

SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE
AN AUTONOMOUS INSTITUTION



Affiliated to Madurai Kamaraj University and Re-accredited with B+ Status by NAAC
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**DEPARTMENT OF FOOD SCIENCE AND PROCESSING
MANAGEMENT**

B.Sc., FOOD SCIENCE AND PROCESSING MANAGEMENT - FM1011

VISION OF THE DEPARTMENT

To evolve young minds as productive professionals, for a healthy community through innovation in Food Science and Processing Management.

MISSION OF THE DEPARTMENT

- To provide quality and holistic education to graduates for careers in food industry and health.
- To deliver effective outreach education to citizens of Madurai and beyond.
- To cherish integrity, innovation and commitment to diversify and upgrade diet.
- To promote participative management and teamwork among teacher as well as students in all activities.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

The graduates will be able to,

PEO 1: Exhibit the skill and knowledge acquired in the study of Food Science and Processing Management.

PEO 2: Become a competent professional in Food Quality analysis.

PEO 3: Become an entrepreneur in Food Science and Processing Management related Business.

PEO 4: Develop new innovations and products in Food Science and Processing Management.

PROGRAMME OUTCOMES

PO1 Disciplinary knowledge: Express comprehensive knowledge on nutritional properties and processing techniques of food constituents.

PO2 Communication Skills: Communicate current issues & trends in the food industry by appreciating the dynamics and continued evolution of the Food Industry.

PO3 Critical thinking: Identify relevant assumptions on food and food processing through critically evaluating the practice.

PO4 Problem solving: Unfold logical flaws and holes in food safety.

PO5 Analytical reasoning: Analyze the practices and recent advancements in food science.

PO6 Research-related skills: Scientifically meet the needs of food industry for quality food products.

PO7 Cooperation/Team work: Function effectively as a team player in diverse teams and in multidisciplinary settings.

PO8 Scientific reasoning: Gather scientific information, interpret the quality of content through literature in Food science

PO9 Reflective thinking: Reflect plans based on evidences, reasoning to address situations/problems in food safety and food processing.

PO10 Information/digital literacy: Access variety of ICT tools required for the development of new food products.

PO11 Self-directed learning: Provide self learning and practical proficiency in food science, food microbiology and food processing techniques to specific commodities and industrial plant unit operations.

PO12 Multicultural competence: Exhibit multicultural competency in the working environment.

PO13 Moral and ethical awareness/reasoning: Apply moral and ethical principles, commit to professional ethics and responsibilities by following the norms of the nutritional practice.

PO14 Leadership readiness/qualities: Facilitate group projects and demonstrate cooperatively in team.

PO15 Lifelong learning: Engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSO)

The graduates will be

PSO 1: Equipped with the necessary technical knowledge, skills and attitude to solving problems related to food safety during food processing.

PSO 2: Able to apply scientific approach in optimizing food processing problems by improving the quality and safety of food products.

PSO 3: Able to develop a product using modern tools & techniques.

COURSE OUTCOMES

Course Code and Course Name	Course Outcomes At the end of this course the students will be able to
22UH101-Hindi I	CO 1: Illustrate the proper usage of Hindi in writing and speaking. CO 2: Recognize the language through some short stories. CO 3: Apply the basics of grammar for effective communication. CO 4: Improve the skill of reading and understanding passages. CO 5: Enhance and enrich the vocabulary of the students.
22UF101-French Language, Culture and Civilisation - I	CO1: Use basic words and express themselves in French. CO2: Acquire a good knowledge of the French Culture & Civilization. CO3: Acquainted with a basic knowledge of French Grammar. CO4: Apply the language skills for personal communication CO5: Describe persons and their characters, and also excel in telephonic conversation.
22UCE102-Communicative English I	CO1: Develop the basics knowledge of grammar for effective communication. CO2: Enhance the purposeful reading and inculcate the ability of using e- resources CO3: Enable the writing ability through reading by learning of verbs & infinitives.

	<p>CO4: Imbibe the skills of narrative writing through the learning of Tenses.</p> <p>CO5: Absorb skills in writing and understanding maps, graphs and pie charts and presenting through Voices.</p>
22AC103-Financial Accounting I	<p>CO1 : Recognize the fundamental principles of financial accounting.</p> <p>CO2 : Utilize the basic concepts in Accounting</p> <p>CO3 : Develop knowledge in double entry system of Accounting.</p> <p>CO4 : Analyze the business transactions in books of Accounts.</p> <p>CO5 : Interpret the financial statements.</p>
22AC104-Principles of Management	<p>CO1 : Recognize the levels of management in an organisation.</p> <p>CO2 : Classify the management functions.</p> <p>CO3 : Execute decisions using the different functions of management.</p> <p>CO4 : Comprehend the significance of the Leadership theories.</p> <p>CO5 : Compare examples of effective and poor leadership.</p>
22AC105-Fundamentals of Indian Accounting	<p>CO1 - Recalling accounting rules to record business transactions.</p> <p>CO2 - Acquire conceptual knowledge of the</p>

	<p>single entry system.</p> <p>CO3 - Outline the concepts of Bills of exchange, Average due date and Account Current</p> <p>CO4 - Describing the concepts based on depreciation and its methods in books of accounts.</p> <p>CO5 - Gain working knowledge of principles, procedure and preparation of Final accounts.</p>
22AC106- Managerial Economics	<p>CO1 : Describe the different concepts in Micro and Macro Economic structures.</p> <p>CO2 : Analyze Demand and its Determination and Find out optimal combinations of inputs.</p> <p>CO3 : Apply the concepts of price, cross and income elasticity.</p> <p>CO4 : Establish the linkage between production function and cost function.</p> <p>CO5 : Compare and contrast four basic market types.</p>
22VE109-Value Education	<p>CO 1:Inculcate significance of value education</p> <p>CO 2:Infer value education for nation building</p> <p>CO 3:Understand human rights with Indian constitution</p> <p>CO 4:Learn moral values, ethics and good manners</p> <p>CO 5:Realize values of yoga in day to day applications</p>

<p>22 PE110-Physical Education</p>	<p>CO1: Participate and learn about the athlete through appropriate activities.</p> <p>CO2: Develop and reinforce cooperative behaviour.</p> <p>CO3: Teach the students to establish lifelong fitness goals.</p> <p>CO4: Enhance their skill about the games activities.</p> <p>CO5: Learn about the traditional games activities along with the concepts and benefits.</p>
<p>22UT201-பொதுத்தமிழ் – II</p>	<p>CO1: பக்திநெறி மற்றும் தொன்மம் சார்ந்த அறக்கருத்துகளைத்தன்வாழ்வில்பின்பற்றுதல்.</p> <p>CO2: பழமை சார்ந்த அறவியலையும் வாழ்வியலையும்புரிந்துகொள்ளுதல்.</p> <p>CO3: உரைநடையின் வழியே எளிய சொற்பதம், ஆழமான கருத்துச்செறிவு, இடத்திற்கு தகுந்த பொருத்தமான மேற்கோள், தற்கால கலைச்சொல் எனப் பலவற்றைபொருந்தச் செய்தல் .</p> <p>CO4: மொழியைஇலக்கணப்பிழையின்றிபேசவும்எழுதவும்புரிந்துபயன்படுத்துதல்</p> <p>CO5: படைப்பிலக்கியசிந்தனையையும், கற்பனை ஆற்றலையும் கொண்டுஇலக்கியம்படைத்தல்</p>
<p>22UH201-Hindi II</p>	<p>CO 1: Familiarize with the various elements/aspects of prose.</p> <p>CO 2: Enhance and develop the confidence level, ethics and some moral values.</p> <p>CO 3: Apply the basics of grammar for effective communication.</p> <p>CO 4: Inculcate respect and pride towards our</p>

	<p>nation.</p> <p>CO 5: Improve the skill of letter writing.</p>
<p>22UCE202-Communicative English II</p>	<p>CO1: Develop the basics knowledge of grammar for effective communication.</p> <p>CO2: Actively involves in the purposeful reading of books, poems and inculcate the ability of public speech.</p> <p>CO3: Draft e-mails, TED talks and preparing professional PPTs.</p> <p>CO4: Imbibe the skills of listening and attend meetings by sharing information and learning of types of sentences.</p> <p>CO5: Absorb skills in writing letters and learn the pattern of clauses to represent social issues.</p>
<p>22AC203-Financial Accounting - II</p>	<p>CO1 - Construct trading information to prepare the trial balance.</p> <p>CO2 - Apply BRS concepts and rectify errors.</p> <p>CO3 - Record accounting transactions and prepare annual financial statements.</p> <p>CO4 - Analyze financial statements.</p> <p>CO5 - Examine the cash flow statements.</p>
<p>22AC204- Basics of Cost Accounting</p>	<p>CO1: Determine the fundamentals of Cost Accounting.</p> <p>CO2: Analyze the different methods of materials handling.</p> <p>CO3: Examine the important techniques in costing</p> <p>CO4: Structure the budget for operational</p>

	<p>functions.</p> <p>CO5: Summarize the performance report of an organization.</p>
22AC205- Organisation Management	<p>CO1: Apprehend the significance of Stakeholders.</p> <p>CO2: Develop a conclusive environment suitable for an organisation.</p> <p>CO3: Enumerate the business hierarchical levels.</p> <p>CO4: Apply the fundamentals of ethical behavior.</p> <p>CO5: Analyse the process of effective communication.</p>
22AC206-Business Law	<p>CO1 - Comprehend the essential elements of contract.</p> <p>CO2 - Identify the peculiar circumstances of a valid offer and acceptance.</p> <p>CO3 - Recognize the legal consequence of contracting with incapacity to contract.</p> <p>CO4 - Explore the various modes of performance of contract.</p> <p>CO5 - Familiarize with the rules relating to sales and delivery of goods and acceptance of goods.</p>
22AC207-Banking Theory & Practice	<p>CO1: Examine the nature of present day banking in India.</p> <p>CO2: Gain an insight on the nature of banking law.</p> <p>CO3: Apply the procedure for making transactions in the banking institutions.</p> <p>CO4: Measure the dynamics of banking transactions of people.</p> <p>CO5: Know the importance of developments in</p>

	the practices of banking in India.
22ES210- Environmental Studies	<p>CO1: Participate and learn about the athlete through appropriate activities.</p> <p>CO2: Develop and reinforce cooperative behaviour.</p> <p>CO3: Teach the students to establish lifelong fitness goals.</p> <p>CO4: Enhance their skill about the games activities.</p> <p>CO5: Learn about the traditional games activities along with the concepts and benefits.</p>
21AC304-Business Statistics	<p>CO1: Acquire knowledge about averages to be used in Business Research.</p> <p>CO2: Gain knowledge about Standard Deviation.</p> <p>CO3: Attain knowledge about the application of Correlation and Regression.</p> <p>CO4: Acquire an in-depth knowledge about Index Numbers.</p> <p>CO5: Gain knowledge in Measures of Trend and its application in Business Research</p>
21AC305-Quantitative Aptitude and Reasoning Skills	<p>CO 1: Apply the learning Numbers.</p> <p>CO 2: Apply the concepts of Problems on Ages, Time and work and Mathematical operations.</p> <p>CO 3: Apply the learning on Pipes and Cisterns, Time and distance.</p> <p>CO 4: Apply the concepts of Series, Classification, and Logical Venn diagram.</p> <p>CO 5: Apply the learning on Coding and Decoding, Blood relationship.</p>
21CRT308 P-Campus Recruitment Training	CO 1: Appraise themselves and improve their

I Practical	<p>communication skills.</p> <p>CO 2: Learn in detail about the functional use of Tenses.</p> <p>CO 3: Enhance their Vocabulary skills for their Verbal Aptitude.</p> <p>CO 4: Develop Skills to become a Good Conversationalist.</p> <p>CO 5: Apply their Reading Skills and purposeful understanding of passages to tackle such exercises.</p>
21AC403-Governance, Risk And Ethics	<p>CO1 Gain knowledge on basic governance and responsibility.</p> <p>CO2 Play Professional Accountant's role in internal control, review and compliance.</p> <p>CO3 Examine the role of the accountant in identifying and assessing risk.</p> <p>CO4 Evaluate the role of accountant in controlling and mitigating risk.</p> <p>CO5 Demonstrate the application of professional values in corporate governance.</p>
21AC404-Strategic Management	<p>CO1 : Apply the strategy operates at different levels of the organization.</p> <p>CO2 : Construct different stages of strategic management process.</p> <p>CO3 : Build the features and suitability of differentiation strategy.</p> <p>CO4 : Apply the role of leadership in execution of the strategy.</p> <p>CO5 : Identify the relationship between strategy formulation and strategy implementation.</p>

<p>21OR408-Operations Research</p>	<p>CO1 : Apply the concepts related to Linear programming problem.</p> <p>CO2 : Analyze the concepts related to Transportation problem.</p> <p>CO3 : Examine the concepts related to Assignment problem.</p> <p>CO4 : Learn the concepts related to Network Analysis.</p> <p>CO5 : Evaluate the concepts related to Game Theory.</p>
<p>21CRT408 P-Campus Recruitment Training II Practical</p>	<p>CO 1: Involve actively in participative learning of English and to enable them acquire communication skills.</p> <p>CO 2: Introduce themselves in a professional manner.</p> <p>CO 3: Gain confidence in facing the Competitive World by learning the etiquettes in preparing the Resume and to face the telephonic interviews.</p> <p>CO 4: Inculcate the habit of preparing presentation and the way to present it in a professional manner.</p> <p>CO 5: Project themselves as socially responsible citizens.</p>
<p>20PRT509 P - Placement Recruitment Training Practical</p>	<p>CO1: Encourage the students in participative learning of English and to enable them acquire communication skills.</p> <p>CO2: Enable the students prepare themselves as professionals, by understanding Life Skills.</p> <p>CO3: Comprehend what a Personal Interview is</p>

	<p>and to familiarize them with the P.I. process through simulation.</p> <p>CO4: Understand what GD is and to familiarize them with the different types of GD through practice.</p> <p>CO5: Equip the students to enhance General Knowledge to equip them in all the aspects.</p>
20AC601 P-Internship	<p>CO1: Demonstrate the application of knowledge and skill sets acquired from the course and workplace in the assigned job function/s</p> <p>CO2: Solve real life challenges in the workplace by analysing work environment and conditions, and selecting appropriate skill sets acquired from the course</p> <p>CO3: Communicate and collaborate effectively and appropriately with different professionals in the work environment through written and oral means</p> <p>CO4: Exhibit critical thinking and problem solving skills by analysing underlying issue/s to challenges</p> <p>CO5: Exhibit professional ethics by displaying positive disposition during Summer Experiential Training.</p>
20AC603-FINANCIAL MANAGEMENT II	<p>CO1 - Apprehend the function of financial management in the context of financing and distribution decisions</p> <p>CO2 - Identify the sources of business finance with their relative merits & demerits</p> <p>CO3 - Knowledge & understanding of</p>

	<p>capital structure theories and cost of capital</p> <p>CO4 - Understand and apply concepts of business valuation</p> <p>CO5 - Understanding the use of tools & techniques of financial risk management in the context of foreign currency risks & interest rate risks</p>
20AC604-TAXATION II	<p>CO1 - Understand various terms related to Goods and Service tax (GST).</p> <p>CO2 - Understand the difference between forward charge and reverse charge mechanism and also to understand the difference between composite and mixed supply.</p> <p>CO3 - Determine the time, place and value of supply.</p> <p>CO4 - Compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit.</p> <p>CO5 - Determine whether a person is required to obtain registration under GST law.</p>
20AC605-Corporate Accounting II	<p>CO1: Enable the students to understand about amalgamation, absorption and external reconstruction.</p> <p>CO2: Make them aware about accounts of banking companies.</p> <p>CO3: Keep them aware about accounts of insurance companies.</p> <p>CO4: Enable the students to gain an idea of</p>

	liquidation of companies. CO5: Develop knowledge of holding companies accounts.
20AC606-AUDITING AND ASSURANCE	CO1: Apply audit framework and regulation. CO2: Conceptualize audit framework & assess risk. CO3: Perform internal control & audit test during audit practices. CO4: Gather & manage evidence & report. CO5: Comprehend audit review and reporting.