



	<ul style="list-style-type: none"> <li>● Identification of manures - organic manures : bulky and concentrated manures.</li> </ul> <p>Fertilizers : Identification and preparation of straight, complex and mixed fertilizers</p> <ul style="list-style-type: none"> <li>● Fertilizer recommendation and calculation for major crops</li> <li>● Yield estimation of crops - biological yield and economical yield</li> </ul>		Practical		
<b>III</b>	<ul style="list-style-type: none"> <li>● Importance and scope of organic farming</li> <li>● Components and methods of organic farming</li> <li>● Organic manures and methods of organic manure production</li> <li>● Certification process and standards of organic farming</li> </ul> <p>Practical</p> <ul style="list-style-type: none"> <li>● Farm visits</li> <li>● Visit to organic farms to study cultivation of organic crops</li> <li>● To learn about commercial aspect of organic farming</li> <li>● Familiarization of green manure crops and cover crops</li> <li>● Preparation of vermi-compost and their methods</li> <li>● Study and field application of bio-fertilizers</li> <li>● Plant protection through bio-agents and traps</li> </ul>		Theory	05	20
<b>IV</b>	-	-	-	-	-
<b>V</b>	-	-	-	-	-
<b>VI</b>	-	-	-	-	-

**Suggested Readings:**

1. Havlin, J.L., Beaton, J.D., and others. 2006. *Soil Fertility and Fertilizers : An introduction to Nutrient Management* (7 ed.), Pearson Education, ICAR 2006.
2. *Handbook of Agriculture*. ICAR. New Delhi. De, G.C. 1989.
3. Balasubramanian, P and Palaniappan, S.P. 2001. *Principles and Practices of Agronomy*. AgroBios (India) Ltd. Jodhpur.
4. De, G.C. 1989. *Fundamentals of Agronomy*. Oxford & IBH Publishing Co., New Delhi.
5. Noor Mohammed. 1992. Origin, diffusion and development of agriculture. In : Noor Mohammed (ed.), *New Dimensions in agricultural geography: Vol.I Historical Dimensions of agriculture*. Concept publishing Co., New Delhi.

**Suggested Digital platforms/ web links for reading- NA**

**Suggested OJT/ Internship/ Training/ Skill partner -**

**Suggested Continuous Evaluation Methods: Theory, MCQs, Practical, Project, Viva voce**

**Course Pre-requisites:**

- No pre-requisite required, open to all

- To study this course, a student must have the subject Economics in class/12<sup>th</sup>/ certificate/diploma
- If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses:

Any remarks/ suggestions:

Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)