



Pandit Dindayal Upadhyaya Education Societies,
Shri Sant Savta Mali Gramin Mahavidyalaya,
Phulambri,
Tq. Phulambri, Dist. Aurangabad
(Affiliated to Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad)

SYLLABUS

CERTIFICATE COURSE

ON

***“AGRICULTURAL PRODUCTS PROCESSING
AND STORAGE”***

(DEPT. OF ECONOMICS)

WITH EFFECT FROM: 2022-2023

**SHRI SANT SAVTA MALI GRAMIN MAHAVIDYALAYA,
PHULAMBRI,
TQ. PHULAMBRI, DIST. AURANGABAD.
(Arts, Commerce & Science)**

Course Structure

**FACULTY OF HUMANITIES
Certificate Course Syllabus
SUBJECT: ECONOMICS**

Course Code	Name of the Course	Total Lect.	Lecture per week		Evaluation Scheme			Total Marks	Credit
			Theory	Practical	MCQ	Project Work	Vice-Viva		
ECO – 01	AGRICULTURAL PRODUCTS PROCESSING AND STORAGE	30	4	2	35	10	5	50	2

Core Course:

50 Marks

End Course Examination 50 Marks

-  Examination on Prescribed Syllabus for 35 Marks
-  Skill Development Activities (Project) for 10 Marks
-  Presentation of Project (Viva-Voce) for 5 Marks.

➤ ***Examination on Prescribed Syllabus:***

End of the syllabus conduct one MCQ pattern paper on Certificate Course syllabus.

**CERTIFICATE COURSE
IN
ECONOMICS**

AGRICULTURAL PRODUCTS PROCESSING AND STORAGE

Credit: 02

Periods: 30

Marks: 50

ECE (MCQ) 35 Marks + Project 10 Marks + Vice-viva 05 Marks = 50 Marks

Course Outline:

Good storage is essential for the challenges to increase in human population, low yield due to pest and disease attack on cultivated crops and poor level of mechanized agricultural activities. Product processing and storage in order to meet these necessities becomes of crucial importance. If we process and store our food crops, we make it more durable, attractive and add value to it; this can go a long way in mitigating global food insecurity. Agricultural products and by-products are essential demands and means of survival for the world's agro-based industries, as it plays a greater role in almost all aspects of life. Unprocessed raw materials are raw materials for the intermediate industries with processed food/consumables as the finished product. Energy used in Agriculture and food processing is high; hence, mechanization is essential to reduce the level of drudgery especially in the local processing factories and mills. Local food processing and Storage will be discussed in details during the course.

In fighting global food crisis, agricultural product processing and storage play an important role in food and feed preservation for the continual survival of human beings. Through the development of modern storage facilities, food crop preservation becomes easy. The course is conducted with the aim to look into processing procedures and find possible solutions to the problems facing the farmers and agricultural machine operators in the agricultural business.

Objectives of the Course:

- This course aims at promoting sustainable agricultural management for economic development.
- It seeks to support local food processing, in-order to improve local knowledge on agricultural mechanization.
- The survey seeks to aid food security; this is because food wastage and spoilage can be cut-down through processing.

- Since climate change is one of the greatest challenges to our food crop production, processing will aid in adaptation and mitigation, creating new ways in which our food crop can be properly managed.
- The course can help to enlighten or widen students' scope on the knowledge of agricultural product, giving possible recommendations and practical advice to students, farmers and agricultural machine operators.
- Through this course a student can get an ideal practical inside of different ways of preservation and their advantages and disadvantages as applied in real life.

Course Utility:

- Agricultural Products processing and storage's meaning, nature and scope will be studied in this course.
- Student's ability will be utilized to tackle the current agricultural problems.
- Students will adopt more knowledge in the field of agricultural processing and storage by studying this certificate course.
- This certificate course will increase the utility and application to acquire more satisfaction in life.

Duration of the course:

The duration of a course shall be Five weeks.

Eligibility for course:

Students has passed 10+2 examination (any stream) or any other examination recognized as equivalent there to.

Students Strength:

Minimum 10 & Maximum 30 Students are required run this course.

Fees Structure:

This certificate course admission fees has 500 Rs. Per student (Admission Fees 400 & Examination fees 100 Rs.)

Medium of instruction and Structure of Examination:

- 1) Medium of the instruction for the said certificate course will be in Marathi and question paper will also set in the Marathi language.
- 2) The students appearing for the certificate course examination will be of 25 marks in MCQ pattern.

Eligibility for appearing at certificate in examination:

Student should keep the terms with at least 75% attendance. He / she should complete the Project work and have to pass in end course examination.

Standards of passing:

A student has to obtain 40% of marks in the End Course Examination & Project also.

Awards of Grade:

Grade will be awarded to the student at the end of the course the basis of aggregate marks obtained by him / her in each part separately.

Grade	Percentage	Description
O	In between 90 % to 100 %	Outstanding
A++	In between 80 % to 89 %	Excellent
A+	In between 70 % to 79 %	Exceptional
A	In between 60 % to 69 %	Very Good
B+	In between 55 % to 59 %	Good
B	In between 50 % to 54 %	Fair
C+	In between 45 % to 49 %	Average
C	In between 41 % to 44 %	Below Average
D	40 %	Pass
F	Bellow < 40 %	Fail

Syllabus

Course Content	Periods
1 Introduction of Agricultural Products 1.1 Definition of Agricultural Products 1.2 Local agricultural Products	03
2 Agricultural Processing 2.1 Definition of Processing 2.2 Types of Agricultural Processing 2.3 Processing Techniques 2.4 Why We Process our Food Crops ?	07

3 Agricultural Storage 3.1 Definition of Agricultural Storage 3.2 Importance of Agricultural Storage 3.3 Classification of Storage : Duration of Storage, Size of Storage, Principle of Storage 3.4 Factors Responsible for Deterioration in Storage 3.5 Method of Storage 3.6 Practical Application of Storage Techniques in Our Food Crops	07
4 Agricultural Products and Storage Problems 4.1 Problem & Remedies Discuss with Storage and Processing Facilities	03
Skill Development Activity (Any two of the following)	
➤ Analyze the Agricultural Products processing and storage's (meaning, nature and scope.) ➤ Prescribed the current agricultural problems in your area. ➤ Visit a nearest agriculture Market and Collect data regarding various problems of agricultural processing unit. ➤ Visit a nearest ware house and collect information about the techniques of storages. ➤ Prepare a chart showing the structure of Agricultural Production if any agriculture crop. ➤ Conduct a survey and enlist the agricultural crops in your local area.	10

References:

1. M. S. Adiaha, 'Complete Guide to Agricultural Product Processing and Storage', Scientific Publishing House, Poland.
2. Bhamchar S. N., 'Rural Industrialization in India', Gunnar Myrdal, Asian Drama, London.
3. Bhattacharya S. N., 'Rural Industrialization in India: Its Nature and Problems', B. R. Publishing Corporation, Delhi.
4. Dixit R. K., 'Role of Agro-Industries Corporations', Radha Publications, Ansari Road, Darya Ganj, New Delhi.
5. Gharpure V. T., 'Agro Service Centers in Agricultural Development', Raj Publishing House Jaipur.
6. Gupta S. K., 'Development of Agro-industries: Problems and Prospects', Deep and Deep Publications, New Delhi.
7. Takle S.R. and Powale T.V., (Marathi Edition) Agricultural Economics, Serial Publication, New Delhi. 2009