



A.D.M. COLLEGE FOR WOMEN

(Autonomous)

Affiliated to Bharathidasan University

(Nationally Accredited with "A" Grade by NAAC – 3rd Cycle)

NAGAPATTINAM 611 001.

1.3.1 INSTITUTION INTEGRATES CROSS CUTTING ISSUES RELEVANT TO GENDER, ENVIRONMENT AND SUSTAINABILITY, HUMAN VALUES AND PROFESSIONAL ETHICS INTO THE CURRICULUM

1.3.1 Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum					
Programme	Name of the Course	Relevant Issue			Description
		Gender	Environment & Sustainability	Human Values & Professional Ethics	
B.A., History	CC II History Of India From – History To CE 1206	✓		✓	Displaying knowledge on the development of Indian civilization since pre history. Acquire knowledge on the cultural interactions between various social and communal groups.
	CC XIII Women Through The Ages In India	✓		✓	Gain knowledge about the Position of Women through the ages. Recognize the women's role in Indian Independence Movement.
	MBEI - Human Rights	✓	✓		Analyze the role of great Champions of Human Rights. Gain knowledge on Human Rights and Problems and Resolutions. Acquire Knowledge on Protection of Human Rights in India.

	SBE - I Introduction To Tourism			✓	Analyze the functions of various department in Hotels
	NME II Gandhian Thought			✓	Understand the present and past principles based on Gandhian philosophy. Identify and analyze key concepts of Bagavath Gita faiths. Analyze the issues relating to ethical, non-violence and salt satyagraha.
B.A., Economics	Core course: Indian Economic Development		✓		Enable to students to understand various issues in Indian Economy
	VBE: Value Based Education			✓	Inculcates knowledge of Social Value and personal health
	Core course : Agricultural Economics	✓			To understand the importance of crop insurance
	ES: Environmental Studies	✓			Environmental issues & Problems were discussed
	Core course: Labour Economics			✓	Labour welfare measures were taught in this course
	Soft skill			✓	Highlights the team building positive attitudes
	Major based Elective: Human Resource management			✓	Educates the students to understand the importance of recruitment & selections strategy
	Major based Elective: Entrepreneurship Development	✓		✓	To create knowledge among the students to start a small business
	Gender Studies	✓		✓	Help the students to know Gender related issues
Core course : Industrial Economics	✓		✓	Understand the sources of industrial finance	

M.A., Economics	Core Course: Indian Economic Problems		✓		Tech the students it includes Achievements and shortcoming of paining in Indian
	Elective Course: Environmental Economics		✓		It includes Environmental policy & Sustainable Development
	Core Course: Agricultural Economics		✓		Various Promotional strategies were discussed
	Elective course: Health Economics		✓		Enable the students to understand various health care programmes
	Core Course: Industrial Economics			✓	Wages, labour legislation, labour problems were discussed
	Elective Course: Gender Economics	✓			Women and empowerment is discussed in this course
M .Phil., Economics	Emerging issues in Indian Economy		✓		Environmental issues discussed in this course.
	Core course: Indian Economic Development		✓		Enable to students to understand various issues in Indian Economy
	VBE: Value Based Education			✓	Inculcates knowledge of Social Value and personal health
	Core course : Agricultural Economics	✓			To understand the importance of crop insurance
	ES: Environmental Studies	✓			Environmental issues & Problems were discussed
B.Sc., Mathematics	Major Core - Differential Equations and Laplace Transforms		✓		Contains more applications in Physics and to findout the solution for scientific and real life problems.

Major Core - Graph theory		✓		Operation of Traffic lights and clearance of road blockage can be studied. Also help scientists to identify the correlations to get the point of the experiment across quickly.
Non Major Elective - Mathematics for Competitive Examinations			✓	Shortcut methods in solving Arithmetic reasoning Problems, Puzzles, Time series, Venn Diagram and Logical ability problems are taught.
Major Core - Numerical Methods with C Programming			✓	Numerical Algorithms that use numerical approximation to solve complex mathematical and scientific problems is taught to the students.
Skill Based Elective - Introduction to Fuzzy Mathematics		✓		Fuzzy Mathematics allows for the inclusion of vague human assessments in computing problems. Computing methods based on fuzzy logic in the development of intelligent systems for decision making, identification, pattern recognition, optimization, and control is taught to the students.
Major Elective - Fuzzy Sets and its Applications		✓	✓	Facial pattern recognition, working nature of air conditioners, washing machines and vacuum cleaners, control of subway systems and unmanned helicopters, weather forecasting systems, medical diagnosis and treatment plans, and stock trading can be studied
Major Core – Partial Differential Equations		✓		An in-depth knowledge of solving partial Differential Equations and methods to solve scientific and Engineering Problems are taught.
Major Core – Optimization Technique.		✓	✓	The knowledge of various optimization Techniques to find out the solutions of Integer Programming Problems , Dynamic Programming, Decision Theory are taught to the students.
Major Elective - Stochastic Processes		✓		Representing numerical values of randomly changing over time, such as the growth of a bacterial population.
Major Elective – Operations Research		✓		To formulate the given simplified description of a suitable real work problem as a linear programming models is taught.
Major Core - Fluid Dynamics		✓		Important technological applications of fluid dynamics include rocket engines, wind turbines, oil pipelines and air conditioning systems.

B.Sc., Chemistry	Applied Chemistry		✓		Learn about types and hardness of water and develop skills in preparation of dairy products.
	Pharmaceutical Chemistry		✓		Role of medicinal plants system of Indian medicine
	Agricultural Chemistry		✓		Educating the students about different types of soils, fertilizers and pesticides and its uses.
	Food Science		✓		Identification of food adulteration and healthy food.
M.Sc., Chemistry	Green Chemistry		✓	✓	Ethics and social responsibility for greener synthesis
	Non Conventional Energy Sources		✓	✓	Students are taught how to use renewable sources.
B.Com.,	Core - Marketing		✓	✓	Teaches students how the marketing of product is to be done.
	Core - Business Laws			✓	Teaches students the different ways in which the business can be run legally.
	Core - Banking Theory Law and Practice			✓	Helps the students to understand the day-to-day banking activities.
	Core - Auditing			✓	Develops the skill of maintaining records in an organization.
	Core - Entrepreneurial Development		✓	✓	Entrepreneurial Development Programmes, Nodal agencies, etc. are some of the topics taught in this course.
	Allied - Business Environment		✓	✓	Basic aspects of business environment, Social Responsibility of Business and Business Ethics are the topics taught in course.
	Allied - Business Economics		✓	✓	Application of economic theories in business, various market structures are discussed.
	Allied - Business Communication			✓	Helps to develop their personal business communication skills.

	Allied - Company Law and Secretarial Practice			✓	Teaches the different provisions of Companies act.
	Major Based Elective – Financial Services			✓	Financial services, Mutual Funds, Venture Capital are taught in this course.
	Major Based Elective –Human Resource Management			✓	Teaches human values and ethical ways of running a business.
	Major Based Elective – Investment Management			✓	Teaches how to invest in securities ethically.
	Skill Based Elective – Indirect Tax Laws			✓	Deals with the provisions and procedures in Goods and Services Act.
	Skill Based Elective – Salesmanship			✓	Deals with ethical procedures for a salesman.
	Skill Based Elective – E-Commerce			✓	Technology, Operations, Security and Legal aspects of e-Commerce are taught in this course.
M.Com.,	Core - Managerial Economics			✓	Teaches application of economic theories in managerial decisions.
	Core - Business Environment and Management		✓	✓	Ethical conduct of business is enumerated.
	Core – Marketing Management		✓	✓	Teaches the method to market a product and consumer behavior.
	Core – Corporate Laws			✓	Deals with various acts for conducting business legally.
	Core – Strategic Management			✓	Helps to plan the strategies of a business ethically.
	Core – International Business			✓	Teaches how to enter into international business legally and ethically.

	Core – Human Resource Management			✓	Deals with human values and ethical business conduct.
	Elective – Organisational Behaviour			✓	Leadership styles, Organizational Change and Development are explained.
	Elective – Customer Relationship Management			✓	Teaches human values and ethical way of dealing with consumers.
	Elective – Banking and Financial Institutions			✓	Teaches recent trends in banking services and financial institutions.
	Elective – Teaching and Learning Skills			✓	Deals with teaching skills and recent developments.
	Elective – Security Analysis and Portfolio Management			✓	Teaches how to invest in securities legally.
B.Sc., Zoology	Biology of Invertebrates – (CCI)			✓	Student Interpret the affinities, evolutionary relationships and adaptation of the major taxa and to explain their economic importance with respect to Non Chordates
	Biology of Chordates –(CCII)			✓	Understand the diversity of vertebrates and its outline systematic
	Skill Based Elective I- Apiculture	✓	✓		Be aware of a broad array of career options and activities in human medicine, biomedical research and allied health professions at local or global level
	Non Major Elective I- Public Health and Hygiene/Food and Nutrition			✓	Learn healthy habits to protect yourself from disease and prevent germs and infectious diseases from spreading
	Core Course – IV- Developmental Biology (IV)	✓		✓	Aware of the reproductive cycle, hormones, Birth control.
	Core Course V- Genetics and Microbiology			✓	Introduction to prenatal counselling, amniocentesis is given to the students
	Core Course VI- Environmental Biology,		✓	✓	Focus on the components of environment, and different types of habitat, characteristics of population and community, different fragile ecosystems, different types of disasters and

	Biodiversity conservation and Evolution				the laws for the conservation of environment
	Core Course VII- Biotechnology		✓	✓	The students gain an understanding of sewage treatment, superbug and oil degradation, bio -fuels, biosensors & biochips
	Major Based Elective I- Applied Entomology	✓	✓	✓	Knowledge on biological and chemical control of insect pests and Integrated Pest Management (IPM) is imparted to the students
	Soft Skill Development			✓	Helps the student understand the need for the development of self esteem, team spirit and communicative skills to prepare themselves for self development
B.Sc., Allied Zoology	Entrepreneurial Zoology		✓		Ability to generate employments opportunity in Apiculture, vermiculture, sericulture.
M.Sc., Zoology	Elective – I- Fishery Biology and Fish Processing Technology		✓		Understand and familiarized with construction of pond and its management strategy
	Elective – II- Environmental Toxicology		✓		Learn Solid waste management and its status in India
B.A., English	Core Course -1 Prose			✓	The learners understand the value of books .They also learn to appreciate the values presented by the writers of different ages
	Core Course – II Short Stories			✓	The Short stories emphasis the value of sacrifice, true love and what is real piety.
	Allied Course –I Social History of England			✓	Understanding the social history helps in understanding &appreciating the literary words of the particular period.
	Core Course – III Poetry I			✓	This course helps in enhancing the poetic semibility.
	Core Course – IV Fiction				The learners understand and appreciate the human values presented in the fiction.
	Allied Course II– Literary Forms			✓	The learners understand and appreciate how the human emotions find shape in the various forms.

	Core Course – V Poetry II			✓	The poems selected help learners in understanding basic human values, the value of art and the power of art and the power of nature.
	Core Course – VI One-Act Plays				One Act plays help the learner in understanding the importance of the Ahimsa & non-violence and in the purgation of emotions.
	Core Course – VII– Drama			✓	This course sharpens the dramatic skills of the learners.
	Core Course – VIII- Introduction to Language and Linguistics				This course will enable to the learners to acquire the language skills.
Part-II English	English Language Course - I Prose For Effective Communication			✓	Essay selected emphasis the need for religious harmony, the need for protecting the cultural and tradition and the need for keeping water –resourced unpolluted and water harvesting
	English Language Course – II Poetry For Effective Communication			✓	Poems selected under the title evoke patriotic feelings, help in understanding the value of music and art, they reveal basic human emotion like true love
	English Language Course - III Drama For Effective Communication			✓	Dramas selected in this paper the importance of service organization like Red –cross society ,boost self confidence and the need foe respecting elders
	English Language Course – IV English For Competitive Examinations			✓	This paper help in enhancing in their employability skills.
B.Sc., Physics,	NME -Non Major Elective I - Energy Physics	-	✓	✓	This introduction, emphasis has been placed on the nature and application of the energy sources. World today is switch over to renewable energy. The thrust areas mainly covers programmes, such as, Rural Energy, Solar Energy, Energy from Urban & Industrial Wastes, Power Generation- Wind, Biomass, Small Hydro, New Technologies-Ocean& Geothermal Energy.

	NME - Non Major Elective II – Weather Forecasting	-	✓	✓	It develops fundamental conceptual knowledge of the subject and describes the utility of Physics in daily life.
	SBE –Skill Based Elective II- Biomedical Instrumentation	-	✓	✓	This course emphasis importance of Physics and technology as per social needs.
	CC- Core Course – X III – Nuclear Physics	-	-	✓	The complexities of the Universe are explained to the students.
	MBE – Major Based Elective III- Communications Physics	-	-	✓	It emphasis indigenous contribution in Physics and technology.
	SBE – Skill- Based Elective I- Astrophysics	-	✓	✓	There are various careers possible under this field. First and foremost, the physicists who opt for PhD in Astrophysics can choose to be scientists (i.e. Astronomers) at any of the distinguished Indian research institutes.
B.Sc., Bio Chemistry	CC-Biomolecules			✓	Deals with detail study of definition, classification, structure and cellular functions of its biomolecules carbohydrates, lipids, proteins and nucleic acids.
	CC- Human Physiology	✓		✓	This course is designed to provide students with an understanding of the function & regulation of the human body and physiological integration of the organ systems to maintain homeostasis. Course content will include neural & hormonal homeostatic control mechanisms, as well as study of the musculoskeletal, circulatory, respiratory, digestive, urinary, immune, reproductive, and systems.
	CC- Analytical Biochemistry			✓	Analytical Biochemistry is essentially a conceptual subject requiring you to relate the theoretical background of the various biochemical analytical methods to the practical application of instruments used to carry out the analyses.
	NME-Women and Health	✓		✓	This course is an introduction to the personal and social concerns of women's past and present health trends. Emphasis will be placed on the historical perspective of women's health, including an exploration of psychological, physiological, and social barriers to women's health. The holistic model of wellness will be examined.

NME- Cosmetology			✓	The primary purpose of the Cosmetology course trains the student in basic manipulative skills, safety judgments, proper work habits and desirable attitudes necessary for entry-level position in Cosmetology or related career avenue.
SBE- Herbal Medicine		✓		There is strong demand for alternatives to pharmaceuticals for a variety of common illnesses due to concerns of safety, efficacy, and a desire for more “natural” products. Despite this growing interest, “conventional” healthcare providers may have little to no knowledge about herbal medicines.
CC-Introduction to Enzymology			✓	This course is an introductory and the first course in enzymology designed specifically for students in biochemistry. The course will cover a wide range of subjects such as vitamins and co- enzyme, classification of enzyme, mechanism and kinetics of enzyme catalyzed reaction.
CC- Bioenergetics and metabolism			✓	The series broadly cover the study of chemical processes in living organisms. In this course, students learn about the energy producing pathways of glycolysis, Krebs cycle, oxidative phosphorylation, and fatty-acid oxidation.
MBE- Medical Lab Techniques			✓	Medical Laboratory Technology (MLT) is a branch of science that deals with the diagnosis, treatment and prevention of diseases using clinical laboratory tests. ... While studying this course, candidates are taught about the diseases and the use of medical laboratory equipment in performing clinical tests.
SBE-Food And Nutrition			✓	Aims at developing basic understanding about nutrition, its effect on human health and newer advances in food technology. This course encompasses physiological, biochemical and social aspects of food and discusses relationship The knowledge of nutrition under extreme empowers students' knowledge and skills to utilize food as a powerful tool for physical, mental, and social wellbeing.
CC- Clinical Biochemistry		✓	✓	It focus on scientific discipline within medicine. It includes the analysis of body fluids, cells and tissues and interpretation of the results in relation to health and disease.

	MBE-Biotechnology			✓	Understanding on the Biotechnology of sewage treatment and effluent treatment for tannery, textile and paper industry, bio-monitoring, biopolymers, bio- filters, biosensors, bio-scrubbers, eDNA and bioremediation of heavy metal, oil – “super bug”
	MBE- Bioinformatics		✓		Bioinformatics and Computational Molecular Biology. This course is an introduction to the application of computational methods to biological data analysis and for discovery. The focus will be on computational methods in Genomics and Proteomics.
B.B.A .,	Principles of Management		✓	✓	This Course presents the principles, techniques, and concepts needed for managerial analysis and decision making. It highlights the effective management of planning ,organizing, influencing, and controlling related to the internal and external environment and issues of ethics and social responsibility.
	Organizational Behaviour			✓	Leadership style and Motivation theories are explained.
	Entrepreneurial Development	✓	✓		Women Entrepreneurship, Total Quality Management etc, are some of the ideas taught in this course.
	Business Law			✓	Teaches students the different ways in which the business can be run legally. Laws related to business operations are taught.
	Human Resource Management			✓	Teaches Human values and ethical ways of running a business. Deals with human values and ethical business conduct.
	Enterprise Resource Planning			✓	This course focuses on the systems approach to the planning, analyzing, design , development and evaluation of the supply chain.
	Business Communication			✓	To develop their personal business communication skills.
	Research Methodology		✓	✓	The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative ,qualitative and mixed methods approaches.

	Operations Research	✓	✓	✓	Solving Linear Programming Problem, Graphical Solution Methods, Networking Problems are taught.
	Financial Management			✓	The focus of this course is in the area of Financial Management. We will show managers how to interface with accounting and finance departments.
	Environmental Studies Gender Studies		✓		Teaches students about the various issues that affect the environment. It also highlights different conservation methods to protect and sustain the Environment. Teaches about Feminism and highlights the manner in which women are treated in various parts of the society. The many acts that the government has introduced in order to empower women are elaborated upon.
	Soft Skill Development			✓	Help the student understand the need for the development of self esteem, team spirit and communicative skills to prepare themselves for self development.
	Introduction to Computers and MIS			✓	Help the student understand the Management Information Systems and their role in today's organization.
B.Sc., Computer Science	Computer Organization and Architecture	□			This course qualitatively and quantitatively examines computer design trade-offs and teaches the fundamentals of computer architecture and organization, including CPU, memory, registers, arithmetic unit, control unit, and input/output components.
	ASP.NET Programming			✓	This course provides students with hands on experience using Visual Studio to create dynamic websites with ASP.NET Web Forms and the .NET 4.0 Framework using C#.
	Data Communication Network	✓		✓	Combines multiple layers of defenses at the edge and in the network where malicious actors are blocked from carrying out exploits and threats imposing ethical values.
	Operating Systems	✓		✓	To understand the basic components of a computer operating system, and the interactions among the various components. The course will cover an introduction on the policies for scheduling, deadlocks, memory management, synchronization, system calls, and file systems.

M.Sc., Computer Science	Design and Analysis of Algorithms		✓		This course introduces basic methods for the design and analysis of efficient algorithms emphasizing methods useful in practice. Different algorithms for a given computational task are presented and their relative merits evaluated based on performance measures.
	Artificial Intelligence			✓	Artificial Intelligence (AI) is, explore use cases and applications of AI, understand AI concepts and terms like machine learning, deep learning and neural networks. ... This course can be applied to multiple Specializations or Professional Certificates programs
	Data Science Using Python			✓	Gain the career-building Python skills you need to succeed as a data scientist. No prior coding experience required. In this track, you'll learn how this versatile language allows you to import, clean, manipulate, and visualize data—all integral skills for any aspiring data professional or researcher. Through interactive exercises, you'll get hands-on with some of the most popular Python libraries, including pandas, NumPy, Matplotlib, and many more.
	Ethical Hacking			✓	Ethical Hacking courses are considered to be a part of Cyber Security Courses, as it is a broad term concept, focusing on finding ways to identify flaws, protect the system, as well as discover techniques to protect a system from potential future threats.
	Virtualisation & Cloud Computing			✓	It is designed to provide expertise in virtualization and cloud computing technologies to prepare you for employment in the fast growing fields of virtualization and cloud computing. It is ideal if you are employed or are pursuing employment in a business that includes a virtualization and/or cloud infrastructure and an information technology focus as part of the organization. This program presents the knowledge and skills needed to develop and implement virtualization and cloud computing systems and infrastructure for business and industry.
B.C.A.,	Data Structures and Algorithm			✓	An overview of data structure concepts, arrays, stack, queues, trees, and graphs. Discussion of various implementations of these data objects, programming styles, and run-time representations. Course also examines algorithms for sorting, searching and some graph algorithms.

	Elements of Accounting		✓	✓	This course is a foundation course that provides students with fundamental knowledge of accounting that involves analyzing and recording financial transactions; preparation of income statements, the balance sheet and interpretation of financial income statements; analysis of assets, liabilities and equity; partnerships
	Computer Graphics	✓	✓	✓	Computer Graphics is an art of creating pictures and films using specially developed hardware and software graphics. ... Computer Graphics Courses teach the students about 2D. 3D designs, web designs, animation design, image processing etc. The concept of Physics, Optics, and Geometry are largely used in computer graphics.
	Software Engineering	✓		✓	Follow ethical values during the phases of software product development life cycle.
B.Sc., Geology	Core Course I - The Dynamic Earth		✓		Introduction of the geological process that are dynamically involved in the formation of the planet earth. Evolution of solar system and age of the Earth.
	Skill Course - Climatology		✓	✓	Understanding the way in which the climate affects our everyday lives. To know what the monsoons are and what causes them To designate any climate station under Koppen's and Thornthwaite climatic scheme.
	Core Course III – Physical Geology	✓	✓		Understanding the physical and chemical properties of the lithosphere and atmosphere. To compare and contrast weathering among different rock types and different environments.
	Skill Course – Water quality Analysis			✓	To study the physical properties of minerals. Study the pH and their measurements. Make the students understand water pollution. The Reverse Osmosis system and Gain knowledge on water borne diseases
	ES – Environmental Studies		✓	✓	Teaches students about the various issues that affect the environment and it also highlights different conservation methods to protect and sustain the environment.
	Skill Course – Geostatistics and Computer Application				✓

					A basic, practical understanding of GIS and GPS concepts, techniques and real world applications
	NME I – Fundamentals of Geology		✓	✓	Learn about the endogenic process like earthquake, volcanoes and orogenic activity. Clearly describe plate tectonics in general term. To compare and contrast weathering among different rock types and different environments. To explain the various parts of hydrologic cycle including the interaction of surface and groundwater with the solid Earth.
	CC Core Course - VI – Igneous Petrology		✓	✓	Basic understanding of the mechanism which controls the diversity of igneous rocks and the relationship between tectonic setting and rock suites.
	CC Core Course - VII – Economic Geology	✓	✓	✓	The basic terminology and classification of ore localization. The physical properties of ore minerals. The occurrence and distribution of ore minerals
B.Voc., Marine Food Processing and Preservation Technology	CC- Core Course I Fundamentals of Marine Edible Animals		✓	✓	<ul style="list-style-type: none"> ➤ Living and non-living things in the sea - Marine flora and fauna - Basic characteristics of different sea species - The ocean zones ➤ Memorise the names of some sea creatures - Distinguish between sea animals and plants - Understand the relationship between species. ➤ To build a strong foundation in marine edible products ➤ To prepare Students for career options in aquaculture centres, marine products, etc.
	CC- Core Practical I Anatomy of Marine Edible Animals	✓	✓	✓	<ul style="list-style-type: none"> ➤ Define sea animal ➤ Identify features of different types of sea animals. ➤ To build a strong foundation in marine edible products. ➤ Describe the various types of sea animal.

<p>CC- Core Practical II Harvest and Post Harvest Handling of Fishes</p>		✓	✓	<ul style="list-style-type: none"> ➤ Fishing craft in small-scale fisheries are generally small. They fish the area of the sea close to the shore ➤ Identify features of different types of sea animals. ➤ The gear they use often determines the fishing methods used. As the craft are small, there is very limited space onboard, ➤ which makes proper handling and preservation of the catch difficult.
<p>AC –Allied Course Instrumentation and Computer Applplication in Fisheries</p>		✓		<ul style="list-style-type: none"> ➤ After successful completion of this course students will able handling of spectrophotometer. ➤ Prepare presentation and report on computer system. ➤ Identify the components of a computer system and demonstrate basic proficiency in commonly used applications ➤ Create, design, and produce professional documents using word processing software (i.e., MS Word).
<p>CC - Core Course II Biochemical and Microbial Changes in Fish</p>		✓		<ul style="list-style-type: none"> ➤ Keep track of food’s quantitative importance in the production of farmed fish, which feed resources you use, and the ratios between the energizing nutrient (Protein, fat and carbohydarate) in commercial feeds. ➤ Possess detailed knowledge of the fish digestive system, including a deeper focus on the development of gastrointestinal tract of marine fish larvae.
<p>CC- Core Practical III Chilling Technology</p>			✓	<ul style="list-style-type: none"> ➤ . Explain the benefits of freezing and frozen storage of foods. ➤ Describe and explain the importance of the typical steps in freezing and subsequent freezer storage and distribution of various liquid and solid foods. ➤ Describe the important processes (freezing point depression, subcooling, nucleation, growth and recrystallization) involved in freezing foods and the effects of different extrinsic and intrinsic parameters on freezing of foods.

	<p>CC- Core Practical IV Fish Canning Technology</p>			✓	<ul style="list-style-type: none"> ➤ After completing this course students can able to, Deliver the different unit operations and its equipments involved in fish processing fishing resources. ➤ Develop value added products from fish. Able to know about quality control of fish processing Know about different methods of processing of fish Able to acquire a confident to get placement in any fish processing industry
	<p>AC -Allied Course II General Food Chemistry</p>		✓		<ul style="list-style-type: none"> ➤ Students will be able to name and describe the general chemical structures of the major components foods (water, proteins, carbohydrates, and lipids). ➤ Students will be able to give a molecular rationalization for the observed physical properties and reactivity of major food components.
	<p>CC - Core Course III Food Safety in Seafood Industry</p>			✓	<ul style="list-style-type: none"> ➤ Understand the concept of food safety, types of hazards and their control measures . ➤ Identify and prevent potential sources of food contamination Comprehend the need of hygiene and sanitation for ensuring food safety
	<p>CC – Core Practical V Fish Nutrition and Feed Technology</p>		✓		<ul style="list-style-type: none"> ➤ Have experience with processes both for design and optimizing feed production units, as well as planning and conducting experiments in feed technology. ➤ Practical understanding of both feed ingredients and feed processing. <p>Practical experience from all types of processing commonly used in industrial production of feed.</p>
	<p>CC – Core Practical VI Fish Microbiology and Quality Assurance</p>		✓		<ul style="list-style-type: none"> ➤ Explain the interactions between microorganisms and the food environment, and factors influencing their growth and survival ➤ Describe the characteristics of foodborne, waterborne and spoilage microorganisms, and methods for their isolation

	AC -Allied Course III Fish Processing Technology			✓	<ul style="list-style-type: none"> ➤ List marine and marine based products ➤ Recognize the fish processing and methods ➤ Locate the aquaculture and its functions ➤ Carryout the fish processing
	CC – Core Course IV Packing and Labelling of Fish and Fishery Products			✓	<ul style="list-style-type: none"> ➤ Identifies packing materials like Glass containers, Metal cans, Types of paper packages, Cellophane, LDPE, HDPE, Aluminium foil and Retort pouch ➤ Practises packing of Frozen Material like IQF products, Block frozen Products. ➤ Practises packing methods like, packing on stand pouch, packing in polythene covers. ➤ Categorises the packing of various value added fishery products and by products.
	CC – Core Practical VII Cured and Dried Fishery Products		✓		<ul style="list-style-type: none"> ➤ Polyester polyethylene laminated pouches have been found to be highly suitable for hygienic retail packaging of cured fish products. ➤ Preservation, nevertheless, is still the prime objective of fish smoking in most parts of the world. ➤ Hard woods, such as oak, hickory, cherry, apple and beech, burn to give a smoke with the more phenols, which both preserve and give a characteristic, ‘medicated’ flavours to the product. Dried, Cured and Smoked Products
	CC – Core Practical VIII Fish Products and By Products Technology		✓		<ul style="list-style-type: none"> ➤ Has profound and detailed scientific knowledge and understanding of the (bio)chemical processes in biological raw materials during postharvest storage and their transformation into food products. ➤ Has profound and detailed scientific knowledge and understanding of ecology, physiology, detection, use and combat microorganisms in food systems.

	AC - Allied Course IV Storage and Transportation of Fishery Products		✓		<ul style="list-style-type: none"> ➤ To maintain fish quality, both at sea and onshore, the specification of the production, storage and delivery system should enable the levels and patterns of demand to be serviced at all times. ➤ It is recommended that in most circumstances this is best achieved by the provision of an ice plant at the place of landing. ➤ Where there is a significant supply to vessels, the plant is best located on a dedicated berth that enables direct delivery to the vessels.
	CC – Core Course V Entrepreneurship Development			✓	<ul style="list-style-type: none"> ➤ The amount of subsidies provided is much less with less than 8 per cent of the total value even though challenged internationally. ➤ The marine fisheries sector in India is subsistence fishing and much different from the factory / commercial fishing of developed countries. ➤ In addition the fuel subsidy provided contributes to less than 5 per cent of the total value of landings.
	CC- Core Course VI Fisheries Economics			✓	<ul style="list-style-type: none"> ➤ To control the potential threats to Micro Economics . ➤ The marine fisheries sector in India is subsistence fishing and much different from the factory / commercial fishing of developed countries. ➤ In addition the fuel subsidy provided contributes to less than 5 per cent of the total value of landings.
	CC – Core Course VII Quality Control of Fish and Fishery Products		✓		<ul style="list-style-type: none"> ➤ Possess knowledge of the fish quality and intrinsic quality. ➤ Fish preservation methods. ➤ Modified Atmospheric packaging(MAP) ➤ Traditional method of fish preservation

	CC- Core Practical IX Fisheries Extension Education		✓		<ul style="list-style-type: none"> ➤ Visit to live fish market to know the availability of fishes and record keeping of relevant data ➤ Visit to dry fish market to know the preserved and processed fishes and record keeping of relevant data ➤ Collection of fish, molluscs and crustacean from adjacent fishing harbours to study identification, anatomy and record keeping of Relevant Data
	CC- Core Practical X Marine Biotechnology		✓		<ul style="list-style-type: none"> ➤ After successful completion of this course students will able to the Marine Ecosystem has Rich Biodiversity, and the organism themselves contain vital biochemical compounds ➤ Identify the components of awide array of uses in medicine,environment, and other industries ➤ Collection of fish, molluscs and crustacean from adjacent fishing harbours to study identification, anatomy and record keeping of Relevant Data.
	Mini Project		✓		<ul style="list-style-type: none"> ➤ After successful completion of this course students will able to the Marine Ecosystem has Rich Biodiversity, and the organism themselves contain vital biochemical compounds ➤ Identify the components of awide array of uses in medicine,environment, and other industries ➤ Collection of fish, molluscs and crustacean from adjacent fishing harbours to study identification, anatomy and record keeping of Relevant Data.
	Soft Skills Development			✓	<ul style="list-style-type: none"> ➤ Soft skills focus on who people are, as opposed to what they are trained in. They serve to represent your approach to life and work. Simply put, soft skills are interpersonal skills hardwired to an individual's personality, and they characterize how you interact with other people in the workplace

	CC- Core Course– VIII Fisheries Administration and Legislation			✓	<ul style="list-style-type: none"> ➤ After Successful completion of this course work students will able to Fisheries Administration's tasks have shifted from general authority in fisheries to technical support to decentralized institutions, but this is not generally reflected in the actual functioning of the administration. ➤ The fisheries administration and decentralized authorities suffer from financial constraints and a lackof specialized personnel at community level. ➤ Views of fisheries staff on fisheries management differ between the national and the local level.
	Project		✓		<ul style="list-style-type: none"> ➤ Possess knowledge of the fish quality and intrinsic quality. ➤ Fish preservation methods. ➤ Modified Atmospheric packaging(MAP) ➤ Traditional method of fish preservation
	Internship		✓		<ul style="list-style-type: none"> ➤ After Successful completion of this course work students will able to Fisheries Administration's tasks have shifted from general authority in fisheries to technical support to decentralized institutions, but this is not generally reflected in the actual functioning of the administration. ➤ The fisheries administration and decentralized authorities suffer from financial constraints and a lackof specialized personnel at community level. ➤ Views of fisheries staff on fisheries management differ between the national and the local level.
B.Voc., Software in Multimedia and Animation	Core Course I - Basic Computer Skills			✓	Demonstrate a basic understanding of computer hardware and software. Improve problem solving skills.
	Skill Course - Graphic Designer			✓	Student will learn Graphic Design & image editing software

Core Course III –Multimedia System			✓	Understand multimedia components using various tools and techniques
Skill Course - Social Media Executive			✓	Organize the work related to social media marketing activities to achieve the set targets
ES – Environmental Studies		✓		Teaches students about the various issues that affect the environment. It also highlights different conservations methods to protect and sustain the environment
Skill Course - Social Media Manager			✓	Estimating the cost of social media campaign and activities and determine the budget requirements to conduct the social media campaign including team salaries, tools, content development etc
NME – I- Fundamental of Information Technology I			✓	Demonstrate a basic understanding of computer hardware and software.
CC- Core Course– VI Java programming			✓	To understand the basic concepts of Object Oriented Programming with Java language
CC – Core Course VII – Life skills			✓	Helps the student understand the need for the development of self-esteem, team spirit and communication skill to prepare themselves for self-development
Skill Course - Digital Marketing Manager			✓	To Educate students in the area of Digital Marketing. Digital Marketing and Social Media have transformed marketing and business practice across the globe
Core Course– V Introduction To Maya			✓	Students learn to record, edit and publish audio for animation and also learn the techniques of video editing with various tools.

B.A., Tamil	தற்கால இலக்கியம் (கவிதையும், உரைநடையும்)	✓	✓	✓	கவிதைஎழுதும்படைப்புத்திறனைப்;பெறுவர்.
	நன்னூல் , எழுத்ததிகாரம் (காண்டிகையரை)		✓		எழுத்துமாற்றங்களால்ஏற்படும்பொருள்மாற்றத்தைஉணர்கிறார்கள்.
	சிற்றிலக்கியங்கள்	✓	✓	✓	சிற்றிலக்கியத்திற்கும்பேரிலக்கியத்திற்கும்உள்ளவேறுபாட்டினை அறிந்துகொள்ளுவர்.
	நன்னூல், சொல்லதிகாரம் (காண்டிகையரை)		✓		சொற்பாகுபாடு,வடமொழியாக்கம், பதம்பிரித்தல்முதலியவற்றைஅறிந்துகொள்ளுவர்.
	xg;gpyf;fpak;	✓	✓	✓	இலக்கியங்களில்உள்ள உத்திகளைபேச்சில் எழுத்தில் பயன்படுத்துவர்.

இலக்கணம் - யாப்பருங்கலக்காரிகை		✓		மொழிப்பெயர்ப்பு துறையில் பணியாற்ற வாய்ப்பு பெறுவர்.
மகளிரியல்	✓	✓	✓	பெண்களை பற்றிய அறிஞர்களின் விளக்கங்களையும் தொல்சமூக மகளிர்நிலைப்பற்றியும் அறிவர்.
தண்டியலங்காரம்		✓		சிலேடை, செய்யுள்இயற்று ம்ஆற்றல்பெறுவர்.
அறஇலக்கியம் திருக்குறள்) (நீங்கலாக	✓	✓	✓	வாழ்க்கையை நெறிபட வாழும் இனிய நடைமுறை வாழ்வியலை உணர்வர்.
திருக்குறள்	✓	✓	✓	கல்விஒருவருக்கு அழிவில்லாத செல்வத்தைதரும் என்ற

					உண்மையை உணர்ந்து கொள்வர்.
	நம்பியகப்பொருள்		✓		‘வரைவு’ என்பதன் இலக்கணத்தை அறிந்து கொள்வர்.
	சங்க இலக்கியம்	✓	✓	✓	வாழ்வியல் அறங்கள் மற்றும் வரலாற்று செய்திகளை அறிவர்.
	தமிழின் செம்மொழி பண்புகள்	✓	✓	✓	தமிழுக்கு செம்மொழி தகுதி தந்த தமிழ்ச் செவ்விலக்கியச் சிறப்புகளை அறிவர்.
	புறப்பொருள் வெண்பாமாலை	✓	✓	✓	பழந்தமிழரின் புறவாழ்க்கை நெறிகளைப்பற்றி அறிவர்

	இலக்கியத் திறனாய்வு	✓	✓	✓	இலக்கியம் பற்றியும் மொழியைப்பற்றியும் பயில விருடும்பும் மாணவர்கள் திறனாய்வு பற்றி நன்கு அறிந்துகொள்கிறார்கள்.
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