

 Estd. 1962 "A++" Accredited by NAAC (2021) With CGPA 3.52	SHIVAJI UNIVERSITY, KOLHAPUR - 416004, MAHARASHTRA PHONE:EPABX-2609000, www.unishivaji.ac.in, bos@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४, महाराष्ट्र दूरध्वनी-ईपीएबीएक्स -२६०९०००, अभ्यासमंडळे विभाग दूरध्वनी ०२३१-२६०९०९४ ०२३१-२६०९४८७		
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Ref.No.SU/BOS/Science/272

Date: 03/05/2025.

To,

The Principal,
All Concerned Affiliated Colleges/Institutions
Shivaji University, Kolhapur

The Head/Co-ordinator/Director
All Concerned Department (Science)
Shivaji University, Kolhapur.

Subject: Regarding syllabi of after Certificate Course Multiple Entry Multiple Exit (MEME) under the Faculty of Science and Technology as per NEP-2020 (2.0).

Ref: No./SU/BOS/Humanities/285 Date: 18/05/2024.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi, nature of question paper for Certificate Course MEME after completion of B.Sc Part I under the Faculty of Science and Technology as per NEP-2020 (2.0).

1.	B.Sc Part I Organic Farming (NSQF Certificate Course)
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This syllabus, nature of question shall be implemented from the academic year 2025-2026 onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in NEP-2020 (Online Syllabus) for eligibility please refer Rules and Regulation Ref.SU/BOS/Science/532 Dated 03/10/2024.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy Registrar
Dr. S. M. Kubal

Encl: As above

for Information and necessary action

Copy to:

1	Dean, Faculty of Science & Technology	6	Appointment Section A & B
2	Director, Board of Examinations and Evaluation	7	I.T.Cell /Computer Centre
3	Chairman, Respective Board of Studies	8	Eligibility Section
4	B.Sc.-M.Sc. Exam Section	9	Affiliation Section (T.1) (T.2)
5	Internal Quality Assurance Cell (IQAC Cell)	10	P.G. Seminar Section

SHIVAJI UNIVERSITY, KOLHAPUR



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Faculty of Science And Technology

Organic Farming

Based on Practical

Structure, Scheme and Syllabus for NSQF Certificate course

(Subject to the modifications that will be made from time to time)

National Education Policy (NEP-2020) 2.0 w.e.f. 2024-2025

SHIVAJI UNIVERSITY, KOLHAPUR

NEP-2020(2.0): Credit Framework for UG(B.Sc.) Programme under Faculty of Science and Technology

SEM (Level)	COURSES			OE	VSC/SEC	AEC/VEC/IKS	OJT/FP/CEP/CC/RP	Total Credits	Degree/Cum. Cr. MEME
	Course-1	Course-2	Course-3						
SEMI(4.5)	DSC-I(2) DSC-II(2) DSCP-I(2)	DSC-I(2) DSC-II(2) DSCP-I(2)	DSC-I(2) DSC-II(2) DSCP-I(2)	OE-1(2)(T/P)		IKS-I(2)		22	UGC Certificate 44
SEM II (4.5)	DSC-III(2) DSC-IV(2) DSCP-II(2)	DSC-III(2) DSC-IV(2) DSCP-II(2)	DSC-III(2) DSC-IV(2) DSCP-II(2)	OE-2(2)(T/P)		VEC-I(2) (Democracy, Election and Constitution)		22	
Credits	8(T)+4(P)=12	8(T)+4(P)=12	8(T)+4(P)=12	2+2=4(T/P)	--	2+2=4	--	44	Exit Option: 4 credits NSQF/Internship/Skill courses

Students who completed first Year in B.Sc. and does not take admission in Second Year B.Sc. He/She want to exit from B.Sc. programme or course must be completed four credit course of NSQF as per the guidelines given in NEP2.0. After declaration of first year result students immediately within one week apply for NSQF course in concerned Institute . The fees for that course is separate. That course will be start within one week after declaration of result. He/she must be completed that course within one month. After completion of course there is examination on that course for that purpose you should pay separate fee. Examination schedule will be announced by Examination Department of Shivaji University, Kolhapur. Students must complete all necessary activities mentioned in curriculum. After completion and fulfillment of all technical issues completion Certificate is issued by concerned institute to the students. The issued certificate Submitted to University Examination Department then declared his/her result. After getting result He/She is eligible for applying one year diploma certificate.

Course Structure

The course will based practicals, hands on skills and project work.

Curriculum

The curriculum in each of the years of the programme would be a suitable mix of general education and skill development components.

Course Outcomes

Knowledge Outcomes

1. Understand the principles and concepts of organic farming.
2. Know the history and development of organic farming.
3. Familiarize with national and international standards for organic farming.
4. Understand soil science, composting and nutrient management in organic farming.
5. Learn about organic crop production, including seed selection, planting and pest management.
6. Understand organic live stock production, including animal nutrition, health and welfare.
7. Familiarize with organic farm planning, budgeting and marketing.

Skill Outcomes

1. Develop skills in soil testing and analysis for organic farming.
2. Learn composting and Vermicomposting techniques.
3. Develop skills in organic crop production, including seed selection, planting and pest management.
4. Learn organic livestock production skills, including animal nutrition, health and welfare.
5. Develop skills in organic farm planning, budgeting and marketing.
6. Learn record-keeping and certification procedures for organic farming.

Attitude Outcomes

1. Develop an appreciation for sustainable and environmentally friendly farming practices.
2. Understand the importance of soil conservation, biodiversity and ecosystem services.
3. Recognize the organic farming in promoting food security and sustainable livelihoods.
4. Develop a commitment to using organic farming practices that promote environmental stewardship and social responsibility.

Application Outcomes

1. Apply knowledge and skills in organic farming to develop sustainable farming systems.
2. Use organic farming practices to promote soil health, biodiversity and ecosystem services.
3. Develop and implement organic farm plans, budgets and marketing strategies.
4. Integrate organic farming practices into existing farming systems to promote sustainability and environmental stewardship.

A) Ordinance and Regulations: (As per Shivaji University, Kolhapur)

B) Syllabus For Bachelor course in Science and technology

TITLE: Subject-Organic farming under NSQF

Faculty of Science and technology

Year of implementation: - June 2024-25 onwards.

PREAMBLE: (As per guideline of NEP 2.0 accepted by Shivaji University, Kolhapur)

DURATION-

One month

1. STRUCTURE OF COURSE:

Practicals,
One Project / Industry Visit / Study Tour /
Survey / Internship / Hands on training.

2. SCHEME OF EXAMINATION (As per guideline of NEP 2.0 accepted by Shivaji University ,Kolhapur)

A)PRACTICAL

At the end of course there will be external practical examination

Evaluation of the performance of the students in practical shall be on the basis of performance in the examination.

Separate practical

50mks

B) Project/fieldvisit/internship/fieldwork/Handsontraining.

Standard of Passing:

As per the guidelines and rulesNEP2.0(AttachedSeparately–AnnexureI)

FEESTRUCTURE:

As per Government/University rules.

ELIGIBILITY FOR ADMISSION:

Student must be pass semester I and II

As per guidelines obtained from UGC,NSQF and Shivaji University,Kolhapur

DURATION: One Month

MEDIUMOFINSTRUCTION:

As per guidelines obtained from UGC,NSQF and ShivajiUniversity, Kolhapur

STRUCTUREOFCOURSE-OrganicFarming

ELIGIBILITYFOR ADMISSION :Student must be pass B.Sc.semester I and

II ELIGIBILITY FOR FACULTY: 1)M.Sc.with NET/SET/Ph.D.

- **National Education Policy(NEP-2020)2.0**

- **First Year Bachelor of science**

- **Course Structure for 1st year 4 CREDIT, NSQF CERTIFICATE COURSE**

- **With Multiple Entry and Multiple Exit option**
- **(To be implemented from the Academic Year 2024-25)**

Duration one Month									
Teaching Scheme						Evaluation Scheme			
Sr.No.	Course no.	Course	No.of practicals	Hours Per practical	Credits	Practical	Total Marks	Min Marks	Exam Duration (Hrs.)
1.		ORGANIC FARMING	15	4	4		50	18	5

SHIVAJI UNIVERSITY, KOLHAPUR

NSQF Certificate Course

Paper Title: Organic Farming

Course no.

Work Load: 60 hrs

Practical:

Credits: 04

Practical: 50 Mks

Practicals

1. Preparation of FYM, compost and green manuring
2. Preparation of vermin-compost, vermiwash.
3. Preparation of beejamrit.
4. Study of soil fungi by serial dilution method.
5. Study of different biofertilizers used in organically grown different crops.
6. Study of bio-stimulants (Jeevamrit) in organically grown crops
7. Preparation of bio-pesticides.
8. Study of different metrological instruments.
9. Study of different types of soils.
10. Study of p^H of different types of soil by using digital p^H meter.
11. Study of organic content in different types of soil.
12. Study of organic seed treatment for various crop seeds.
13. Study the different methods irrigation used in organic farming
14. Visit to bio-control lab, biofertilizer unit and vermin-composting unit.
15. Project/Field visit/Internship/Fieldwork/Hands on training

REFERENCE BOOKS:

- A.K. Dahama. 2007. *Organic farming for sustainable agriculture*. Agrobios (India), Jodhpur. Arun.
- K. Sharma. 2011. *Handbook of Organic farming*. Agrobios (India), Jodhpur.
- S.P. Palaniappan and K. Annadurai. 2010. *Organic farming – Theory and Practice*. Scientific Publishers. Jodhpur.
- U. Thapa and P. Tripathy. 2006. *Organic farming in India – Problems and Prospects*. Agrotech publishing agency, Udaipur.
- G.K. Veeresh. 2006. *Organic farming*. Foundation Books. New Delhi.
- Purshit, S.S. 2006. *Trends in Organic Farming in India*. AgrosBios (INDIA), Jodhpur.
- Thampan, P.K. 1995. *Organic Agriculture*. Peckaytree Crops Development Foundation, Cochin, Kerala.
- Sathe, T.V. 2004. *Vermiculture and Organic Farming*. Days Publishing House, New Delhi.

e-reading: <http://ecourses.iasri.res.in/>