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CRITERION: 2

TEACHING- LEARNING AND EVALUATION:

STUDENT PERFORMANCE AND LEARNING OUTCOME



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CRITERION	2: Teaching- Learning and Evaluation
KEY INDICATOR	2.6 Student Performance and Learning Outcome
METRIC NO	2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated
FILE DESCRIPTION	Supporting documents



SREE NARAYANA COLLEGE ALATHUR

P.O. Erattakkulam, Pin – 678 682, Kerala, India (Managed by the Sree Narayana Trusts, Kollam)
Affiliated to the University of Calicut.
Accredited by NAAC with 'B' Grade



Or. R. Bindu M.Sc., Ph.D. Principal

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Ref:

Date:

PROGRAMME OUTCOMES (POs) & PROGRAMME SPECIFIC OUTCOMES (PSOs)

B.Com

- To equip the students with the skills of preparing financial statements for various type of organizations.
- To enable the students to acquire knowledge about financial reporting standards and to understand corporate accounting methods.
- To familiarize the students with certain statutes concerning and affecting business organizations in their operations.
- To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements.
- To familiarize the students with the various concepts and elements of cost.
- To create cost consciousness among the students.
- To familiarise the students with corporate law and to make them aware of the importance of corporate governance in the management of organizations.
- To enable the students to understand the concept and relevance of Management Accounting
- To provide the students an understanding about the use of accounting and costing data for planning, control, and decision making.
- To enable students for acquiring basic knowledge in business research methods and to develop basic skills in them to conduct survey researches and case studies.
- To impart basic knowledge and equip students with application of principles and provisions Income - tax Act, 1961 amended up to date.
- To provide knowledge of auditing principles and techniques and to familiarize the students with the understanding of issues and practices of corporate governance in the global and Indian context.
- To provide basic knowledge about the structure, organization and working of financial system in India.
- To familiarize the students with the concepts, tools and practices
- To familiarize the students with the world of investments.
- To impart knowledge about different forms of banking services and the procedure for opening and operating bank accounts.
- To enable the students to learn the computation of premium, bonus and claims and knowledge about various methods of pricing of insurance products
- To enable the students to learn the theories of foreign exchange behavior and to understand the different types of exchange rate risks.

BA Functional English

The Curriculum of B.A. Functional English has been designed keeping in view the role of English as a major language of international communication in the present world scenario. A multi-focal academic programme, this U.G. Programme aims at equipping the student with excellent communicative skill in diverse applications of English Language designed to open up a wide spectrum of Career Avenue in a fast evolving knowledge society. Feature sare:

- Advanced Level English Programme with an interactive approach.
- Primary focus on basic language skill—LSRW (Listening, Speaking, Reading and Writing)
- Application of English in major areas—Media, Business, Creative writing, Translation, Advertising, Film, Sports and Entertainment.
- Fostering human values through exposure to major works of literature in English and stimulating self-exploration and self-expression.
- Moulding a generation of techno-savvy student competent in tapping ICT for generation of knowledge.
- Providing support for IELTS, TOEFL and other international language testing system.

BA Economics

Coming to the curriculum of Economics, our objective is to impart

- A knowledge of fundamental concepts and theoretical propositions
- A methodology by which economic ideas are framed, tested and modified
- An understanding of the institutions, social, political and economic that influence economic issues
- An ability to present one's own analysis of the problems and issues in the language of an 'Economist'

B.Sc. Botany

- Critical Thinking: Take informed actions after identifying the assumptions that frame sudens' thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at their ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- Problem Solving: Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired.
- Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

Felf-directed and Life-long Learning: Acquire the ability to engage in independent and lifelong learning in the broadest context of socio-technological changes

OCKAMME SPECIFIC OUTCOMES (PSOs)

Scope and importance of Botany: Understand scope and importance of Botany in every despecially in dealing with societal and environmental issues, agriculture, ethics and

healthcare.

- 2. Environmental concern: Understand the and the role of plants in sustaining life on earth and the interrelationship between human beings and nature, create awareness on natural resources and their importance in sustainable development, analyze the importance of biodiversity conservation, estimate biodiversity loss and develop conservation strategies.
- 3. Scientific temper: Develop scientific temper and undertake scientific projects.
- 4. Practical applications: Identify and classify plants according to the principles of plant systematics, apply techniques like plant propagation methods, organic farming, mushroom cultivation, preparation of biofertilizers, biopesticides etc. in daily life.
- 5. Awareness on life processes: Understand plant life processes, biomolecules, basic hereditary and evolutionary principles.

B.Sc. Chemistry

To enable the students

- To understand basic facts and concepts in chemistry.
- To apply the principles of chemistry. To appreciate the achievements in chemistry and to know the role of chemistry in nature and in society.
- To familiarize with the emerging areas of chemistry and their applications in various spheres of chemical sciences and to apprise the students of its relevance in future studies.
- To develop skills in the proper handling of instruments and chemicals.
- To familiarize with the different processes used in industries and their applications.
- To develop an eco-friendly attitude by creating a sense of environmental awareness. To be conversant with the applications of chemistry in day-to-day life.

B.Sc. Zoology

The expected outcome of the syllabus:

- To know the scope and importance of Zoology.
- To develop scientific temper among students.
- To inculcate interest in nature and living forms and their conservation.
- To make the students eco-friendly by creating a sense of environmental awareness in them.
- To give better exposure to the diversity of life forms.
- To give awareness about natural resources and their importance in sustainable development.
- To study different ecological sites for animals in their natural habitats by field study.
- To provide opportunities for the application of the acquired knowledge in day- to day life.
- To develop skills in doing experiments, familiarizing equipment and biological specimens.
- To undertake scientific projects which help to develop research aptitude in students.

To expose students to various fields in biological sciences and to develop interest in related disciplines.

To fattain interdisciplinary approach to understand the application of the subject in daily life. To familiarize the emerging areas of Zoology and their applications in various spheres of biological sciences and to appraise the students of its relevance in future studies.

B.Sc. Microbiology

- Acquire knowledge about the fundamental principles and scientific theories related to various scientific phenomena in day-to-day life.
- To develop communication skills and get expertise in scientific writing.
- Acquire the skills in handling scientific instruments, planning and performing in laboratory
 experiments. Equip them with the skills to think creatively and draw logical inferences from
 the scientific experiments to draw the objective conclusions or provide new solutions to the
 problems. To make them Capable of working effectively in diverse teams in both classroom,
 laboratory and in industry and field-based situations.
- To get an awareness of the impact of science on the environment and society.

Programme specific outcomes (PSOS) of B.Sc. Microbiology are to:

- Gain integrated knowledge on different aspects of microbiology, biochemistry, biostatistics and computer applications bioinformatics and emerging worldwide microbiological technologies, issues, and perspectives.
- Acquire skills specific to microbiology and allied fields for converting information to knowledge through hypothesis, design, execution and analysis. PSO3 Analysis of scientific issues across the spectrum of related disciplines.
- Enable the students to improve the quality of human lives in relation to the environment with the knowledge in microbiology.
- Capacity to develop, employ and integrate technical and professional skills as a member of a team upholding the essence of collaboration, cooperation, ethics and integrity.

B.Sc. Mathematics

- Logic, the study of principles of techniques and reasoning, is fundamental to every branch of learning.
- The mathematics required for viewing and analyzing the physical world around us is contained in calculus.
- Using the idea of definite integral developed in previous semester, the natural logarithm function is defined and its properties are examined. This allows us to define its inverse function namely the natural exponential function and also the general exponential function.
- An introductory treatment of linear algebra with an aim to present the fundamentals in the clearest possible way
- Basic ideas and methods of real and complex analysis are taught.
- The goal of numerical analysis is to provide techniques and algorithms to find approximate numerical solution to problems in several areas of mathematics where it is impossible or hard to find the actual/closed form solution by analytical methods and also to make an error analysis to ascertain the accuracy of the approximate solution.

Linear programming problems are having wide applications in mathematics, statistics, computer science, economics, and in many social and managerial sciences.

Geometry is, basically, the study concerned with questions of shape, size, and relative position of planar and spatial objects.

To understand the notion of improper integrals, their convergence, principal value and evaluation.

B.Sc. Environment & Water Management

- To develop basic understanding of Fundamentals of Environmental Science as a discipline.
- To bring sensitization towards the environment and also increase student competency & employability.
- To inculcate a sense of responsibility among students about various principles and laws of environment
- To encourage students about applicability of knowledge and Interdisciplinary approach in day todays life.

MA English Language & Literature

The students are expected to develop both an understanding of the cultures represented by the literatures discussed and abilities of critical thinking. The courses on marginalized discourses promote values-based thinking. The Project/Dissertation in the Fourth Semester is expected to be a window to research/project writing for prospective research scholars and professionals. The elective course on Teaching of English is directly career-oriented

M.Com

- To make an awareness and understanding about the emerging business in the contemporary Indian
 economic scenario to get an effective knowledge about the changing business scenario in
 accordance with the changes in the economic environment of the country.
- To familiarise students with the concepts of macro-economic in which a Business organization
 operates. To give an idea about the policies of the government and assess their impact on business.
- To make an understanding about the concept of Corporate Governance and the communication mechanism
- To Apply the various Theories and Models of Corporate Governance and the recent initiatives in India and abroad
- To make an understanding about the various committees on Corporate Governance and the Legal framework
- To acquaint students with important quantitative techniques, which enable sound business decision making
- To make students learn the process of applying appropriate quantitative techniques for validating findings and interpreting results
- To Evaluate the personality traits of human beings and various ethical issues in Organisational Behaviour.
- Understand and apply the significance of risk and uncertainty in decision .

M.Sc. Mathematics

Cupper completing the M. Sc degree in the field of Mathematics, students have/capable of:

solid understanding of graduate level algebra, analysis and topology.

Using their mathematical knowledge to analyze certain problems in day to day life.

dentifying unsolved yet relevant problems in a specific field.

Undertaking original research on a particular topic.

- Communicate mathematics accurately and effectively in both written and oral form.
- Conducting scholarly or professional activities in an ethical manner.

M.Sc. Zoology

The programme also works across related majors within the M.Sc zoology

- Distinguish between the Structure, Function, Behaviour and evolution of different animals
- For instance if you major in zoology, you can also still take courses from across the other complementary.
- Master of Science majors of conservation biology and ecology, giving you an in-depth knowledge of those most closely related programmes
- Apply the wide range of subject based skills to various fields that provide a base for future career in disciplines such as Health Sciences, Agriculture, Environmental Management, Biotechnology, Publishing, Teaching and Research
- Perform, Assess and implement practical techniques and procedure to solve biological problems and analyse and quantify data collected during any project.
- Understand the applications of Biological techniques to various fields of biology.
- When you graduate with a Master of Science (Zoology) you will have learned how to work at a high level of academic achievement.
- Work to deadlines under pressure and communicate effectively.

Program Specific Outcomes (M.Sc. Zoology)

- Understand Nature, environment natural resources and their conservation, Classification & Behaviour of different animals, Human genetics, Cytology and Evolution.
- Apply the wide range of subject based skills to various fields that provide a base for future career in disciplines such as Health Sciences, Agriculture, Environmental Management, Biotechnology, Publishing, Teaching and Research.
- Distinguish between the Structure, Function, Behaviour and evolution of different animals.
- Perform, Assess and implement practical techniques and procedure to solve biological problems and analyse and quantify data collected during any project.
- Understand the applications of Biological techniques to various fields of biology

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SREE NARAYANA COLLEGE ALATHUR COURSE OUTCOMES OF ALL DEPARTMENTS

DEPARTMENT OF COMMERCE

COL	SEMI	PROGRAM PROGRAMME ME CODE NAME B.COM COOPERATION	
BCM1C01	BCM1B01	-	
		COURSE CODE	
MANGERIAL	BUSINESS	COURSE NAME	2
To provide knowledge about the basic principles of Micro and Macro economics for developing an understanding of various theories in economics and its integration to markets and business environment and to use them in managerial	To provide a thorough understanding of the various thoughts and theories on Management and its application in real business situations.	OBJECTIVE	OLIVIEW OF COMME
To provide knowledge about the basic principles of Micro and Macro economics for developing an understanding of various theories in economics and its integration to markets and business environment and to use them in managerial regarding India's foreign trade and the application of this use them in managerial regarding India's foreign trade and the application of this	1. Understand the concept of Management. 2. Understand the importance of Management in a global perspective. 3. Understand the differences between management and leadership in real life situations. 4. Analyze the concept of corporate social responsibility towards various stake holders. 5. Understand about the most modern techniques of management practiced in developed countries.	OUTCOME OF THE COURSE	

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To impart knowledge and its practice in real business situations, it laiso aims to make the field of accounting I. Students familiar with the latest changes in the field of accounting I. Students learn to prepare accounts even from incomplete and method of recording. To provide knowledge on the theory and practice of the various concepts, principles, tools and excellent motivate students to be an excellent marketing and to motivate students to the an excellent marketing. To provide knowledge on the theory and practice of the various concepts, principles, tools and excellent motivate students to the an excellent marketing and to practice of the various of creating and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing concept of marketing concept of marketing and capturing value. 3. Understand the concept of marketing and capturing value. 3. Understand the concept of marketing concept of marketing and capturing value. 3. Understand the concept of marketing concept of marketing and capturing value. 3. Understand the concept of marketing concept of marketing concept of marketing and capturing value. 3. Understand the concept of marketing concept of marketing concept of marketing and capturing value. 3. Understand the concept of marketing concept of concept
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	SEMIII
BCM3A12	BCM3A11
PROFESSIONAL BUSINESS SKILL	BASIC NUMERICAL METHODS
To update and expand basic Informatics skills of the students and equip them to effectively utilize the digital knowledge resources for studies and business.	To enable the students to acquire knowledge of basic mathematical operations, solving equations, working on matrices, statistics and application of mathematical and statistical tools and techniques for solving complex business situations
1. Facilitates easy business communication 2. Improved knowledge of E-learning resources and its delivery broadens vision and insight of management. 3. Knowledge of artificial intelligence and data analysis helps to diversify and grow business cutting across obstacles 4. Knowledge of existing national and international cyber laws makes communication and business easier. 5. Digital marketing and its application of social media channels and advertisements enhances changes and horizon of business	1. The learner learns the concepts of equations and quadratic formula. 2. Facilitates the scholar to use matrices for large volume data processing. 3. This helps to solve problems involving arithmetic and geometric progressions. 4. Able to choose the right mode of interest and EMI for debt repayment 5. Develop the skill of using descriptive statistical tools.



D. Director

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observed. in the long run. 5. Able to create LLP business with sound legal knowledge. To help the students to acquire conceptual and practical knowledge of 1. Becomes competent to prepare accounts related with	observed.			
1. Helps to establish and run business as directed by the government. 2. Knowledge of Indian Contract Act 1872 helps to enter into valid contracts in life and business. 3. Learning of Sale of Goods Act helps to do business keeping all legal formalities. 4. Understanding of the privileges and rights of consumers helps to do legally standing business admitting the status of the customers; increases business and relationships	To familiarize the students with various laws in force on establishment and running of business ir the country and the legal aspects to be	BUSINESS REGULATION	всмзвоз	

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1. It motivates the learner to become an entrepreneur 2. Knowledge of supports available helps to reap the benefits of easily 3. It is intended to trigger the mind set of youth to establish and run MSMEs in life 4. Knowledge of establishing industrial units helps to start with business units easily. 5. The learner can draft and finalise project report without external helps and supports.	: It is intended to familiarize the students with the concept of entrepreneurship, to identify and develop the entrepreneurial talents of the students and to generate innovative business ideas in the emerging industrial scenario.	ENTREPRENURSHIP DEVELOPMENT	BCM4A13	SEM IV	
To familiarize the students with the different aspects of managing human resources in an organization and to understand the different employment to have effective training, compensation and grievance handling procedure in an organization appraisal. 5. Insight on compensation appropriate decisions on time.	To familiarize the students with the different aspects of managing human resources in an organization and to understand the different employment training, compensation and grievance handling procedure in an organization	HUMAN RESOURCE MANAGEMENT	BCM3C03		

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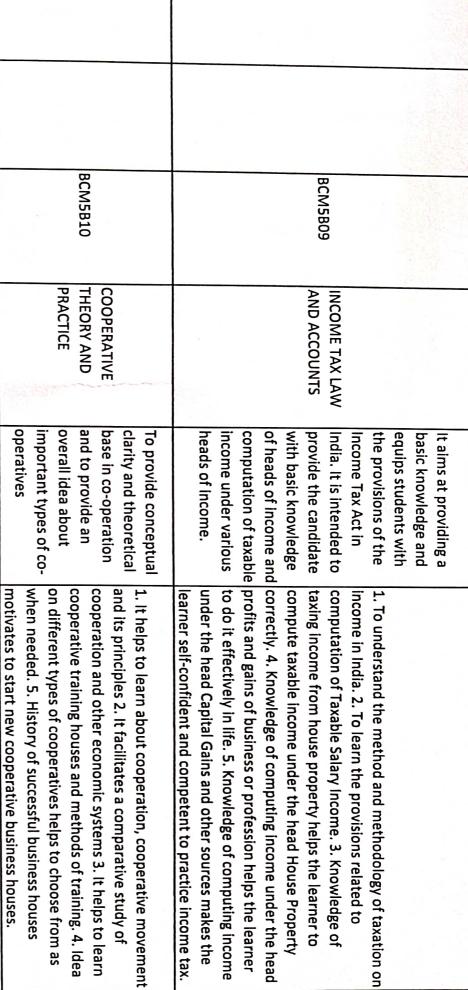
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BCM4C04	BCM4B06
QUANTITATIVE TECHNIQUES FOR RESEARCH	CORPORATE
To familiarize student with the use quantitative techniques in managerial decision making	To familiarize the students with corporate law and to make them aware of the importance of corporate governance in the management of organizations. It is also intended to learn the formation, management and winding up of companies.
1. Knowledge of QT broadens vision and outlook of the candidate to face business problems. 2. Understanding of correlation and regression analysis helps to predict with greater degree of accuracy. 3. Awareness of probability and other theories helps to have critical thinking and rational decisions. 4. Familiarity with theoretical distributions helps to correlate issues with standard theories and take decisions. 5. Knowledge of LPP and modeling will be of great help in decision making.	1. Knowledge of Indian Companies Act gives the legislative backgrounds of a company. 2. The candidate knows the formalities for formation of a company which will help to form more corporates in life. 3. The knowledge of raising funds will help the candidate to choose between debt and equity easily 4. The candidate can easily manage a company as he knows the rights, duties and powers of all positions. 5. Knowledge of situations when a company may go for liquidation helps to run the business effectively.



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1. It helps to learn about cooperation, coop and its principles 2. It facilitates a comparat cooperation and other economic systems 3. cooperative training houses and methods or on different types of cooperatives helps to when needed. 5. History of successful busin motivates to start new cooperative busines:	To provide conceptual clarity and theoretical base in co-operation and to provide an overall idea about important types of cooperatives	COOPERATIVE THEORY AND PRACTICE	BCM5B10	
the provisions of the Income Tax Act in India. It is intended to provide the candidate with basic knowledge of heads of income and computation of taxable profits and gains of business or profession heads of Income. 1. To understand the method and methodol income in India. 2. To learn the provisions recomputed to computation of Taxable Salary Income. 3. Knowledge of compute taxable income under the head Capital Gains and other sounder to practical provisions of taxable income under the head Capital Gains and other sounder to practical provisions recomputed to computation of Taxable Salary Income. 3. Knowledge of computation of taxable profits and gains of business or profession had the method and methodol	the provisions of the Income Tax Act in India. It is intended to provide the candidate with basic knowledge of heads of income and computation of taxable income under various heads of Income.	INCOME TAX LAW AND ACCOUNTS	BCM5B09	
	basic knowledge and			



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SEM VI	
BCM6B12	BCM5B11
INCOMETAX AND GST	LEGAL ENVIRONMENT FOR COOPERATIVES
It is intended to equip students with specialized knowledge in the field of direct and indirect taxation system and inspire them for better employment. It also aims to understand the importance of Income Tax and GST in the Indian and global economy and its contribution to the economic development.	To enable the students to acquire knowledge about co-operative legal frame work in India and Kerala and to understand the formalities for registering co-operatives and the administrative set up.
1. Students will be able to Compute tax liability of individuals 2. The Learner can do filing of returns of income meeting statutory obligations 3. The scholars understand the concept of GST and e-filing procedures 4. The candidates understand the offences and penalties under the Acts. 5. The Learner learns the rights, duties and powers of CAG and tax authorities	1. Knowledge of cooperative movement in India helps to form new cooperatives. 2. Knowledge of cooperative legislations helps to go by law and take valid decisions. 3. Learning of Kerala Cooperative Societies Act helps to run societies easily. 4. Administrative set up of Cooperatives helps to contact the right person at the right time. 5. Banking Regulation Act helps to have a comparative study of both the Acts.

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BCM6B13																		
GOVERANCE	CORPORATE	AUDITING AND																
applied.	standards to be	in terms of codes and	corporate governance	framework of	knowledge on the	envisages imparting	Indian context. It also	in the Global and	corporate governance	issues and practices of	understanding of	students with the	familiarise the	techniques and to	auditing principles and	provide knowledge of	It is intended to	
significance in corporate governance.	governance. ● Evaluate different stakeholders' roles and	Solid understanding of the models and benefits of corporate	system effectively to check frauds, errors and omissions.	valuation independently. • Knows to set internal control	vision on the topic. ● Learns to do verification, vouching and	Knowledge of auditing helps gives newer insights and wide					-							



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llege, Ala	1. Understand the concepts and characteristics of cooperatives Understand the functional and management aspects of cooperatives 3 Develop an insight about cooperative leadership 4Equip students with preparation of documents and financial statements Develop skills do pancipal verification and valuation of assets and liabilities.	To provide the students a conceptual and practical understanding of the dimensions of cooperative management. To develop the knowledge on functions, rules, regulations and the benefits of the cooperative management and administration.	COOPERATIVE MANEMENT AND ADMINISTRATION	BCM6B15	Alaman S	EE. NAR.
	Acquire knowledge about the cooperative movement in the world, • Understand the structure and aim of international alliances • Be aware about the significance of international organizations. • Impart knowledge on the inter-cooperative relations in the country.	To enable the students to acquire knowledge about the evolution and development of cooperative movement in the world. To familiarize with the international cooperative alliances, specialized organizations and the inter cooperative relations	INTERNATIONAL COOPERTAIVE MOVEMENT	всм6в14		

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A.F.L. NAA	55 71 55 71	SEM I	FINANCE	
07850	MCM1C02	MCM1C01		BCM6B16
	CORPORTE GOVERNANCE AND BUSINESS ETHICS	BUSINESS ENVIROMENT AND POLICY		3 WEEKS PROJECT AND VIVA VOCE
	To familiarise the students with the knowledge of corporate ethics • To enable the students to understand the emerging trends in good governance practices. • To create corporate financial reports in the global and Indian context.	To familiarise students with the concepts of macro-economic in which a Business organization operates. To give an idea about the policies of the government and assess their impact on business.	2019-20	To failiarise students with research aspects
R. Dine Principal	To make an understanding about the concept of Corporate Governance and the communication mechanism • To Apply the various Theories and Models of Corporate Governance and the recent initiatives in India and abroad • To make an understanding about the various committees on Corporate Governance and the Legal framework • Evaluate the role of various stakeholders, whistle blowing and the recent developments in India. • To create Important ethical principles in Business in the cultural diversity	Analyse the environment of a business from the various internal and external perspectives • Evaluate how the economic environment and its configurations influence in business decision making. • Apply the role of New Economic Policy and the Economic reforms in the perspective of Business. • To make understand the various policies related to FDI &Multi-National Corporations. • To give an in-depth knowledge about the recent Government policies regarding Environment management.		Chance to practically apply quantitative techniques and research methodology

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MCM1C04	MCM1C03
MANAGEMENT THEORY AND ORGANISATIONAL BEHAVIOUR	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS
To impart a thorough understanding about various concepts and theories in management and organisational behaviour.	To acquaint students with important quantitative techniques, which enable sound business decision making To make students learn the process of applying appropriate quantitative techniques for validating findings and interpreting results.
Understand the various psychological process and different motivation theories which will influence the performance. To Evaluate the personality traits of human beings and various ethical issues in Organisational Behaviour., To understand importance of group dynamics, need for work life balance and managing change. To apply the the various terms related to organisational culture and Techniques for managing organisational relationships.	To remember and understand properties of probability distribution and to solve the problems • To apply hypothesis testing for validation and interpretation of the results • To evaluate the application of non-parametric tests for validation. • To understand the tool for finding the relationship between variables and its magnitude • To create soft skill knowledge for data analysis

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business problems	and diagnosing	skills in interpreting	inculcate analytical	ACCOUNTING process, 2. To	MCM1C05 MANGEMENT decision-making	ADVANCED concepts in manager	techniques, and	apply tools,	to understand and	1. To enable students	
making. 5. To apply various techniques of interpreting	apply the significance of risk and uncertainty in decision	management initiatives for organizations 4. Understand and	understand and apply comprehensive performance	financial performance-based business problems. 3. To	performance, 2. To measure and solve financial and non-	rial different methods of measuring financial and non-financial	1. To remember and understand the knowledge to use			ts	

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MCM2C07	MCM2C06
ADVANCED STRATEGIC MANAGEMENT	ADVANCED CORPORATE ACCOUNTING
To understand the Strategic Management Process and to provide basic idea about the Social and ethical issues • To understand and evaluate the Environment analysis and SWOC.	1. To provide knowledge and skills in the theory and practice of corporate financial accounting 2. To provide insight in to some of the important accounting standards of IFRS /Ind AS 3. To enable problem solving abilities among students in matters of various corporate situations such as consolidation of group information, corporate restructuring and liquidation
Evaluate the strategic options at Corporate level and the different growth strategies • To understand the Strategy implementation and different approaches in planning and allocating resources • To apply and evaluate the Strategy evaluation, tools and techniques used and processes with case studies	To understand the theory and practice of Corporate Financial Accounting • To create problem solving capacity in Corporate restructuring and liquidation • To understand skill in recognition, measurement and presentation of deferred tax • To understand insight into Accounting standards of IFRS, Ind AS, and Lease accounting • To evaluate different types of accounting

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MCM2C09	MCM2C08
INTERNATIONAL	ADVANCED COST ACCOUNTING
To study about the Theories of International Trade and reasons for internationalisation • Evaluate the International Business Environment opportunities and threats of Indian Companies	1. To enable the students to know the applications of Cost accounting tools, Techniques and concepts in managerial decision-making process. 2. To provide students adequate knowledge of cost management and control techniques and to enable them to apply these for managing business
To understand the Strategy development in IB and the different business entry strategies. • To evaluate the role International economic situations in the development of Business. • To analyse the different strategies of internationalization and the contribution to Indian Course outcome economy.	1. To understand the conceptual knowledge of Cost Accounting, comparison of cost accounting with other branches of accounting. 2. Provide students with a basic understanding of the different terminologies used in Cost Accounting and different types of cost 3. Understand the treatment regarding the application of process costing and treatment of Joint products and By products. 4. To understand and evaluate the practical application of Absorption Costing, Throughput Accounting, ABC Analysis and Transfer Pricing. 5. To evaluate the application of Productivity Management



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SEM III	
MCM3C11	MCM2C10
FINANCIAL MANGEMENT	MANAGEMENT SCIENCE
To acquaint the students with the basic analytical techniques and methods of financial management of business organization. To provide the students the exposure to certain advanced analytical techniques that are used for taking financial policy decisions	1. To familiarize students with concepts of management science and tools supporting decision making 2. To enable students to apply Management science techniques in appropriate decision situations.
To understand the role of finance and finance manager in an organisation • To Evaluate and apply sources of financing and corresponding cost of capital • To Understand and evaluate working capital decisions • To understand and apply Capital structure and leverage analysis • To understand and apply Capital and apply dividend theory and dividend decisions	To understand students with concepts of management science • To evaluate the application of various tools which support decision making process • To apply inventory management and managing the queue system in service sector. • To evaluate and create the technique of project planning scheduling and controlling • To understand knowledge in share analysis and different strategies in game theory



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MCM3C13	MCM3C12
RESEARCH METHODOLOY	INCOME TAX LAW, PRACTICE AND TAX PLANNING 1
To acquaint students with process and methodology of research To enable students to identify research problems, collect and analyse data and present results.	To enable students to understand computation of income under various heads, taxable income of various entities, tax planning and procedure of assessment.
To understand and apply different research approaches and methodologies • To evaluate and apply Population survey and sample survey — theories and techniques — • To understand and apply the Data collection methods and enable them to conduct a comprehensive research. • To Evaluate the Measurement and scaling and the validation and reliability testing • To understand and evaluate Data processing, analysing, interpretation and report writing a create awareness about plagiarism	To understand tax planning tips to individuals on the basis of residential status. • To understand and evaluate the computation of income under five heads and to apply tax planning tips for these five heads of income. • To understand and apply tax planning tips for Hindu Undivid family, set off and carry forward provisions and tax planning tips for individuals. • To remember and understand the powers of income tax authorities and should be able to calculate advanced tax liability and TDS of an individual. • To create ability to file the return of income of individuals and should be aware of different types of assessment



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MCM3EF02	MCM3EF01
FINANCIAL MARKETS AND INSTITUTIONS	INVESTMENT
To provide the students a sound information and knowledge of broad framework of financial markets and institutions. To impart the students an understanding of the inter-linkages and regulatory framework within which the system operates in India	To establish a conceptual framework for the study of security analysis and portfolio management. This course will provide the students the ability to understand and utilize the skill of optimizing returns.
• To provide the students a sound information and knowledge of broad framework of financial markets and institutions. • To acquire knowledge in national and international commodity market • To understand various types financial instruments and their sale and buy back • To galn knowledge about the working of major financial institutions • To familiarize with different forms of foreign capital inflows and its role in Indian financial system	TO understand the concept of risk, return, diversification and hedging • To understand and apply the different types of bonds and bond valuation • Provide thorough understanding and evaluation of fundamental analysis and technical analysis • To understand the measurement of portfolio risk, optimal portfolio, portfolio selection models • To understand and create portfolio management, portfolio evaluation and revision



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RALL SEM IV		
MCM4C14	MCM2A04	MCM1A04
FINANCIAL DERIVATIVES AND RISK MANAGEMENT	SPREAD SHEET APPLICATION	NET COACHING
To make the students efficient in the area of derivatives, by giving them the knowledge of basics in options, futures, swaps etc.	1.To gain an understanding of how managers use spread sheet analysis to formulate and solve business problems and to support managerial decision making. 2. To become familiar with the processes needed to develop, report, and analyse business	awareness among students about various competitive examinations To motivate students to take part in NET examination.
1. To understand and apply the terms and concepts of underlying risk management 2. To understand and evaluate growth and development of future. 3. To understand and apply the option trading and various strategies involved in it. 4. To understand about the pricing of options- call and put option 5. To evaluate and apply SWAP contract and pricing o different instruments under SWAP.	Mastering Microsoft excel to help them in satisfying their rsearch requirements	Easily clear JRF and NET exams

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MCM4C15																			
PLANNING II	PRACTICE AND TAX	INCOME TAX LAW																	
law.	admissible under the	possible tax benefits	derive maximum	assesses with a view to	pertaining to various	pronouncements	judicial	tax laws and related	provisions of the India	major and latest	the students with	assesses. To familiaríze	planning of different	assessment and tax	practical knowledge of	theoretical and	students with	To acquaint the	
business units.	decisions • To understand and evaluate the tax liability of	evaluate the implications of tax on various managerial	shipping companies. Page 43 of 77 • To understand and	assesses with a view to and evaluate the tax liability of Companies including	able to advocate tax planning tips to them. • To understand	liabilities of cooperative society and trust and should also be	firm, AOP and BOI in India. • To understand and apply tax	To understand and apply tax planning tips for partnership				16							

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Palakkad - 678 682, Kerala

MCM4PV01		MCM4EF04	MCM4EFT03
VIVA VOCE	PROJECT WORK AND COMPREHENSIVE	ADVANCED STRATEGIC FINANCIAL MANAGEMENT	INTERNATIONAL
with research aspects	To failiarise students	To build an understanding among students about the concepts, vital tools and techniques used for financial decision making by a business firm.	To understand the concept and significance of international finance • To understand the international financial markets and exchange theories • To get an idea about foreign exchange exposure and risk management
research methodology	Chance to practically apply quantitative techniques and	To build an understanding among students about the concepts, vital tools and techniques used for financial decision making. • To understand the concept of capital structure planning and policies, and to find the value of firm. • To familiarise with the concept of lease financing and various methods of lease financing • To gain knowledge in theories of merger, different types of merger and the financial impact of merger • To understand take over strategy and procedure and regulations.	Students should familiarize with the concept and significance of International Finance, IDA, IFC and ADB • Students should understand international financial markets, foreign exchange rate, its measurement and movements. • Students should acquire knowledge in exchange rate theories and models of exchange rate, risk management in foreign exchange • Students should develop knowledge in international capital budgeting, asset liability management and foreign portfolio management • Students should acquaint knowledge in Working capital management, international cash and inventory management and international monetary investment

BΑ

ECO1B01

MICROECONOMICS- This course is designed to expose first semester

students, who may be new to A. Director Principal
Sree Narayana College, Alathur
Palakkad-678,682, Kerala



COMPLEMENT, HIS1(2)C01

Economics

CORE 2

ECO2 B02

HISTORY(1857 TO THE PRESENT)1 MODERN INDIAN

an economist and the course will illustrate how economics, the basic principles of microeconomic microeconomic concepts can be applied to

disciplines of History as complementary course. The This course is the first of the two courses designed to be introduced to the students of allied

analyze real-life situations.

MACROECONOMICS- Colonialism and National Movement up to the Movement. This course covers the History of

History focusing the Colonialism and National

focus of this course is on the Modern Indian

of short run fluctuations and long run movements in us explore and understand the determinants employment, price level and investment. It also helps aggregate variables like national income Employment, Interest and Money' published by John economics to diagnose the reasons of the Great macroeconomics help us understand the trends in Maynard Keynes in 1936 was the Depression in the 1930s. 'The General Theory of Gandhian Age Macroeconomics. Today, principles of influential book which laid the foundation of

Principal Principal Stee Narayana College, Alathur Palakkad-678 682, Kerala A. Birch

these variables

Economics Economics

Economics

CORE 3

ECO3 B03

QUANTITATIVE

METHODS FOR

Students of economics should have sound quantitative

ECONMIC ANALYSIS I skills to collect, analyse and interpret empirical data. They also require these

economics. Quantitative skills have become an essential

skills for advanced studies in quantitative

are used in the study of economics at the undergraduate level. introduction to quantities methods and tools that toolkit for most branches of economics. This course is intended to provide students an

Economics CORE 4

Eco3B04

Micro Economics 11 market concepts and structures. The This course is designed to introduce fundamental

and market. Micro economic analysis to the decision making of firms the student coupled with the use of the principles emphasis of the course is to give conceptual clarity to

Principle phathor

CONSTITUTION AND INDIAN

FEDERALISM POLITICS: Tounderstandtheprocess ofconstitution of india come

intoexisistence, its salient features

Economics

COMPLEMENT/ICP4(3) CO2

its philospical base, fundamendal rigts, duties.

METHODS FOR QUANTITATIVE

ECONOMICS ANALYSIS II

Economics

CORE 5

ECO4 B05

statistics and mathematics that This course is designed to transmit the body of basic

enables the study of economic theory at the undergraduate level. The aim of this course is to

and to enable them to apply statistical equip the students to quantify economic variables techniques in Economics.

MACROECONOMICS Macroeconomics emerged as a separate discipline following the failure of classical

Economics

CORE 6

ECO4 B06

Depression in the 1930s. The General Theory of economics to diagnose the reasons of the Great Employment, Interest and Money' published by John

us explore and understand the determinants of short run fluctuations and long run movements in its principal there were here. employment, price level and investment. It also helps Maynard Keynes in 1936 was the macroeconomics help us understand the trends in Macroeconomics. Today, principles of influential book which laid the foundation of aggregate variables like national income

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COMPLEMENT, HIS4(3) C01

Economics

THE PRESENT):II HISTORY (1857 TO

MODERN INDIAN

Colonialism and National Movement from the Gandhian disciplines of History as complementary course. The to be introduced to the students of allied Movement. This course covers the History of History focusing the Colonialism and National focus of this course is on the Modern Indian This course is the Second of the two courses designed

Economics CORE 7

ECO5 B07

FISCAL ECONOMICS

country. It is related to decision government. The basic aim of this course is to making in the public sector or finance of the

Fiscal economics deals with the fisc (treasury) of the

Age to the Age of Globalization.

decision making in fiscal economics methods and principles of Economics for introduce students to the application of the techniques

DEVELOPMENT **INDIAN ECONOMIC**

Economics

CORE 8

ECO5 B08

of the key issues facing the The course is designed to expose the learners to some

the government in various economic spheres. The appreciate and learn to critically assess the role of expected to be sensitised about these issues this process, as young adults, students are learners are also exposed to numerical Indian economy both at national and regional levels. In



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economic future of India. economic events and visualise the are expected to develop analytical skills, interpret the economy and India's economic policies. They

Economics CORE 9

ECO5 B09

CAPITAL MARKET **ECONOMICS OF**

including India has led to unprecedented The financial sector liberalization across the world

growth in the financial sector, especially in the capital

market, leading to the introduction of new

and diversified financial instruments and financial

opportunities to the students of economics. This course

practices, providing ample career

opportunity to familiarize with the basic concepts

financial markets and to give them an

related to capital market which they read in

in their daily walks of life

newspapers and hear and see through electronic media

students of economics to the changing world of

is designed to give an exposure to the

information relating to various aspects of Indian

ECO5 B10 **ECONOMICS** MATHEMATICAL

CORE10

analytical and mathematical in structure. are used for economic analysis. Modern economics is Mathematical economics is an approach where mathematical symbols and theorems possess a good proficiency in the fundamental economics. Every student of economics must influenced the whole body of the science of Thus the language of mathematics has deeply significant developments in Economics is the methods of mathematical economics. One of the

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increased application of quantitative methods and econometrics. A reasonable understanding of econometric principles is indispensable for further studies in economics

Economics	Economics	Economics
CORE 12	CORE 11	OPEN COUR
ECO6 B12	ECO6 B11	OPEN COURSE ECO5 D01
INTERNATIONAL ECONOMICS	ECONOMICS	EVERYDAY LIFE
International economics deals with the economic relations among nations both	This course intends to familiarize the students with the basic concepts in financial economics along with some of the basic models which are used to benchmark valuation of assets and derivatives. These include the CAPM, and the Binomial Option Pricing models	This course is an open course which will be offered to only those students for whom Economics is not the core course.



trade and financial relations—A good understanding in international economics is necessary for a student of economics and those who wish to work in these areas or governmental organizations. The basic aim of this introductory course on international economics is to present before the students the questions, and answers, related to international economic relations

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ECONOMIC DEVELOPMENT OF

THOUGHT

Economics

CORE 13

ECO6 B13

analysis.: The main goal of this course is to provide thinking and economic also led to familiarize with evolution of economic thought. In addition students are students with understanding of historical This course presents review of the history of economic

- i) Developments in major field of economics
- ii) Schools of thought in economics
- contemporary times iii) Works of some great economist from antiquity to

ECONOMICS OF

GROWTH AND DEVELOPMENT

Economics

CORE 14

ECO6 B14

of economics of growth and development, which draws exciting and challenging subject This course is designed to introduce students to the intends to provide the theoretical framework for from several branches of economics. It

different schools of economic thoughts and also into growth and development discourses under better insights and knowledge on issues and

students the importance of research and its basic tools for understanding the social This course is designed to introduce the undergraduate challenges on economic development

and methods in social research. It helps them participate in the process of economic research. to equip themselves the ability to understand and

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Economics

PROJECT

ECO6 B15(Pr)

Project -viva

reality .lt intends to

Department of Chemistry

	BSc	Pogramme Code
Chemistry	Chemistry	Pogramme Programme Code Name
	CHE1B01	Course Code
Core Course V: Inorganic Chemistry	Core Course I : heoretícal and Inorganic Chemistry	Course Name
2020-21	2020-21	Year of Introduction
	To gain detailed knowledge of the principle of volumetric analysis and properties of s and p block elements. To provide the basic groundwork for a research project. Students will be able to analyse basic theory of acid base concept.	Objective

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		B.Sc		
		Zoology	Chemistry	Chemistry
AL AL	ART SANGO	CHE1C01		CHE2B02
Alahur Ges	Complementary Course V :	Complementary Course I : General Chemistry	Core Course V : Inorganic Chemistry Practical I	Core Course II: Theoretical and Inorganic Chemistry II
			2020-21	2020-21
	2019	2019		
	Principal Alathur Principal College, Alathur	To provide the students a thorough know chemistry of quantitative and qualitative analysis and chemical bonding. It will also impart the ideas about atomic importance of metals in biological systems.	To enable the students to gain skills in preparation of standard solutions and quantitative volumetric analysis.	Module I – To introduce the students to the failures of classical physics theories in explaining many experiments and the emergence of quantum theory with which all of them could be satisfactorily explained. Module II – To enablethe students to understand the the basic postulates of quantum mechanics and how to solve the time-independent Schrödinger wave equation of different systems including H atom. Module III – To introduce the quantum mechanical treatment of chemical bonding in diatomic molecules using VB and MO theories. Module IV - To introduce the students to the quantum mechanical treatment of hybridisation and bonding in polyatomic systems.
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NA.	RAN				
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1004	CHEACOA		CHE3C03		CHE2C02
Chemishy	Complementary Course IV : Physical and Applied	Complementary Course V : Chemistry Practical	Complementary Course III : Organic Chemistry	Complementary Course V : Chemistry Practical	Complementary Course II : Physical Chemistry
6107		2019	2019	2019	2019
2019 on environment.	To provide the students a thorough knowledge about colloidal chemistry, nanochemistry and the importance of chemistry in daily life. It also provides a basic idea related to separation and spectral techniques. It also imparts the idea of green processes with special emphasis		To provide the students a thorough knowledge about basic theory and concepts of organic chemistry.		To provide the students a thorough knowledge about different terminologies in thermodynamics and the continuity between different states of matter. To impart an idea about the basic principles of

ecial emphasis D. D. M. Siee Narayana College, Alaihur Principal College, Alaihur Principal Siee Narayana College, Kerala

			B.Sc	
A COL			Botany	
(3)	CHE2C02		CHE1C01	CHE4C05(P)
Complementary Course V : Chemistry Practical	Complementary Course II : Physical Chemistry	Complementary Course V : Chemistry Practical	Complementary Course I : General Chemistry	Complementary Course V: Chemistry Practical
2019	dification difference to the term of the t	2019	2019	2019
	different terminologies in thermodynamics and the continuity between different states of matter. To impart an idea about the basic principles of		To provide the students a thorough knowledge about the chemistry of quantitative and qualitative analysis and the theories of chemical bonding. It will also impart the ideas about atomic nucleus and the importance of metals in biological systems.	To develop proficiency in quantitative and qualitative analysis and expertise in organic preparation and determination of physical constants.



ене4ç0\$(P)	CHE4C04	CHE3C03
Complementary Course V :	Complementary Course IV : Physical and Applied Chemistry	Complementary Course III : Organic Chemistry Complementary Course V : Chemistry Practical
2019	2019	2019
To develop proficiency in quantitative and qualitative analysis and expertise in organic preparation and determination of physical constants.	To provide the students a thorough knowledge about colloidal chemistry, nanochemistry and the importance of chemistry in daily life. It also provides a basic idea related to separation and spectral techniques. It also imparts the idea of green processes with special emphasis on environment.	To provide the students a thorough knowledge about basic theory and 2019 concepts of organic chemistry.





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NAR NAR NA	A COLL CHE	CHE4C04		CHE3C03
Environmental Chemistry I	Complementary Course V: CHE4C05(P) Chemistry Practical	Complementary Course IV : Physical and Applied Chemistry	Complementary Course V : Chemistry Practical	Complementary Course III : Organic Chemistry
To give awarness about environment - Atmosphere, Lithosphere, Hydrosphere, Tools and technique in 2019 environment science	To develop proficiency in quantitative and qualitative analysis and expertise in organic preparation and determination of physical	To provide the students a thorough knowledge about colloidal chemistry, nanochemistry and the importance of chemistry in daily life. It also provides a basic idea related to separation and spectral techniques. It also imparts the idea of green processes with special emphasis on environment.	2019	To provide the students a thorough knowledge about basic theory and 2019 concepts of organic chemistry.

DEPARTM EWM5D01 EWM4B04P2 EWM4B04T Management Water Quality and Chemistry Practicals course) Everyday Life (Open Chemistry in Chemistry Practicals Chemistry II Environmental Chemistry Practicals 2019 Analysis, Solid waste management and Environmental Issues 2019 water, soil and air. 2019 preservation. 2019 analysis in water and soil. Pollution, Waste-water treatment Introduction and discussion about Water quality, Water surfactants, Food poisoning, Green Chemistry, Water To provide basic knowldege in Soaps, detergents and To develop practice in quantitative and qualitative analysis in pollutants, Food adulteration, Methods and principles of food Introduction to Toxicology, Biological concept relating to To develop proficiency in quantitative and qualitative

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III SEM BA/B.Sc	BA/B.Sc B	I SEM BA/BSc/B. Com	Pogramm e Code COMMON
EUGLISH ECONOMICS MATHS CHEMISTRY BOTANY	AA COL		Programme Name
ENG3A05	ENG2AO3 ENG2AO4	ENG1A01	Course Code
SIGNATURES: EXPRESSING THE SELF	WRITING FOR ACADEMIC AND PROFESSIONAL SUCCESS ZEITGEIST: READINGS ON CONTEMPORARY CULTURE	TRANSACTIONS: ESSENTIAL ENGLISH LANGUAGE SKILLS WAYS WITH WORDS:LITERATURE S IN ENGLISH	Course Name
To enable the students to read and critically appreciate the different genres of self expression and understand how	To develop writing skills required for academic writing. To gain an understanding To inculcate the values enshrined in the constitution of India. To familiarise the students with the vital	To impart the necessary English language skills to	Objectives
Students acquire the ability to read and critically appreciate the different genres of self expression and understand how personal narratives intersect with the larger social realities.	Learners acquire the skills required for academic writing and apply the conventions of academic writing integrating writing and thought correctly. Learners inculcate the values enshrined in the constitution o India. Understand the vital concerns of the world like environmental degradation, marginalization. Acquire values of human understanding, mutual respect and cultural incusion.	learners acquire the necessary English language skills to enable the learners to express themselves fluently and and accurately in a variety of contexts. Students are develop an interest in reading and in appreciating and discussing literature. They become acquainted with the different genres and literary styles of a text.	Outcome

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		II SEM BA		I SEM BA		IV SEM BA/B.Sc	
ELINICALIONIVI		ENGLISH	FUNCTIONAL	FUNCTIONAL		ENGLISH ECONOMICS MATHS CHEMISTRY BOTANY ZOOLOGY	ZOOLOGY
FEN3BO4	FEN3BO3	FEN1(2)CO2	FEN2BO2	FEN1(2)CO1	FEN1BO1	ENG4A06	
APPLIED PHONETICS	LANGUAGE AND TECHNOLOGY	CULTURAL STUDIES: PERSPECTIVES IN CULTURE	ADVANCED ENGLISH GRAMMAR	LITERATURES IN ENGLISH: FROM CHAUCER TO PRESENT	COMMUNICATION SKILLS IN ENGLISH	SPECTRUM: LITERATURE AND CONTEMPORARY ISSUES	
To understand English Phonetics and its	To help learners understand the impact of communication	Enables the students to anaylse and explain major theories that influenced and came	To enable students to use English correctly and confidently in	To create in the student an overall perspective of the History of English Literature,major	To develop confidece and fluency in the use of English in all	To expose the learners to issues of globalization, xenophobia, racism, war, discrimination against minorities. To inculcate the spirit of	personal narratives
Acquire the skill in handling the target language effectively in an internationally acceptable manner and develop skill in	To help learners Learners realize the new methods of instructional practices understand the impact using communication technology and acquire the skill of of communication using the internet and smartphones for better	Learners will be able to discover the contours of Cultural Studies as a field of inquiry. They are equipped to use interdiscplinary critical perspectivesto examine the diverse meanings of cultural objects and processes.	Through exposure to advanced level of grammar, students improve their skills to speak and write English accurately.	Learners become familiar with the various movements and ages in English Literature. Get acquaited with great classics in English Literature.	Learners improve their ability to express themselves in in formal and informal situations. Attain mastery in all macro skills of English	The learnersbecome aware of issues of globalization, xenophobia, racism, war, discrimination against minorities. Develop a spirit of universal brotherhood and undergo a positive change in societal perception.	



		IV SEM BA										
	FUNCTIONAL ENGLISH		ENGLISH									
FEN4BO7	FEN4BO6 FEN4(3)CO1	FEN4B05	FEN4(3)CO2									
TRANSLATION STUDIES	BUSINESS ENGLISH LITERATURES IN ENGLISH:AMERICAN AND POST COLONIAL	FUNDAMENTALS OF LINGUSTICS	CULTURAL STUDIES:									
To make students familiar with the basic	business correspondence and acquire practical knowledge in it. To equip them with better employability skills. To create in the student an overall perspective of the History of American and Post Colonial	To familiarize students with the origin, history and development of language particulary To help students learn	Enables the students to anaylse and explain major theories that influenced and came out of Cultural Studies.									
Learners gain an overall view of the basic theories of translation. Acquire skill in translating various kinds of texts.	Learners develop the ability to prepare various forms of business correspondence. Develop their emplyability skills. Learners become familiar with the various movements and ages inAmerican and Post Colonial Literature. Get acquaited with great classics in this field.	To familiarize students The learners understand the relationship between linguistics with the origin, history and related disciplines. Acquire the ability to use linguistics and development of as a tool in understanding and processing written or spoken language particulary text. To help students learn	Learners will be able to discover the contours of Cultural Studies as a field of inquiry. They are equipped to use interdiscplinary critical perspectivesto examine the diverse meanings of cultural objects and processes.									





					V SEM BA																					
				FNGLISH	FONCTIONAL																					
FEN5BO9															FEN4BO8											
						COMMUNICATION	THEATRE FOR														PRINT MEDIA					
	dramatic forms.	their ideas throuh	and give expression to	stimulate creativity	theatre practice. To	them tomodern	practice. To introduce	communication	creative	powerful medium of	performance as a	history of theatre and	understanding of the	To impart a general		media professionals.	equip them to be print	newspaper so as to	writing for the	basic training in	print media. To give	fundamentals of to	history and	theories, concepts,	awareness of the basic	To create an
											1	and conceptualizing and implementing theatrical practices.	theatre of the east and the west. Gain ability in analsing plays	Learners become familiar with the theorues of drama and										practice.	awareness of the basic knowledge of the fundamentals of media writing through	Gain knowledge of the history of the media and functional



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FEN6B12	FEN6B11	FEN5D01	FFN5B10
ELECTRONIC MEDIA	ENGLISH LANGUAGE TEACHING	ENGLISH FOR COMPETITIVE EXAMINATIONS	CONTEMPORARY LITERARY THEORY
To give students basic training in writing for electronic media and practical skills needed for working in this field.	earners nd the basic s and practical	To introduce learners to the core areas of English often tested in Competitive exams and to make them equipped to fare well in the English components of these exams through practice.	To familiarize students with contemporary literary theories and enhance their taste of research.
Learners become familiar with the fundamentals of Electronic Media and acquire basic skills in using them.	Learners achieve the rudimentary skills for being a successful English teacher and also acquire better communication and presentation skills.	Learners get an idea of how to prepare for competitive exams. They improve their competence and confidence in attending the English components of competitive examinations.	theories and develops a critical perspective in approaching literary texts.

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		The state of the s			200
	course of study.	0	7	NOW THE PERSON OF THE PERSON O	L
N. D.	gained through the	(TD	*		
	knowledge and art				
	topicbased on the	Project Work t	FEN6B16		
study.	writing on a			FUNCTIONAL	V and VI F
on the knowledge and art gained through the course of	doingresearch and c				
Acquires skill in doing research and writing on a topic based	To develop skill in $\int \mathcal{L}$				
	role of advertising in	PRACTICE			
the importance of creativity in advertising.	understanding of the t	THEORY AND	FEN6B15	-11	
Identify the role of advertising in the corporate world and	To gain an	ADVERTISING:			
			,		
	cinema as an art form.				
	skills to appreciate				
	analytical and critical	FILM STUDIES	FEN6B14		
	develop in them				
	discipline and to				
develop skills to appreciate film as an art form.	to fil studies as a				
Acquire an understanding of the aesthetics of cinema and	To intoduce students				
	faculties.				
	and analytical				
	to develop their critical				
	theough practice and				
	writing talents			ENGLISH	
	ignite their creative	C. C		FUNCTIONAL	VI SEM BA
	creative writing. To	CREATIVE WRITING	FENGR13		
	different genres of				
	components of				
their writing skils.	concepts and				
styles. Develop ability to critically analyse texts and prune	learners with the basic				
Learn to identify and appreciate various genres and writing	To familiarize the				

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inception to the
Literature from its
in Indian English
trends and movements
students with various
to familiarize the
The course is intended
origin to the present.
Language from its
History of English
overview of the
The course offers an
literature of the 19th
trends in British
students to various
to introduce to
The course is intended
Chaucer to the 18th
literature from
trends in British
students to various
to introduce to
The course is intended

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II SEM									
ENG2C07		ENG2C06	ENG2C05				ENG1A01		
LITERATURE	AMERICAN	AND THEORY - PART		1940	TWENTIETH CENTURY BRITISH LITERATURE UPTO			WRITING SKILLS	
Literature from the early colonial period to the 20th century	This course is aimed at acquainting students with the dominant trends in American		To introduce students to the major theories	century upto 1940.	students to various trends in British literature of the 20th	The course is intended to introduce to	kinds of writing.	the linguistic, cognitive and logical skills	To Impart practical skills in writing to students.To develop
R. Dindy	Students get acquainted with the dominant trends in American Literature from the early colonial period to the 20th century	approache a literary text from varied perspectives.	Students to the major theories of literary analysis in the west and in India. They are equipped with critical faculty to		major author and their works.	Students understand the various trends in British literature of the 20th century upto 1940 and become familiar with the			Students gain practical skills in writing and develop the linguistic, cognitive and logical skills required for different kinds of writing.

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			ENG3C10	682	IAL	
		AND THEORY - PART		* 30		
analysis in the west and in India.		LITERARY CRITICISM		Yous	1	
To introduce students to the major theories of literary	To introduce students		EMOSCOS			
	literature after 1940.	1940	ENGRODO			
	trends in British	LITERATURE POST				
authors and their works.	students to various	CENTURY BRITISH				
literature after the 1940s and get exposed to the major		TWENTIETH				
Students become familiar with various trends in British	The course is intended					1
			ENG2A02			
	and non-literary texts.					
	translation of literary	PRACTICE				
	training in the	THEORY AND				
	and to offer them	TRANSLATION				
and gain skill in translation of literary and non-literary texts.	students with the core					·
Students home femilies with the core translation theories			EMOZCOO			
			ENIC 3C 08			
	resistance to it.					
	colonialism and					
	with a history of					
	people from countries	WRITINGS				
	writings produced by	POSTCOLONIAL				
	impacts,through					
colonialism and resistance to it.	and its cultural					
writings produced by people from countries with a history of	explores colonialism					
and understand colonialism and its cultural impacts,through	Postcolonial literature					
Students become familiar with major Post colonial writings	This course on					

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			III SEM	
ENG4V01	ENG4P01	ENG3C11	ENG3E04	
COMPREHENSIVE VIVA VOCE	DISSERTATION	ENGLISH LITERATURE IN THE 21ST CENTURY	INTRODUCTION TO LINGUISTICS WORLD DRAMA	
To test the knowledge acquired in the different areas of study.	To inculcate research aptitude and develop critical faculty.	The course is intended to introduce the students to current trends in British literature.	nature and organization of language, the history of linguistics and its key concepts. The course is intended to familiarize the students with various trends and movements in drama around the world from its inception to the present.	To familiarize the
Student exhibits the knowledge acquired through different areas of study	Student gains a research aptitude and develops critical faculty.	Students get acquainted with the major writers and their works in English.	of language, the history of linguistics and its key concepts. Students become familiar with the various trends and movements in drama around the world drama from its inception to the present.	Learners are familiarized with the nature and organization



ENG3E14								ENG3E10							ない な									
		FICTION	INDIAN ENGLISH													FILM STUDIES		4						
	the present.	from its inception to	in Indian English fiction	trends and movements	students with various	to familiarize the	The course is intended				cultural texts.	works of art and	watching and films as	the different ways of	students to explore	film theories. Enables	the world, and major	movements around	studies, different film	key concepts in film	cinema, some of the	language and history	students with the	To familiarise
					present.	movements in Indian English fiction from its inception to the	The students get acquainted with various trends and	watching and films as works of art and cultural texts.	They acquire the skill in exploring the different ways of	film movements around the world, and major film theories.	cinema, some of the key concepts in film studies, different	Students become familiar with the language and history												

DEPARTMENT OF MICROBIOLOGY



	GENERAL MICROBIOLOGY	Pogramm e Code Programme Nai Course Code Course Name
The objective of this course is to enhance and develop knowledge on microbial growth, culture media, modes	are designed to gain knowledge about the history of microbiology, eukaryotes and prokaryotes, ultrastructure of bacteria, microscopy and sterilization concepts. The learner will acquire basic knowledge about the	Objectives
CO1 Discuss the environmental and nutritional factors affecting the microbial growth and classify them according to these. CO2 Describe the mechanism of nutrient transportation across the bacterial membranes. CO3 Explain the preparation of various cultural media and to distinguish them for microbial cultivation CO4 Differentiate various cultural methods and preservation techniques CO5 Illustrate the reproduction systems and the growth phases of bacteria and bacteriophages CO6 Examine various methods for estimation of microbial cells. CO7 Analyze the taxonomy of		

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*Alathur	WAR THE NAR THE STATE OF THE ST	MBG4B05(P)		MBG3B03											
	Soil And Agricultural	Practical I	Microbiology	Microbiology	Sanitation										
	: This course prepares the student to address pressing environmental challenges by developing a fundamental understanding of the microbial communities and microbial processes in soil. It provides a brief exploration of plant pathogens and biofertilizers			metabolism	and xenobiotic	microbiology, solid	water and soil	understanding of air,	acquires basic	sanitation microbiology. Learner	environmental and	principles of	students with basic	communicate the	This course aims to
Principal College	CO1 Ro Distings in soil a concep bid Differen microb Explain t differe			xenobiotics and related environmental problem	with their mode of transmission CO6 Discuss the concept of	procedures and the tests for the microbiological examination of water COS Explain air borne and water borne diseases	factors affecting them CO4 Compare the water purification	distribution in aquatic environment with special emphasis on	bioremediation and bioleaching CO3 Discuss the microbial	distribution CO2 Explain the methods of waste water treatment, air sampling, solid waste management,	CO1 Describe the organisms in air with their sources and				

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and enumeration of microbes from various samples	techniques	Practical I	MBG4B05(P)	
microorganisms CO6 Demonstrate techniques for isolation	and enumeration	Microbiology		
effect of various factors influencing the growth of	microbial cultivation			
microorganisms in a microbiological lab. CO5 Determine the	staining techniques,			
Prepare different types of media for the cultivation of	microscopy, different			
similar places where hygiene has to be maintained. CO4	instruments,			
sterilization procedures in a microbiology laboratory and	laboratory			
common methods of sterilization and to apply the	techniques, usage of			
the staining for microscopic visualization CO3 Acquaint with	skills in aseptic			
Learner acquires basic Microscopy in microbiological studies CO2 Apply the skill of	Learner acquires basic			
CO1 Familiarize with parts of a microscope and apply light				



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BSc M												1						
Microbiology																		
										MBG5B06								
										Industrial Microbiology								
property rights.	and intellectual	recovery of a product	fermentation and	strain development,	on isolation, screening,	Imparting Knowledge	fermentation process.	parameters in a	and process control	Industrial Microbiology sterilization methods	media formulation,	fermenter and design,	fermentation,	concepts of	Understand the basic	Learner will		
intellectual property rights related to microbial products.	production of microbial metabolites. CO6 Discuss different	fermentation products. CO5 Demonstrate industrial	Compare various techniques used for the recovery of	industrially important microorganisms and products. CO4	on isolation, screening, upstream processing and downstream processing of	methods for screening, isolation, improvement of strain,	significance in fermentation process. CO3 Explain different	various types CO2 Discuss the media formulations and their	CO1 Describe basic concepts of a fermentation process with									



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regulatory practices and policies	industry.			Fifth sem
CO9 Discuss the concept of quality control in food,	microbes in the food			
chemical methods	applications of			
CO8 Explain preservation of food by various physical and	and the significant			
groups of microorganisms	associated with food			· ·
Discuss major food borne diseases caused by different	microorganisms			
to the microbial spoilage of different kinds of foodCO7	harmful role of			
benefits of SCP, probiotics and prebiotics CO6 Gain an insight	beneficial as well as			
and non-dairy food products and understand the health	acquainted with the			
knowledge about microbial production of fermented dairy	: The learner will get	(Bototoomiss		
microbiological examination of milk. CO5 Acquire in-depth	<u>1</u>	Microbiology	MBG5B07	
milk. CO4 Differentiate different methods used for the				
properties of milk and types of microorganisms present in				
to contaminants CO3 Illustrate the physical and chemical				
inections to detect microbes in food, with special importance				
methods to date their growth in food. CO2 Explain major				
narameters offerting the control of				
exist in different food its				
CO1 Memorize the types and important				

R. Dine

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* Alathur		が変数	AL CONTRACTOR	27																					
lathur	2000 CO	19	233																						
	MBG5D02	MBG6B16 (Pr)	MBG6B12(P)													MBG5B08									
	Open course- for other departments	Project Work	Microbiology Practical		MBG5B09										Ş	Immunology									
					Medical Microbiology-I	approach	including its molecular	and immunotherapy	immunoprophylaxis	ule students to	the students to	understand Tumor	applications. To	technology etc and its	reaction, hybridoma	antigen antibody	the salient features of	system. To understand	human immune	organization of the	and structural	history of immunology	understanding on the	Demonstrate an	
1,000				laboratory diagnosis of various bacterial infections also will be studied.	in impart knowledge of the basic principles of microbial infection. Apart from the mechanism of pathogenesis, morphological, cultural, biochemical, epidemiological and	options of tumor development	mechanisms, immunological responses and treatment	and graft rejection reactions Discuss the causes, molecular	the types and mechanisms of hypersections. CO7 Describe	Immunological tolerance. CO5 Classify antigen-antibody	Demonstrate the significance of MHC, C system and	structure and basic features of antigen and antibody. CO4	generation of immune responses CO3 Illustrate the types	and organs CO2 Recognize the cellular coordination in the	CO1 Explain the biological functions of various immune calle										

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			The learner gets an	
			opportunity to analyze	
			the molecular	
			concepts of cell cycle	CO1 Summarize the mendelian and non mendelian concepts
			and its regulation,	inheritance CO2 Explain the concepts of linkage, crossing
			recombinant DNA	over and recombination CO3 Illustrate the cell cycle events
			technology & other	and its regulation mechanisms in eukaryotes CO4
	MBG6B10	Genetics and genetic	socio-economically	Demonstrate the recombination frequency as a tool of gene
		engmeeting	relevant molecular	mapping in eukaryotes and gene transfer techniques as a
			technologies. To give a	technologies. To give a tool in prokaryotes. CO5 Describe the pathways of cell cycle
			basic understanding	and their regulation strategies adopted by eukaryotic cells.
			on the scope and	CO6 Discuss the molecular mechanisms behind the
			importance of genetics	importance of genetics programmed cell death and the inter-relation of death
			by imbibing the	pathway with the cell cycle and immune response. CO7
			principles of	Explain the principle behind rDNA technology, DNA
			hereditary genetic	sequencing, PCR and their applications in biological sciences.
			transmission and	CO8 Discuss the development of GMOs and its potential risks
			interactions of genes	and benefits on the environment CO9 Critical & ethical
Sixth sem			with the environment	



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G. C.	

						MBG6B11					
					;	II	Medical Microbiology				
classification	antibiotics and their	understanding of	Develop a brief	immune-prophylaxis.	protozoal disease and	viral, fungal and	knowledge on various	The learner acquires			
mode of action and mechanism of antibiotic resistance.	administration CO5 Distinguish antibiotics classes, their	Compare different types of vaccines and their routes of	helminth infections and infections caused by flagellates CO4	diseases of humans such as malaria ,amoebiasis and	emerging fungal diseases CO3 Explain important protozoan	control of important fungal diseases of humans including	symptoms, pathogenesis, transmission, prophylaxis and	pathogenesis, transmission and prophylaxis. CO2 Analyze	viral diseases, with special emphasis on symptoms,	CO1 Discuss the important viral diseases including emerging	

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to impart effective science e, ducation at the undergraduate level; Creating scientific temper; s to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of	palynology.	natural resources	Botany	BOT1B01T	Palynology	B.Sc
to impart effective science e, ducation at the undergraduate level; Creating scientific temper; s to develop an environmental concern in all activities of the syllabus emphasizes the urgent need to conserve nature	angiosperms. 6. Realize the significance and applications of	of of			Botany &	,
to impart effective science e, ducation at the undergraduate level; Creating scientific temper; s to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to	organs. 5. Explain various developmental details of	conserve nature			Reproductive	
art effective e e , ducation at dergraduate Creating fic temper; s to p an nmental nmental rn in all activities otto of the s emphasizes	secondary (normal and anomalous) structures of plant	the urgent need to			Anatomy,	
art effective e e , ducation at dergraduate Creating fic temper; s to p an nmental n in all activities its. 'Go green', otto of the	tissues and their functions. 4. Illustrate primary and	syllabus emphasizes			Angiosperm	
art effective e e , ducation at dergraduate Creating fic temper; s to pp an nmental nmental rn in all activities its. 'Go green',	inclusions of plants and their significance. 3. Differentiate	the motto of the				
art effective e e , ducation at dergraduate Creating fic temper; s to p an nmental n in all activities	observing anatomical features. 2. Understand the non-livin	students. 'Go green',		d		
ffective ducation raduate ing imper; s	Demonstrate the ability to differentiate plant organs by					
ffective ducation at raduate ing imper; s to	By the end of the course, students are expected to: 1.	concern in all activities				
ffective ducation at raduate ing imper; s to		environmental				
ffective ducation at raduate ing inper; s to		develop an				
n at		mper; s				
at		level; Creating				
at		the undergraduate				
		science e , ducation at				
		to impart effective				
Course Code Course Name objectives Outcomes	Outcomes	objectives	Course Name	Course Code	Name	Code
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natural resources	Botany	BOT2B02T	Pathology	0.50
without destruction c			Plant	S S
conserve nature		,	Lichenology &	
the urgent need to			Niycology,	
syllabus emphasizes			Microbiology,	
the motto of the				
students. 'Go green',				
of the				
concern in all activiti				
environmental				
develop an				
scientific temper; s t				
level; Creating				
the undergraduate				
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to impart effective				

science e, ducation at the undergraduate level; Creating scientific temper; s to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of Realize the significance of plant diseases as far as crop production is concerned.

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Bryology & Pteridology Phycology, **BOT3B03T** Botany of the scientific temper; s to environmental develop an level; Creating the undergraduate science e , ducation at natural resources conserve nature the urgent need to syllabus emphasizes students. 'Go green', concern in all activities to impart effective the motto of the

develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of bryophytes and pteridophytes. 3. Understand the economic natural resources and ecological importance of lower plant groups.

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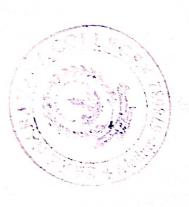
natural resour	Botany	BOT4B04T	Plant Science	B.Sc
without destru			Perspectives in	
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the motto of the		4		
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	to impart effective science e, ducation at the undergraduate level; Creating scientific temper; s to	
	develop an	
	environmental	
	concern in all activities	
	of the	
	students. 'Go green',	
	the motto of the	By the end of the course, students are expected to: 1.
	syllabus emphasizes	Develop scientific temper and problem solving skills. 2.
	the urgent need to	Undertake scientific projects and prepare project reports 3.
	conserve nature	Summarize, organize and display quantitative data and
	without destruction of	without destruction of $ $ derive conclusions 4. Prepare permanent slides, applying the
Г Botany	natural resources	





natural resources	Botany	вот4в05Р	Plant Science	R Sc
without destruction of			perspectives in	
conserve nature			and	
the urgent need to			Methodology	
syllabus emphasizes			Pteridology,	
the motto of the			Bryology &	
students. 'Go green',			Phycology,	
of the			Pathology,	
concern in all activities			Plant	
environmental			Lichenology,	
develop an			Mycology,	
scientific temper; s to			Microbiology,	
level; Creating			Palynology,	
the undergraduate			Botany,	
science e , ducation at			Reproductive	
to impart effective			Anatomy,	
			l Angiosperm	
			Practical Paper	



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B.Sc																
y & Evolution BOT5B06T	Phytogeograph	Palaeobotany,	Gymnosperms,													
вотѕво6т	_															
Botany																
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	

By the end of the course, students are expected to: 1.

phytoeographic zones of India.

and realize the changes happened 5. Recognize the

Understand the role of gymnosperms as a connecting link between pteridophytes and angiosperms 2. Appreciate the process of organic evolution. 3. Realize the importance of fossil study. 4. Understand the climatic conditions of the past



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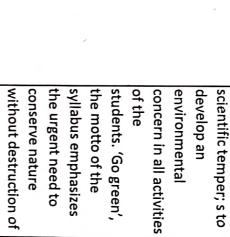
science e the under level; Cre scientific develop a environm concern ir of the students. the motto syllabus e the urgen conserve	Morphology &
to impart science e the under level; Cre scientific develop a environm concern i of the students. the motto syllabus e the urgen conserve	-
to impart science e the under level; Cre scientific develop a environm concern in of the students. the motto syllabus e the urgen	Angiosperm
to impart science e the under level; Cre scientific develop a environm concern in of the students. the motto syllabus e	
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to impart science e the under level; Cre scientific develop a environm concern in of the students.	
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reating mental esources e , ducation at emphasizes to of the in all activities ergraduate destruction of their attitude towards over exploitation of rare/endemic nt need to temper; s to t effective nature . 'Go green', of plants. 5. Realize the importance of field study. 6. Change Appreciate the diverse morphology of angiosperms. 2. structures of plants. 4. Develop the skill of scientific imaging Make scientific illustrations of vegetative and reproductive Identify and classify plants based on taxonomic principles. 3. By the end of the course, students are expected to: 1.



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B.Sc				
Tissue culture, Horticulture, Economic Botany & Ethnobotany				
вот5в08Т				
Botany				
syllabus emphasizes the urgent need to conserve nature without destruction of natural resources	of the students. 'Go green', the motto of the	scientific temper; s to develop an environmental concern in all activities	to impart effective science e, ducation at the undergraduate level; Creating	



struction of |Experiment on the subject and try to become entrepreneurs. 4. Identify the economically important plants. Critically evaluate the advantages of tissue culture and Apply various horticultural practices in the field. 3. horticulture over conventional methods of propagation. 2. By the end of the course, students are expected to: 1.



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Cell Biology & Biochemistry BOT5B09T Botany	BOT5809T	B.Sc									
	Botany	Biochemistry	Cell Biology &								
Botany		вотѕвоэт									
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B.Sc															
General Botany BOT5D01 T	CHOICE I	OPEN COURSE -													
BOT5D01 T															
Botany					v										
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective
Realize the importance of plants in everyday life.	Develop environmental concern in all their activities. 3.	general awareness on various branches of plant science. 2.	By the end of the course, students are expected to: 1. Have a												



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it need to nature of the nental ating estruction of vegetative propagation methods in everyday life. 4.Realize n all activities temper; s to rgraduate , ducation at mphasizes 'Go green', effective the economic importance of plants science. 2.Realize the role of plants in everyday life. 3.Apply By the end of the course, students are expected to: 1. Develop general awareness on applied aspects of Plant

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Palakkad-678682, Kerala

natural resource	Botany	вот5003 т	Culture	B.Sc	
without destruct			Basic Tissue		
conserve nature			CHOICE III		
the urgent need			OPEN COURSE -		
syllabus emphas					
the motto of the					,
students. 'Go gr					
of the					
concern in all ac					
environmental					
develop an					
scientific tempe					
level; Creating					
the undergradua					
science e , ducat					
to impart effecti					
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method. 2. Explain the steps involved in tissue culture. 3. Realize the applications of plant tissue culture By the end of the course, students are expected to: 1. Understand plant tissue culture as a rapid propagation

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B.Sc															
Plant Breeding BOT6B10T															
Botany															
natural resources	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	

crop productivity. of inheritance. 5. Understand various plant breeding techniques. 6. Realize the role of plant breeding in increasing problems related to classical genetics. 4. Predict the pattern Understand the basic principles of inheritance. 3. Solve Appreciate the facts behind heredity and variations. 2. By the end of the course, students are expected to: 1.



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Bioinformatics	Biology &	Molecular	Biotechnology,													
вот6в11Т															,	
Botany																
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	



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By the end of the course, students are expected to: 1.

Analyze the role of biotechnology in daily life. 2. Understand the basic aspects of bioinformatics. 3. Explain the concepts in molecular biology.



	natural resources	Botany	вот6в12Т	Metabolism	B.Sc
	without destruction			Physiology &	
to impart effective science e, ducation the undergraduate level; Creating scientific temper; s t develop an environmental concern in all activit of the students. 'Go green' the motto of the syllabus emphasizes the urgent need to	conserve nature			Plant	
to impart effective science e, ducation the undergraduate level; Creating scientific temper; st develop an environmental concern in all activit of the students. 'Go green' the motto of the syllabus emphasizes	the urgent need to				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; s to develop an environmental concern in all activities of the students. 'Go green' the motto of the	syllabus emphasizes				
to impart effective science e , ducation the undergraduate level; Creating scientific temper; s t develop an environmental concern in all activit of the students. 'Go green'	the motto of the				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; s t develop an environmental concern in all activit of the	students. 'Go green',				
to impart effective science e , ducation the undergraduate level; Creating scientific temper; s t develop an environmental concern in all activit	of the				
to impart effective science e , ducation the undergraduate level; Creating scientific temper; s t develop an environmental	concern in all activiti				
to impart effective science e , ducation the undergraduate level; Creating scientific temper; s t develop an	environmental				
to impart effective science e , ducation the undergraduate level; Creating scientific temper; s t	develop an				
to impart effective science e , ducation the undergraduate level; Creating	scientific temper; s t				
to impart effective science e , ducation the undergraduate	level; Creating				
to impart effective science e , ducation	the undergraduate				
to impart effective	science e , ducation				
	to impart effective				

ities 6 at each cell. 4. Appreciate the energy fixing and energy plants. 3. Explain the metabolic processes taking place in Identify the physiological responses of plants. 2. Analyze the releasing processes taking place in cells. role of external factors in controlling the physiology of By the end of the course, students are expected to: 1.



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to impart effective science e , ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all active of the students. 'Go gree the motto of the syllabus emphasizes the urgent need to conserve nature without destruction without destruction to impart effective science e , ducation develop an environmental environ	natural resources	Botany	BOT6B13T	Science	
to impart effective science e , ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all active of the students. 'Go gree the motto of the syllabus emphasize the urgent need to conserve nature	without destruction			Environmental	
to impart effective science e, ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all action of the students. 'Go gree the motto of the syllabus emphasize the urgent need to	conserve nature				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all action of the students. 'Go gree the motto of the syllabus emphasiz	the urgent need to				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all action of the students. 'Go gree the motto of the	syllabus emphasiz				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all action of the students. 'Go gree	the motto of the				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all action of the	students. 'Go gree				
to impart effective science e, ducation the undergraduate level; Creating scientific temper; develop an environmental concern in all activ	of the				
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ion of izes een', Ö ivities By the end of the course, students are expected to: 1. Realize 5. Analyze the reasons for climate change and find out ways environmental concern in all their actions and practise to combat it. throwing away plastic wastes. 4. Spread awareness of the environmental hazards and change their attitude towards the importance of ecological studies. 2. Develop Reduce, Reuse and Recycle. 3. Try to reduce pollution and need of conservation of biodiversity and natural resources.



Principal Alathur College, Alathur Sree Narayana College, Kerala Sree Narayana 678 682, Kerala

B.Sc																
Engineering	Genetic							The state of the s								
BOT6B14T (E1) Botany																
Botany																
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natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	Ō	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	

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cOURSE OUTCOMES (COs) By the end of the course, students
are expected to: 1. Appreciate various techniques employed
in genetic engineering. 2. Develop general awareness on
genetically modified organisms. 3. Understand the ethical,
social and legal issues associated with genetic engineering.

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Sree Narayana Culiuge, Aluthur

palakkad-678 682, Kerala

palakkad-678 682, Kerala

natural resourc	BOT6B14T (E2) Botany	Systematics	B.Sc	
without destru		Angiosperm		
conserve natur		Advanced		
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the undergrad				
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green', ed to hasizes ective activities duate uction of |and better way. 3. Apply imaging technologies in plant per; s to cation at systematics. Demonstrate ability to identify and classify plants in a faster Develop deep knowledge in angiosperm systematics. 2. By the end of the course, students are expected to: 1.



Principal Principal Sree Narayana College, Alathur Palakkad-678 682, Kerala

B.Sc								i i								
lmp	Crop	Ger						71.								
Improvement	ס	Genetics and														
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BOT6B14T (E3) Botany								15								
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Г (E3)																
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natural resources	out de	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	e	ern in	environmental	develop an	tific t	level; Creating	the undergraduate	ce e ,	to impart effective	
sourc	estruc	nature	neec	npha	of the	Go gr		all ac	ental	٠	empe	ting	gradu	ducat	effecti	
es	without destruction of		to	sizes	U	een',		concern in all activities			scientific temper; s to		ate	science e , ducation at	Ve	
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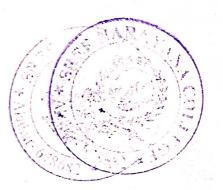


By the end of the course, students are expected to: 1.

d to
Understand various techniques employed for increasing crop
productivity. 2. Identify diseases affecting crop plants. 3.
ction of Attain general awareness on various crop research stations
of the country.

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Palakkad- 67.8 682, Kerala

B.Sc										for a					
Biochemistry	Biol. &	Ethnobot. Cell	Econ. Botany,	Horticulture,	Tissue culture,	Systematics,	Morphology,	y, Angiosperm	Phytogeograph	Palaeobotany,	Gymnosperms,	ī. 	Practical Paper-		
вот6в15Р															
Botany															



to impart effective
science e, ducation at
the undergraduate
level; Creating
scientific temper; s to
develop an
environmental
concern in all activities
of the
students. 'Go green',
the motto of the
syllabus emphasizes
the urgent need to
conserve nature
without destruction of
natural resources

P. Dividia

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Palakkad-678 682, Kerala

B.Sc																
Science	Environmental	Physiology &	Biology, Plant	Molecular	Biotechnology,	Breeding,	III: Genetics, Pl.	Practical Paper-								
вот6в16Р																
Botany																
natu	with	cons	the u	sylla	the r	stud	of the	conc	envir	deve	scien	level	the u	scien	to im	
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	O .	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	



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Principal Sree Narayana College, Alathur Palakkad-678 682, Kerala

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B.Sc																3 1
Y	METHODOLOG	RESEARCH	WORK/	17: PROJECT	CORE COURSE											
BOT6B17T	BT6B17Pr															
Botany																
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	



R. Birely

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Angiosperm Anatomy & Microtechniqu	G G
Angiosperm Anatomy &	
Angiosperm	

estruction of $\lfloor (normal and anomalous)$ structures of plant organs. 5. Apply the histochemical techniques in laboratory works. $|\mathsf{B}\mathsf{y}|$ the end of the course, students are expected to: 1. Explain anatomical features. 4. Illustrate primary and secondary of plant organs. 3. Identify plant organs by observing primary and secondary (normal and anomalous) structures the types, structure and functions of plant tissues. 2. Explain

R. Dink

Principal Stee Narayana College, Alathur Palakkad-678 682, Kerala

B.Sc																
Pathology	& Plant	Gymnosperms	Cryptogams,													
вот2с02Т																
Botany																
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	



need to
Analyze the role of the lower plants in the process of
ature
evolution. 2. Explain the ecological significance of lower
plants. 3. Identify plant diseases and take remedial measures
to control them.

Sree Warayana College, Alrun,

natural resources	Botany	вотзсозт	Horticulture	R SY
without destruction			Breeding &	
conserve nature			Botany, Plant	
the urgent need to	Al		Economic	
syllabus emphasiz			Botany,	
the motto of the			Systematic	
students. 'Go gree			Morphology,	
of the				
concern in all activ				
environmental				
develop an				
scientific temper;	,			
level; Creating				
the undergraduat				
science e , ducatio				
to impart effective				

bus emphasizes erve nature rgent need to ents. 'Go green', ern in all activities onmental lop an itific temper; s to ındergraduate nce e , ducation at npart effective notto of the ; Creating

but destruction of $|\mathsf{plants}\ \mathsf{5.}\ \mathsf{Understand}\ \mathsf{the}\ \mathsf{basic}\ \mathsf{principles}\ \mathsf{of}\ \mathsf{plant}\ \mathsf{breeding}\ \mathsf{6.}$ Apply various horticultural practices in the field. structures of plants 4. Identify the economically important By the end of the course, students are expected to: 1. Make scientific illustrations of vegetative and reproductive Identify and classify plants based on taxonomic principles 3. Appreciate the diverse morphology of angiosperms. 2.



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B.Sc																
Genetics	Ecology &	Physiology,	Plant													
BOT4C04T																
Botany																
natural resources	without destruction of	conserve nature	the urgent need to	syllabus emphasizes	the motto of the	students. 'Go green',	of the	concern in all activities	environmental	develop an	scientific temper; s to	level; Creating	the undergraduate	science e , ducation at	to impart effective	

reating e nature to of the mental c temper; s to s. 'Go green', destruction of of conservation of biodiversity and natural resources 5. Solve ent need to emphasizes in all activities

problems related to classical genetics

basic principles of heredity and variation. 3. Realize the the physiological processes in plants. 2. Understand the By the end of the course, students are expected to: 1. Explain

importance of ecology. 4. Spread awareness of the necessity

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without destruction of
the urgent need to
syllabus emphasizes
the motto of the
students. 'Go green',
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concern in all activities
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DEPARTM ENT OF

MATHEMA TICS

Pogramme	Pogramme Programme				
Code	Name	Course Sode Coorse Name	objectives	Outcomes	
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B.Sc				B.Sc									
Mathematics				Mathematics									
MTS2B02				MTS1B01									
Calculus of Single variable-1				Number Theory	Basic Logic and								
differential calculus. 3.sketching of curves.	2. theorems of	continuity and differentiability	1. Ideas of limit,	methods	proof, using proof	of writing a formal	3.Develope the ability	and also to make Valid	mathematical terms	precise and concise	2.To express ideas in	systematically.	1.To think

arguments.	and also to make valid	mathematical terms	precise and concise	2.To express ideas in	systematically.	1. lo think

- 1. Prove results involving divisibility 2. Solve linear congruent equations.
- 3. Understand the theory and method of solutions of LDE

engineering, economics and other fields. Solving problems in physics, chemistry, biology,





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B.Sc Mathematics I												
MTS3B03												
variable-2	Calculus of Single											
function.	general exponential	function and also the	3.Natural exponential	evaluation	their convergence and	2. Improper integrals,	examined.	properties are	defined and its	logarithm function is	1.The natural	

with the problems involving geometry of lines, curves,

Students will be able to handle vectors in dealing

planes and surfaces

plane and space given in vector valued form

in space and have acquired the ability to sketch curves in



R. Bindy

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B.Sc Mathematics MAT5B05 Vector calculus	Mathematics MTS4B04 Linear Algebra																	
	explored	these areas are	fundamental results in	discussed and	and dimension are	spanning vectors, basis	The idea of a subspace, algebra	spaces are studied.	properties of vector	examples and general	space 3.Several	concept of a vector	algebra namely the	central topic of linear	2. the introduction of	equations	a system of linear	1. Methods for solving
	already know	general vector space is in fact an abstraction of what they	fundamental results in scalar multiplication will make them realize that the idea of a	and their algebraic properties under vector addition and	matrix The familiarity of the students with planar vectors	spanning vectors, basis and also to calculate the inverse and determinant of a	, algebra	The student will become competent to perform matrix										



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Palakkad- 678 682, Karale

equations given by Carden and Ferrari respectively	degree.3.Group,Ring	Abstract algebra	MAT5B06	Mathematics	B.Sc
polynomial	fourth				
Derive formulae for the solutions of third and fourth degree	equations of third and				
	forsolving polynomial				
	2.Derive a formula				
	taking roots.				
	and				
	ultiplication, division				
	addition,subtraction,m	4			
	operations of				
	involves only the		The second second		
	of polynomials that			THE RELATIONS	
s	in terms of coefficients				
	polynomial equations				
	1. Solutions of				



P. D. Principal Principal Principal Principal College, Alathur Palakkad-678 682, Korala

B.Sc	B.Sc	B.Sc	T to
Mathematics	Mathematics	Mathematics	
MAT6809	МАТ5В08	MAT5B07	
Real analysis	Differential equations	Basic mathematical analysis	
State the definition of continuous functions, formulate sequential criteria for continuity and prove or disprove continuity of functions using this criteria	what an ODE is, what it means by its solution, how to classify DEs, what it means by an IVP	prepare them for further work in mathematical analysis and other fields of knowledge, and also to develop their ability to analyse and prove statements of mathematics using logical arguments	Provide students with a level of mathematical sophistication that will
Understand several deep and fundamental results of continuous functions on intervals such as boundedness, theorem, maximum-minimum theorem, intervals of arayana Collegions of theorem, preservation of interval theorem and so on the collegions of the core and so on the core and so	They will learn a method to approximate the solution successively of a first order IVP. They will become familiar with the theory and method of solving a second order linear homogeneous and nonhomogeneous equation with constant coefficients.	Learn to prove Archimedean property, density theorem, existence of a positive square root for positive numbers the learning will help them to appreciate the beauty of logical arguments and embolden them to apply it in similar and unknown problems	

B.Sc Mathematics MAT6B10 Complex analysis																		
	integral, its properties	definition of complex	to understand	properties.	analysis and their	functions of complex	elementary analytic	to know a few	analytic functions	connection with	functions and their	to know of harmonic	checking analyticity.	sufficient condition for	necessary and	to understand		
		application of residue theory in locating the region of zeros														,		



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Principal May Sree Marayana College, Alathur Palakkad-678 682, Keraia

	B.Sc	B.Sc							B.Sc			B.Sc															
	Sc	Sc							ŠĊ.			ď															
(イングング)	Mathematics	Elective Course							Mathematics			Mathematics															
3	**************************************	Elective Course MAT6B13(E02)		À					МАТ6В12			MAT6B11															
	Project/viva	903	Linear Programmin						linear algebra	Number theory and		Numerical methods					¥										
		these problems	simpler nature of	advantage of the	algorithms that take	problems by	and assignment	solve transportation	Vector Space, Basis.	Theorem.	Chinese Remainder	approximate solution	the accuracy of the	to ascertain	make an error analysis	methods and also to	solution by analytical	actual/closed form	or hard to find the	where it is impossible	areas of mathematics	problems in several	numerical solution to	approximate	and algorithms to find	Provide techniques	
		use of condensed tableau of A.W. Tucker.	problems more effectively using Simplex algorithm via. the	2. Understand the drawbacks of geometric methods .solve LP	1.solve linear programming problems geometrically				function.	application of CRT in different areas		well known interpolation techniques	Understand the concept of interpolation and also learn some	transcendental equations with desired accuracy.	out the approximate numerical solutions of algebraic and	fixed point iteration method, regula falsi method etc. to find	Understand several methods such as bisection method,										

Primorpal
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Palakkad-678 682, Kerala

M.Sc	M.Sc	M.Sc		B.Sc	B.Sc
COLLECE TROPE		Mathematics		Complementar y courses	Open Course for other departments(V th Semester)
1CO3	MTH1C02	MTH1C01	MTS2C02	MTS1C01	MAT5D02
Real Analysis I	Linear Algebra	Algebra- I	Mathematics-2	Mathematics-1	Mathematics For N
Basic Topololgy Finite, The Riemann Stieltjes Integral (Continued) - Integration of Vector vector-valued Functions, Rectifiable curves	Vector Space,Basis,LT	Group,Rings,Fields	Graphing in polar coordinates- Checking symmetry of graphs given in polar equation, drawings, tangents to graph in polar coordinates	Product and quotients- product, quotient, reciprocal & integral power rule	1.Mean,Median,Mode, 2.Probability distributions
Applications	Applications	Applications	Parametric curves- parametric equations of lines and circles, tangents	Linear Approximation and Tangent Lines- equation of tangent line and linear approximation, illustrations	Data Analysis

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M.Sc								M.Sc					M.Sc		M.Sc			M.Sc			M.Sc	
	8														Audit Course							
MTH2C08	4774		i i i					MTH2C07					MTH2C06		MTH1A01			MTH1C05			MTH1C04	
Topology								Real Analysis II					Algebra- II		Course	Enhancement	Ability	Number Theory			Mathematics	Discrete
of Normality	Normality, Tietze Characterisation	The Urysohn Characterization of	Separation Axioms,	Compactness and	Separation Axioms,	Hierarchy of	Separation Axioms:	and Approximation	spaces : Completeness	Integration,Lp	Lebesgue		fields	Galois Theory, Finite				Symbol	Residues,Legendre	Quadratic	graphs	Automata, Different
Application in different branches of Mathematics								Problem Solving				71 0 71 1	Application in Cryptography					Applications			Apllication	



R. Dinky

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M.Sc	M.Sc	M.Sc
PROFESSIONAL COMPETENCY COURSE		
	MTH2C10	MTH2C09
Technical writing with LATEX	Operations Research	ODE & Calculus of Variations
	Integer Programming; Sensitivity Analysis	Some special functions of Mathematical Physics, Systems of First Order Equations; Non linear Equations
	Problem Solving	s Problem Solving





M.Sc
<u>×</u>
MTH 3C11
Multivariable Calculus & Geometry
Level surfaces, Ruled surfaces and surfaces of revolution. Application s of the inverse function theorem, Lengths of curves on surfaces. Equiareal maps and a theorem of Archimedes. The second fundamental form, The Gauss and Weingarten maps, Normal and geodesic curvatures. Gaussian and mean curvatures, Principal curvatures of a surface
Practical application

R. Quella principal principal Sree Narayana College, Alathur palakkad-878 882; Karata

	M.Sc	M.Sc	M.Sc	
のいという	Elective Course (Third (Third			The state of the s
	TSey N/O	MTH 3C14	MTH 3C13	
	Coding theory	PDE & Integral Equations	Functional Analysis	
	Cyclic linear codes, polynomial encoding and decoding, dual cyclic codes, BCH linear codes, Cyclic Hamming code, Decoding 2 error correcting BCH codes	Integral Surface.Heat ,wave Equation	Hilbert spaces: Basic notions; first examples, Cauchy- Schwartz ineaquality and Hilbertian normBessels ineaquality, Completes ystems, Gram-Schmidt orthogonalization procedure, orthogonal bases Parseval' identity; Projection; orthgonal decompositions; Separable case	
	tion	Problem Solving	Decomposition problems	
onneipal	Raine			

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palakkad-678 682, Korala

Practical application	Kummers Lemma,	Theory	MTH4E06	Semester)	M.Sc
		Algebraic Number		(Fourth	
	Elementary			Elective Course	
	Some history,				
	Fermats Last Theorem		274	164	
	a Rational Prime,				
	Group, Factorization of				
	Finiteness of the Class-				
	An Existence Theorem,				
	Lst, The Class-Group				
	theorem, The Space				
	Torus, Minkowski			100	
	Lattices, The Quotient				
	150				
Practical application	sets	Functional Analysis	MTH4C15		M.Sc
	Separation of Convex	Advanced			
	Hahn Banach theorem,				
	Linear functionals;the				
	in Banach spaces,				
	theorem, Bases				
	The Banach- Steinhaus				
	Theorem			Sall A	
	The closed graph				
				M. T.	



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M.Sc	M.Sc	M.Sc			5 ,							M.Sc						
		Semester)	(Fourth	Elective Course								Semester)	(Fourth	Elective Course				
MTH4 V01	MTH4P01	MTH4E11										MTH4E09						
Viva Voce	Project	Graph Theory									4	Geometry	Differential					
		Theorem	Number, Vizings	Edge Chromatic	Problem,	Personnel Assignment	Perfect Matchings, The	Bipartite Graphs,	and Coverings in	Matchings, Matchings		Integrals	Arc Length and Line	Curves,	Curvature of Plane	, The Weingarten Map,	Transport	Geodesics, Parallel
		Application										Practical application						(A)

R. Bine

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