

University of Mumbai



No. AAMS/ (UG) / 30 of 2022


CIRCULAR:-

Sub :- Certificate Course in Organic Farming.

Ref :- RB/MU-2022/CR-022/Edn-5/536, dated 13th May, 2022.

All the Principals of the Affiliated Colleges, the Head of the University Department and Directors of the recognized Institutions in Faculty of Science & Technology are hereby informed that the recommendations made by the Board of Studies in **Botany** at its online meeting held on 24th August, 2021 **vide** item No. **1 (b)** and subsequently passed by the Board of Deans at its online meeting held on 23rd September, 2021 **vide** item No. **6.7 (N)** have been accepted by the Academic Council at its meeting held on 10th November, 2021, **vide** item No. **6.6 (N)** and subsequently approved by the Management Council at its meeting held on 30th December, 2021 **vide** item No. **3** and that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 74(4) of the Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017) the Ordinance **6755 & 6756** Regulations **9500 to 9503** and the syllabus of **Certificate Course in Organic Farming** has been introduced and the same have been brought into force with effect from the academic year **2022-23**, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032
6th June, 2022
To,


(Sudhir S. Puranik)
REGISTRAR

The Principals of the Affiliated Colleges, the Head of the University Department and Directors of the recognized Institutions in Faculty of Science & Technology.


A.C/6.6(N)/10/11/2021
M.C/3/30/12/2021

No. AAMS/ (UG) / 30 - A of 2022

6th June, 2022

Copy forwarded with Compliments for information to:-

- 1) The Chairman, Board of Deans
- 2) The Dean, Faculty of Science & Technology,
- 3) The Chairman, Board of Studies in Botany,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Director, Department of Information & Communication Technology,
- 7) The Co-ordinator, MKCL,


(Sudhir S. Puranik)
REGISTRAR

Copy for information and necessary action :-

1. The Deputy Registrar, College Affiliations & Development Department (CAD),
2. College Teachers Approval Unit (CTA),
3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),
4. The Deputy Registrar, Academic Appointments & Quality Assurance (AAQA)
5. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),
6. The Deputy Registrar, Executive Authorities Section (EA)
He is requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to the above circular.
7. The Deputy Registrar, PRO, Fort, (Publication Section),
8. The Deputy Registrar, Special Cell,
9. The Deputy Registrar, Fort Administration Department (FAD) Record Section,
10. The Deputy Registrar, Vidyanagari Administration Department (VAD),

Copy for information :-

1. The Director, Dept. of Information and Communication Technology (DICT), Vidyanagari,
He is requested to upload the Circular University Website
2. The Director of Department of Student Development (DSD),
3. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,
4. All Deputy Registrar, Examination House,
5. The Deputy Registrars, Finance & Accounts Section,
6. The Assistant Registrar, Administrative sub-Campus Thane,
7. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,
8. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,
9. P.A to Hon'ble Vice-Chancellor,
10. P.A to Pro-Vice-Chancellor,
11. P.A to Registrar,
12. P.A to All Deans of all Faculties,
13. P.A to Finance & Account Officers, (F & A.O),
14. P.A to Director, Board of Examinations and Evaluation,
15. P.A to Director, Innovation, Incubation and Linkages,
16. P.A to Director, Department of Lifelong Learning and Extension (DLLE),
17. The Receptionist,
18. The Telephone Operator,

Copy with compliments for information to :-

19. The Secretary, MUASA
20. The Secretary, BUCTU.

AC – 10/11/2021
Item No. 6.6 (N)

UNIVERSITY OF MUMBAI



Syllabus for the CERTIFICATE COURSE IN ORGANIC FARMING

(Introduced with effect from the academic year
2022-23)

AC-10/11/2021
Item No. 6.6 (N)

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course 0.6755	Certificate Course in Organic Farming
2	Eligibility for Admission 0.6756	XII th Pass and Farmer
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	Six Months
6	Level	Certificate/Diploma/UG/PG (Strike out which is not applicable)
7	Pattern	Semester/Yearly (Strike out which is not applicable)
8	Status	Revised/New / (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year:2022-2023

Rajendra Shinde

Signature Chairman of BoS
Name of BOS Chairman :-
Dr. Rajendra Shinde

Anuradha Majumdar

Dr. Anuradha Majumdar
Dean, Science and Technology

University of Mumbai

ordinance, Regulations and Syllabus related to the CERTIFICATE COURSE IN ORGANIC FARMING

Ordinance : 6755

Title of Course

‘Certificate Course in ‘Organic Farming’

Ordinance : 6756

Eligibility

A candidate for being eligible at admission to the Certificate Course in ‘Organic Farming‘ must have passed XII standard examination in any stream from Maharashtra State Board of Higher Education or as equivalent thereto. Considering the need of Organic farming farmers can take admissions without age bar.

Regulation : 9500

Duration of Course

The duration of Certificate Course in Organic Farming’ will be of six months.

Regulation : 9501

Intake Capacity:

40 candidates in one batch

Teachers:

Post Graduate in Botany, or Horticulture

M-Phil, Ph.D. and retired.

Government Qualification Senior Officers and experts from Industries, and as per the norms laid down by the University of Mumbai.

Regulation : 9502

Fees

S. N.	Heads	Amount (Rs.)
1.	Tuition Fee	3500
2.	Registration Fee	200
3.	Admission Processing Fee	100
4.	Examination Fee	700
5.	Laboratory Fee	1500
6.	Mark Sheet	50
7.	Study Material & Updating	600
8.	Library Fee	200
9.	Identity Card	50
10.	Onsite Demonstration Charges	200
11.	Computer / Internet Fee	200
12.	Vice Chancellors Fund	20
13.	Student Welfare	20
14.	University Sports & Cultural Activities	20
15.	Disaster Relief Fund	10
16.	Group Insurance	30
17.	Miscellaneous	100
Total Fees:		7500

Regulation:**Examination**

The examination of the Certificate Course will be held in ONE part - at the end of course.

Regulation : 9503**Standards of Passing of Examination**

To pass this six-month Certificate Course in Organic Farming, the candidate must obtain a minimum of 40% marks overall, in respective paper at the end of term exam.

Less than 40 %	- Fail
40 % to 50 %	- Pass
51 % to 59 %	- Second Class
60 % to 74%	- First Class
75 % & above	- Distinction

Regulation:**Pedagogy (Instructional System)**

The instructional system for CCA is based on theoretical lectures, Laboratory Practicals, Projects and field-based visits, Case studies, Audio – video program, case studies, group work, assignments, project and presentation. The course envisages active participation approach of the students.

Regulation:**Course Evaluation**

Project work and presentation:	20 %
Farm Visit and Report writing:	10 %
Practical Exam / Viva etc	: 30 %
End-term test	: 40 %

Regulation:**Course Timing**

Two days in a week (4 hours a day)

The fees for the course are proposed to be Rs. 7500. With the intake capacity of 40 candidates the amount to be collected will be Rs. 3,00,000.00. The recurring expenses are estimated to be Rs. 1,75,000. 00.

The sinking fund for collective expenditure of the center like publicity for the courses, purchase of the implements, Organic fertilizers and pesticide development units, composting units, shade net etc. will be Rs. 95,000.00.

University of Mumbai

Ordinance, Regulations and Syllabus related to the CERTIFICATE COURSE IN ORGANIC FARMING'

Total Hours: 120 hours

PAPER I: Organic farming: Concept and Importance (25 hours)

1. Organic farming: Need and Worldwide status
2. Advantages and disadvantages
3. History of organic farming and components
4. Traditional knowledge of Seed conservation
5. Seed bank for Organic farming

PAPER II: Biofertilizers development and maintenance (25 hours)

1. Nutrient management in Organic farming and soil testing
2. Principles of Organic farming
3. Composting methods and types, Process
4. Mulching for water management and weed management
5. Green manures ,Vermicomposts ,Vermiwash and Azolla development

PAPER III: Biopesticides for Organic farming (25 hours)

1. Introduction and importance.
2. Types of Biopesticides
3. Use and Product Development of Biopesticides
4. Organic insecticides and fungicides
5. Shelf life and sell of Biopesticides

PAPER IV: Practical component.

(45 hours)

1. Jeevamrut making, Vermicomposting, Verm wash making
2. Development of Botanical pesticides
3. Panchagavya making, Beejamrut
4. Soil testing
5. Pests and disease control : sustainable management
6. Product development
7. Field trials.

References:

1. Principles of Organic farming, with theory and practicals, E. Somasundaram, D. Udayanandini, M. Meyyappan.
2. Organic Urban farming, The Indian Way, Prabal Mallik
3. Organic Horticulture, Principles, Practical and Technologies, H. P. Sing
4. Integrated Organic farming Handbook, Dr. H. Panda
5. The World of Organic Agriculture: Statistics and Emerging Trends 2008, Edited by Hege Willer
6. Organic farming for Sustainable Agriculture, Dilip Nandwani, Springer
7. Farm to table Organic Food, English Paper back, Scholastics
8. Sustainable Family Farming and Organic Gardening, Breendon Zontle
9. Organic Farming Book/PDF Agrigyan.in.2020
10. National Organic –Farming Handbook Directives System – USDA
11. Farmer’s Basic Agriculture –Manage, <http://www.manage.gov.in>

Item No. 6.6 Justification

Certificate Course in Organic Farming

i. Necessity of starting this course:

Organic farming is need of the era. Climate change and increasing soil, water and other natural resources and ecosystem are getting deteriorated faster due to heavy use of harmful chemicals in Agriculture. Agricultural lands are loaded with chemical pollutants and crop production is affected badly. Globally people have realized the importance of cost effective and safe use of fertilizers and pesticides as well as post-harvest storage methods in sustainable way. Development of organic fertilizers and pesticides and training of its proper use demands trained force of youth with traditional knowledge and scientific base. Course can fulfill this Global Need of Organic farm development and management for ecosystem conservation as well as health and wealth management.

ii. UGC has recommended to start **skill based** courses under B. Voc. and other heads to generate employment/self-employment with regional biogeographical consideration. National Skill Qualification Framework is encouraging colleges to start such courses.

iii. Course is to be commenced from year 2022 -23

iv. Permanent faculties may not be adequate. Institute has to arrange visiting faculty and expertise on temporary basis which can be good opportunity for fresher as well as skilled masters in respective fields.

v. Duration: 6 months. As these are practical based courses 6 months duration is necessary to train and assess the skills. Can be compressed into three months by increasing weekly hours. But routine examination schedules and availability of infrastructure should not be disturbed.

vi. Intake capacity: 40. Minimum 15 should be enrolled to run the course primarily.

vii. Employment opportunities: Can start consultancy to farmers. Get job at Agrochemical industry with organic base, Fertilizer and pesticide companies. Employment as Agri-based research projects. To work as Gardeners, nursery men, production of fertilizers and pesticides with organic base through start up projects


Chairman BOS
Dr. Rajendra Shinde