INSTITUTE	**FACULTY OF AGRICULTURE**
PROGRAM	**BACHELOR OF SCIENCE (Hons.) AGRICULTURE**
SEMESTER	**6**
COURSE TITLE	**PRINCIPLES OF ORGANIC FARMING**
COURSE CODE	**16AS0601**
COURSE CREDITS	**2**

Objective:

1 To understand the importance of organic farming for sustainability.

2 To distinguish the organic farming from other farming systems and learn the objectives and principles involved in organic farming.

Course Outcomes: After completion of this course, student will be able to:

1 Students will develop knowledge of principles of organic farming in context of improving human health and amelioration of the environment.

2 Students will learn about government schemes and the role of NGOs in producing organic products.

3 Students will develop skill for selection of crops and varieties for best organic produce.

4 Students will develop knowledge of certification methods of organic produce.

Pre-requisite of course: Students will have the knowledge regarding organic farming.

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
1	0	2	50	30	20	25	25

Contents : Unit	Topics	Contact Hours
1	**1** Organic farming, principles and its scope in India	2
2	**2** Components of organic farming, Initiatives taken by Government (central/state), NGOs and other organizations for promotion of organic agriculture	3
3	**3** Organic ecosystem and their concepts	1
4	**4** Organic nutrient resources and its fortification	1
5	**5** Restrictions to nutrient use in organic farming	1

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Contents : Unit	Topics	Contact Hours
6	**6** Choice of crops and varieties in organic farming	1
7	**7** Fundamentals of insect, pest, disease and weed management under organic mode of production	2
8	**8** Operational structure of NPOP	1
9	**9** Certification process and standards of organic farming	1
10	**10** Processing, packaging, labelling, economic considerations and marketing and export potential of organic products	2
Total Hours		**15**

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**1** Preparation of enrich compost, vermin-compost, bio-fertilizers/bio-inoculants	2
2	**2** Indigenous technology knowledge (ITK) for nutrient management	2
3	**3** Non chemical approach for insect, pest disease and weed management	2
4	**4** Cost of organic production system	2
5	**5** Post-harvest management; Quality aspect, grading, packaging and handling	2
6	**6** Certification procedure for organic production	2
7	**7** Visit of organic farms to study the various components and their utilization	2
Total Hours		**14**

Textbook :

1 NA, NA, NA, NA

References:

1 Organic Farming for Sustainable Agriculture, Organic Farming for Sustainable Agriculture, Dahama, A. K., Agrobios, 2014

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References:

2 Organic Farming in India, Problems and prospects, Organic Farming in India, Problems and prospects, Thapa, U. and Tripathy, P., Agrotech Publising Academy, 2006

3 A Handbook of Organic Farming, A Handbook of Organic Farming, Sharma, A. K., Agrobios, 2013

4 Organic Farming – Theory and Practice, Organic Farming – Theory and Practice, Palaniappan, S.P. and Anandurai, K., Scientific Pub., 1999

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking**
25.00	25.00	30.00	10.00	5.00	5.00

Instructional Method:

1 The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board may also use any of tools such as demonstration, role play, quiz, brain storming, MOOCs etc.

2 The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room.

3 Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.

4 Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.

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