



GOVERNMENT COLLEGE FOR MEN
(Autonomous)
Affiliated to Yogi Vemana University
Reaccredited by NAAC at "B" Grade
Rims Road, Beside New Collectorate, Kadapa-516004



AY – 2022-23

B.Sc. Maths, Physics and Computer Science (MPCs)

PROGRAMME OUTCOMES (POs)

- Critical Thinking: Student can apply critical thinking and enhance learning in the three major subjects of their choice with scientific reasoning and analytical skills.
- Problem solving: Think logically and organize task into a structured form for problem solving by applying the knowledge of basic science.
- Effective communication: To develop the ability of effective communication of scientific information in written and oral format.
- Individual and teamwork: Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Gain knowledge and understanding of definitions, concepts, theorems in Algebra, Analysis, Differential Equations and Linear Algebra.
- Use Mathematical software leading to professional development.
- Acquire logical and analytical skills to apply the concepts to model and solve real life problems in related areas.
- Attain sound knowledge in the areas of Mechanics, Thermal Physics, Optics, Electromagnetism, Quantum Physics, Solid state Physics for pursuing higher education and research.
- Know about computing principles and business practices employed as software solutions in industries.

B.Sc. Maths, Electronics, Computer Science (MECs)

PROGRAM OUTCOMES (POs)

- Critical Thinking: Apply critical thinking and enhance learning in the three major subjects of their choice with scientific reasoning and analytical skills.
- Problem solving: Think logically and organize task into a structured form for problem solving by applying the knowledge of basic science.

- Effective communication: To develop the ability of effective communication of scientific information in written and oral format.
- Individual and teamwork: Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Gain knowledge and understanding of definitions, concepts, theorems in Algebra, Analysis, Differential Equations and Linear Algebra.
- 2 Use Mathematical software leading to professional development.
- Acquire logical and analytical skills to apply the concepts to model and solve real life problems in related areas.
- Gain knowledge in basics of circuit analysis, Analog circuits, Semiconductor devices, Digital electronics and communication theory

B.Sc. Biotechnology, Zoology, Chemistry (B.Sc. Bt.Z.C)

PROGRAMME OUTCOMES (POs)

The graduates of this degree program will:

- Be able to demonstrate their knowledge of biotechnology concepts
- Possess technical knowledge and hands-on skills necessary for biotechnology research activity.
- Be able to communicate effectively on the subject and work in teams
- Be able to give shape to the innovative ideas
- Think critically in terms of their learning and knowledge.
- Assess and implement the practical techniques necessary to solve a particular biological problem.
- Analyze and quantify data collected during a research project.
- Communicate with expert and non-expert audiences through popular essays, poster displays, seminar presentations, project reports and Research publications.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

The graduates of this program will:

- Have basic knowledge of cell and its components
- Be introduced to microbes and its applications.
- Understand how the concepts of physics and chemistry are significant to biology
- Learn basic molecular biology and apply it for genetic engineering of plants animals and environment

B.Sc. Biotechnology, Botany, Chemistry (B.Sc. Bt.B.C)

PROGRAMME OUTCOMES (POs)

The graduates of this degree program will:

- Be able to demonstrate their knowledge of biotechnology concepts
- Possess technical knowledge and hands-on skills necessary for biotechnology research activity.
- Be able to communicate effectively on the subject and work in teams
- Be able to give shape to the innovative ideas
- Think critically in terms of their learning and knowledge.
- Assess and implement the practical techniques necessary to solve a particular biological problem.
- Analyze and quantify data collected during a research project.
- Communicate with expert and non-expert audiences through popular essays, poster displays, seminar presentations, project reports and Research publications.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

The graduates of this program will:

- Have basic knowledge of cell and its components
- Be introduced to microbes and its applications.
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B.Sc. (BBC) (Biotechnology, Botany, Chemistry)

- understand the basic concepts of Biotechnology, Botany and Chemistry
- To utilize all the techniques of applied life science Biotechnology in the fields Of Pharmaceutical, Animal tissue culture, Plant tissue culture, Immunological, Genetic engineering and Bioinformatical laboratories.
- To understand the application of biological sciences in Horticulture, Genetic Engineering and Biotechnology.
- To develop interest among students in various branches of chemistry.

B.sc B.Z.C. (Botany, Zoology, Chemistry)

- Understand the basic concepts of Botany, zoology and chemistry.
- Understand the application of biological sciences in Horticulture, genetic Engineering and Biotechnology.
- Perform procedures as per laboratory Standards in the area of cell biology, Genetics, Physiology, ecology, Embryology and Aquaculture.
- To develop interest among students in various branches of Chemistry students able to analyze Spectroscopy, chromatography.

BA History, Political Science, Urdu Literature H.P.U

PROGRAMME OUTCOMES

- Students pursuing U/G Programme in H.P.U (UM) will be able to gain basic knowledge in the concerned subjects namely History, Political Science, and Urdu Literature.
- Students will be able to understand and explain various stages in the development of concerned subjects.
- Student will be able to further enhance communication skills in their own mother tongue. Student will be able to hone skills of Creative Writing, hence paving way for the development of creative ideas.
- Students pursuing this Programme will be able to appear in various competitive exams leading to recruitment for administrative posts through APPSC and UPSC etc.

B.A - Economics, History, Political Science (E.H.P)

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1: Understand the basic concepts like National Income, Poverty, Employment, International Trade, Fiscal and Monetary policies, Economic conditions of various historic periods, Satavahana's foreign trade, numismatics, agriculture economy from ancient period.

PSO 2: To analyse the economic importance of various sectors like agriculture, industry and Service sector in different dynasties that influence administration like Chola Administration (Local self-Government), Mauryan administration (Urban governance) and British Administration.

PSO 3: To understand the impact of agriculture and foreign trade in economic development that Attract foreign invaders towards India, resulting in changed administration in due course upto and after independence.

PSO 4: To provide life skills required for gainful employment by using domain knowledge such.As Economic Service, Historians/ History writing and bureaucrats at various levels.

B.Sc. Maths, Cloud Computing, Computer Science (MCCCS)

PROGRAM OUTCOMES (POS)

The graduates of this degree program will

- To develop problem-solving abilities using a computer system
- To build the necessary skill set and analytical abilities for developing computer based Solutions for real life problems.
- To imbibe quality software development practices.
- To create awareness about process and product standards in developing software's
- To train students in professional skills related to Software Development Industry.
- To prepare necessary knowledge base for research and development in filed where we can Use computer science.
- Upon completion of this program, students should have a good working knowledge of Multimedia systems, its use, impact and importance.
- To design valid, well-formed, scalable, and meaningful multimedia applications using

1. B Com(General)

Programme Outcome

- understands the qualities of an Entrepreneur
- Develops the skills of an Accountant
- knows how to be a Tax consultant

Programme Specific Outcomes

- To understand the nature, scope and concepts of Accounting, Business Operations and Management.
- To analyse the relationship between Accounting, Auditing and Taxation.
- To understand the application of Corporate Accounting Principles and Practices in real time business situations.
- To equip the students with leadership skills and knowledge in computing skills.
- To enable the students to understand the legal environment and its effect on business,

2. B Com(Computer Applications)

Programme Outcome

- Understands the qualities of an Entrepreneur
- Develops the skills of an Accountant
- Uses computer background for accounting purpose

Programme Specific Outcomes

- To understand the nature, scope and concepts of Accounting, Business Operations and Management.
- To enable the students to understand the concepts of computer software and its applications in business operations.
- To equip the students with business analytics and e-commerce skills.
- To develop the students with communication, leadership and entrepreneurial skills.
- To make them learn the latest technologies and their application in modern business operations.

3. B.Com(Banking and Financial Services, Insurance and Exim trade)

Programme Outcome

- Promoting Student to become a startup member in Business community.
- Comprehend the basic structure and process of Financial Systems, Financial Structure.
- Analyze the Financial scenario and problems and formulate Financial Decision making

Programme Specific Outcomes

- To understand the nature, scope and concepts of Accounting, Business Operations and Management.
- To understand the nature, scope and concepts of financial services sector.
- To equip the students with latest skills and knowledge required in banking, financial services and insurance sector.
- To equip the students with latest skills and knowledge required in banking, financial services and insurance sector.

Academic Year	BOS Approved on	Subject	Modifications in Curriculum	Semester	Paper	Nature of Course	Course Code	Type of Course	Title of the Course	CO-1	CO-2	CO-3	CO-4
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	I	I	Theory	1307	Core Course	Problem Solving in C	Understand the functionality and usability of a Digital Computer.	Apply logical skills to analyze a given problem	Develop an algorithm for solving a given problem	Understand, C language constructs like statements, Array, functions, etc
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	I	I	Practical	P1307	Core Course	Problem Solving in C Lab	Apply logical skills to analyze a given problem	Develop an algorithm for solving a given problem	Understand, C language constructs like statements, Array, functions, etc	Apply C language constructs to write source code based on the algorithms and test for requirements in problem definition
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	II	II	Theory	2307	Core Course	Data Structures using C	Understand Data Structures for data storage and processing	Comprehend Data Structures – Stack, Queue, Linked List, Trees, Graphs	Have knowledge on basic operations like insert, delete, search, update and traversal	Design and develop programs using various data structures
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	II	II	Practical	P2307	Core Course	Data Structures using C Lab	Understand Data Structures for data storage and processing	Comprehend Data Structures – Stack, Queue, Linked List, Trees, Graphs	Develop ability to implement different sorting and search methods	Have knowledge on basic operations like insert, delete, search, update and traversal
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Theory	5307	Core Course	Web Interface Designing Technologies	Understand and appreciate the web architecture and services.	Gain knowledge about various components of a website	Demonstrate skills regarding creation of a static website and an interface to dynamic website	Learn how to install word press and gain the knowledge of installing various plugins to use in their websites

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Practical	P5307	Core Course	Web Interface Designing Technologies Lab				
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Theory	7307	Core Course	Web Applications Development using PHP& MYSQL	Write simple programs in PHP	Understand how to use regular expressions, handle exceptions, and validate data	Apply In-Built functions and Create User defined functions in PHP programming	Write PHP scripts to handle HTML forms
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Practical	P7307	Core Course	Web Applications Development using PHP& MYSQL Lab	Write, debug, and implement the Programs by applying concepts and error handling techniques of PHP	Create an interactive and dynamic website.	Create a website with reports generated from a database.	Create an interactive website for e-commerce sites like online shopping, etc.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	Internet of Things	Appreciate the technology for IoT	Understand various concepts, terminologies and architecture of IoT systems	Understand various applications of IoT	Learn how to use various sensors and actuators for design of IoT.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	Internet of Things Lab	Acquire the skills to design a small IoT device	Connect various sensors, actuators, etc to Arduino board.	Connect the things to Internet	Design a small mobile app to control the sensors.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Theory	7307	Core Course	Application Development using Python	Understand and appreciate the web architecture and services	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.	Demonstrate proficiency in handling Strings and File Systems	Demonstrate proficiency in handling Strings and File Systems

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Practical	P7307	Core Course	Application Development using Python Lab	Implement simple programs in Python	Implement programs related to various data structures like lists, dictionaries, etc.	Implement programs related to files	Implement applications related to databases, Web services and IOT
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	Data Science	Develop relevant programming abilities	Demonstrate proficiency with statistical analysis of data.	Develop the ability to build and assess data-based models.	Demonstrate skill in data management
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	Data Science Lab	Develop relevant programming abilities.	Demonstrate proficiency with statistical analysis of data	Develop the ability to build and assess data-based models	Demonstrate skill in data management
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Theory	7307	Core Course	Python for Data Science	Foundational Python for Data Science	Installing and Importing NumPy	Familiar with Popular Machine Learning Libraries	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Practical	P7307	Core Course	Python for Data Science Lab	Implement simple programs in Python	Implement programs related to various structures like arrays, lists, Data frames, etc	Implement programs related to files.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	1201-B	Core Course	SOAP Integration for SaaS	Understand the architecture of a WSDL document	Identify various elements in a SOAP message		Create SOAP based web services to integration

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	SOAP Integration for SaaS Lab	Handle security management and session management in SOAP calls	Use the SOAP services exposed by Salesforce.com for integration with on-premise clouds	Create SOAP based web services to integration	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Theory	7307	Core Course	REST Integration for SaaS	Understand the architecture of a WADL document	Understand different types of REST resources	Expose native methods as REST based web services to integration	Use the REST services exposed by Salesforce.com for integration with on-premise clouds
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Practical	P7307	Core Course	REST Integration for SaaS Lab	Understand the structure of a RESTful services and the differences between REST and SOAP calls	Understand the REST service bindings needed for integration	Understand the CORS framework	Create REST integrations classes.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	AWS Compute Services	Estimate various compute services offered by AWS	Understand the EC2 architecture	Comprehend the security schemes of AWS instances	Explain the load balancing and high-availability concepts
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	AWS Compute Services Lab	Create and configure an EC2 instance for different development environments based on need.	Creation of different EC2 instances – Amazon Machine Linux, Ubuntu Linux, Windows	Establishing connectivity to EC2 instances using CLI for Linux machines and RDC for Windows machines	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	I	I	Theory	1307	Core Course	Information Technology	Describe the fundamental hardware components that make up a computer's hardware and the role of each of these components	understand the difference between an operating system and an application program, and what each is used for in a computer	Use technology ethically, safely, securely, and legally	Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	I	I	Practical	P1307	Core Course	Information Technology Lab	Describe the fundamental hardware components that make up a computer's hardware and the role of each of these components	Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems	Apply standard statistical inference procedures to draw conclusions from data	Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	I	I	Theory	1201-A	Core Course	Fundamentals of Accounting	Identify transactions and events that need to be recorded in the books of accounts	Equip with the knowledge of the accounting process and preparation of final accounts of sole traders.	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	II	II	Theory	2307	Core Course	E-COMMERCE & WEB DESIGNING	Explain how to create an e-commerce website from scratch, using PHP and the Bootstrap framework	Display featured products correctly on a web page, using the bootstrap system.	Explain how product detail models are programmed to be dynamic.	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	II	II	Practical	P2307	Core Course	E-COMMERCE & WEB DESIGNING LAB	Explain how to create an e-commerce website from scratch, using PHP and the Bootstrap framework	Display featured products correctly on a web page, using the bootstrap system.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Core Course	Business Organization and Management	Understand different forms of business organizations.	Comprehend the nature of Joint Stock Company and formalities to promote a Company	Describe the Social Responsibility of Business towards the society	Critically examine the various organizations of the business firms and judge the best among them.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Theory	5307	Core Course	BIGDATA ANALYTICS USING R	Understand data and classification of digital data.	Organize data in the form of R objects and manipulate them as needed.	Perform analytics using R programming.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Core Course	Financial Accounting	Understand the concept of consignment and learn the accounting treatment of the various aspects of	Understand the Process of preparation of Bills of Exchanges and Accounting process followed for Bills of	Analyze the accounting process and preparation of accounts in joint ventures.	Determine the useful life and value of the depreciable assets and maintenance of Reserves in business
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Practical	P5307	Core Course	BIGDATA ANALYTICS USING R LAB	Understand data and classification of digital data.	Organize data in the form of R objects and manipulate them as needed.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Core Course	Business Economic	Describe the nature of economics in dealing with the issues of scarcity of resources.	Analyze supply and demand analysis and its impact on consumer behavior	Evaluate the factors,such as production and costs affecting firm's behaviour.	Recognize market failure and the role of the government in dealing with those failures.

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	DATA SCIENCE USING PYTHON	Understand basic concepts of data science	Use standard programming constructs like selection and repetition.	Understand why python is a useful scripting language for developers.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Core Course	Banking Theory and Practice	Understand the basic concepts of banks and functions of commercial banks.	Demonstrate an awareness of law and practice in a banking context.	Engage in critical analysis of the practice of banking law	Critically examine the current scenario of Indian Banking system.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	DATA SCIENCE USING PYTHON LAB	Understand basic concepts of data science	Use standard programming constructs like selection and repetition.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	I	I	Theory	1201-A	Core Course	FUNDAMENTALS OF ACCOUNTING	Describe various types of accounts.	Journalise the following transactions.	Prepare Trial Balances from the following particulars	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Theory	5307	Core Course	MOBILE APPLICATION DEVELOPMENT	Identify basic terms ,tools and software related to android systems	Describe components of IDE, understand features of android development tools	Developing interesting Android applications using MIT App Inventor	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	I	I	Theory	1201-B	Core Course	Business Organisation and Management				

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Practical	P5307	Core Course	MOBILE APPLICATION DEVELOPMENT LAB	Developing interesting Android applications using MIT App Inventor	Describe components of IDE, understand features of android development tools		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Core Course	FINANCIAL ACCOUNTING	Normal and Abnormal Loss			
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	CYBER SECURITY AND MALWARE ANALYSIS	Understand the computer networks, networking tools and cyber security	Understand the OWASP Vulnerabilities		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	CYBER SECURITY AND MALWARE ANALYSIS LAB	Understand the computer networks, networking tools and cyber security	Understand about Information Technology act 2000		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	I	I	Theory	1201-A	Skill Development Course	OFFICE SECRETARYSHIP	Understand the organizational hierarchy and outlines of functioning	Comprehend the role of office secretaryship in a small and medium organization	Acquire knowledge on office procedures and interpersonal skills	Apply the skills in preparing and presenting notes, letters, statements, reports in different situations.

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Theory	5307	Core Course	E– COMMERCE APPLICATION DEVELOPMENT	To apply in an integrative and summative fashion the students’ knowledge in all fields of business studies by drafting a website presence plan	To gain the skills to bring together knowledge gathered about the different components of building a web presence		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	I	I	Theory	1201-B	Skill Development Course	INSURANCE PROMOTION	Understand the field level structure and functioning of insurance sector and it’s role in protecting the risks	Comprehend pertaining skills and their application for promoting insurance coverage	Prepare better for the Insurance Agent examination conducted by IRDA	Plan ‘promoting insurance coverage practice’ as one of the career options.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Practical	P5307	Core Course	E– COMMERCE APPLICATION DEVELOPMENT LAB	To apply in an integrative and summative fashion the students’ knowledge in all fields of business studies by drafting a website presence plan.	To critically think about problems and issues that might pop up during the establishment of the web presence		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Skill Development Course	: ENTREPRENEURSHIP DEVELOPMENT	Understand the concept of Entrepreneurship, its applications and scope.	Know various types of financial institutions that help the business at Central, State and Local Level	Understand Central and State Government policies, Aware of various tax incentives, concessions	Applies the knowledge for generating a broad idea for a starting an enterprise/start up Applies the knowledge for generating a broad idea for a starting an enterprise/start up

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	REAL TIME GOVERNANCE SYSTEM (RTGS)	Understand the terms regarding Governance, E-Governance and RTGS	Understand the E-Governance implementation in several countries		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Skill Development Course	AGRICULTURAL MARKETING	Know the kinds of agricultural products and their movement	Understand the types, structure and functioning of agricultural marketing system	Comprehend related skills and apply them in sample situations	.Extend this knowledge and skills to their production/consumption environment
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	REAL TIME GOVERNANCE SYSTEM (RTGS) LAB	Understand the E-Governance implementation in several countries	Understand the E-Governance implementation in several Indian states		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Skill Development Course	BUSINESS COMMUNICATION	Understand the types of business communication and correspondence	Comprehend the processes like receiving, filing and replying	Acquire knowledge in preparing good business communication	Acquaint with organizational communication requirements and presentations.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Theory	5307	Core Course	MULTIMEDIA TOOLS AND APPLICATIONS	Gain knowledge on the concepts related to Multimedia.	Understand the different types of video signals and digital audio.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	V	Practical	P5307	Core Course	MULTIMEDIA TOOLS AND APPLICATIONS LAB	Understand the concepts like image data representation and colour modes.	Know about multimedia data compression types and audio compression standards		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Skill Development Course	ADVERTISING	Understand the field of Advertising	Comprehend opportunities and challenges in Advertising sector	Prepare a primary advertising model	Understand applying of related skills

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Theory	6307	Core Course	DIGITAL IMAGING	Gain knowledge about Types of Graphics, Types of Objects and Types of video editing tools	Show their skills in editing and altering photographs for through a basic understanding of the tool box.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	II	II	Theory		Skill Development Course	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	Summarize relationship between marketing and Logistic Management	Understand the concepts of Supply Chain Management in connection with products.	Understanding various types of seller and suppliers	Evaluate best logistic method among all means of transport operations
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VI	Practical	P6307	Core Course	DIGITAL IMAGING LAB	Gain knowledge about Types of Graphics, Types of Objects and Types of video editing tools	Gain knowledge in using the selection tools, repair tools.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	I	I	Theory	1203-A	Skill Development Course	Insurance Promotio	Travel Insurance	Health Insurance	Features of Insurance	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VI	Theory		Core Course	ADVANCED CORPORATE ACCOUNTING	. Understand Corporate Accounting environment	. Record Transactions related to Purchase of Business, Amalgamation and Reconstruction	Analyze the situations of Purchase of Business and Liquidation	. Create formulas and calculations relating to Amalgamation, Internal Reconstruction and Holding company accounts
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	SOFTWARE SOLUTIONS TO ACCOUNTING	Understand the technical environment of accounting softwares.	Highlight the major accounting softwares in India.	Apply basics of accounting softwares into business firms for accounting transactions	Understand the various versions of Tally and other softwares.

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	MANAGEMENT ACCOUNTING AND PRACTICE	Understand the nature and scope of management accounting and differentiate management accounting, financial accounting and cost accounting.	Compute ratios and draw inferences	Analyze the performance of the organization by preparing funds flow statement and cash flow statements	Prepare cash budget, fixed budget and flexible budget
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	COST CONTROL TECHNIQUES	. Differentiate cost control, cost reduction concepts and identify effective techniques	Allocate overheads on the basis of Activity Based Costing.	Evaluate techniques of cost audit and rules for cost record.	Appraise the application of marginal costing techniques to evaluate performances, fix selling price, make or buy decisions
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	STOCK MARKETS	Expose to theory and functions of the Share Market in Financial Sector as job careers	Study the functioning of capital markets and create awareness among the public	Acquire knowledge on operations of Share Market and Research skills	Enhance their skills by practicing in preparation of accounting statements
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	STOCK MARKETS ANALYSIS	Expose to theory and functions of the monetary and Financial Sector as job careers	Study the functioning of local Capital markets	. Create awareness among the public by giving reporting after analysis	Acquire knowledge on operations of Share Market and Research skills
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VIII	Theory		Core Course	ADVERTISING AND MEDIA PLANNING	Understand the role of advertising in business environment	Understand the legal and ethical issues in advertising	Acquire skills in creating and developing advertisements	Understand up-to-date advances in the current media industry

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VIII	Theory		Core Course	SALES PROMOTION AND PRACTICE	Analyse various sales promotion activities	Get exposed to new trends in sales Promotion	Understand the concepts of creativity in sales promotion	Develop the skills of designing of sales promotion events
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VIII	Theory		Core Course	LOGISTICS SERVICES & PRACTICE	Appraise the Principles of Logistics and its informatics.	Examine the Financial Issues in Logistics sector performance.	Describe basic EOQ model and ABC analysis	Determine warehouse safety rules, concepts of Retail Logistics and strategies of Supply Chain Management
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	LIFE INSURANCE WITH PRACTICE	Understand the Features of Life Insurance , schemes and policies and insurance companies in India	Analyze various schemes and policies related to Life Insurance sector	Choose suitable insurance policy for given situation and respective persons	Acquire Insurance Agency skills and other administrative skills
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VIII	Theory		Core Course	GENERAL INSURANCE PROCEDURE AND PRACTICE	. Understand the Features of General Insurance and Insurance Companies in India	Analyze various schemes and policies related to General Insurance sector	Choose suitable insurance policy under Health, Fire, Motor, and Marine Insurances	Acquire General Insurance Agency skills and administrative skills
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	DIGITAL MARKETING	Analyze online Micro and Macro Environment	Design and create website	Discuss search engine marketing	Create blogs, videos, and share
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VIII	Theory		Core Course	SERVICE MARKETING	Discuss the reasons for growth of service sector.	Examine the marketing strategies of Banking Services, insurance and education services	Review conflict handling and customer Responses in services marketing	Describe segmentation strategies in service marketing.

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	INCOME TAX ASSESSMENT PROCEDURES AND PRACTICE	Understand the basic concepts in computation of tax liability under all heads of income of the individuals	Analyze the clubbing provisions, aggregate income after set-off and carry forward of losses under the Income Tax Act.	Compute taxable income and tax liability of individuals and firms	Acquire the ability to file online returns of income
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	GOODS AND SERVICES TAX WITH TALLY	Understand the concept of Liability and Payment of GST	Create a new company in Tally with GST components and establish environment for GST Voucher entry.	Comprehend the utilization of input tax credit, and the reverse charge mechanism in GST	Acquire Skills of preparation of GST Returns in accordance with GST Law and Tally
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VII	Theory		Core Course	E-COMMERCE	Understand the mechanism of ecommerce	. Equip specialization in website designing for e commerce	Enhance their skills in operational services of e commerce	Involve in activities of e commerce
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Commerce	New Course	V	VIII	Theory		Core Course	e-FILING	Understand and apply basic knowledge of Indian Tax System	Equip specialization in taxation system	file returns of Income Tax and GST	Enhance their skills in presenting returns
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	I	I	Theory	1307	Core Course	Basics of Cloud Computing	Get acquainted with the term Cloud computing	Understand various types of free and commercial clouds	Understands various types of cloud services like SaaS, PaaS and IaaS	Know how the Cloud Computing is changing software industry.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	I	I	Practical	P1307	Core Course	Basics of Cloud Computing Lab	Know how the Cloud Computing is changing software industry	Lightning Web Components		

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	II	II	Theory	2307	Core Course	Cloud Computing Services	exploring SaaS, PaaS, and IaaS in Cloud Computing	Sales Cloud, Service Cloud, Marketing Cloud, Analytics Cloud		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	II	II	Practical	P2307	Core Course	Developer Editions in Salesforce Lab	Develop personalized commerce experiences on a fast, flexible platform.	Extend service solutions and deliver custom service experiences		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VI	Theory	6311	Skill Enhancement Course	Techniques in Nursery Development	Understand different types of nurseries	Identify various facilities required to set up of a nursery	Understood expertise related to various practices in a nursery	Acquire skills to get an employment or to become an entrepreneur.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VI	Practical	P6311	Skill Enhancement Course	Techniques in Nursery Development Lab	List out different types of nurseries and beds	Identify the nursery tools, implements and containers.	Develop skill on potting media preparation and plant production	Learn the technique of establishing cutting, layering, grafting etc
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	English	New Course	I	I	Theory	1001	Core Course	English Praxis Course-I	Use grammar effectively in writing and speaking	· · Demonstrate the use of good vocabulary	Demonstrate an understating of writing skills	Acquire ability to use Soft Skills in professional and daily life
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	V	VI	Theory		Core Course	SUSTAINABLE AQUACULTURE MANAGEMENT	Evaluate the present status of aquaculture at the Global level and National level	Classify different types of ponds used in aquaculture	Demonstrate induced breeding of carps	Identify fin and shell fish diseases

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Theory	6310	Core Course	LIVE STOCK MANAGEMENT-I (BIOLOGY OF DAIRY ANIMALS)	☐ Students at the successful completion of the course will be able to	☐ Select the suitable breeds of livestock for rearing	☐ Relate the anatomy of udder with letdown of milk	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Practical	P6310	Core Course	LIVE STOCK MANAGEMENT-I-PRACTICAL SYLLABUS LAB	Examine the points of dairy cow	Understand the behavioral changes of cow during the reproductive period	Differentiate the merits and demerits of cross breeds in cattle	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Theory	7310	Core Course	LIVE STOCK MANAGEMENT –II (DAIRY PRODUCTION AND MANAGEMENT)	☐ Identify and suggest the suitable housing system for the dairy farming	☐ Understand management practices for the dairy farming	☐ Learn the process of milk pasteurization	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Practical	P7310	Core Course	: LIVE STOCK MANAGEMENT -II	: LIVE STOCK MANAGEMENT -II	☐ Understand procedure of milk pasteurization at milk processing centers	☐ Identify various important management practices in dairy farming	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Theory	7307	Skill Enhancement Course	Hydroponics cultivation	Understand the concept of hydroponics	Acquire the knowledge on soilless cultivation system	Prepare media for hydroponics cultivation	Learn the hydroponic cultivation technique
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Theory	6310	Core Course	POULTRY MANAGEMENT-I (POULTRY FARMING)	☐ Explain the Scientific Poultry keeping	☐ Compare the diversified Poultry practices	☐ Inspect the different breeds of chicken	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VII	Practical	P7311	Skill Enhancement Course	Hydroponics cultivation Lab	List out macronutrients, micronutrients- functions and effect on plants, deficiency symptoms	Demonstrate the importance of temperature and light in hydroponics	Develop skill of media production for Hydroponics cultivation	Equip with the skill of weed management, diseases and pest management

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Practical	P6310	Core Course	POULTRY MANAGEMENT-I (POULTRY FARMING)	☐ Identify different types of Poultry rearing practices	☐ Evaluate the efficacy of different types of poultry practices in maximizing yield	☐ Understand the importance of different hybrid breeds in poultry	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Computer Science	New Course	V	VII	Theory	7307	Skill Enhancement Course	Organic Farming	Understand the soil profile and nutrients in soil	Appreciate the importance of organic manure and biofertilizers	Produce vermi compost, farmyard manure from biowaste	Acquire skill on isolation and maintenance of biofertilizers
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Theory	7310	Core Course	POULTRY MANAGEMENT –II (POULTRY PRODUCTION AND MANAGEMENT)	Suggest measure for Health care in Poultry	Evaluate the economics of poultry production	Elaborate the poultry Breeder flock management	Differentiate the poultry hatchery practices
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Practical	P7310	Core Course	POULTRY MANAGEMENT –II	☐ Identify Poultry diseases by observation	☐ Analyze Poultry establishment feasibility	☐ Understand the Poultry Records	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VII	Practical	P7311	Skill Enhancement Course	Organic Farming Lab	Estimate NPK levels in the soil	Demonstrate the collection and processing of raw material	Develop skill of vermi compost production	Learn the technique of establishing organic farms
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VII	Theory	7311	Skill Enhancement Course	Bio fertilizers and Bio pesticides production	Understand the importance of bio fertilizers for sustainable agriculture	Appreciate the role of VAM in P solubilisation	Define bio pesticide and its nature	Produce bio fertilizers and bio pesticides on large scale
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Theory	1310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF NONCHORDATES	To understand the importance of preservation of museum specimens	To identify animals based on special identifying characters	To understand different organ systems through demo or virtual dissections	To maintain a neat, labeled record of identified museum specimens

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VII	Practical	P7311	Skill Enhancement Course	Bio fertilizers and Bio pesticides Production Lab	Prepare bacterial and fungal media	Isolate and identify symbiotic and free living nitrogen fixing bacteria	.Isolate fungal bio control agents from soil samples	Develop skill for large scale production of microorganisms
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	II	Theory	2310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF CHORDATES	Thermocol or Clay models of Herdmania and Amphioxus	Preparation of slides of scales of fishes	Maintaining of aquarium by students	Taxidermic preparation of dead birds for Zoology museum
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VI	Theory	6311	Skill Enhancement Course	Apiculture	Understand the basic concepts of Apiculture.	Obtain the elementary knowledge of different species and races of honeybees	Appreciate the importance of health and hygiene in Beekeeping	Maintain the Bee hives in a scientific way
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VI	Practical	P6311	Skill Enhancement Course	Apiculture Lab	.Maintain the Bee hives in a scientific way	Clean & Maintain Bee Boxes	Use of other tools required in Bee Keeping	.Building and division of colony
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Practical	P1310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF NONCHORDATES LAB	To understand the importance of preservation of museum specimens	To maintain a neat, labeled record of identified museum specimens	To identify animals based on special identifying characters	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VII	Theory	7311	Skill Enhancement Course	Pearl Culture	Understand the basic concept of pearl culture.	Obtain the elementary knowledge regarding the Anatomical and Physiological aspects of fresh water oysters	Acquaint with the various types of implantation methods and pearl culture surgery techniques	Acquire skill on production of pearl and its marketing for economic gain

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	II	Theory	2310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF CHORDATES	Maintaining of aquarium by students	Preparation of slides of scales of fishes	Chart preparation for dentition in mammals	Taxidermic preparation of dead birds for Zoology museum
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Biotechnology	New Course	V	VII	Practical	P7311	Skill Enhancement Course	Pearl Culture Lab	Execute pre- pearl cultureactivities	Learn the technique of surgicaloperation	Develop skill of Post operationactivities	Implement cultureactivities
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	II	II	Theory	2310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF CHORDATES LAB	To understand the taxidermic and other methods of preservation of chordates	To identify chordates based on special identifying characters	To maintain a neat, labeled record of identified museum specimens	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	III	III	Theory	3310	Core Course	CELL BIOLOGY, GENETICS, MOLECULAR BIOLOGY AND EVOLUTION	Definition, history, prokaryotic and eukaryotic cells, virus, viroids, mycoplasma	Electron microscopic structure of animal cell.	Plasma membrane –Models and transport functions of plasma membrane	4Structure and functions of Golgi complex, Endoplasmic Reticulum and Lysosomes
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	IV	IV	Theory	4310	Core Course	ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY	Working model of human / any mammalian heart.	Chart of sarcomere/location of endocrine glands in human body	Model of electron transport chain	Preparation of models of different types of eggs in animals

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	IV	V	Theory	5310	Core Course	IMMUNOLOGY & ANIMAL BIOTECHNOLOGY	Charts on types of cells and organs of immune system	Organizing awareness on immunization importance in local village in association with NCC and NSS teams	Visit to research laboratory in any University as part of Zoological tour and exposure and/ or hands-on training on animal cell culture.	Student study projects on aspects such as – identification of allergies among students (hypersensitivity), blood groups in the class (antigens and antibodies duly reported) etc., as per the creativity and vision of the lecturer and students
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	I	Theory	1310	Skill Enhancement Course	BSUSTAINABLE AQUACULTURE MANAGEMENT	Evaluate the present status of aquaculture at the Global level and National level	Classify different types of ponds used in aquaculture	Demonstrate induced breeding of carps	Acquire critical knowledge on commercial importance of shrimps
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Practical	P6310	Skill Enhancement Course	SUSTAINABLE AQUACULTURE MANAGEMENT PRACTICAL	Identify the characters of Fresh water cultivable species	Estimate physico chemical characteristics of water used for aquaculture	Examine the diseases of fin and shell fish	Suggest measures to prevent diseases in aquaculture
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Theory	7310	Skill Enhancement Course	POSTHARVEST TECHNOLOGY OF FISH AND FISHERIES	Identify the types of preservation methods employed in aquaculture	Choose the suitable Processing methods in aquaculture	Maintain the standard quality control protocols laid down in aqua industry	Identify the best Seafood quality assurance system
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Practical	P7310	Skill Enhancement Course	POSTHARVEST TECHNOLOGY OF FISH AND FISHERIES PRACTICAL	Identify the quality of aqua processed products.	Determine the quality of fishery by products by observation	Analyze the protocols of aqua processing methods	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Theory	6310	Skill Enhance ment Course	LIVE STOCK MANAGEMENT-I (BIOLOGY OF DAIRY ANIMALS)	Students at the successful completion of the course will be able to	Select the suitable breeds of livestock for rearing	Relate the anatomy of udder with letdown of milk	Identify and manipulate the reproductive behavior of cattle
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Practica l	P6310	Skill Enhance ment Course	LIVE STOCK MANAGEMENT-I-PRACTICAL	Examine the points of dairy cow	Understand the behavioral changes of cow during the reproductive period	Differentiate the merits and demerits of cross breeds in cattle	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Theory	7310	Skill Enhance ment Course	LIVE STOCK MANAGEMENT –II (DAIRY PRODUCTION AND MANAGEMENT)	Identify and suggest the suitable housing system for the dairy farming	Understand management practices for the dairy farming	Learn the process of milk pasteurization	Prepare cream from milk
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Practica l	P7310	Skill Enhance ment Course	LIVE STOCK MANAGEMENT -II – PRACTICAL	Design a model dairy farm layout	Understand procedure of milk pasteurization at milk processing centers	Identify various important management practices in dairy farming	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Theory	6310	Skill Enhance ment Course	POULTRY MANAGEMENT-I (POULTRY FARMING)	Evaluate the status of Indian Poultry Industry	Explain the Scientific Poultry keeping	Compare the diversified Poultry practices	Inspect the different breeds of chicken
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VI	Practica l	P6310	Skill Enhance ment Course	POULTRY MANAGEMENT-I (POULTRY FARMING) PRACTICAL	Identify different types of Poultry rearing practices	Evaluate the efficacy of different types of poultry practices in maximizing yield	Understand the importance of different hybrid breeds in poultry	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Theory	7310	Skill Enhance ment Course	POULTRY MANAGEMENT –II (POULTRY PRODUCTION AND MANAGEMENT)	Suggest measure for Health care in Poultry	Evaluate the economics of poultry production	Elaborate the poultry Breeder flock management	Differentiate the poultry hatchery practices

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	VII	Practical	P7310	Skill Enhancement Course	POULTRY MANAGEMENT –II- PRACTICAL (POULTRY PRODUCTION AND MANAGEMENT)	Identify Poultry diseases by observation	Analyze Poultry establishment feasibility	Understand the Poultry Records	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Theory	1310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF NONCHORDATES	Live model of water vascular system	Phylogeny chart on echinoderm larvae and their evolutionary significance	Clay models of canal system in sponges	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	II	II	Theory	2310	Core Course	ANIMAL DIVERSITY – BIOLOGY OF CHORDATES				
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	III	III	Theory	3310	Core Course	CELL BIOLOGY, GENETICS, MOLECULAR BIOLOGY AND EVOLUTION	Model of semi-conservative model of DNA replication	Model of animal cell	Model of tRNA and translation mechanism	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	IV	IV	Theory	4310	Core Course	ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY	Respiration - Pulmonary ventilation, transport of oxygen and CO2	Nerve impulse transmission	Working model of human / any mammalian heart.	Gametogenesis
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	V	V	Theory	5310	Core Course	IMMUNOLOGY & ANIMAL BIOTECHNOLOGY	Organs of immune system	Antibodies: Structure of antibody, Classes and functions of antibodies	DNA Sequencing: Sanger's method of DNA sequencing-traditional and automated sequencing	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Theory	1310	Certificate Course	Certificate course in Vermicomposting	To inculcate concepts of biofertilizers like vermicomposting.	To understand techniques in Vermicomposting.	To increase employability of the students.	To improve the soil quality by promoting the biofertilizers.

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Practical	P1310	Certificate Course	Certificate course in biofertilizers: Vermicomposting Practical	Scientific classification of Earthworm	Establishment of vermicomposting unit Pit		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Theory	1310	Certificate Course	ORNAMENTAL FISH FARMING	To inculcate importance of ornamental fish farming in relation with entrepreneurship development.	To give students knowledge about various techniques of ornamental fish breeding, rearing and its marketing to make them self sustainable aftergraduation.	To teach techniques of construction of glass aquarium and its maintenance.	To teach students about fish food production and health related problems with ornamental fish.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Zoology	New Course	I	I	Practical	P1310	Certificate Course	ORNAMENTAL FISH FARMING- Practical	Preparation of ornamental fish feed.	Identification of aquarium plants		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	I	I	Theory	1313	Core Course	Basic concepts of Horticulture and Soil Science	Scope for horticulture in India.	Global scenario of horticultural crops- horticultural therapy	Minerals and Weathering to Form Soils; Factors of Soil Formation.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	I	I	Theory	1313	Core Course	Basic concepts of Horticulture and Soil Science Practical	Identification and management of nutritional disorders in vegetables.	Preparation of nursery beds for sowing of vegetable seeds.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	II	II	Practical	2313	Core Course	Plant propagation methods and nursery management	Ecological and economic factors.	Factors affecting seed germination	Nursery structures - Potting, repotting; Different nursery techniques and their management.	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	II	II	Practical	2313	Core Course	Plant propagation methods and nursery management Practicals	Seed treatments for breaking dormancy.	Preparation of plant growth regulators for seed germination and vegetative propagation.		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	V	VI	Theory	6313	Skill Enhancement Course	Ornamental Horticulture	Acquire a critical knowledge of ornamental gardening and its significance.	Identify and explain living and non-living components in an ornamental garden.	Acquire skills on propagation and planting of various ornamental plants.	Perform managerial skills related to ornamental gardening.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	V	VI	Practical	P6313	Skill Enhancement Course	Ornamental Horticulture – Practical	Identify various components required for ornamental garden development.	Perform various skills related to establishment and maintenance of an ornamental garden.	Demonstrate skills of making developing a lawn and bonsai.	Make landscape design using CAD.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	V	VII	Theory	7313	Skill Enhancement Course	Commercial Floriculture	Understand the significance of flowers in human life.	Acquire skills related to production techniques in floriculture.	Explain the breeding techniques of some flowering plants.	Demonstrate skills of protected cultivation in floriculture.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Horticulture	New Course	V	VI	Theory	6313	Skill Enhancement Course	Commercial Floriculture – Practical	Identify different flowering plants of commercial value.	Perform skills in propagation of flowering plants.	Demonstrate skills of post-harvest handling of flowers.	Perform skills of floral arrangements or making floral products.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VI	Theory	6305	Skill Enhancement Course	Industrial Electronics	block diagram of regulated power supply.	working of SCR Parallel inverter with a circuit.	principle and working of Switch Mode Power Supply.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VI	Practical	P6305	Skill Enhancement Course	ELECTRONICS: LAB (Industrial Electronics)	D.C Power supply and filters.	Voltage Tripler using diodes	SCR Series inverter	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VII	Theory	7305	Skill Enhance ment Course	Electronic Instrumentation	Analog instruments & Digital Instruments,	Classification of transducers,	operating principles of Clinical thermometer (Analog and Digital)	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VII	Practica l	P7305	Skill Enhance ment Course	Electronic Instrumentation– PRACTICAL	Familiarization of digital multimeter	operation of a Digital Pulse oxymeter	Measurement of body temperature using a digital thermometer	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VI	Theory	6305	Skill Enhance ment Course	Embedded systems design	Processor Technology, IC Technology, and Design Technology.	Basic Architecture, Operation, Programmer’s View,	Parallel Communication, Serial Communication, Wireless Communication,	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VII	Theory	7305	Skill Enhance ment Course	Consumer Electronics	Microwave oven block diagram	Electronic controller for washing machines	Fascimile machine, Xerographic copier	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VII	Practica l	P7305	Skill Enhance ment Course	CONSUMER ELECTRONICS LAB	Study of PA systems	Installation of Audio/Video systems	Identification of block and tracing the system.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VI	Theory	6305	Skill Enhance ment Course	VLSI DESIGN	Classification’s, and Advantages of IC’s	Complex logic gates	Logical, Relational, Arithmetic, Shift and Rotate Operators,	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VI	Practica l	P6305	Skill Enhance ment Course	VHDL / Verilog HDL LAB	BASIC GATES	HALF –ADDER, FULL –ADDER	MAGNITUDE COMPARATOR	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VII	Theory	7305	Skill Enhance ment Course	DATA COMMUNICATI ON AND NETWORKING	Types of Networks:	Network Topologies	Transmission Media	Time Division Multiplexing

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Electronics	New Course	V	VII	Practical	P7305	Skill Enhancement Course	DATA COMMUNICATION AND NETWORKING LAB	SERIAL INTERFACE USING RS-232.	TYPES OF TRANSMISSION MEDIA.	CONFIGURE OF HUB/SWITCH	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	II	II	Theory	2301	Core Course	SOLID GEOMETRY	Bisectors of angles	cone; vertex; guiding curve;	Enveloping cylinder of a sphere;	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	IV	IV	Theory	4301	Core Course	PAPER-V- LINEAR ALGEBRA	Algebra of subspaces,	Elementary Properties of Matrices	Characteristic Values & Vectors of square matrix	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	III	III	Theory	3301	Core Course	ABSTRACT ALGEBRA	Binary Operation	Cosets–Index of subgroups	proper and improper normal subgroup	Image of homomorphism-
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	IV	IV	Theory	4301	Core Course	REAL ANALYSIS	Absolute value and Real line,	Cauchy's general principle of convergence	Real valued Functions,	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	I	I	Theory	1301	Core Course	DIFFERENTIAL EQUATIONS	Linear Differential Equations	Equations solvable for p	Solution of homogeneous linear differential equations	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	I	I	Theory	1102	Core Course	Micro Economics – Consumer Behaviour	partial and general equilibrium analysis	Law of Demand	Douglas Production Function	ivmarginal Productivity Theory of Distribution
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	II	II	Theory	2102	Core Course	Macro Economics Analysis	Difference between Micro economic and Macro economic Analyses	Say's Law of Markets	RBI classification of Money	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VI	Theory	6102	Core Course	Rural Entrepreneurship	Theories of Entrepreneurship	Rural Entrepreneurial Ecosystem	Financing the Rural Entrepreneurship	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VII	Theory	7102	Core Course	Farmer Producer Organizations (FPOs)	Types of FPOs	Rules and Regulation related to FPOs	Economic Activities undertaken by FPO	Special Roles of NABARD and SFAC

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VII	Theory	7102	Core Course	Urban Entrepreneurship and MSMEs	Theories of Entrepreneurship	Factors, Problems and Challenges of Urban Entrepreneurships	Cluster Development Approach and Leveraging Technology for MSMEs	Government Schemes for promotion of Urban Entrepreneurship and MSMEs
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VII	Theory	7102	Core Course	Retail Marketing Management	Type of Markets	Product Decision and Strategies	Big and Small Retail Markets	Digital Marketing and Telemarketing
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VI	Theory	6102	Core Course	Insurance Services	Risk Classification	Major General Insurance Companies in India	Insurance Contract and Terms of Insurance Policy	Registration of Insurance Agency with the Company
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VII	Theory	7102	Core Course	Banking and Financial Services	Principles of Banking	Bank Deposit Account Types	Activities of Banking Correspondent	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Economics	New Course	V	VI	Theory	6102	Core Course	Intermediate Statistics and Software Packages	Definitions of Probability	Binomial Distribution	Four Variable Linear Multiple Regression Model	Entering data in Worksheets
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Psychology	New Course	V	VI	Theory	6105	Core Course	Abnormal Psychology	Introduce students to the concepts, theories, and research which define this discipline of Abnormal Psychology.	Develop proficiency in critical thinking and critical analysis	Develop a propensity for self-determined learning.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Psychology	New Course	V	VII	Theory	7105	Core Course	Child & Adolescent Psychology -I	understand the discipline of child psychology as an area of study	understand how theories try to explain children's development	discuss important questions that are central to child psychology	understand how child psychologists work in different applied settings
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Psychology	New Course	I	I	Theory	1105	Core Course	Introduction to Psychology	Evolution of psychology and the major pioneers in the field	value of psychology and possible careers paths for those who study psychology	consciousness and biological rhythms	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Psychology	New Course	II	II	Theory	2105	Core Course	General Phycology	Researching mental health to help enhance wellbeing	To describe, explain, predict, and change or control the mind and behaviour of others.	Develop domain-specific knowledge	Understand the people around you
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Psychology	New Course	I	I	Practical	P1105	Core Course	Introduction to Phycology Lab	Describe the evolution of psychology and the major pioneers in the field	apply the scientific method to psychology	Describe consciousness and biological rhythms	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Psychology	New Course	II	II	Practical	P2105	Core Course	General Psychology	scientific method to psychology	Differentiate between sensation and perception	Describe and differentiate between personality theories	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	Revised Course	I	I	Theory	1309	Core Course	Fundamentals of Microbes and Non-vascular Plants	origin of life on the earth.	Illustrate diversity among the viruses and prokaryotic organisms and can categorize them.	ecological and economic value of microbes,	plant disease symptoms due to viruses, bacteria and fungi.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	Revised Course	II	II	Theory	2309	Core Course	Basics of Vascular plants and Phytogeography	techniques of section cutting, preparing slides,	Compare and contrast the morphological, anatomical and reproductive features of vascular plants.	Exhibit skills of preparing slides, identifying the given twigs in the lab and drawing figures of plant twigs,	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	Revised Course	I	I	Practical	P1309	Core Course	Fundamentals of Microbes and Non-vascular Plants Lab	the techniques of inoculation, preparation of media	the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears.	the techniques of inoculation, preparation of media	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	Revised Course	II	II	Practical	P2309	Core Course	Basics of Vascular plants and Phytogeography Lab	skills of preparing slides, identifying the given twigs in the lab	techniques of section cutting, preparing slides, identifying of the material and drawing exact figures.	preserve specimens of local wild plants	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	New Course	V	VI	Theory	6309	Skill Enhancement Course	Plant Tissue Culture	Comprehend the basic knowledge and applications of plant tissue culture.	Acquire a critical knowledge on sterilization techniques related to plant tissue culture.	Demonstrate skills of callus culture through hands on experience.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	New Course	V	VI	Practical	P6309	Skill Enhancement Course	Plant Tissue Culture – Practical	identify and handle various equipment in plant tissue culture lab.	techniques related to plant transformation for secondary Metabolite production.	skills on inoculation, establishing callus culture and Micro propagation.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	New Course	V	VII	Theory	7309	Skill Enhancement Course	Mushroom Cultivation	the structure and life of a mushroom	basic infrastructure to establish a mushroom culture unit.	skills preparation of compost and spawn.	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Botany	New Course	V	VII	Practical	P7309	Skill Enhancement Course	Mushroom Cultivation – Practical	different mushrooms based on morphology.	facilities required for mushroom cultivation.	various cultivation practices for an edible mushroom.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Theory	6304	Skill Enhancement Course	Synthetic Organic Chemistry	importance of reagents used in the synthesis of organic compounds.	Acquire knowledge on basic concepts indifferent types of pericyclic reactions.	Understand the importance of retro synthesis in organic chemistry.	Comprehend the applications of different reactions in synthetic organic chemistry.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Practical	P6304	Skill Enhancement Course	Synthetic Organic Chemistry- PRACTICAL	the organic qualitative analysis for the detection of N, S and halogens using the green procedure.	the TLC plates for TLC chromatography.	skills in conducting column chromatography for the separation of dyes in the given mixture.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Theory	7304	Skill Enhancement Course	Analysis of Organic Compounds	the importance of mass spectrometry in the structural elucidation of organic compounds.	the knowledge on structural elucidation of organic compounds. 3. Understand various chromatography methods in the separation and	the knowledge gained in solvent extraction for the separate the organic compounds.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Practical	P7304	Skill Enhancement Course	Analysis of Organic Compounds - PRACTICAL	Prepare acetanilide using the green synthesis.	2. Demonstrate the preparation of an azo dye.	Acquire skills in the separation of organic compounds in the given mixture using solvent extraction	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Theory	6304	Skill Enhancement Course	Analytical Methods in Chemistry-I	importance of solvent extraction and ion exchange method.	usage of common laboratory apparatus used in quantitative analysis.	theories of different types of titrations.	knowledge on different types of errors and their minimization methods

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Practical	P6304	Skill Enhancement Course	Analytical methods in chemistry-1-PRACTICAL	Iron(II) using standard Potassium dichromate solution	the procedure for the estimation of total hardness of water	determination of chloride using Mohr's method	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Theory	7304	Skill Enhancement Course	Analytical Methods in Chemistry-2	importance of chromatography	chromatographic techniques.	analysis of water using different techniques.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Practical	P7304	Skill Enhancement Course	Analytical Methods in Chemistry-2-PRACTICAL	the separation of a given dye mixture using TLC	TLC plates	separation of mixture of amino acids using paper chromatography	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Theory	6304	Skill Enhancement Course	Industrial Chemistry-1	importance of different surface coatings.	critical knowledge on manufacture of ceramics and cement.	various steps in the manufacture of cane	manufacture of pulp and paper.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Practical	P6304	Skill Enhancement Course	Industrial Chemistry-1-PRACTICAL	free acidity in ammonium sulphate fertilizer.	procedure for the Estimation of Calcium in Calcium ammonium nitrate fertilizer.	Estimation of phosphoric acid in superphosphate fertilizer.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Theory	7304	Skill Enhancement Course	Industrial Chemistry-2	importance of industrial waste management.	critical knowledge on the preparation and applications of organic polymers.	analysis of water quality parameters.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Practical	P7304	Skill Enhancement Course	Industrial Chemistry-2-PRACTICAL	procedures for the determination of BOD and COD.	skills in the determination of chloride in the given water sample.	skills in determining the hardness of water.	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Theory	6304	Skill Enhance ment Course	Environmental Chemistry	the environment functions and how it is affected by human activities.	chemical knowledge to ensure sustainable use of the worlds resources and ecosystems services.	simple and advanced analytical tools used to measure the different types of pollution.	energy crisis and different aspects of sustainability.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Practica l	P6304	Skill Enhance ment Course	Environmental Chemistry – Practical	identify and handle various equipment in Chemistry lab.	the procedures of preparation of standard solutions.	skills in operating instruments.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Theory	7304	Skill Enhance ment Course	Green Chemistry and Nanotechnology	importance of Green chemistry and Green synthesis.	Microwave assisted organic synthesis.	alternative green solvents in synthesis.	enzymatic catalysis.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Practica l	P7304	Skill Enhance ment Course	Green Chemistry and Nanotechnology Lab	the importance of Green chemistry and Green synthesis.	Microwave assisted organic synthesis.	skills using the alternative green solvents in synthesis.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Theory	6304	Skill Enhance ment Course	Analytical Methods in Chemistry	Chromatographic techniques through hands on experience.	to engage in safe and accurate laboratory practices by handling laboratory glassware,	the applications of Chromatographic techniques in different fields.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VI	Practica l	P6304	Skill Enhance ment Course	Analytical Methods in Chemistry Lab	identify and handle various equipment in Analytical Chemistry lab.	the procedures of preparation of primary and secondary standard solutions.	skills in the preparation of Paper, Thin layer and column Chromatography.	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Theory	7304	Skill Enhance ment Course	Cosmetics and Pharmaceutical Chemistry	principles of formulation and application of Cosmetics & perfumes.	critical knowledge on synthetic techniques of drugs.	skills in various aspects of the fermentation technology and apply for production.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	V	VII	Practica l	P7304	Skill Enhance ment Course	Cosmetics and Pharmaceutical Chemistry Lab	principles of formulation and application of Cosmetics & perfumes.	critical knowledge on synthetic techniques of drugs.	skills in various aspects of the fermentation technology and apply for production.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	I	I	Theory	1304	Core Course	Inorganic & Physical Chemistry	basic concepts of p-block elements	difference between solid ,liquid and gases in terms of intermolecular interactions.	Applytheconceptsof gasequations	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	I	I	Practica l	P1304	Core Course	Analysis of salt mixture Practical-I	basic concepts of qualitative analysis of inorganic mixture	experimental procedures in the laboratory	concepts of common ion effect, solubility product and concepts related to qualitative analysis	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	New Course	II	II	Theory	2304	Core Course	Organic & General Chemistry	basic concepts of electronic displacements.	preparation methods relative stability and energy diagrams of cyclo Alkanes.	organic reaction mechanisms including free radical Substitution,	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Chemistry	Revised Course	II	II	Practica l	P2304	Core Course	Volumetric Analysis Practical-II	glassware, equipment and chemicals properlyand follow experimental procedures in thelaboratory	volumetricanalysisba sedonfundamentalco ncepts learnt in ionic equilibria	concepts of a standard solutions, primary and secondary standards	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Geology	Revised Course	III	III	Theory	3308	Core Course	Indian Geology and Paleontology	Origin, evolution and phylum wise development of organism	Fossil as a tool to complement Stratigraphy	Describe and identify fossils based on their morphology	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Geology	Revised Course	IV	IV	Theory	4308	Core Course	Economic Geology and Mineral Exploration	new ore deposits for excavation as well as understanding	ore deposits are generated and localized within Earth's crust.	acquire a maximum number of such economic mineral deposits at a minimum cost	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Geology	Revised Course	IV	V	Theory	5308	Core Course	Mining Geology and Ore Dressing	provides creation of infrastructure facilities	mining methods	entry system to the mine,	designs of mineral processing roots
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	I	I	Theory	1002	Core Course	ప్రాచీన తెలుగు కవిత్వం	Telugu poetry develops character traits	literary taste.By studying		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	II	II	Theory	2002	Core Course	ఆధునిక తెలుగు సాహిత్యం	ప్రాచీన సాహిత్యము	ప్రాచీన తెలుగు సాహిత్యం యొక్క ప్రాచీనతను,విశిష్టతను గుర్తిస్తారు		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	III	III	Theory	3002	Core Course	సృజనాత్మక రచన	సృజనాత్మక రచనా సామర్థ్యాల వైపు అభివృద్ధి చేస్తుంది	సృజనాత్మక రచన మరియు సాహిత్య అభిరుచిని పెంపొందించే సామర్థ్యాన్న0		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	I	I	Theory	1002	Languages	ప్రాచీన కవితా పరిచయం	వచన భాగం	ఆధునిక కవిత్వం		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	II	II	Theory	2002	Languages	ఆధునిక కవితా పరిచయం	ఉపవాచకం - భాషా విభాగం.	వ్యాకరణాంశాలు .		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	III	III	Theory	3002	Languages	ప్రాచీన తెలుగు సాహిత్య చరిత్ర	ప్రాచీన సాహిత్యము	ఆధునిక కవితా పరిచయము		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Telugu	New Course	IV	IV	Theory		Languages	ఆధునిక తెలుగు సాహిత్య చరిత్ర	ఆధునిక తెలుగు సాహిత్య విమర్శ	ఆధునిక భాష తెలుగు	నవల, కవిత్వం మరియు నాటకం	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Hindi	New Course	I	I	Theory	1004	Languages	गद्यसंदशे (Prose)	कविता के उद्देश्य को समझना	भावनात्मक अभिव्यक्ति	संदेश और संचार	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Hindi	New Course	II	II	Theory	2004	Languages	गद्यसंदशे (prose)	भावनात्मक अभिव्यक्ति	संदेश और संचार:		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Hindi	New Course	III	III	Theory	3004	Languages	काव्यदीप (Ancient and modern Poetry)				
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	I	I	Theory	1101	Core Course	ANCIENT INDIAN HISTORY & CULTURE	Indus Valley Civilization	Ancient Indian History & Culture	History and Culture of South India	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	II	II	Theory	2101	Core Course	MEDIEVAL INDIAN HISTORY	Impact of Turkish Invasions	Emergence of Mughal Empire	Advent of Europeans	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	III	III	Theory	3101	Core Course	MODERN INDIAN HISTORY & CULTURE	Social, Religious & Self-Respect Movements	Causes for the growth of Nationalism	Freedom Struggle	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	IV	IV	Theory	4101	Core Course	HISTORY & CULTURE OF ANDHRA	- The QutbShahis of Golkonda	Advent of European and settlements in Andhra	Impact of 1857 Revolt in Andhra	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	IV	V	Theory	5101	Core Course	HISTORY OF MODERN WORLD	Origin of Parliament Bill of Rights - Results	Unification of Italy; Unification of Germany	World War II	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VI	Theory	6101	Skill Enhance ment Course	Archival Sources and Techniques (Skill Enhancement Course	the archival sources and techniques as professional tools	Identify the intellectual and physical content in historical sites and records	Develop the ability to preserve and create access for a historic record.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VII	Theory	7101	Skill Enhance ment Course	Techniques of History Writing	scope and various concepts in historical writings	various historical sources for writing history of a person /event	changing ideas and approaches to a particular topic of history	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VI	Theory	6101	Skill Enhance ment Course	Tourism and Hospitality Services	interpersonal skills	the importance of guest service and satisfaction.	hospitality as a career	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VIII	Theory	8101-C1	Skill Enhance ment Course	Tourism Guidance and Operating Skills	tour guiding, operating and soft skills	cultural awareness and flexibility	Understand and apply team spirit	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VI	Theory	6101	Skill Enhance ment Course	Journalistic Reporting and Editing Techniques	he significance of Report Writing	the principles and techniques of Reporting		
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VII	Theory	7101	Skill Enhance ment Course	Evolution of Telugu Cinema and Script Writing	evolution of Telugu cinema	major changes from past to present	the role of Telugu cinema makers and their contribution	skills and techniques of cinema script writing
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VI	Theory	6101	Skill Enhance ment Course	Modern Principles and Techniques of Archaeology	the relationship between archaeology and other disciplines	Data retrieval techniques in Archaeology	post excavation analysis, recording and interpretation of data.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	History	New Course	V	VII	Theory	7101	Skill Enhance ment Course	Museum Management	Awareness about the History,	Concepts of Museums	Curatorial Responsibilities and Ethics of Collection	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathemati cs	New Course	II	II	Theory	2301	Core Course	SOLID GEOMETRY		Equations of the plane through the given points,	The condition that a given line may lie in a given plane;	Conjugate points; Conjugate planes;
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathemati cs	New Course	IV	V	Theory	5301	Core Course	LINEAR ALGEBRA	Linear Sum of two subspaces,	Dimension of a Vector space,	Types of Matrices	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathemati cs	New Course	III	III	Theory	3301	Core Course	ABSTRACT ALGEBRA	Group definition and elementary properties Finite and Infinite groups	Multiplication of two complexes Inverse of a complex	Image of homomorphism-	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathemati cs	New Course	IV	IV	Theory	4301	Core Course	REAL ANALYSIS	Range and Boundedness of Sequences,	convergence of series.		Boundedness of a function,

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	I	I	Theory	1301	Core Course	DIFFERENTIAL EQUATIONS	Exact Differential Equations	Equations that do not contain. x (or y)	Solution of homogeneous linear differential equations of order n with constant coefficients	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	V	VI	Theory	6301	Core Course	Numerical Methods	Newton's divided differences formula.	Central Difference Interpolation Formulae.	General quadrature formula one errors,	Trapezoidal rule
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	V	VI	Theory	6301	Core Course	MULTIPLE INTEGRALS AND APPLICATIONS OF VECTOR INTEGRAL	Region of integration	Vector differentiation,	Line Integrals	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	V	VII	Theory	7301	Core Course	TRANSFORMS WITH APPLICATIONS	Laplace transform	Inverse Laplace transform	.Solutions of differential equations	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	V	VI	Practical	6301	Core Course	Partial differential equations & Fourier series	Partial Differential Equations,	derivation of a partial differential equation by the elimination of arbitrary function	Complete integral,	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Mathematics	New Course	V	VII	Theory	7301	Core Course	Number theory	Divisibility,	The Euclidean algorithm	The big oh notation.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	I	I	Theory	1005	Languages	SHERI ASNAF-1	Ghazal: Raah e Daur e Ishq Mein... (Meer Taqi Meer)	Nazm: Kal Jug (Nazeer Akbarabadi)	Nazm: Chand Aur Taare (Allama Iqbal):	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	II	II	Theory	2005	Languages	SHERI ASNAF-2	Masnavi Sehrul Bayan	Qaseeda: Introduction to the Urdu Poetic Genre Qaseeda	Qaseeda Dar Madh e Bahadur Shah Zafar	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	I	I	Theory	1005	Languages	NASRI ASNAF-1	Urdu Prose	Life Sketch-Works	Critical Study	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	II	II	Theory	2005	Languages	NASRI ASNAF-2	Prose Genre Mazmoon- Technique- Charecteristics	Rasm o Riway	Jheengar Ka Janaza	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	V	V	Theory		Languages	ZARAI E IBLAGH (Mass Media)	Essential Components of Mass Media	Role of Mass Media in Indian Culture	Mass Media	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	V	VII	Theory		Skill Enhance ment Course	SAHAFATH (Journalism)	responsibilities of a Journalist	Column Writing The art of Journalism	Column Writing	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	V	VI	Theory		Skill Enhance ment Course	TARJUMA NIGARI (Translation)	Mass Media:Introduction & Scope	types of Mass Media	Impact of Mass Media	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	V	VII	Theory		Skill Enhance ment Course	MAZMOON NIGARI (Writing Skills)	Essay Writing	News Writing	Letter Writing	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	V	VI	Theory		Skill Enhance ment Course	TAREEQAE TADREES URDU (Urdu Teaching Methodology)	Methodology Types	Urdu Fiction, Novel & Afsana	Urdu Nazm	Urdu Ghazal
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	V	VII	Theory		Skill Enhance ment Course	TALEEMI NAFSIYATH (Educational Psychology)	science of Psychology	Branches of Educational Psychology اکائی: چہارم	Psychology	Education and Leadership
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	I	I	Theory	1005	Life Skill Course	Human Values & Professional Ethics (HVPE)	Harmony in the Family	Physical Facilities and Beliefs- Problems due to differentiation in Relationships	Sah-Astitva- Universal Harmonious Order in the Society:	

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	I	I	Theory	1005	Skill Development Course	Tourism Guidance:	Characteristics of Tourist Places	Types of Tour Guidance Government/Department Regulations	Characteristics of a Guide-Duties and Responsibilities of a Guide	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	I	I	Theory	1005	Skill Development Course	Survey & Reporting	Types of Survey	Essential Steps in Survey	Online Survey.	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Urdu	New Course	II	II	Theory	2005	Skill Development Course	Social Work Methods	Functions-social service	major social problems in India-Social work philosophy	scope and importance of social case work,	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Sanskrit	New Course	I	I	Theory	1003	Languages	POETRY, PROSE & GRAMMAR	Valmiki Ramayanam	Mahabharatam of Vedavyasa	VivekanandaSuktaya ha	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Sanskrit	New Course	II	II	Theory	2003	Languages	POETRY, PROSE & GRAMMAR	Indumateeswayamvar am	Gangavataranam	VandeKasmeerabhar atam	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Sanskrit	New Course	III	III	Theory	3003	Languages	Upanishad, Alankara and History of	Madhyamavyayogah a	MODERN DRAMA	UPANISHAD	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	V	VI	Theory	6103	Skill Enhancement Course	LOCAL ADMINISTRATION	he existing context of Local Government	knowledge on the need of empowerment and autonomy of LGIS	overview on financial resources and constitutional provisions	problems and conflicts in Local Administration
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	I	I	Theory	1103	Core Course	INTRODUCTION TO POLITICAL SCIENCE	knowledge about Political Science and understand the nature and scope,	raditional and modern approaches Political Science	Understand concepts intrinsic to the study of Political Science.	knowledge to observe the field level phenomena

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	II	II	Theory	2103	Core Course	BASIC ORGANS OF THE GOVERNMENT	Origin and Evolution of the concept of Constitutionalism and classification of Constitutions.	Acquaint themselves with different theories of origin of State.	Understand and analyses organs and forms of Governments along with a deep insight into the various agents involved in the political process.	knowledge to analyse and evaluate the existing systems
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	V	VI	Theory	6103	Core Course	OFFICE MANAGEMENT	fundamental knowledge of Office Management that can be applied to a career.	knowledge on office administration and identify job competencies.	importance of record management and allied sections.	Comprehend the administrative process in office
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	V	VI	Theory	6103	Skill Enhancement Course	E GOVERNANCE	Acquaint student with the introduction to good governance and how it can be achieved by information and communication technology.	rowing needs of E-Governance, improving transparency in the system of governance	understanding of various government schemes and E-Governance projects and initiatives.	practical knowledge about the effective delivery of citizen services
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	V	VI	Theory	6103	Skill Enhancement Course	POLITICAL REPORTING	Understand the need, scope and concepts in Political Reporting.	Identify various sources for Political Reporting.	Provide an overview of interpreting the political phenomena from the gross roots level to the Parliament.	Develop insights and enhance skills in a professional manner in the age of mass media

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	V	VII	Theory	7103	Skill Enhance ment Course	LEGAL LITERACY- RIGHTS AWARENESS	Understand the need, scope and concepts in Political Reporting	Identify various sources for Political Reporting.	Provide an overview of interpreting the political phenomena from the gross roots level to the Parliament.	Develop insights and enhance skills in a professional manner in the age of mass media.
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	V	VII	Theory	7103	Skill Enhance ment Course	PERSONNEL ADMINISTRATI ON	Understand Personnel Administration that can be applied to a career.	Acquire knowledge on recruitment, selection and training and identify job competencies.	Understand the importance and role of civil services in Indian Governance	Provide an overview on issues in administration
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	I	I	Theory	1306	Core Course	Descriptive Statistics and Analysis of Bi-Variate Data	Scope of Statistics in different fields	Diagrammatic and graphical representation of data	Measures of Dispersion: Range	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	II	II	Theory	2306	Core Course	Probability, Expectation and Probability Distributions	Basic Concepts of Probability	independence of events	Definition of random variable	Mathematical expectation of a random variable and function
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	II	II	Theory	2306	Core Course	Mathematical expectation of a random variable and function	Basic Concepts of Probability, random experiments, trial, outcome	onditional Probability and independence of events	Mathematical, Statistical, axiomatic Addition and multiplication theorems of probability	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Political Science	New Course	III	III	Theory	3103	Core Course	Statistical Inference	central limit theorem	Relation between t and F and F and x2-Distributions.	Neyman's factorization theorem	statistical hypotheses
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	IV	IV	Theory	4306	Core Course	Sampling Techniques and Designs of	Random Sampling	Stratified random sampling	Analysis of variance (ANOVA)	Latin Square Design (L.S.D)

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	IV	V	Theory	5306	Core Course	Applied Statistics	multiplicative models	Logistic curve and Gompertz curve	uses of vital statistics	measurement of population growth. Life tables
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VI	Theory	6306	Skill Enhance ment Course	Operation Research - I	basic concept of Operational Research	linear programming	features of OR-S Method in OR-Modeling in OR	Graphical solution of linear programming problem
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VII	Theory	7306	Skill Enhance ment Course	Operation Research - II	advanced techniques of e programming problem	real life applications.	Transportation problem	MODI method(U-V method).
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VI	Theory	6306	Skill Enhance ment Course	Statistical Process and Quality Control	control chart techniques	sampling inspection plan	concept of quality, process control	product poly management quality circles,
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VII	Theory	7306	Skill Enhance ment Course	Computational Techniques and R Programming	statistical analysis with the help of the statistical software	Computer basics	Data processing using spreadsheets	Programming with R
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VI	Theory	6306	Skill Enhance ment Course	ECONOMETRIC S	steps in empirical economic analysis	importance of measurement	cross section, pooled cross section	the structure of econometrics
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VII	Theory	7306	Skill Enhance ment Course	REGRESSION ANALYSIS	Linear Regression	Least Squares Estimation	Analysis of Variance	estimation of coefficients

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Physics	New Course	V	VII	Theory	7302	Skill Enhancement Course	OPTICAL IMAGING AND PHOTOGRAPHY	Identify the different types of cameras and camera lenses according to different purposes	Identify and understand the focal length of the different types of lenses 3. Acquire critical knowledge on natural and artificial sources of light and their application in photography.	Demonstrate skills of camera usage especially Digital Cameras	Understand the various image development and editing techniques
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Physics	New Course	V	VI	Theory	6302	Skill Enhancement Course	LOW TEMPERATURE PHYSICS & REFRIGERATION	Identify various methods and techniques used to produce low temperatures in the laboratory	Acquire knowledge on refrigeration	Demonstrate skills of Refrigerators	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Physics	New Course	V	VII	Theory	7302	Skill Enhancement Course	Solar Energy and Applications	Acquire a critical knowledge on the working of thermal and photovoltaic collectors.	under stand testing procedures and fault analysis of thermal collectors and PV modules	Comprehend applications of thermal collectors and PV modules	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Physics	New Course	V	VI	Theory	6302	Skill Enhancement Course	APPLICATIONS OF ELECTRICITY & ELECTRONICS	Identify various components present in Electricity & Electronics Laboratory.	Acquire critical knowledge of each component	skills of constructing simple electronic circuits	applications and practices of various electrical & Electronic devices

2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Statistics	New Course	V	VII	Theory	7306	Skill Enhancement Course	ELECTRONIC INSTRUMENTATION	Identify various facilities required to setup a basic Instrumentation Laboratory	Understand the Principle and operation of different display devices used in the displaysystems and different transducers	applications of various biomedical instruments in daily life	
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Physics	New Course	V	VI	Theory	6302	Skill Enhancement Course	APPLICATIONS OF ELECTRICITY & ELECTRONICS	Identify various components present in Electricity & Electronics Laboratory.	Critical knowledge of each component	skills of constructing simple electronic circuits	applications and practices of various electrical & Electronic devices
2022-2023	BOS Approved: 22-10-2022 to 09-11-2022	Physics	New Course	V	VII	Theory	7302	Skill Enhancement Course	ELECTRONIC INSTRUMENTATION	Acquire a critical knowledge of various Electrical Instruments used in the Laboratory	Identify various facilities required to set up a basic instrumentation Laboratory	Comprehend the applications of various biomedical instruments in daily life	Understand the Principle and operation of different display devices