementof chemistry.
4) Chemical bonding and molecular structure(C) molecular orbitaltheory.	Learning & understanding Modiagram's, bond order with different problems

B.Sc. I Semester I

DSC - 4 A - Chemistry Paper II (Organic Chemistry)

Name of the Topic	Expected Lerning Outcome
1) Fundamentals of organic.	To promote & understanding of basic facts & concepts in chemistry while retaining the excitement of chemistry.
2) Stereochemistry.	To develop ability of apply the knowledge ofcontents of principal of chemistry.
3) Cycloalkane, Cycloalkeneand Alkadienes.	Learning & understanding catalytical hydrogenationDiels - alder reaction.
4) Aromoticity.	To inquire the concept of aromatic character, benzen ring &development therein.

B.Sc. I Semester II
DSC –3 B - Chemistry Paper III (PhysicalChemistry)

Name of the Topic	Expected Lerning Outcome
1) Chemical Energetics. A] Thermodynamics. B] Thermochemistry.	learning and understanding basic conce pts of thermodynamics, Laws of thermo-chemistry, Concepts of standar states.
2) Chemical Equilibrium.	Understanding the deriva- tion of chemical equilibrium.
3) Kinetic theory of Geases.	To develop the ability & to acquire the knoweldge of terms, facts, concepts, Process techniques & principles of topic.
4) Chemical kinetics.	Learningand undestanding the knoweldge about third zero a second order reaction & theories of reaction rate.

B.Sc. I Semester II
DSC - 4 A - Chemistry Paper IV (Analyatical Chemistry)

Name of the Topic	Expected Lerning Outcome
1) Introduction to Analytical Chemistry.	Learning and understanding Analytical process, sampling methods, error etc.
2) Chromatography.	To develop skills required in chemistry such as the proper handling of apparatus &chemicals in TLC (Thin layer chromatography)
3) Theory of Tritrimetric Analysis.	Knoweldge about Acid - base indicators, complexometric titrations will be gained by the students.
4) Water Analysis.	To expose the students to different processes used in industries & their

	applications.
5) CE Fertilizer analysis	To develop the power of appreciations, the achievements in chemistry a role in nature a Society.

IQAC CO-ORDINATOR
Y. C. COLLEGE, ISLAMPUR

Y. C. COLLEGE SEAL URUN-ISLAMPUR

Principal
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