Syllabus for B.Sc. (Hons) Agriculture Year – I (Sem. I)

Subject Code: 16AS0109

Subject Short Name: Agron. 1.1

Subject Name: Farming based livelihood systems

Objective:

1. To make the students aware about farming-based livelihood systems in agriculture
2. To disseminate the knowledge and skill how farming-based systems can be a source of livelihood

Credits Earned: 3 Credits (2+1)

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

- Analyze the status of agriculture and livelihood patterns in India.
- Identify and evaluate different farming-based livelihood models.
- Assess the feasibility and integration of various farming enterprises.
- Understand government schemes and support systems for farming livelihoods.
- Develop practical skills in project formulation and profitability analysis of farming enterprises.

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	Mid Sem (M)	Progressive Assessment (PA)	Viva (V)	Term work (TW)	
2	0	2	3	40	20	20	10	10	100

Theory Content:

Unit	Topics	Contact Hours
1	Status of agriculture in India and different states	**2**
2	Income of farmers and rural people in India, Livelihood-Definition, concept and livelihood pattern in urban and rural areas	**2**
3	Different indicators to study livelihood systems	**1**

4	Agricultural livelihood systems (ALS): Meaning, approach, approaches, framework and case studies	**1**
5	Definition of farming systems and farming based livelihood systems Prevalent Farming systems in India contributing to livelihood	**2**
6	Types of traditional and modern farming systems	**1**
7	Components of farming system/ farming-based livelihood systems- Crops and cropping systems	**2**
8	Livestock-Based Farming Systems, Horticultural crops and livelihoods & Agro--forestry systems	**2**
9	Aquaculture as a Livelihood System and Challenges in Aquaculture based System	**1**
10.	Small, Medium and Large Enterprises in Farming	**1**
11.	Factors affecting integration of various enterprises of farming for livelihood	**1**
12	Feasibility of different farming systems for different agro-climatic zones, Commercial farming-based livelihood models by NABARD, ICAR and other organizations across the country, Case studies on different livelihood enterprises associated with the farming	**2**
13	Risk and success factors in farming-based livelihood systems	**2**
14	Schemes and programs by Central and State Government, Public and Private organizations involved in promotion of farming-based livelihood opportunities	**2**
15	Farming-based livelihood enterprises in 21st Century and impact of digitalization and changing life style	**2**
	Total	**24**

Practical Content:

Unit	Topics	Contact Hours
1	Survey of farming systems and agricultural based livelihood enterprises	**2**
2	Study of components of important farming-based livelihood models/ systems in different agro-climatic zones	**2**
3	Study of production and profitability of crop based, livestock based, processing based and integrated farming-based livelihood models	**2**
4	Field visit of innovative farming system models	**2**
5	Visit of Agri-based enterprises and their functional aspects for integration of production, processing and distribution sectors	**2**
6	Study of agri-enterprises involved in industry and service sectors (Value Chain Models)	**2**
7	Learning about concept of project formulation on farming-based livelihood systems along with cost and profit analysis	**2**
8	Case study of Start-Ups in agri-sectors	**2**
	Total	**16**

Reference Books:

- Ashley, C. and Carney, D. 1999. Sustainable Livelihoods: Lessons from Early Experience; Department for International Development: London, UK; Volume 7.
- Agarwal, A. and Narain, S. 1989. Towards Green Villages: A strategy for Environmentally, Sound and Participatory Rural Development, Center for Science and Environment, New Delhi, India
- Dixon, J. and A. Gulliver with D. Gibbon. 2001. Farming Systems and Poverty: Improving Farmers' Livelihoods in a Changing World. FAO & World Bank, Rome, Italy & Washington, DC, USA
- Panwar et al. 2020. Integrated Farming System models for Agricultural Diversification, Enhanced Income and employment, Indian Council of Agricultural Research, New Delhi.

Suggested Theory distribution:

The suggested theory distribution as per Bloom's taxonomy is as per 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	Understand	Apply	Analyze	Evaluate	Create
25%	25%	20%	10%	10%	10%

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 white 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 class-rooms.
3. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory/ field.
4. Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.