



FIRST-YEAR OF BACHELOR OF VOCATIONAL MAJOR SUSTAINABLE AGRICULTURE REVISED SYLLABUS ACCORDING TO CBCS NEP2020

COURSE TITLE: PADDY FARMER I (PRACTICAL)
SEMESTER-I, W.E.F. 2024-2025

Recommended by the Board of Studies in BVOC (SA)
And

Approved by the Academic Council
DevrukhShikshanPrasarakMandal's

Nya. TatyasahebAthalye Arts, Ved. S. R. Sapre Commerce, and Vid. DadasahebPitre
Science College (Autonomous), Devrukh. Tal.Sangmeshwar, Dist. Ratnagiri-415804,
Maharashtra. India

Academic Council Item No: _____

Name of the Implementing Institute	:	Nya. TatyasahebAthalye Arts, Ved. S. R. Sapre Commerce, and Vid. DadasahebPitre Science College (Autonomous), Devrukh. Tal.Sangmeshwar, Dist. Ratnagiri-415804,
Name of the Parent University	:	University of Mumbai
Name of the Programme	:	Bachelor of Vocation (Sustainable Agriculture)
Name of the Department	:	Science
Name of the Class	:	First Year
Semester	:	First
No. of Credits	:	02
Title Of the Course	:	Paddy Farmer I (Practical)
Course Code	:	B102SAP
Name of the Vertical in adherence to NEP 2020	:	Major and Minor
Eligibility for Admission	:	Any 12 th Pass and/or Diploma in agriculture seeking Admission to Degree Programme in adherence to Rules and Regulations of the University of Mumbai and Government of Maharashtra
Passing Marks	:	40%
Mode of Assessment	:	Formative and Summative
Level	:	UG
Pattern of Marks Distribution for TE and CIA	:	60:40
Status	:	NEP-CBCS
To be implemented from Academic Year	:	2024-2025
Ordinances/Regulations(if any)		

Nya. TatyasahebAthalye Arts, Ved. S. R. Sapre Commerce and Vid. DadasahebPitre Science College, Devrukh (An Autonomous College Affiliated with University of Mumbai)

Syllabus for First Year of Bachelor of Vocation in Sustainable Agriculture

(With effect from the academic year 2024-25)

SEMESTER-I

Paper No.–

Course Title: Paddy Farmer I (Practical)

No. of Credits - 02

Type of Vertical: Major and Minor

COURSE CODE:

B102SAP

Learning Outcomes Based on BLOOM's Taxonomy:

After completing the course, the learner will be able to...		
Course Learning Outcome No.	Blooms Taxonomy	Course Learning Outcome
CLO-01	Remember	Recall the key stages of paddy cultivation including land preparation planting and integrated nutrient management and weed management in paddy.
CLO-02	Understand	Explain the principles behind water management in paddy fields and its importance in crop growth.
CLO-03	Apply	Demonstrate the proper techniques for seed selection, planting, and fertilization in paddy fields.
CLO-04	Analyse	Evaluate different types of weed that afflict paddy crop and propose suitable solution for common issues.
CLO-05	Evaluate	Assess the environmental impact of paddy cultivation practices and suggest sustainable alternatives.
CLO-06	Create	Develop a comprehensive paddy cultivation plan for a given plot of land, considering soil health, water availability, and climatic conditions.

Syllabus for First Year of Bachelor of Vocation in SA

(With effect from the academic year 2024-25)

SEMESTER- I

Paper No.–

Course Title: Paddy Farmer I (Practical)

No. of Credits - 02

Type of Vertical: Major and Minor

COURSE CODE: B102SAP

COURSE CONTENT			
Module No.	Content	Credits	No. of Lectures
1	<p>Seed Preparation In Paddy-</p> <ul style="list-style-type: none"> • Identify and select the appropriate variety based on the agro climatic conditions, climate, soil type and required yield • Understand the Seed requirement for Paddy Cultivation. • Identify & procure quality seeds from authentic sources. • Undertake seed treatment using the appropriate method. • Undertake nursery preparation & management- plough the soil, make irrigation & drainage channels, weed control, pest & disease management, manure & nutrient application, proper uprooting of seedlings at appropriate stage for transplantation • Get acquainted with seedling raising in tray and operation of Paddy transplanter. <p>Land Preparation and Transplanting in paddy</p> <ul style="list-style-type: none"> • Prepare the field for paddy cultivation:clean, plough, irrigate, puddle & level the field • Prepare irrigation & drainage channels, bunds • Adopt advanced practices that would support various methods of sowing/ transplanting: direct seeded method, SRI method, hybrid rice, aromatic rice, aerobic rice and boro rice cultivation • Undertake seed dipping for paddy seedlings • Demonstrate different transplanting methods • Ensure recommended spacing, number of plants per hill as per the yield requirement & resource availability • Ensure safe handling during transplantation • Apply manures and fertilizers in appropriate quantity • Understand various practices: intercropping, relay cropping, sequential cropping etc • Adopt an integrated farming system to ensure diversified income. 	01	30

2	<p>Integrated Nutrient Management in Paddy –</p> <ul style="list-style-type: none"> • Understand the Nutrient requirement for the cultivation of Rice • Understand and perform the soil sampling for soil test • Understand the Micro and Macro Nutrients in soil • Understand the required fertilizer dosage for the nutrient enrichment in soil as per the soil health card • Understand the various soil microorganisms beneficial for nutrient enrichment in soil. • Use the bio fertilizer/organic manure in the cultivation of Rice • Estimate the quantity & apply fertilizer & micro-nutrients at various stages in appropriate dosage. • Maintain the record of application of fertilizers and intervals. <p>Weed management in Paddy -</p> <ul style="list-style-type: none"> • Ascertain the type of weeds that afflict paddy crop. • Understand the hazards of weed in Paddy cultivation. • Understand the use of chemical herbicides and bio-herbicides. • Apply the herbicides. • Understand and perform the Manual/ mechanized weeding. • Maintain & clean field bunds to control weed proliferation. 	01	30
	Total	02	60

Required Previous Knowledge

No previous Knowledge is required.

Access to the Course

The course is available for all the students admitted for Bachelor of Vocation (SA) as a Major or a minor. The students seeking admission in other disciplines may select the course as a minor considering the terms and conditions laid down by the University of Mumbai, the Government of Maharashtra, and the college, from time to time.

Forms of Assessment

The assessment of the course will be of Formative and Summative type. At the beginning of the course diagnostic assessment will be carried out. The formative assessment will be used for the Continuous Internal Evaluation whereas the summative assessment will be conducted at the end of the term. The weightage for formative and summative assessment will be 60:40. The detailed pattern is as given below.

Term End Evaluation (30 Marks)

Question Paper Pattern

Time: 1.5 hours

Question No.	Unit/s	Question Pattern	Marks
Q.1	All	Practical Exam	30
		Total	30

Internal evaluation (20 Marks)

Sr. No.	Description	Marks
1	Active Participation in teaching learning Process	5
2	Field work	15
	Total	20

Grading Scale

The grading scale used is O to F. Grade O is the highest passing grade on the grading scale, and grade F is a fail. The Board of Examinations of the college reserves the right to change the grading scale.