

D.M.S. MANDAL'S
BHAURAO KAKATKAR COLLEGE, BELGAUM

DEPARTMENT OF HINDI:2022-23
PROGRAMME OUTCOME AND COURSE OUTCOME

परिणाम (Programme Outcome)

इन पाठ्यक्रम के पठन पाठन की दिशा में निम्नलिखित परिणाम सामने आएंगे।

- हिंदी भाषा की आरंभिक स्तर से लेकर वर्तमान के बदलते रूपों की जानकारी प्राप्त की जा सकती है।
- भाषा के मूल्यांकन के माध्यम से भाषा के व्यावहारिक रूप भी जाना जा सकता है।
- उच्च शिक्षक स्तर पर हिंदी भाषा के संप्रसारण में महत्वपूर्ण भूमिका निभा सकती है, इससे संबंधित परिणाम प्राप्त हो सकते हैं।
- भाषागत मूल्यों को व्यावहारिक रूप से भी जाना जा सकता है।
- प्रयोजन मूलक हिंदी, पत्रकारिता, अनुवाद आदि के अद्यापन, अध्ययन के द्वारा व्यावसायिकता की क्षमता में वृद्धि प्राप्त होगी।
- भारतीय साहित्य के अध्ययन से छात्रों के ज्ञान विस्तार तथा अभिव्यक्ति क्षमता में विकास होगा।
- साहित्य के माध्यम से सौंदर्य बोध, नैतिकता, सामाजिक समरसता, पर्यावरण संबंधी विषयों की समझ विकसित होगी।
- भाषायी और साहित्यिक क्षमता में संचयन होगा।
- गंभीर, समीक्षात्मक और स्वतंत्र चिंतन केलिए सक्षम होंगे।
- अपने विचारों को व्यवस्थित करने तथा बहुआयामी व्याख्याओं को समझने केलिए एतैयार होंगे।
- रचनात्मकता में अभिरुचि का निर्माण होगा।
- साहित्य विज्ञान के अध्ययन से साहित्यकार के बुगबुग धका परिचय होगा।
- काव्यशास्त्र के मूल्यों के अध्ययन से विज्ञापन की क्षमता का निर्माण होगा।
- वर्तमान तकनीकी वातावरण में हिंदी के प्रयोग में देख होंगे।
- अनुवाद, रिपोर्ट लेखन, कविता, कहानी आदिकी प्रस्तुति का अनुभव प्राप्त करेंगे।

COURSE OUTCOME

Course code	Title of course	Course outcome
B.COM		
(B.Com.) Sem I AECC-1- HINDI	Collection of Prose + Grammar नूतन गद्य संग्रह(गद्य संकलन)	1. हिंदी गद्य की विभिन्न विधाओं से परिचित होंगे। 2. गद्य के अध्ययन से रचनात्मक लेखन में रुचि उत्पन्न होगी। 3. हिंदी भाषा के शुद्ध स्वरूप को समझेंगे। 4. भाषा कौशल का विकास होगा।
(B.Com.) Sem IIAECC-2- HINDI	Collection of Short stories+Media writing Text : कथा दर्पण (कहानी संकलन)	1. कहानी के पठन पाठन में रुचि उत्पन्न होगी। 2. आधुनिक हिंदी कहानी के विकास क्रम से परिचित होंगे। 3. भाषायी शुद्धता के प्रति रुचि निर्माण होगी। 4. लेखन कौशल प्राप्त कर सकेंगे। 5. पत्रकारिता के बारे में जान सकेंगे।
(B.Com.) Sem IIIAECC-3- HINDI	Collection of Poetry + Letter writing Text : काव्यवैभव (कविता संकलन)	1. कविता पढ़कर स्वयं कविता रचने की क्षमता प्राप्त करेंगे। 2. आधुनिक हिंदी कविता की परिपूर्ण जानकारी प्राप्त करेंगे। 3. सूक्ष्म भावों की अभिव्यक्ति में सक्षम होंगे। 4. हिंदी पत्रव्यवहार से संबंधित सही जानकारी प्राप्त करेंगे।
(B.Com.) Sem IV AECC-4-HINDI	Drama + Computer & Hindi Text : ताजमहल का टैंडर (नाटक)	1. हिन्दी नाटक साहित्य की जानकारी प्राप्त कर सकेंगे। 2. नाटक के तत्वों के आधार पर समीक्षा करने की क्षमता प्राप्त कर सकेंगे। 3. कंप्यूटर और हिंदी, कंप्यूटर पर अनुवाद, हिंदी टाइपिंग टूल्स आदिकी जानकारी प्राप्त कर सकेंगे।
B.SC		
B.Sc. Sem I AECC-1-HINDI	Collection of Short stories+Functional Hindi Text : कहानी कुंज (कहानी	1. कहानी के पठन पाठन में रुचि उत्पन्न होगी। 2. आधुनिक हिंदी कहानी के विकास क्रम से परिचित होंगे। 3. भाषायी शुद्धता के प्रति रुचि निर्माण होगी।



	संकलन)	4. लेखन कौशल प्राप्त कर सकेंगे। 5. हिंदी भाषा का महत्व तथा विविध रूप जान सकेंगे।
B.Sc. Sem II AECC-2-HINDI	Collection of Poems+Translation Text : काव्य कुसुम (कविता संकलन)	1. कविता पढ़कर स्वयं कविता रचने की क्षमता प्राप्त करेंगे। 2. आधुनिक हिंदी कविता की परिपूर्ण जानकारी प्राप्त करेंगे। 3. अनुबाद करने में सक्षम होंगे। 4. सूक्ष्म भावों की अभिव्यक्ति में सक्षम होंगे।
B.Sc. Sem III AECC-3-HINDI	Collection of One Act Plays + Letter writing Text : एकांकीकलश(एकांकीसंग्रह)	1. हिन्दी एकांकी साहित्य की जानकारी प्राप्त कर सकेंगे। 2. एकांकीके तत्वों के आधार पर समीक्षा करने की क्षमता प्राप्त कर सकेंगे। 3. हिंदी पत्रव्यवहार से संबंधित सही जानकारी प्राप्त करेंगे।
B.Sc. Sem IV AECC-4-HINDI	Novel + Mass communication and Hindi Text : सपनों की होम डिलिवरी (उपन्यास)	1. हिन्दी उपन्यास साहित्य की जानकारी प्राप्त कर सकेंगे। 2. उपन्यासके तत्वों के आधार पर समीक्षा करने की क्षमता प्राप्त कर सकेंगे। 3. संचारके विविध माध्यमों को जान सकेंगे। 4. लेखन कौशल प्राप्त कर सकेंगे।
B.A.		
B.A. Sem I AECC-1-HINDI	Collection of Short stories+idioms and proverbs Text : कहानी सरोवर (कहानी संकलन)	1. कहानी के पठन पाठन में रुचि उत्पन्न होगी। 2. आधुनिक हिंदी कहानी के विकास क्रम से परिचित होंगे। 3. भाषायी शुद्धता के प्रति रुचि निर्माण होगी। 4. लेखन कौशल प्राप्त कर सकेंगे। 5. भाषा के प्रयोग में सक्षम होंगे।
B.A. Sem II AECC-2-HINDI	Novel Text : दीड (लघु उपन्यास) : ममता कालिया	1. लघु उपन्यास के तत्वों के आधार पर पाठविश्लेषण क्षमता प्राप्त कर सकेंगे। 2. हिन्दी उपन्यास साहित्य की पूर्ण जानकारी प्राप्त कर सकेंगे।
B.A. Sem III AECC-3-HINDI	Collection of Prose + summarization+ synonymous and opposite words Text : गद्यविविधा (गद्यसंकलन)	1. हिंदी गद्य की विभिन्न विधाओं से परिचित होंगे। 2. हिंदी के गद्यकारों से परिचित होंगे। 3. लेखन कौशल प्राप्त कर सकेंगे। 4. भाषायी शुद्धता के प्रति रुचि निर्माण होगी।
B.A. Sem IV AECC-4-HINDI	Dramatic Poetry +Functional Hindi Text : गाथाकुरुक्षेत्रकी (नाट्यकाव्य) मनोहरश्यामजोशी	1. हिन्दी नाट्यकाव्य/खण्डकाव्य/ समकालीन कविता की पूर्ण जानकारी प्राप्त कर सकेंगे। 2. तत्वों के आधार पर पाठविश्लेषण क्षमता प्राप्त कर सकेंगे। 3. हिंदी पत्रव्यवहार से संबंधित सही जानकारी प्राप्त करेंगे।
B.A. Sem I DSC-1-HINDI	Collection of stories +terminology Text : कहानी संकलन (कहानी संकलन)	1. कहानी के पठन पाठन में रुचि उत्पन्न होगी। 2. आधुनिक हिंदी कहानी के विकास क्रम से परिचित होंगे। 3. भाषायी शुद्धता के प्रति रुचि निर्माण होगी। 4. लेखन कौशल प्राप्त कर सकेंगे। 5. भाषा के प्रयोग में सक्षम होंगे।
B.A. Sem I DSC-2-HINDI	Hindi Grammer	1. शुद्ध भाषा का प्रयोग करने में सक्षम होंगे। 2. भाषा से संबंधित नियमों का ज्ञान प्राप्त होगा। 3. भाषा को वैज्ञानिक दृष्टिकोण से देखने में सक्षम होंगे। 4. भाषायी शुद्धता के प्रति रुचि निर्माण होगी। 5. काव्य के पठन पाठन में रुचि उत्पन्न होगी।



B.A. Sem II DSC-3-HINDI	Collection of Poems Text : पद्य परिमल (कविता संकलन)	2. आधुनिक हिंदी काव्य के विकास क्रम से परिचित होंगे। 3. भाषायी शुद्धता के प्रति रुचि निर्माण होगी। 4. काव्य रचना कौशल प्राप्त कर सकेंगे।
B.A. Sem II DSC-4-HINDI	Functional Hindi	1. प्रयोजनमूलक हिंदी का विज्ञेयणात्मक ज्ञान प्राप्त होगा। 2. प्रयोजनमूलक हिंदीत या उसके माध्यमों का व्यावहारिक प्रयोग कर सकेंगे। 3. हिंदी भाषा के विविध प्रयोजनों से अवगत होंगे। 4. संविधान में राजभाषा हिंदी के प्रावधानों को समझ सकेंगे।
B.A. Sem III DSC-5-HINDI	History of Hindi Literature	1. हिंदी साहित्य के गौरवमय इतिहास से परिचित होंगे। 2. हिंदी भाषा और साहित्य का महत्व जान सकेंगे।
B.A. Sem III DSC-6-HINDI	Collection of One Act Play Text: एकांकी संकलन : डॉ मंजरी त्रिपाठी	1. हिन्दी एकांकी साहित्य की जानकारी प्राप्त कर सकेंगे। 2. एकांकीके तत्वोंके आधारपर समीक्षा करने की क्षमता प्राप्त कर सकेंगे।
B.A. Sem IV DSC-7-HINDI	Hindi Literature (Modern period)	1. हिंदी साहित्य के गौरवमय इतिहास से परिचित होंगे। 2. हिंदी भाषा और साहित्य का महत्व जान सकेंगे।
B.A. Sem IV DSC-8-HINDI	Literary Essay	1. हिंदी भाषा और साहित्य का महत्व जान सकेंगे।
B.A. Sem V DSC-9-HINDI	हिंदी भाषा और भाषा का इतिहास	1. हिंदी भाषा का विज्ञेयणात्मक ज्ञान प्राप्त होगा। 2. विभिन्न बोलियों की समझ विकसित होगी। 3. हिंदी भाषा के इतिहास का विकासक्रम समझ पायेंगे।
B.A. Sem V DSC-10-HINDI	समकालीन साहित्य	1. समकालीन संदर्भों और परिस्थितियों का विज्ञेयण करने की समझ विकसित होगी। 2. समकालीन कवियों और कृतियों को समझने की क्षमता निर्माण होगी। 3. समकालीन विचारधारा को समझ पायेंगे।
B.A. Sem V DSC-11-HINDI	राष्ट्रीय चेतना और हिंदी साहित्य	1. देशके स्वतंत्रता आंदोलन का इतिहास समझ पायेंगे। 2. हिंदी के साहित्यकारों के राष्ट्रीय योगदान को समझ पायेंगे। 3. राष्ट्रीय चेतना के स्वरूप को समझ पायेंगे। 4. राष्ट्रके प्रति प्रेम और गर्व की भावना उत्पन्न होगी।
B.A. Sem VI DSC-12-HINDI	साहित्यशास्त्र, छंद और अलंकार	1. भारतीय काव्यशास्त्र की विज्ञेयणात्मक समझ विकसित होगी। 2. कृतियों के विज्ञेयण हेतु भारतीय चिंतन का पक्ष स्पष्ट होगा। 3. भारतीय काव्यशास्त्र की जानकारी से आलोचनात्मक चिंतन का निर्माण होगा।
B.A. Sem VI DSC-13-HINDI	भारतीय साहित्य	1. भारतीय साहित्य की अवधारणा की समझ विकसित होगी। 2. भारतीय साहित्य की विविध विधाओं में रचित साहित्य के विज्ञेयण की समझ विकसित होगी। 3. भारतीय साहित्य के समान तत्वों की समझ विकसित होगी।
B.A. Sem VI DSC-14-HINDI	भाषाविज्ञान	1. भाषाविज्ञान से संबंधित विज्ञेयण संबंधी समझ विकसित होगी। 2. भाषा की विशेषताओं और उपांगों का विज्ञेयणात्मक ज्ञान प्राप्त करेंगे। 3. भाषाविज्ञान की शाखाओं के अध्ययन के द्वारा भाषा व्यवहार,



		संप्रेषण आदिका ज्ञान प्राप्त करेंगे 4. भाषा के सामाजिक विक्षेपण की क्षमता निर्माण होगी
Open Elective		
OE-1-HINDI (B.A./B.Com./ B.Sc./ B.B.A./ B.S.W/C.C.J)	संभाषण कला तथा चलचित्र लेखन	1. छात्रों में अंतर्निहित संप्रेषण एवं बोलने की कला का विकास होगा 2. व्यक्तित्व विकास होगा। 3. मानक उच्चारण का अभ्यास होगा। 4. संभाषण कला के विविध रूपों का ज्ञान होगा। 5. सिनेमा में रोजगार के अवसरों से परिचित होंगे। 6. हिंदी के विविध मौखिक रूपों का प्रयोग होगा। 7. हिंदी सिनेमा समीक्षा कर सकेंगे।
OE-2-HINDI (B.A./B.Com./ B.Sc./ B.B.A./ B.S.W/C.C.J)	Social Media and Hindi	1. सोशल मीडिया के स्वरूप तथा महत्व को जान सकेंगे। 2. हिंदी भाषा के अध्ययन से अपने भविष्य का निर्माण कर सकेंगे। 3. स्वयं के चरित्र निर्माण द्वारा समाज को विकास के पथ पर अग्रसर करेंगे। 4. आदर्श समाज की स्थापना में स्वयं की भागीदारी को अंकित कर सकेंगे। 5. यू ट्यूब चैनल बनाना सीखेंगे।
OE-3-HINDI (B.A./B.Com./ B.Sc./ B.B.A./ B.S.W/C.C.J)	General Introduction to Hindi Language and Literature	1. हिंदी भाषा के अध्ययन से अपने भविष्य का निर्माण कर सकेंगे। 2. हिंदी साहित्य के गौरवमय इतिहास से परिचित होंगे। 3. हिंदी भाषा और साहित्य का महत्व जान सकेंगे।
OE-4-HINDI B.Sc.	Translation	1. अनुवाद करने में सक्षम होंगे। 2. सूक्ष्म भावों की अभिव्यक्ति में सक्षम होंगे



Unchawale
IQAC Co-ordinator
Bhauroo Kakatkar College
Belgaum

Dati
Head
Dept. of Hindi

[Signature]
Principal
Bhauroo Kakatkar College
BELGAUM

D.M.S.Mandal's
BHAURAO KAKATKAR COLLEGE, BELGAUM

DEPARTMENT OF COMMERCE
ACADEMIC YEAR 2022-23

B.COM PROGRAMME OUTCOMES

- PO1. To provide an effective and holistic commerce education to the needy by using the available facilities.
- PO2. To develop strong manpower with necessary business and technical skills for promoting commercial activities.
- PO3. To produce the capable professionals to ensure the best business practices on contemporary issues in the global business.
- PO4. To encourage young minds to contribute in nation building through providing opportunity to learn different aspects about business.
- PO5. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
- PO6. To develop business analysts for companies, capital markets and commodity markets.
- PO7. To prepare students to take up higher education to become business scientists, researchers, consultants and teachers, with core competencies.
- PO8. To develop human resources to act as think tank for Business Development related issues and to develop entrepreneurs.
- PO9. To develop business philosophers with a focus on social responsibility and ecological sustainability.
- PO10. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
- PO11. To develop ethical managers with interdisciplinary approach.
- PO12. To prepare students for professions in the field of Accountancy-Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and nonlife insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
- PO13. To develop the students for competitive examinations of UPSC, KPSC, Banking Selection, Staff Selection Commission, etc.

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DEPARTMENT OF COMMERCE
PROGRAMME OUTCOMES AND COURSE OUTCOMES
ACADEMIC YEAR 2022-23

COURSE OUTCOMES

B.COM I SEMESTER

1. Name of Course : Financial Accounting
Course Code : B.Com 1.1
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:
CO1 Understand the theoretical framework of accounting as well accounting standards.
CO2 Demonstrate the preparation of financial statement of manufacturing and non- manufacturing entities of sole proprietors.
CO3 Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.
CO4 Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO5 Outline the emerging trends in the field of accounting.

2. Name of Course : Management-Principles & Applications
Course Code : B.Com 1.2
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:
CO1 Understand and identify the different theories of organizations, which are relevant in the present context.
CO2 Design and demonstrate the strategic plan for the attainment of organizational goals.
CO3 Differentiate the different types of authority and chose the best one in the present context.
CO4 Compare and chose the different types of motivation factors and leadership styles.
CO5 Choose the best controlling techniques for better productivity of an organization

3. Name of Course : Principles of Marketing
Course Code : B.Com 1.3
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:
CO1 Understand the basic concepts of marketing and asses the marketing environment.
CO2 Analyze the consumer behaviour in the present scenario and marketing segmentation.
CO3 Discover the new product development & identify the factors affecting the price of a product in the present context.
CO4 Judge the impact of promotional techniques on the customers & importance of channels of distribution,
CO5 Outline the recent developments in the field of marketing.



B.COM II SEMESTER

1. Name of Course : **Advanced Financial Accounting**
Course Code : **B.Com 2.1**
Course Credits : **04**
Course Outcomes : **On successful completion of the course, the Students will be able to:**
CO1. Learn various methods of accounting for hire purchase transactions.
CO2. Deal with the inter-departmental transfers and their accounting treatment.
CO3. Demonstrate various accounting treatments for dependent & independent branches.
CO4. Prepare financial statements from incomplete records.

2. Name of Course : **Corporate Administration**
Course Code : **B.Com 2.2**
Course Credits : **04**
Course Outcomes : **On successful completion of the course, the Students will be able to:**
CO1. Understand the framework of Companies Act of 2013 and different kind of companies.
CO2. Identify the stages and documents involved in the formation of companies in India.
CO3. Analyze the role, responsibilities and functions of Key management Personnel in Corporate Administration.
CO4. Examine the procedure involved in the corporate meeting and the role of company secretary in the meeting.
CO5. Evaluate the role of liquidator in the process of winding up of the company.

3. Name of Course : **Law & Practice of Banking**
Course Code : **B.Com 2.3**
Course Credits : **04**
Course Outcomes : **On successful completion of the course, the Students will be able to:**
CO1. Summarize the relationship between Banker & customer and different types of functions of banker.
CO2. Analyze the role, functions and duties of paying and collecting banker.
CO3. Make use of the procedure involved in opening and operating different accounts.
CO4. Examine the different types of negotiable instrument & their relevance in the present context.
CO5. Estimate possible developments in the banking sector in the upcoming days.

B.COM III SEMESTER

1. Name of Course : **Corporate Accounting**
Course Code : **B.Com 3.1**
Course Credits : **04**
Course Outcomes : **On successful completion of the course, the Students will be able to:**
CO1. Understand the treatment of underwriting of shares.
CO2. Comprehend the computation of profit prior to incorporation.
CO3. Know the valuation of intangible assets.
CO4. Know the valuation of shares.
CO5. Prepare the financial statements of companies as per companies act, 2013.



2. Name of Course : Business Statistics
Course Code : B.Com 3.2
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:

CO1. Familiarizes statistical data and descriptive statistics for business decision- making.
CO2. Comprehend the measures of variation and measures of skewness.
CO3. Demonstrate the use of probability and probability distributions in business.
CO4. Validate the application of correlation and regression in business decisions.
CO5. Show the use of index numbers in business.

3. Name of Course : Cost Accounting
Course Code : B.Com 3.3
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:

CO1. Understand concepts of cost accounting & Methods of Costing.
CO2. Outline the Procedure and documentations involved in procurement of materials& compute the valuation of Inventory.
CO3. Make use of payroll procedures & compute idle and over time.
CO4. Discuss the methods of allocation, apportionment & absorption of overheads.
CO5. Prepare cost sheet & discuss cost allocation under ABC.

4. Name of Course : Financial Education & Investment Awareness
Course Credits : 02
Course Outcomes : On successful completion of the course, the Students will be able to:

CO1. Provide the foundations for financial decision making
CO2. List out various saving and investment alternatives available for a common man
CO3. Give a detailed overview of stock markets and stock selection.
CO4. Orient the learners about mutual funds and the criteria for selection.

B.COM IV SEMESTER

1. Name of Course : Advanced Corporate Accounting
Course Code : B.Com 4.1
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:

CO1. Know the procedure of redemption of preference shares.
CO2. Comprehend the different methods of Mergers and Acquisition of Companies.
CO3. Understand the process of internal reconstruction.
CO4. Prepare the liquidators final statement of accounts.
CO5. Understand the recent developments in accounting and accounting standards

2. Name of Course : Costing Methods & Techniques
Course Code : B.Com 4.2
Course Credits : 04
Course Outcomes : On successful completion of the course, the Students will be able to:

CO1. The method of costing applicable in different industries.
CO2. Determination of cost by applying different methods of costing.
CO3. Prepare flexible and cash budget with imaginary figures



- CO4. Analyze the processes involved in standard costing.
CO5. Familiarize with the Activity Based Costing and its applications.

3. Name of Course : **Business Regulatory Framework**

Course Code : **B.Com 4.3**

Course Credits : **04**

Course Outcomes : **On successful completion of the course, the Students will be able to:**

- CO1. Recognize the laws relating to Contracts and its application in business activities.
CO2. Acquire knowledge on bailment and indemnification of goods in a contractual relationship and role of agents.
CO3. Comprehend the rules for Sale of Goods and rights and duties of a buyer and a seller.
CO4. Distinguish the partnership laws, its applicability and relevance.
CO5. Rephrase the cyber law in the present context.

B.COM V SEMESTER

1. Name of Course : **Management Accounting**

Course Code : **DSC 5.1**

Course Credits : **03**

Course Outcomes : **On successful completion of the course, the Students will be able to:**

- CO1. Understand the analysis and interpretation of financial statements with a view to prepare management reports for decision- making.
CO2. To understand the various management techniques used for business decision.
CO3. To understand the process used for inter-firm comparison.

2. Name of Course : **Income Tax-I**

Course Code : **DSC 5.2**

Course Credits : **03**

Course Outcomes : **On successful completion of the course, the Students will be able to:**

- CO1. To expose the students to the various provisions of Income Tax Act relating to computation of Income of individual assesses.
CO2. To gain the knowledge of provisions of income tax to make the graduates more inspire and relevant to the changing finance Act.

3. Name of Course : **Cost Accounting**

Course Code : **DSC 5.3**

Course Credits : **03**

Course Outcomes : **On successful completion of the course, the Students will be able to:**

- CO1. To familiarize the students with the cost accounting concepts and their applicability in organizations for the purpose of decision making on cost reduction and efficiency improvement.
CO2. To make students aware about the costing methods and costing techniques.
CO3. Ascertainment of cost per unit and computation of profits.



4. Name of Course : **Indian Accounting Standards**
 Course Code : **DSC 5.4**
 Course Credits : **03**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To enable the students to understand the need and method of presentation of financial statements in accordance with IFRS, which makes the students to acquire knowledge about various Ind AS.
5. Name of Course : **Fundamental of Rural Marketing**
 Course Code : **DSCM 5.5**
 Course Credits : **03**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To create awareness about the process of marketing in the rural area and help to understand the working of rural marketing institutions with different issues.
6. Name of Course : **Advertising and Salesmanship**
 Course Code : **DSCM 5.6**
 Course Credits : **03**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To familiarize the students regarding advertising and various dimensions of salesmanship and career opportunities available in these fields.
7. Name of Course : **Community Services**
 Course Code : **SEC 5.7**
 Course Credits : **01**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To enable the students' to learn and develop the skills by involving in the community services.
8. Name of Course : **E-Accounting**
 Course Code : **SEC 5.8**
 Course Credits : **02**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To familiarize the students with Tally and e-accounting.

B.COM VI SEMESTER

1. Name of Course : **Principles and Practice of Auditing**
 Course Code : **DSC 6.1**
 Course Credits : **03**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To impart knowledge about the principles and modern auditing techniques and their applications.
2. Name of Course : **Income Tax-II**
 Course Code : **DSC 6.2**
 Course Credits : **03**
 Course Outcomes : **On successful completion of the course, the Students will be able to:**
 CO1. To make the students understand the computation of Taxable Income and Tax Liability of individual assesses.



3. Name of Course : Costing Methods
 Course Code : DSC 6.3
 Course Credits : 03
 Course Outcomes : On successful completion of the course, the Students will be able to:
 CO1. To familiarize the students on the use of cost accounting methods in different industries.
4. Name of Course : Indian Financial Institutions and Markets
 Course Code : DSC 6.4
 Course Credits : 03
 Course Outcomes : On successful completion of the course, the Students will be able to:
 CO1. To help students to understand the conceptual framework of Indian financial Institutions and markets and their operations.
5. Name of Course : Service Marketing
 Course Code : DSCM 6.5
 Course Credits : 03
 Course Outcomes : On successful completion of the course, the Students will be able to:
 CO1. To develop an understanding of services and service marketing which emphasis on various aspects of service marketing which make it different from goods marketing.
6. Name of Course : Consumer Behaviour
 Course Code : DSCM 6.6
 Course Credits : 03
 Course Outcomes : On successful completion of the course, the Students will be able to:
 CO1. To make the students to understand consumer behavior in marketing management and the changing trends in consumer behavior.
7. Name of Course : Enterprise Resource Planning
 Course Code : SEC 6.7
 Course Credits : 01
 Course Outcomes : On successful completion of the course, the Students will be able to:
 CO1. To provide a contemporary and forward-looking on the theory and practice of Enterprise Resource Planning Technology and prepare the students to self-upgrade with the higher technical skills.
8. Name of Course : Internship Programme
 Course Code : SEC 6.8
 Course Outcomes : On successful completion of the course, the Students will be able to:
 CO1. To enable the students' to undergo in-plant training and understand the overall industrial system.

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ENGDSCA2	Trace and understand the development of Indian English Literature
	Compare works of literature in terms of theme, structure and use of literary devices
	Appreciate literary form and structure in shaping a text's meaning
	B.A. II Semester DSC English
ENGDSCA3	Acquire the knowledge of Phonetics and its concepts
	Gain understanding of Linguistics and its concepts
ENGDSCA4	Trace and understand the development of Indian English Literature
	Compare works of literature in terms of theme, structure and use of literary devices
	Develop critical thinking on the works and authors
	B.A. III Semester DSC English
C010230	Learn the important trends and movements in the British Literature of the prescribed period
	Identify and understand the canonical literature of England
	Distinguish the poets, playwrights and novelists of different periods
	Appreciate some representative texts of the prescribed period
C010240	Understand the meaning and methods of translation
	Comprehend the scope of translation in the modern age
	Have the knowledge of Indian writers and literature in general
	Appreciated the translated text
	B.A. IV Semester DSC English
D010230	Learn the important trends and movements in the British Literature of the prescribed period
	Identify and understand the canonical literature of England
	Distinguish the poets, playwrights and novelists of different periods
	Appreciate some representative texts of the prescribed period
D010240	Understand the concept of gender studies
	Learn the basics of patriarchy, sex and gender and gynocentrism
	Understand the significance of gender as discourse
	Appreciate literature by women writers



Course Code	B.A. V & VI Semester DSE English [CBCS]
DSE ENG109	
DSE ENG110A	
DSE ENG111	
DSE ENG112A	
	Read, understand and interpret a variety of written texts
	Undertake guided and extended writing using appropriate vocabulary and correct grammar
	Listen and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation
	Become employable with requisite professional skills, ethics and values



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DEPARTMENT OF POLITICAL SCIENCE
PROGRAMME OUTCOMES AND COURSE OUTCOMES
ACADEMIC YEAR 2022-23

PROGRAMME OUTCOMES

- Acquire domain knowledge.
- Study and analyze political contexts from critical and constructive prospective.
- Have a better understanding of the working of various political institutions including decentralized institutions state legislatures and parliament and relate this functioning to the greater cause of nation building as a responsible citizen.
- Assess how global national and regional development affects polity and society.
- Not only upgrade the learning of Political Science as a contemporary discipline but also to inculcate the Indian political ethos and the moral standards of functioning of political institutions in India. These in fact, brought laurels to our acumen in politics and Kautilya's Arthashastra stands as a proof of this.
- Understand voluminously about the dimensions of Indian Government, its Parliamentary Procedures, the concerns of Gender in Politics, Gandhian Philosophy and an understanding of the citizens duties and responsibilities in the 3rd semester.
- Understand the papers such as Ancient Indian Political Ideas and Institutions throws light on the wisdom of Indian Political Thought bringing along its side the Modern Political Analysis which is skill based paper.
- Thus, these semesters represent both knowledge and skill components and making it contemporary in its content. Learning among the students will thus make it interesting and lively.
- To equip the students to prepare themselves for careers in teaching and research, the Union and State Civil Services, and the non-governmental sector.
- To increase awareness among students on local, national and international issues, and strengthen their analytical skills and capabilities.
- To train students to be good citizens and understand the framework of Indian constitution.

BA Political Science Course Outcomes

BA-I Sem

Course Title: BASIC CONCEPTS IN POLITICAL SCIENCE (DSC-1)

At the end of the course the students shall understand -

CO1: Political Science, theoretically and will gain knowledge to explain and analyze politics at large.

CO2: The dynamics of politics.

CO3: To inculcate the democratic spirit.

Course Title: POLITICAL THEORY (DSC-2)

At the end of the course the students shall understand -

CO1: The nature and relevance of Political Theory.

CO2: The different concepts like Liberty, Equality, Justice and Rights.

CO3: To reflect upon some of the important debates in Political Theory.

Course Title: HUMAN RIGHTS (OE-1)

After completing this course students will be able to-

CO1: Explain the basic concept of Human Rights and its various formulations.

CO2: Have necessary knowledge and skills for analyzing, interpreting, and applying the Human Rights standards and sensitize them to the issues.

CO3: Develop ability to critically analyse Human Rights situations around them.



BA-II Sem

Course Title: WESTERN POLITICAL THOUGHT (DSC-3)

At the end of the course the students shall understand -

- CO1: And get an introduction to the Schools of Political Thought and Theory making in the West.
- CO2: And introduce the richness and variations in the political perceptions of Western Thinkers.
- CO3: And familiarize themselves to the Thought and Theory of Western Philosophy.

Course Title: INDIAN NATIONAL MOVEMENT AND CONSTITUTIONAL DEVELOPMENT (DSC-4)

At the end of the course the students shall -

- CO1: Understand how the colonial rule was overthrown by the Indian nationalists.
- CO2: Appreciate the ideals and values of Gandhi that resulted in freedom.
- CO3: Examine the problem of Independent India and the role played by great leaders in solving them.

Course Title: INDIAN POLITY AND CONCERNS (OE-2)

At the end of the course the students shall -

- CO1: Understand the reasons behind the causes of these issues and also the constitutional provisions that existed.
- CO2: Familiarize with the debates that emerged.
- CO3: Be able to suggest the measures to control such issues.

BA-III Sem

Course Title: INDIAN GOVERNMENT AND POLITICS (DSC-5)

At the end of the course the students shall -

- CO1: Learn how the governments both at the union as well state level operates and what are its challenges.
- CO2: Understand the characteristics of power structures in India and the response of the political parties to the socio-political dynamics.
- CO3: Measure and understand the effects of judicial decisions on policy making and social development in India.

Course Title: PARLIAMENTARY PROCEDURES IN INDIA (DSC-6)

At the end of the course the students shall -

- CO1: Aim at understanding the procedural aspects of parliamentary system of governments.
- CO2: Learn about the privileges of people's representatives and match it with their performance.
- CO3: Understand the working of committees, budgetary aspects and deliberative mechanism within the parliament.

Course Title: UNDERSTANDING GANDHI (OE-3.2)

At the end of the course the students shall -

- CO1: Be able to explain the idea of truth and non-violence which is the foundation of Gandhian Philosophy.
- CO2: Know the position of Gandhi on issues like Hindu- Muslim relations, gender question, cow protection, caste and untouchability questions.
- CO3: Answer his reason for his choice of Swadeshi and his critique of modern Civilization.

BA-IV Sem

Course Title: ANCIENT INDIAN POLITICAL IDEAS AND INSTITUTIONS (DSC-7)

At the end of the course the students shall -

- CO1: Reflect on the native concepts like Dharma, Rajadharma, Nyaya, Viveka etc., in the light of their modern connotations.
- CO2: Understand the role of texts and stories in the Indian context by reflecting upon our own experiences.
- CO3: Revisit our own socio-political structures through the textual and non-textual sources from the early Indian period in order to quell the European representation of Indian Society and heritage.

Course Title: MODERN POLITICAL ANALYSIS (DSC-8)

At the end of the course the students shall -

- CO1: Understand the key concepts of Political Institutional working and science within them.



CO2: Be familiar with the Phenomenon of politics and various explanations relating to the influence that would the decision making process.

CO3: Help the students to visualize the working of political institutions and the process of decision making through diagrammatic presentations.

Course Title: INDIA and Indian Constitution(AECC)

After completing this course students will be able to-

CO1: Understand the philosophy of the Constitution and its structure.

CO2: Measure the powers and functions of various offices under the Constitution.

CO3: Appreciate the role of Constitution in a Democracy

BA-V Sem

Course Title: Public Administration (Paper-1)

CO1: To gain critical thinking and develop the ability to make logical inferences about socio-economic and political issues, on the basis of comparative and contemporary political discourses in India.

CO2: Contemplate about national and international issues involving States having different political ideologies and historical contexts.

CO3: Pursue higher education such as Post Graduate Studies and Research in Political Science and in other interdisciplinary areas to provide qualitative insights to create a better world.

Course Title: E-Governance (Paper-2)

CO1: Thus, these semesters represent both knowledge and skill components and making it contemporary in its content. Learning among the students will thus make it interesting and lively.

CO2: To equip the students to prepare themselves for careers in teaching and research, the Union and State Civil Services, and the non-governmental sector.

CO3: To increase awareness among students on local, national and international issues, and strengthen their analytical skills and capabilities.

BA-VI Sem

Course Title: Indian Government and Politics (Paper-1)

CO1: To gain critical thinking and develop the ability to make logical inferences about socio-economic and political issues, on the basis of comparative and contemporary political discourses in India.

CO2: Contemplate about national and international issues involving States having different political ideologies and historical contexts.

CO3: Pursue higher education such as Post Graduate Studies and Research in Political Science and in other interdisciplinary areas to provide qualitative insights to create a better world.

Course Title: Local Government in India (Paper-2)

CO1: Thus, these semesters represent both knowledge and skill components and making it contemporary in its content. Learning among the students will thus make it interesting and lively.

CO2: To equip the students to prepare themselves for careers in teaching and research, the Union and State Civil Services, and the non-governmental sector.

CO3: To increase awareness among students on local, national and international issues, and strengthen their analytical skills and capabilities.



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Dept. of Bio-technology

B.Sc. Biotechnology 5th Semester

Program Name	B.Sc. Biotechnology	Semester	5 th Semester
Course Title	Plant and Animal Biotechnology (Theory+Practical)		
Course Code:	BTC5	No. of Theory Credits	04
Contact hours	56hrs	Duration of ESA/Exam	3 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Objectives

1. To understand the fundamental aspects of plant tissue culture.
2. Learn about biotechnological tools and techniques used in plant research and agriculture.
3. Explore methods of introducing foreign genes into plants through transformation techniques.
4. Gain practical skills in plant tissue culture for plant improvement and propagation.
5. To understand the concepts of modern technology pertaining to large-scale production of agricultural products and evaluate several methods for stable and transient plant transformation.
6. Design strategies for plant genetic manipulation against biotic and abiotic stressors.
7. Hypothesize strategies to increase plant yield and fruit/seed quality.

Course Outcomes:

After completing this course, the student is expected to learn the following:

1. Demonstrate a comprehensive understanding of plant biology, physiology, genetics, and molecular biology.
2. Apply biotechnological tools and techniques used in plant research and agriculture, such as plant tissue culture, genetic engineering and transgenics.
3. Execute plant tissue culture techniques for callus induction, somatic embryogenesis, and micropropagation, and apply them in plant breeding and propagation.
4. Perform plant transformation methods and demonstrate the ability to introduce foreign genes into plants using different techniques.
5. Utilize molecular markers and genomic approaches for genetic mapping, marker-assisted selection, and plant breeding programs.
6. Apply molecular biology techniques, including PCR, DNA sequencing, and gene expression analysis, to investigate and analyze plant genetic information.
7. Utilize bioinformatic tools and databases to analyze and interpret plant genomic and transcriptomic data.
8. Apply knowledge about ethical considerations and regulatory frameworks associated with plant biotechnology and genetically modified crops.
9. Apply acquired knowledge and problem-solving skills to address real-world challenges in agriculture, food security, and environmental sustainability using plant biotechnology approaches.



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DEPARTMENT OF CHEMISTRY
PROGRAMME OUTCOMES AND COURSE OUTCOMES
ACADEMIC YEAR 2022-23

PROGRAMME OUTCOME

B.Sc.(Sem. I-IV) (Hons.) Chemistry (A.Y.2022-23)

The B.Sc. (Hons.) programme in Chemistry is designed to develop in students in depth knowledge of the core concepts and principles that are central to the understanding of this core science discipline. Undergraduates pursuing this programme of study go through laboratory work that specifically develop their quantitative and qualitative skills, provides opportunities for critical thinking and team work, and exposes them to techniques useful for applied areas of scientific study.

1. **Knowledge: Width and depth:** Students acquire theoretical knowledge and understanding of the fundamental concepts, principles and processes in main branches of chemistry, namely, organic, inorganic, physical, spectroscopy, analytical and biochemistry. In depth understanding is the outcome of transactional effectiveness and treatment of specialized course contents. Width results from the choice of electives that students are offered.
2. **Laboratory Skills Quantitative, analytical and instrument based:** A much valued learning outcome of this programme is the laboratory skills that students develop during the course. Quantitative techniques gained through hands on methods opens choice of joining the industrial laboratory work force early on. The programme also provides ample training in handling basic chemical laboratory instruments and their use in analytical and biochemical determinations. Undergraduates on completion of this programme can cross branches to join analytical, pharmaceutical, material testing and biochemical labs besides standard chemical laboratories.
3. **Communication:** Communication is a highly desirable attribute to possess. Opportunities to enhance students' ability to write methodical, logical and precise reports are inherent to the structure of the programme. Techniques that effectively communicate scientific chemical content to large audiences are acquired through oral and poster presentations and regular laboratory report writing.
4. **Capacity Enhancement:** Modern day scientific environment requires students to possess ability to think independently as well as be able to work productively in groups. This requires some degree of balancing. The chemistry honours programme course is designed to take care of this important aspect of student development through effective teaching learning process.
5. **Portable Skills:** Besides communication skills, the programme develops a range of portable or transferable skills in students that they can carry with them to their new work environment after completion of chemistry honours programme. These are problem solving, numeracy and mathematical skills- error analysis, units and conversions, information retrieval skills, IT skills and organizational skills. These are valued across work environments.



COURSE OUTCOMES:

Chemistry as Discipline Specific Course (DSC) B.Sc. Semester –I& II

1. Describe the dual nature of radiation and matter; dual behaviour of matter and radiation, de Broglie's equations, Heisenberg Uncertainty principle and their related problems.
2. Electronic configurations of the atoms.
3. Define periodicity, explain the cause of periodicity in properties, and classify the elements into four categories according to their electronic configuration.
4. Define atomic radii, ionisation energy, electron affinity and electronegativity, discuss the factors affecting atomic radii, describe the relationship of atomic radii with ionisation energy and electron affinity, describe the periodicity in atomic radii, ionization energy, electron affinity and electronegativity.
5. Explain bond properties, electron displacement effects (inductive effect, electrometric effect, resonance effect and Hyper conjugation effect). Steric effect and their applications in explaining acidic strength of carboxylic acids, basicity of amines.
6. Understand basic concept of organic reaction mechanism, types of organic reactions, structure, stability and reactivity of reactive intermediates.
7. Describe important characteristics of configurationally and conformational isomers. Practice and write conformational isomers of ethane, butane and cyclohexane.
8. Understand the various concepts of geometrical isomerism and optical isomerism. Describe CIP rules to assign E,Z notations and R& S notations. Explain D and L configuration and threo and erythro nomenclature.
9. Explain racemic mixture and racemisation, resolution of racemic mixture through mechanical separation, formation of diastereomers, and biochemical methods, biological significance of chirality.
10. Explain the existence of different states of matter in terms of balance between intermolecular forces and thermal energy of the particles. Explain the laws governing behavior of ideal gases and real gases. Understand cooling effect of gas on adiabatic expansion.
11. Describe the conditions required for liquefaction of gases. Realise that there is continuity in gaseous and liquid state.
12. Explain properties of liquids in terms of intermolecular attractions.
13. Understand principles of titrimetric analysis.
14. Understand principles of different type's titrations. Titration curves for all types of acids – base titrations.
15. Gain knowledge about balancing redox equations, titration curves, theory of redox indicators and applications.
16. Understand titration curves, indicators for precipitation titrations involving silver nitrate- Volhard's and Mohr's methods and their differences.



OEC-1 Chemistry

1. Understand the chemical constituents in various day today materials using by a common man.
2. Understand the chemical constituents in fertilizers, insecticides and pesticides, chemical explosives
3. Understand the chemical constituents in polymers, surface coatings etc.

OEC-2 Chemistry

After studying this paper the student would be able to

1. Acquire knowledge about different types of sugars and their chemical structures.
2. Identify different types of amino acids and determine the structure of peptides.
3. Explain the actions of enzymes in our body and interpret enzyme inhibition.
4. Predict action of drugs. Depict the biological importance of oils and fats. Importance of lipids in the metabolism Differentiate RNA and DNA and their replication. Explain production of energy in our body.

Sem IV

Course Specific Outcomes

After the completion of this course, the student would be able to

1. Understand the importance of fundamental law and validation parameters in chemical analysis
2. Know how different analytes in different matrices (water and real samples) can be determined by spectrophotometric nephelometric and turbidometric methods.
3. Understand the requirement for chemical analysis by paper, thin layer and column chromatography.
4. Apply solvent extraction method for quantitative determination of metal ions in different samples
5. Utilize the ion-exchange chromatography for domestic and industrial applications
6. Explain mechanism for a given reaction.
7. Predict the probable mechanism for a reaction. explain the importance of reaction intermediates, its role and techniques of generating such intermediates
8. Explain the importance of Stereochemistry in predicting the structure and property of organic molecules.
9. Predict the configuration of an organic molecule and able to designate it.
10. Identify the chiral molecules and predict its actual configuration.

OEC SEM III:

After studying this paper the student would be able to

1. Acquire knowledge about different types of sugars and their chemical structures.
2. Identify different types of amino acids and determine the structure of peptides.
3. Explain the actions of enzymes in our body and interpret enzyme inhibition.
4. Predict action of drugs. Depict the biological importance of oils and fats. Importance of lipids in the metabolism Differentiate RNA and DNA and their replication. Explain production of energy in our body.

Course outcomes:

After the completion of this course, the student would be able to

1. Predict the nature of the bond formed between different elements
2. Identify the possible type of arrangements of ions in ionic compounds
3. Write Born-Haber cycle for different ionic compounds
4. Relate different energy parameters like, lattice energy, entropy, enthalpy and solvation energy in the dissolution of ionic solids
5. Explain covalent nature in ionic compounds
6. Write the M.O. energy diagrams for simple molecules
7. Differentiate bonding in metals from their compounds
8. Learn important laws of thermodynamics and their applications to various thermodynamic systems
9. Understand adsorption processes and their mechanisms and the function and purpose of a catalyst.
10. Apply adsorption as a versatile method for waste water purification.
11. Understand the concept of rate of a chemical reaction, integrated rate equations, energy of activation and determination of order of a reaction based on experimental data



Open Elective:

Electrochemistry, Corrosion and Metallurgy

Expected Course Outcomes Upon completion of the course students will be able to

1. Understand the concept of conductance in electrolytic solutions, electrolysis and redox reactions involved in electrode reactions.
2. Learn the different types of electrochemical cells, their symbolical representation and application of electrochemical series.
3. Apply conductometric, potentiometric and pH titrations
4. Know the principle, construction and working of batteries
5. Understand different types of corrosion and its prevention by different methods
6. Learn the methods of extraction of metals from their ores and purification

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Department of Computer Science

Program & Course Outcome. (2022-23)

Program Outcome	<ol style="list-style-type: none">1. Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity2. Problem Solving: Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.3. Programming a computer: Exhibiting strong skills required to program a computer for various issues and problems of day-to-day applications with thorough knowledge on programming languages of various levels.4. Application Systems Knowledge: Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.5. Communication: Must have a reasonably good communication knowledge both in oral and writing.6. Ethics on Profession, Environment and Society: Exhibiting professional ethics to maintain the integrality in a working environment and also have concern on societal impacts due to computer-based solutions for problems.7. Lifelong Learning: Should become an independent learner. So, learn to learn ability.8. Motivation to take up Higher Studies: Inspiration t
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Course Outcome:

Class Bsc-I Sem (DSC)

Sub: Computer Fundamentals and Programming in C

Course Outcome	<ul style="list-style-type: none">• Confidently operate Desktop Computers to carry out computational tasks• Understand working of Hardware and Software and the importance of operating systems• Understand programming languages, number systems, peripheral devices, networking, multimedia and internet concepts• Read, understand and trace the execution of programs written in C language• Write the C code for a given problem• Perform input and output operations using programs in C• Write programs that perform operations on arrays
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Class: BCom/BA-I Sem (OEC)

Sub: C Programming Concepts .

Course Outcome	<ol style="list-style-type: none">1. Read, understand and trace the execution of programs written in C language2. Write the C code for a given problem3. Perform input and output operations using programs in C4. Write programs that perform operations on arrays5. Write user defined functions to perform a task
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Class Bsc-II Sem (DSC)

Sub: Data Structure

	<ol style="list-style-type: none">1. Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms2. Describe common applications for arrays, records, linked structures, stacks, queues, trees, and graphs
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Course Outcome	<ol style="list-style-type: none"> 3. Write programs that use arrays, records, linked structures, stacks, queues, trees, and graphs 4. Demonstrate different methods for traversing trees 5. Compare alternative implementations of data structures with respect to performance 6. Describe the concept of recursion, give examples of its use 7. Discuss the computational efficiency of the principal algorithms for sorting and searching
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Class BA/BCOM II Sem (OEC)

Sub: Web Designing

Course Outcome	<ol style="list-style-type: none"> 1. Read, understand and trace the execution of programs 2. Write the code for a given problem 3. Perform input and output operations using programs 4. Write user defined functions to perform a task
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Class Bsc-III Sem (DSC)

Sub: Object Oriented Programming Concepts and Programming in Java

Course Outcome	<ol style="list-style-type: none"> 1. Object-oriented concepts and JAVA. 2. Write JAVA programs using OOP concepts like Abstraction, Encapsulation, Inheritance and Polymorphism. 3. Implement Classes and multi threading using JAVA. 4. Demonstrate the basic principles of creating Java applications with GUI.
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Class BCom/BA-III Sem (OEC)

Sub: Python Programming Concepts.

Course Outcome	<ol style="list-style-type: none"> 1. Explain the fundamentals of Computers. 2. Explain the basic concepts of Python Programming. 3. Demonstrate proficiency in the handling of loops and the creation of functions. 4. Identify the methods to create and store strings.
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Class BSc-IV Sem (DSC)

Sub: Database Management System.

Course Outcome	<ol style="list-style-type: none">1. Identify and define database objects, enforce integrity constraints on a database using DBMS.2. Demonstrate Data model and Schemas in RDBMS.3. Identify entities and relationships and draw ER diagram for a given real-world problem.4. Convert an ER diagram to a database schema and deduce it to the desired normal form.5. Formulate queries in Relational Algebra, Structured Query Language (SQL) for a database.6. Manipulation.7. Explain the transaction processing and concurrency control techniques.
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Class BA-II, BCom/BSc-I, (SEC)

Sub: Digital Fluency

Course Outcome	<ul style="list-style-type: none">• To perform and get knowledge about applications, virtual learning and internet fundamentals.• Develop holistically by learning essential skills such as effective communication, problem-solving, design thinking, and teamwork.
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Class BA-III, BCom/BSc-IV, (SEC)

Sub: Artificial Intelligence

Course Outcome	<ol style="list-style-type: none">1. Appraise the theory of Artificial intelligence and list the significance of AI.2. Discuss the various components that are involved in solving an AI problem.3. Illustrate the working of AI Algorithms in the given contrast.4. Analyze the various knowledge representation schemes, Reasoning and Learning techniques of AI.
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	5. Apply the AI concepts to build an expert system to solve the real-world problems.
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Class BSc-V

Sub: Paper –II Java Programming .

Course Outcome	<ol style="list-style-type: none"> 1. Explain the object-oriented concepts and JAVA. 2. Write JAVA programs using OOP concepts like Abstraction , Encapsulation, Inheritance and Polymorphism. 3. Implement Classes and multi threading, creating Java applications with GUI.
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Class BSc-V

Sub: Paper-I Computer Networks

Course Outcome	<ol style="list-style-type: none"> 1. Understanding Data communication, 2. Layers of Network. 3. Switching: Circuit-switched networks, datagram networks, virtual-circuit networks, structure of a switch. Telephone networks, dialup modems, digital subscriber line, cable-TV networks. 4. Detection and Correction: Errors, redundancy, detection versus correction, block coding, linear block codes, cyclic codes, checksum.
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Class BSc-V (SEC)

Sub: Fundamental of e-governance

	<ol style="list-style-type: none"> 1. E-Government and E-Governance, Stages of E-Governance, National E-Governance 2. Plan (NeGP), Mission Mode Projects and their implementation status, E-Governance , 3. Identifying Role of ICT's in e-governance, Need, importance of E-governance.
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Course Outcome	<ol style="list-style-type: none"> 4. Categories Key Issues of E-Governance, Technology, Policies, Infrastructure, 5. Training, Copyrights , Consulting Funds, E-governance Models, Model of Digital Governance, 6. Public information:employment, hospitals, railway, Agricultural sector: Fertilizers, Seeds, Utility 7. payments Electricity, water, telephone.
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Class BSc-VI

Sub: Paper I Web Designing

Course Outcome	<p>JDBC-Setting the JDBC connectivity with a backend database.</p> <p>Exceptional handling, built in objects,cookies, events, dynamic HTML with Java Script.</p> <p>Creation of HTML and Style sheets. Cascading style sheets(CSS), properties and values in styles, formatting blocks of information,</p> <p>Design of CSS2, styling for paged media, using aural presentation, counters and numbering.</p> <p>Developing CGI application, processing CGI, CGI.</p> <ol style="list-style-type: none"> 1. Understanding Data communication, 2. Layers of Network. 3. Switching: Circuit-switched networks, datagram networks, virtual-circuit networks, structure of a 4. switch. Telephone networks, dialup modems, digital subscriber line, cable-TV networks. 5. Detection and Correction: Errors, redundancy, detection versus correction, block coding, linear 6. block codes, cyclic codes, checksum.
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Class BSc-VI

Sub: Paper II Python

Course Outcome	<ol style="list-style-type: none">1. Working with python, Variables, expressions, and statements, accepting user input, Conditional execution, Alternative execution, Chained conditionals, Nested conditionals, Iteration,2. Working with Function Basics- Built-in Functions.3. Working with functions as objects, map() function, Strings, indexing, Slicing, Exception: Exceptions in Python, Handling Exceptions: try block, except block, else block, finally block, Raising an exception, User defined exception, Assertions. Object-Oriented Programming:4. Database connectivity in Python.
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Class BSc-VI (SEC)

Sub: Cyber Laws

Course Outcome	<ol style="list-style-type: none">1. Understanding Cyber Laws.2. Understanding Contracts. IT Acts3. Understanding Computer Virus & Attacks.
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DEPARTMENT OF ZOOLOGY

B.Sc. Zoology

Programme Outcome-1

Knowledge outcomes:

After completing B.Sc. Zoology Programme students will be able to:

- PO1: Demonstrate and apply the fundamental knowledge of the basic principles of major fields of Zoology;
- PO2: Apply knowledge to solve the issues related to animal sciences
- PO3: Take appropriate steps towards conservation of endemic and endangered animal species

Skill outcomes:

After completing B.Sc. Zoology Programme students will be able to:

- PO4: To foster curiosity in the students for Zoology
- PO5: To create awareness amongst students for the basic and applied areas of Zoology
- PO6: To orient students about the importance of abiotic and biotic factors of environment and their conservation
- PO7: To provide an insight to the aspects of animal diversity.
- PO8: To inculcate good laboratory practices in students and to train them about proper handling of lab instruments.

Generic outcomes:

Students will

- PO10: Demonstrate knowledge and understanding of Zoology and management principles and apply these to one's own work, as a member and leader in a team.
- PO11: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change
- PO12: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



Programme (B.S.) (Zoo) Outcome

- PSO1 - Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology
- PSO2 - Analyse the relationships among animals with their ecosystems
- PSO3 - Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology
- PSO4 - Understand the applications of Zoology in Agriculture, Medicine and daily life
- PSO5 - Gains knowledge about research methodologies, effective communication and skills of problem solving methods
- PSO6 - Contributes the knowledge for Nation building.



Zoology-Lab Course Content

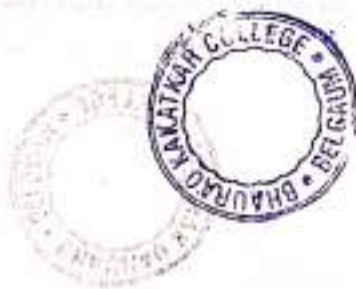
Semester-I

Course Title: Cell Biology & Cytogenetics	Course Credits: 2
Course Code: 21BSC1C1ZOO1P	L-T-P per week: 0-0-4
Total Contact Hours: 56	Duration of T&A: 4 hours
Formative Assessment Marks: 25	Summative Assessment Marks: 25

Course Outcomes (COs):

At the end of the course the student should be able to:

1. To use simple and compound microscopes.
2. To prepare stained slides to observe the cell organelles.
3. To be familiar with the basic principle of life, how a cell divides leading to the growth of an organism and also reproduces to form new organisms.
4. The chromosomal aberrations by preparing karyotypes.
5. How chromosomal aberrations are inherited in humans by pedigree analysis in families The antigen- antibody reaction



Semester-II: Zoology Course Lab Content

Course Title/Code: Biochemistry and Physiology	Course Credits: 2
Course Code: 21HSC2C2Z002P	L-T-P per week: 0-0-4
Total Contact Hours: 56	Duration of ESA: 4 Hours
Formative Assessment Marks : 25	Summative Assessment Marks: 25

Course Outcomes (COs):

- At the end of the course the student should be able to understand: Basic structure of biomolecules through model making.
- Develop the skills to identify different types of blood cells.
- Enhance basic laboratory skill like keen observation, analysis and discussion. Learn the functional attributes of biomolecules in animal body.
- Know uniqueness of enzymes in animal body and their importance through enzyme kinetics.



III Semester BSc Zoology Core Course Content

Course Title/Code: Molecular Biology, Bioinstrumentation & Techniques in Biology	Course Credits:4
Course Code: DSCC5ZOOT3	L-T-P per week:4-0-0
Total Contact Hours: 56	Duration of ESA: 21hours
Formative Assessment Marks:40	Summative Assessment Marks: 60

Course Outcomes (COs):

At the end of the course the student should be able to understand:

1. After successful accomplishment of the course, the learners will be able to acquire better understanding and comprehensive knowledge regarding most of the essential aspects of Molecular Biology subject which in turn will provide a fantastic opportunity to develop professional skill related to the field of molecular biology.
2. The course will mainly focus on the study of principal molecular events of cell incorporating DNA Replication, Transcription and Translation in prokaryotic as well as eukaryotic organisms.
3. Acquiring knowledge on instrumentation and techniques in biology.



IV Semester, B.Sc, (Hons) Zoology

Course Title: Gene Technology Immunology and Computational Biology	Course Code:DSCC5ZOOT4
Course Type: Discipline Core Theory, L-T-P: 4-0-0	Course Credits: 4
Total Contact Hours: 56	Duration of ESA: 2Hrs.
Formative Assessment Marks:40	Summative Assessment Marks:60

At the end of the course the student should be able to:

1. Acquaint knowledge on versatile tools and techniques employed in genetic engineering and recombinant DNA technology.
2. An understanding on application of genetic engineering techniques in basic and applied experimental biology.
3. To acquire a fundamental working knowledge of the basic principles of immunology.
4. To understand how these principles, apply to the process of immune function.
5. Use, and interpret results of, the principal methods of statistical inference and design; helps to communicate the results of statistical analyses accurately and effectively; helps in usage of appropriate tool of statistical software.



Course Outcomes (COs): At the end of the course, students will be able to:

CO 1: Develop an understanding of how animals interact with each other and their natural environment.

CO 2: Get knowledge about all types of ecosystems, food chains, webs and energy models.

CO 3: Study various types of environmental pollutions

CO 4: Develop the ability to use the fundamental principles of wildlife ecology to solve local, regional and national conservation and management issues.

CO 5: Gain an appreciation for the modern scope of scientific inquiry in the field of wildlife conservation management.

CO 6: Develop an ability to analyze, present and interpret wildlife conservation management information.



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Course Outcomes (COs): At the end of the course students will be able to:

- CO 1: Explain what the prerequisite to get started in beekeeping
- CO 2: Discuss the responsibilities of urban beekeepers.
- CO 3: Identify where to purchase equipment and demonstrate how to assemble it.
- CO 4: Name and identify major parts of the honeybee such as mouth parts, sting apparatus and mandibular parts.
- CO5: Describe bee biology and anatomy from the perspective of managing bees.
- CO 6: Describe the importance and usage of honey and bee wax.



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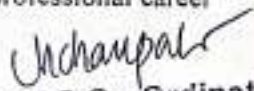
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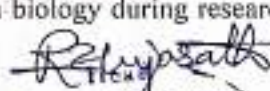
Department of Botany 2022-23

Program Out comes

B.Sc I,II,III, & IV-NEP And Vth & VIth CBCS.

- PO1: Skill development for the proper, identification, naming, classification and description of botanical terms of life forms especially plants and microbes.
- PO2: Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.
- PO3: Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.
- PO4: Understanding of the major elements of variation that exist in the living world through Comparative morphological and anatomical study.
- PO5: Ability to explain the diversity and evolution based on the empirical evidences in Morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life History.
- PO6: Skill development for the collection, preservation and recording of information after Observation and analysis- from simple illustration to molecular database development.
- PO7: Making aware of the scientific and technological advancements- Information and Communication, Biotechnology and Molecular Biology for further learning and research in all branches of botany.
- PO8: Internalization of the concept of conservation and evolution through the channel of spirit of inquiry.
- PO 9: To enable the graduates to prepare for national as well as international level competitive Examinations like UGC-CSIR, UPSC, and KPSC etc.
- PO10: To enable the students for practicing the best teaching pedagogy as a biology teacher Including the latest digital modules.
- PO 11: The graduates should be knowledgeable and competent enough to appropriately deliver On aspects of global importance like climate change, SDGs, green technologies etc at the right opportunity.
- PO 12: The graduate should be able to demonstrate sufficient proficiency in the hands-on Experimental techniques for their area of specialization within biology during research and in the professional career


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Course outcome I

1. Understand the fascinating diversity, evolution, and significance of microorganisms.
2. Comprehend the systematic position, structure, physiology and life cycles of Microbes and their impact on humans and environment.
3. Gain laboratory skills such as microscopy, microbial cultures, staining, identification, preservation of microbes for their applications in research and industry.

Course outcome II

1. Understand the diversity and affinities among Algae, Bryophytes, Pteridophytes and Gymnosperms.
2. Understand the morphology, anatomy, reproduction and life cycle across Algae, Bryophytes, Pteridophytes and Gymnosperms, and their ecological and evolutionary significance.
3. Obtain laboratory skills/explore non-flowering plants for their commercial applications.

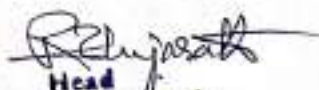
Course outcome III

1. Observation of variations that exist in internal structure of various parts of a plant and as well as among different plant groups in support for the evolutionary concept.
2. Skill development for the proper description of internal structure using botanical terms, their identification and further classification.
3. Understanding basic concept in plant morphogenesis and embryogenesis and organ development .

Course outcome IV.

1. Understanding the fundament concept in ecology, environmental science and phytogeography.
2. Concept development in conservation global ecological crisis. Sustainable development and protects and conservation of human intervention.
3. Enable the student to appreciate bio diversity and the importance of various conservation strategies, laws and regulatory authorities and global issues related to climate change and sustainable development.

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Course outcome V.

1. Students know about the economic importance Cereals and legumes, pulses, spices, beverages, oil and fats.
2. Students learn the microbial genetics and manipulation, immunology and plant tissue culture.
3. To learn the recombinant DNA technology, blotting techniques.
4. Students know about the cell and molecular biology.

Course outcome VI.

1. Students learn about the different types of microscope, principles and application.
2. Students know about the biostatistics.
3. Students learn the manures and Bacterial bio-fertilizers and organic farming.

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