



S N M COLLEGE, MALIANKARA

Maliankara P O, Moothakunnam Via., Ernakulam (DT), Kerala - 683 516

(Affiliated to Mahatma Gandhi University, Kottayam)

Accredited by NAAC with – B++ Grade

Phone: 0484 2482386, 2483600, Mobile : 9495742386

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This is to certify that the Programmes mention below in which Choice Based Credit System (CBCS)/ elective course system has been implemented at the institute

| Programmes | Description |
|---------------|--|
| BA English | <ol style="list-style-type: none">1. To sensitize students to the language, forms and types of poetry, fiction, prose, film and drama2. To help them read, critically analyse and appreciate poetry, fiction, prose, film and drama.3. To sensitize students to the nuances of spoken and written forms of English4. To update and expand basic informatics skills and attitudes relevant to the emerging knowledge society5. To familiarize students with the concepts of copy- editing and impart to them basic copy-editing skills. |
| BA Malayalam | <ol style="list-style-type: none">1. In-depth understanding of the language and culture, as well as the history and origin of Malayalam.2. This course will also teach you literature, literary criticism, fiction, and Malayalam culture.3. It's a great way to improve your communication skills and learn about the language's culture. |
| BSc Physics | <ol style="list-style-type: none">1. Physics including phenomenology, theories and techniques, concepts and general principles.2. This should also support the ability to ask physical questions and to obtain solutions to physical questions by use of qualitative and quantitative reasoning and by experimental investigation.3. The important student attributes including appreciation of the physical world and the discipline of Physics, curiosity, creativity and reasoned skepticism and understanding links of Physics to other disciplines and to societal issues should give encouragement. |
| BSc Chemistry | <ol style="list-style-type: none">1. Introduction to fundamental aspects of general and physical chemistry.2. Students will learn the laboratory and practical techniques needed for the later years of the course.3. Students have to choose and elective paper on applied chemistry as well. |
| BA Economics | <ol style="list-style-type: none">1. To provide students a well-founded education in Economics2. To provide structured curricula which support the academic development of students3. To provide and adapt curricula that prepare our graduates for employment and further study as economists4. To provide the students with the opportunity to pursue courses that emphasize quantitative and theoretical aspects of Economics5. To provide students with the opportunity to focus on applied and policy issues in Economics6. To provide programmes that allow the students to choose from a wide range of economic specialization7. To provide a well-resourced learning environment for Economics |



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| BSc Mathematics | 1. The syllabi are framed in such a way that it bridges the gap between the plus two and post graduate levels of Mathematics by providing a more complete and logic frame work in almost all areas of basic Mathematics |
| B Com Finance and Taxation Model II | 1. To equip the students with the skill of preparing accounts and financial statements of various types of business units other than corporate undertakings 2. To familiarise the students with Income Tax Act 1961 and to enable the students to compute. |
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| BSc Botany | 1. Understand the universal nature of science Demonstrate the use of scientific method 2. To lay a strong foundation to the study in Botany 3. Impart an insight into the different types of classifications in the living kingdom. 4. Appreciate the world of organisms and its course of evolution and diversity. 5. Develop basic skills to study Botany in detail. |
| B Com Office Management and Secretarial Practice | 1. To understand business and its role in society 2. To have an understanding of Business ethics and CSR 3. To comprehend the business environment and various dimensions 3. To familiarise Technology integration in business 4. To introduce the importance and fundamentals of business research |
| BBA | 1. To train the students to be competent entry level management professionals. 2. To impart basic and operational knowledge on all functional areas of management. 3. To encourage young BBA'S to turn in to entrepreneurs. 4. To make young BBA'S a change agent in the society by fostering values which self-proclaim that "Turn to enterprising serve the society and the nation". |
| B Com Computer Application | 1. To make the students aware of the role of information technology in business and make them capable of developing web pages for business |
| BSc Zoology | 1. Acquire basic knowledge of various disciplines of Zoology and General Biology meant both for a graduate terminal course and for higher studies. 2. Inculcate interest in nature and love of nature. 3. Understand the rich diversity of organisms and their ecological and evolutionary significance 4. Imbibe basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation 5. Create awareness on the internal harmony of different body systems and the need for maintaining good health through appropriate lifestyle. 6. Acquire basic knowledge and skills in certain applied branches for self employment 7. Impart awareness of the conservation of the biosphere. |
| MSc Physics | 1. To impart high quality education in Physical Sciences. |



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| | <p>2. To prepare students to take up challenges as globally competitive physicists/researchers in diverse areas of theoretical and experimental physics.</p> <p>3. To make the students technically and analytically skilled.</p> <p>4. To provide opportunity of pursuing high end research as project work.</p> |
| MSc Botany | <p>1. To encourage a clear, comprehensive and advanced mastery in the field of Botany.</p> <p>2. To provide basic principles of biological sciences with special reference to Botany and its applied branches.</p> <p>3. Enabling the students to explore the intricacies of life forms at cellular, molecular and Nano level.</p> <p>4. To sustain students' motivation and enthusiasm and to help them not only to appreciate the beauty of different life forms but also to inspire them in the dissemination of the concept of biodiversity conservation.</p> <p>5. To develop problem solving skills in students and encourage them to carry out innovative research projects thereby enkindling in them the spirit of knowledge creation.</p> <p>6. To maintain a high level of scientific excellence in botanical research with added emphasis on the role of plants in the structure and functioning of terrestrial and aquatic communities and ecosystem</p> <p>7. To equip students to perform functions that demand higher competence in National/International fields.</p> |
| MSc Zoology | <p>1. To provide quality education in Zoology with different specializations and motivate the students for self-employment in applied branches of Zoology.</p> <p>2. To inculcate the spirit of natural resource conservation and conduct filed studies and different projects of interests in Zoology.</p> |
| MSc Mathematics | <p>1. To improve the perspective of students on mathematics as per modern requirement.</p> <p>2. To enhance the logical, reasoning, analytical and problem solving skills of students.</p> <p>3. To orient students towards relating Mathematics to applications.</p> <p>4. To help the student build interest and confidence in learning the subject.</p> <p>5. To cultivate a research culture in young minds.</p> <p>6. To encourage students for pursuing higher studies in mathematics.</p> <p>7. To ultimately see that the learning of mathematics becomes more alive, vibrant, relevant and meaningful; a program that paves the way to seek and understand the world around them.</p> <p>8. To motivate students to uphold scientific integrity and objectivity in professional endeavours.</p> |
| MCom | <p>1. To equip the students to apply accounting standards and deal with advanced practical areas related to valuation, amalgamation, specialised areas</p> <p>2. To have a basic understanding on developments in accounting</p> |
| MSc Chemistry | <p>1. Through lectures, laboratory work, exercises, project work, and its independent master's thesis, students will gain knowledge about relevant working methods for research, industry, administration, and education.</p> <p>2. The Master's degree program in Chemistry lays the foundation for doctoral programs in Chemistry.</p> |




Principal In Charge
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| MA Malayalam | <ol style="list-style-type: none"> 1. In-depth understanding of the language and culture, as well as the history and origin of Malayalam. 2. This course will also teach you literature, literary criticism, fiction, and Malayalam culture. |
| MA Economics | <ol style="list-style-type: none"> 1. To give students knowledge in the various fields of Economics and an in-depth understanding of the theoretical and empirical constructs in the field of Economics. 2. To disseminate awareness and appreciation of the complexity of socio-economic interdependence and change. 3. Application of economic theories and dilating problem-solving acumen. 4. Preparation for advanced studies leading to M. Phil. and PhD. 5. To equip students with a set of tools of econometrics, which would help them to solve real-world problems 6. Develop the powers of inquiry, critical analysis, logical thinking, and your ability to apply theoretical knowledge to current issues of policy and practice in economics. 7. Encourage initiative, independent learning, awareness of analytical and theoretical approaches in the field of economics, exposure to recent research and state-of-the-art tools in applied for work in economics |
| Integrated PG Programme In Statistics | <ol style="list-style-type: none"> 1. Understanding about the Origin and growth of statistics, Statistics defined-Statistical data, Statistical method 2. Acquire knowledge about Functions of Statistics 3. Awareness of Applications of Statistics, Limitations of Statistics |

Date:10-06-2021



Head of the Institution

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This is to certify that the list of courses in which Choice Based Credit System (CBCS)/ elective courses system has implemented in the programmes mentioned below

Department of Zoology

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|---|---|
| 1. | ZY6CBT04 | Nutrition, Health & Life Style Management | 1. To understand principles of nutrition and its role in health |

Department of Physics

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|--|--|
| 1 | PH800301 | Digital Signal Processing | To study about discrete time systems and to learn about FFT algorithms. To study the design techniques for FIR and IIR digital filters. |
| 2 | PH800402 | MicroElectronics and Semiconductor Devices | To expose to the students to the architecture and instruction set of basic microprocessors. This course also covers fundamentals of semiconductor devices and their processing steps in detail. The student will be able to use the knowledge of semiconductor fabrication processes to work in industry in the area of semiconductor devices. |
| 3 | PH800403 | Communication Systems | To understand the basic concepts of different communication systems. |
| 4 | PH800302 | Advanced Practicals in Electronics | To understand about the practical knowledge for microprocessor, programming, electronic instrumentation and communication |
| 5 | PH5OPT02 | Physics in Daily Life (open course) | To understand the fundamental physics to all |



Department of Chemistry

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|----------------------------------|--|
| 1 | CH6CBT02 | NANOCHEMISTRY AND NANOTECHNOLOGY | <ul style="list-style-type: none"> Understand about nanoparticles and various Nanostructures Discuss electrical and Optical properties of Nanomaterials Describe and use different approaches in Nanoparticle synthesis Characterize materials in Nanometre dimension Explain synthesis and properties of CNTs Discuss and correlate nanotechnological aspects in the field of health care, and electronics Determine the use of Nanomaterials in medical field |
| 2 | CH 80 04 01 | ADVANCED INORGANIC CHEMISTRY | <ul style="list-style-type: none"> To analyse and apply group theoretical principles in hybridisation technique of molecules, in complexes for explaining well known theories. To have a knowledge about the preparation and characteristics of nanomaterials, metal organic frame works and types of supramolecules |
| 3 | CH 80 04 02 | ADVANCED ORGANIC CHEMISTRY | <ul style="list-style-type: none"> To analyse and interpret molecular recognition and supramolecular chemistry, to study the basic principles of green chemistry, the method of biosynthesis and biomimetic synthesis, to learn the importance of drug design and different categories of polymers . To understand the basic principles of research and how to write a scientific report |
| 4 | CH 80 04 03 | ADVANCED PHYSICAL CHEMISTRY | <ul style="list-style-type: none"> To know the excited states involved in a photochemical reaction, to analyse and apply diffraction methods and atomic spectroscopic techniques. The students should be able to apply theories in electrochemistry to analyse the kinetics of electrode reactions. |



Department of Mathematics

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|---------------------|---|
| 1 | MM6CBT01 | OPERATIONS RESEARCH | <ul style="list-style-type: none"> • Translate the real-world problems in to corresponding LPP. • Understand the concepts of duality in LPP • Identify the Transportation Problem and formulate it as an LPP and hence solve the problem • Understand the concept of game theory • Determine that an Assignment problem and hence solve |
| 2. | ME810401 | Probability Theory | <ul style="list-style-type: none"> • Solve problems by applying probability laws and theoretical results • Identify an appropriate probability distribution for a given discrete or continuous random variable and use its properties to calculate probabilities • Calculate moments and analyse the concept of inequalities. • Apply results from large-sample theory and the Central Limit Theorem to approximate a sampling distribution • Interpret selected probability distributions to solve problems |
| 3 | ME810402 | Operations Research | <ul style="list-style-type: none"> • Solve various types of Dynamic Programming problems • Understand the theory of games for solving simple games • Explain Birth Death processes • Analyse the performance measures of Queueing models. • Describe different inventory models • Interpret model formulation used in solving business decision problems |
| 4 | ME810403 | Coding Theory | <ul style="list-style-type: none"> • Explain the basic concepts of coding. • Express decoding methods for BCH codes • Discuss the details of abstract algebra and finite fields. • Design simple cyclic codes with required properties. |



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| | | | <ul style="list-style-type: none"> • Apply various algorithms and techniques for coding • Understands binary symmetric channel |
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Department of English

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|------------------------|---|
| 1. | EN6CBT01 | Comparative literature | <p>On completion of the course, the student should be able to:</p> <ol style="list-style-type: none"> 1. Develop strategies and methodologies in the study of literatures in comparison. 2. Undertake a methodological investigation of problems involving more than one literature so that she/he may acquire a broader sense of literary history and tradition. 3. Critically analyze literary texts in a broader perspective of World Literature. |

Department of Malayalam

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|---|---|
| 1 | ML6CBT01 | MALAYALATHILE STHREE RECHANAKAL | Understand the conditions of women in Kerala based on women's writings. Understand women's empowerment and opportunities. Analyze the role of women in spirituality and political power |
| 2 | ML8000401 | VIVARTHANA SAHITHYAM | Familiarize yourself with theoretical and practical aspects of translation and translation works. Analyze the relationship between Malayalam literature and other literature. Realize and implement new possibilities |
| 3 | ML8000402 | DALITH-STHREE- PARISTHITHI SAHITHYAVICHARAM | To understand and react with environmental, women issues |
| 4 | ML8000403 | CYBER SAMSKARAVUM | Familiarize with theoretical and aesthetic |



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| | | SAHITHYAVUM | considerations of the cyber world Explore how new media influence and determine literary works. |
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Department of Zoology (SF)

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|--|---|
| 1. | ZY 4C ET01 | Environmental Science- Concepts and Approaches | To create a consciousness regarding biodiversity, and conservation strategies |
| 2 | ZY 4C ET02 | Environmental Pollution and Toxicology | To create an awareness regarding environmental issues |
| 3 | ZY 4C ET03 | Environmental Management and Development | To create an awareness regarding environmental issues and impacts |

Department of Commerce-M.Com Finance & Taxation (P G)

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|---|--|
| 1. | CM800301 | Indirect Tax Laws | To have an understanding on the provisions on major Indirect Tax Laws & Rules |
| 2. | CM800401 | Derivatives & Risk management | <ol style="list-style-type: none"> 1. To familiarize with the derivative markets. 2. To evaluate the performance of different forward, futures & options 3. To understand the various future & pricing models |
| 3. | CM800402 | Personal Investment & Behavioural Finance | <ol style="list-style-type: none"> 1. To enable the students to manage their personal finance. 2. Identify systematic behavioral factors influencing investment behaviour. |



Department of Botany

| SI No | Course Code | Name of the course | Objectives of the course |
|-------|-------------|---|---|
| 1. | BO6PET03 | Phytochemistry and pharmacognosy | Understand the structure and function of basic secondary metabolites in medicinal and aromatic plants. Familiarize with the common separation and characterization techniques used in phytochemistry Understand the basic officinal part present in the common medical plants and their use in ayurvedic formulations |
| 2. | BY820401 | Basic concepts in environmental studies | Acquaint the student with the significance of Environmental Science. Enable the students to understand the structure and function of the ecosystems. |
| 3. | BY820402 | Natural resources and their management | Acquaint the student with the significance of Environmental Science. Make the students aware about the various natural resources. |
| 4. | BY820403 | Environmental monitoring and management | Acquaint the student with the significance of Environmental Science. Make the students aware about various environmental laws in India. |

Date: 21-06-2021



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