

THEORY

Farming system, scope, classification, components of farming system. Interaction between components. Cropping system. Complementary and competitive interaction. Effect of preceding crops and associated crops. Indices of evaluation for cropping systems. Agronomic requirements in management of cropping system. Cropping scheme. Sustainable agriculture. Role of integrated farming system in sustainable agriculture. Factors governing choice and size of enterprises and resource allocation in farming system. Organic farming. Resource management under constraint situations. Low Input Sustainable Agriculture (LISA) concepts and principles. Low cost technology and non monetary inputs.

PRACTICALS

Study of different cropping systems. Complementary and competitive interaction. Determining the agronomic requirements in management of cropping system. Cropping scheme. Sustainable agriculture. Organic farming. Resource management under constraint situations.

BOOKS RECOMMENDED

1. Byerlee, D. and T. Hussain. 1992. Farming Systems of Pakistan. Vanguard Books Pvt. Ltd. Lahore.
2. Dixit, R.S. 2007. Cropping systems research. Kalyani Pub. New Dehli.
3. Kay, R.D., W. M. Adwards and P.A. Duffy. 2004. Farm Management. 5th Ed. McGraw-Hill Co., Inc., New York.
4. Jayanthi *et.al.*, 2002. Integrated Farming System: A Path to Sustainable Agriculture. TNAU publication Nol.14/2002
5. Panda, S.C. 2003. Cropping and Farming systems. Agro bios, Jodhpur, India.
6. Rangasamy, A., K. Annadarai, P. Subbian and C. Jayanthi. 2002. Farming Systems in the Tropics. Kalyani Publishers, India.
7. Shrestha, A. 2003 Cropping System. Food Products Press. Haworth Press, Inc. Binghamton, New York.