

**DEPARTMENT OF VOCATIONAL STUDIES  
FISH PROCESSING TECHNOLOGY  
Proposal for the Certificate Course 2023-24  
Modern Technologies in Food Packaging**

Department : Fish Processing Technology

Name of the Course : Modern Technologies in Food Packaging

Course Code : AS23MTFP

Name of the Coordinator : Vaishna P.U  
9048093094, vaishnaarun13@gmail.com@gmail.com

Head of the Department : Dr.SAYANA K.A

Maximum number of students :50

Duration of the course : 30 Hours

Level : UG

Teaching Methodology : Direct method, group discussions

Teaching aids : ppt, video presentation

Evaluation procedure : Assignments, Group work ,Class test

Collaborating agency, if any : Nil

Project, Assignment, Internship : Assignment, Project, Field visit (Near by area)


Date of Registration : 03-Jan-2024


Tentative date of Course Completion:20-02-2024

Date of final exam : 29-02-2024


Date of Issue of Certificate : 28-03-2024

Course fee :-

  
**Dr. Sayana K. A.**  
HoD, Assistant Professor  
Department of Vocational Studies (FPT)  
M.E.S. Asmabi College  
P.Vemballur-680671, Kodungallur.

  
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Vaishna P.U.  
Asst. Prof.  
Dept. of Fish Proc. Tech  
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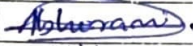


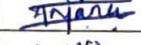

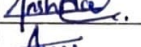







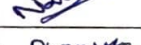


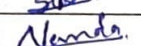





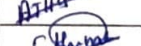


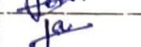
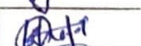








MES ASMABI COLLEGE, P. VEMBALLUR

Department Of Fish Processing Technology

Certificate Course: Modern Technologies in Food Packaging 2023-24

Course code: AS23MTFP

List of students enrolled

Sl No	Name	Signature
1.	ABHIRAMI M U	
2.	ANEESHA SHANAVAS A.S	
3.	ANJALI C S	
4.	ANJANA DEVARAJ	
5.	ANJANA MN	
6.	ANSHIDA T H	
7.	ANUSREE . K	
8.	ASWATHY M A	
9.	AYSHA SAHALA T S	
10.	DRISYA M D	
11.	FATHIMA A S	
12.	FATHIMA P A	
13.	FATHIMA PARVIN A A	
14.	GOURILAKSHMY O M	
15.	NAYANA K S	
16.	PUNNYA B S	
17.	SAFNA K A	
18.	SANDRA O.S	
19.	SIVANANDA K R	
20.	V S FATHIMA AMAL	
21.	ALSHIFANA K S	
22.	ABHIRAMI K	
23.	AFEefa V	
24.	AMRUTHA T M	
25.	ATHULYA K A	
26.	FATHIMA BEEVI M A	
27.	HARSHA P V	
28.	JESHMA K	
29.	JIHANA NASRIN K V	
30.	KHADEEJA K S	
31.	LINUMOL PN	
32.	MAJIDA A M	
33.	MUBEENA V A	
34.	AATHIRA T S	
35.	ADEELA P A	

	ARCHA P B	<i>Archa</i>
37.	FARHANA E M	<i>Farhana</i>
38.	OMER SUBHAN N M	<i>Omer</i>
39.	P A MOHEMMED SALDHAN	<i>P A</i>
40.	P S MOHAMMED AMAL SWALIH	<i>P S</i>
41.	ROHITH P M	<i>Rohith</i>
42.	SOORAJ	<i>Sooraj</i>
43.	SOORYADEV N S	<i>Sooryadev</i>
44.	VISHNU C D	<i>Vishnu</i>
45.	ABDUL SATHAR .V.A.	<i>Abdul</i>
46.	AHMED YASIN C A	<i>Ahmed</i>
47.	FARDIN FAROOQ	<i>Fardin</i>
48.	MUHAMMED SHAFI P M	<i>Muhammed</i>
49.	ABIJITH R M	<i>Abijith</i>
50.	MUHAMED FARDAN P N	<i>Muhamed</i>
51.	P M MOHAMED MIRSAID	<i>P M</i>
52.	MOHAMED JIMSHAD A R	<i>Mohamed</i>
53.	ADHIL K A	<i>Adhil</i>
54.	ADTHIL NAVAS	<i>Adthil</i>
55.	ALTHAF A A	<i>Althaf</i>
56.	ANASUDHEEN C A	<i>Anasudheen</i>
57.	ARAVIND RAJU	<i>Aravind</i>

COORDINATORS

*VAISHNA P U*  
VAISHNA P U

*[Signature]*  
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P.O. VEMBALLUR,  
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*[Signature]*  
Dr. Sayana K. A.  
HoD, Assistant Professor  
Department of Vocational Studies (FPT)  
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P.Vemballur-680671, Kodungallur.



DEPARTMENT OF  
FISH PROCESSING TECHNOLOGY  
MES ASMABI COLLEGE  
P. VEMBALLUR

This is to certify that Ms/Mr. ABHIRAMI M U has completed the Certificate course  
Modern Technologies in Food packaging conducted by the Department of Fish  
Processing Technology MES Asmabi College, P.Vemballur during the academic year 2023-24

P.Vemballur  
29/03/2024

Vaishna P U  
COORDINATOR

Dr.Sayana K A  
HOD

Dr. A Biju  
PRINCIPAL

# **Course Syllabus**

## **Entrepreneurship Development in Seafood industry**

### **Objectives:**

- **Understand the Principles:** Grasp the fundamental principles of food packaging and its role in food preservation, safety, and distribution.
- **Explore Packaging Materials:** Examine various modern packaging materials, including biodegradable, compostable, and sustainable options, and their impact on the environment.
- **Technological Advancements:** Investigate recent technological advancements in food packaging, such as smart packaging, active packaging, and intelligent packaging systems.
- **Regulatory Compliance:** Learn about the regulatory standards and guidelines governing food packaging at both national and international levels.
- **Shelf Life Extension:** Analyze how modern packaging technologies contribute to extending the shelf life of food products and reducing food waste.
- **Packaging Design:** Study the principles of innovative packaging design, focusing on functionality, consumer convenience, and aesthetic appeal.

### **Module 1: Fundamentals of Food Packaging**

**Objective:** To provide a foundational understanding of the principles, materials, and functions of food packaging.

#### **Topics Covered:**

- **Introduction to Food Packaging:**
- **Packaging Materials:**
- **Regulatory and Safety Standards:**
- **Packaging Processes and Equipment:**

#### **Assessment Methods:**

- Quizzes and tests.
- Assignments on packaging materials.
- Group discussions on regulatory standards.

### **Module 2: Innovative Technologies in Food Packaging**

**Objective:** To explore advanced and emerging technologies in the field of food packaging.

#### **Topics Covered:**

- Smart and Intelligent Packaging:
- Edible and Biodegradable Packaging:
- Sustainable Packaging Solutions:

### Module 3: Applications and Trends in Food Packaging

**Objective:** To understand the application of modern packaging technologies in the food industry and identify current and future trends.

#### Topics Covered:

- Packaging for Different Food Categories:
- Consumer Behavior and Market Trends:
- Packaging Design and Innovation:
- Challenges and Future Directions:
- Sustainability and Circular Economy:

#### Assessment Methods:

- Quizzes and tests.
- Assignments.
- Group discussions.

Approved by:

*Sayana*  
Dr. Sayana K.A

Dr. Sayana K. A.  
HOD, Assistant Professor  
Department of Vocational Studies (FPT)  
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Proposed by:

*Vaishna*  
Vaishna P.U



**M.E.S. ASMABI COLLEGE, P.VEMBALLUR**  
**MODERN TECHNOLOGIES IN FOOD PACKAGING**  
**EVALUATION**

Time: 1 Hour

Max. Marks: 20

**I. Explain any four of the following in a paragraph; each question carries 5 marks (4x5=20marks)**

1. Explain the concept of active packaging and provide two examples of how it can be used to enhance food safety and shelf life.
2. Describe the role of nanotechnology in food packaging and discuss one potential benefit and one potential risk associated with its use.
3. What are the key differences between biodegradable and compostable packaging materials? Provide an example of each type.
4. Discuss the importance of regulatory compliance in food packaging. Mention two regulatory bodies and their roles in overseeing food packaging standards.
5. How does smart packaging differ from traditional packaging? Give an example of a smart packaging technology and explain its function.

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MES ASMABI COLLEGE, P. VEMBALLUR

Department Of Fish Processing Technology

Certificate Course: Modern Technologies in Food Packaging 2023-24

Course code:AS23MTFP

SCORE CARD

Sl No	Name	Assignment (10)	Test paper (20)	Project (20)	Total Score (50)
1.	ABHIRAMI M U	10	14	20	44
2.	ANEESHA SHANAVAS A.S	10	19	20	49
3.	ANJALI C S	10	18	20	48
4.	ANJANA DEVARAJ	10	19	19	47
5.	ANJANA MN	10	20	20	50
6.	ANSHIDA T H	10	15	20	45
7.	ANUSREE . K	10	17	20	47
8.	ASWATHY M A	10	18	20	48
9.	AYSHA SAHALA T S	10	15	20	45
10.	DRISYA M D	10	14	20	44
11.	FATHIMA A S	10	11	20	41
12.	FATHIMA P A	10	12	20	42
13.	FATHIMA PARVIN A A	10	18	20	48
14.	GOURILAKSHMY O M	10	20	20	50
15.	NAYANA K S	10	18	20	48
16.	PUNNYA B S	10	19	20	49
17.	SAFNA K A	10	15	20	45
18.	SANDRA O.S	9	14	20	43
19.	SIVANANDA K R	9	11	18	38



	V S FATHIMA AMAL	9	17	20	46
21.	ALSHIFANA K S	9	18	20	47
22.	ABHIRAMI K	9	20	20	49
23.	AFEEFA V	10	15	20	45
24.	AMRUTHA T M	10	13	20	43
25.	ATHULYA K A	9	11	17	37
26.	FATHIMA BEEVI M A	9	18	15	42
27.	HARSHA P V	9	19	20	48
28.	JESHMA K	10	14	20	44
29.	JIHANA NASRIN K V	10	16	19	45
30.	KHADEEJA K S	9	18	20	47
31.	LINUMOL PN	10	12	20	42
32.	MAJIDA A M	9	14	20	43
33.	MUBEENA V A	9	19	20	48
34.	AATHIRA T S	9	17	20	46
35.	ADEELA P A	9	11	16	36
36.	ARCHA P B	10	13	20	43
37.	FARHANA E M	10	15	20	45
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39.	P A MOHEMMED SALDHAN	10	13	20	43
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41.	ROHITH P M	10	18	19	47
42.	SOORAJ	10	17	20	47
43.	SOORYADEV N S	10	20	20	50
44.	VISHNU C D	10	13	20	43

	ABDUL SATHAR .V.A.	10	15	20	43
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54.	ADTHIL NAVAS	9	15	19	43
55.	ALTHAF A A	10	13	20	43
56.	ANASUDHEEN C A	8	10	17	35
57.	ARAVIND RAJU	10	19	19	48

COORDINATORS

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**DEPARTMENT OF VOCATIONAL STUDIES**  
**FISH PROCESSING TECHNOLOGY**  
**Certificate Course 2023-24**  
**Modern Technologies in Food Packaging**

**REPORT:**

The certificate course on "Modern Technologies in Food Packaging" is designed to equip participants with a comprehensive understanding of the latest advancements in food packaging technologies. The course covers fundamental principles, innovative materials, regulatory standards, and emerging trends, ensuring that participants are well-prepared to meet the challenges and opportunities in the food packaging industry.

The Department of Fish Processing Technology conducted a 30 hours certificate course on " Modern Technologies in Food Packaging", from 03-01-2024 to 20-02-2024. 57 students from different domains are enrolled for the programme. Vaishna P.U, Faculty of the department engaged the theory classes on the topic.

The "Modern Technologies in Food Packaging" certificate course offers a robust and in-depth exploration of the current and future landscape of food packaging. By equipping participants with the latest knowledge and skills, the course aims to foster innovation and sustainability in the food packaging industry, ultimately contributing to improved food safety, reduced waste, and enhanced consumer satisfaction. An industrial visit arranged to meet the entrepreneurs in the nearby area.

Assessment and evaluation are done on the basis of the assignment provided and the project work. Students scored a minimum of 70 % marks.

**Outcomes:**

- The classes helped the students to identify the Modern technologies in food packaging.
- It helped to increase the confidence level of the students to get into a start up venture

Dr.Sayana K.A.

HOD

**Dr. Sayana K. A.**  
HoD, Assistant Professor  
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Co ordinator

