

Re-Accredited 'B++' 2.86 CGPA by NAAC

VEER NARMAD SOUTH GUJARAT UNIVERSITY

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વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલ્લા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

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-: પરિપત્ર :-

યુનિવર્સિટી સંલગ્ન ગ્રામ અભ્યાસ વિદ્યાશાખા હેઠળની તમામ કોલેજોનાં આચાર્યશ્રીઓ તથા વિભાગીય વડાશ્રીને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૫-૨૬ થી NEP-2020 અંતર્ગત BRS four Year Honors and BRS(SD) four Year Honors પ્રથમ વર્ષ બાદ Exit થનાર વિદ્યાર્થીઓને સર્ટિફિકેટ એનાયત કરવા સંદર્ભે ૪ ક્રેડિટના વોકેશનલ Exit Course અને દ્વિતીય વર્ષ બાદ Exit થનાર વિદ્યાર્થીઓને Diploma એનાયત કરવા સંદર્ભે પેટાસમિતિ દ્વારા તૈયાર કરવામાં આવેલ ૪ ક્રેડિટના વોકેશનલ Exit Course સંદર્ભે ગ્રામઅભ્યાસ વિદ્યાશાખા અને ગ્રામઅભ્યાસ વિષયની અભ્યાસ સમિતિની તા. ૧૮/૦૩/૨૦૨૫ ની સભાના ઠરાવ ક્રમાંક:૦૩ થી કરેલ ભલામણ સ્વીકારી એકેડેમિક કાઉન્સિલની તા.૦૫/૦૫/૨૦૨૫ ની સભાનાં ઠરાવ ક્રમાંક: ૧૧૩ થી મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

બિડાણ: ઉપર મુજબ

ક્રમાંક:ઓથો./પરિપત્ર/સિલેબસ/૧૨૨૮૬/૨૦૨૫

તા.૩૧-૦૫-૨૦૨૫


કુલસચિવ

પ્રતિ,

૧) યુનિવર્સિટી સંલગ્ન ગ્રામ અભ્યાસ વિદ્યાશાખા હેઠળની તમામ કોલેજોનાં આચાર્યશ્રી તથા વિભાગીય વડાશ્રી.

.....આપશ્રીની કોલેજ/વિભાગના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારૂ.

૨) ડીનશ્રી, ગ્રામ અભ્યાસ વિદ્યાશાખા.

૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.

.....તરફ જાણ તેમજ અમલ સારૂ.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

BRS (SD) & BRS Four Year Honors

Certificate: Vocational Exit Course

Course Title : Natural Farming for Sustainable Livelihoods

CREDIT – 2 (30 Hours)

(Theory: 1 Lecture = 1 credit and 1 hour per week)

practical:1= 1 credit and 2 hours = 1 Lecture per week)

Course Objectives

- Understand the core principles and philosophy of Natural Farming, emphasizing sustainability and ecological balance.
- Learn practical techniques like soil health management, organic inputs, and integrated farming approaches, including Jeevamrut, Beejamrut, Neemastra, Agniastra and Brahmastra preparation.
- Analyze its role in climate resilience, biodiversity conservation, and enhancing farmer livelihoods.

Course Outcomes

- Understand Natural Farming principles and distinguish them from conventional and organic farming.
- Prepare and Apply natural fertilizers, pest control methods, and zero-budget farming strategies using local resources.
- Evaluate its economic, environmental, and sustainability benefits for rural and peri-urban agriculture.

Unit 1: Introduction of traditional Indian agricultural

- Overview of traditional Indian agricultural knowledge and its relevance today.
- Ancient texts on agriculture: Rigveda, Atharvaveda, Krishi Parashara, Vrksayurveda.
- Panch Mahabhuta (Five Elements) and their role in agriculture
- Concept of Rishi-Krishi and Yogic Farming
- Definition and Role of Natural Farming in Sustainable Agriculture
- Difference between Conventional, Organic and Natural Farming

Unit-2: Natural Farming Practices

- Four Pillars of Natural Farming (Beejamrut, Jeevamrut, Acchadana, Whapasa)
- Plant protection in Natural farming.
- Cost Reduction and Income Enhancement for Farmers
- Policy Initiatives and Government Support for Natural Farming

Unit 3: Practical-Preparation of Natural Inputs

Composition, Preparation, Application and benefits of given Natural Inputs

- Jeevamrut: For soil Fertility and nutrient inputs
- Beejamrut: Seed Treatment
- Ghan Jeevamrut: Solid Organic Input for Soil Health
- Preparation of Bio-Pesticides (Neemastra, Agniastra, Brahmastra)
- Practical Exposure: Visit to a Natural Farm or Demonstration of Key Techniques
- Farmer-Led Innovations and Best Practices.

Reference

- Palekar, S. (2016). The Philosophy of Spiritual Farming.
- Fukuoka, M. (2009). One Straw Revolution.
- Government of India Reports on ZBNF and Agroecology.
- ICAR Publications on Natural Farming.
- Farmer-Led Research and Case Studies on Sustainable Agriculture.
- Subhash Palekar (2005), "Zero Budget Natural Farming" – Integration of traditional wisdom in modern farming.
- Fukuoka, M. (2009), "One-Straw Revolution" Parallels between Bharatiya Gyan Parampara and global natural farming movements.
- ICAR and Government of India Reports on indigenous agricultural practices.

BRS (SD) & BRS Four Year Honors
Diploma: Vocational Exit Course
Subject: - Processing and Value Addition in Agricultural Crops

Total Credit: 4
Credits: 3 Theory: 3 hours
Credit: 1 Practical: 2 hours

Purpose of the Subject :-

The purpose of this subject is for students to get information about what is value addition in various agricultural crops, How can the value of the product be increased? etc. To get information about how to process pulses, light grains and cereals. By visiting an agro processing unit, students can do practical work and become financially independent.

CO: 1. Through this Subject, students will gain information about what is value addition in various agricultural crops in the current times? How can the value of the product be increased? etc. and understand the value addition through the processing of agricultural products and its importance.

CO: 2. Students will learn how to process pulses, light grains and cereals. By visiting an agro-processing unit, students can do hands-on work and become financially independent.

CO: 3. To gain knowledge and understanding of value addition and the factors affecting it and use it to gain employment.

CO: 4. Understand the importance of value addition through processing of agricultural products and get inspiration for businesses related to agriculture.

Unit: 1. Value addition.

- What is value addition. Its meaning, concept and why value addition?
- How can the value of the product be increased?
- Factors affecting value addition.
- grains, pulses and their value-added products through modern storage methods.

Unit: 2. Processing of various crops.

- Processing in Legume crops.
- Processing into Light Grains.
- Processing in Wheat, Sorghum and post-harvest processes in Paddy.

Unit: 3. Processing of fruits and vegetables.

- Wastage of fruits and vegetables and its remedies.
- Sorting and grading of fruits and vegetables.
- Post-harvest technology in fruit crops.
- Drying in vegetables.
- Processing of Mango, Chiku, Papaya, Guava, Pomegranate and Custard Apple.

Unit: 4. Practical/Training

- Students will visit an agro processing unit and do hands-on work.

Reference book

1. Dr. R. J. Gajera and Dr. N. V. Soni (2017) Processing and Value Addition in Agricultural Crops, Anand Agricultural University Anand.
2. Fruit Special Issue (2003) Anand Agricultural University, Anand.
3. Dr. A.S. Patel and others, Land Management and Crop Production, University Book Production Board, Ahmedabad.
4. Amit Baran Sharangi, Suchand Datta (2015) Value Addition of Horticultural Crops: Recent Trends and Future Directions, Publisher Springer India.
5. R. Sasi Kumar & P.S. Sivakumar (2012) Agri-Food Crops: Processing, Value Addition, Packaging and Storage nipabook publication.
6. Feagan, R. (2008). Direct Marketing: Towards sustainable local food systems?. Local Environment.