

SHRI GURU RAM RAI UNIVERSITY

(Estd. by Govt. of Uttarakhand, vide Shri Guru Ram Rai University Act no. 03 of 2017)

COURSE SYLLABI

For Value Added Course Programme

ON

HILL AGRICULTURE



Effective from Academic Session

Patel Nagar, Dehradun-248001, Uttarakhand

VALUE ADDED COURSE**HILL AGRICULTURE**

Course code: VCSAS003

Duration: 30 Hrs

Name of Coordinator	Office Address	Office Number	Email ID
Prof (Dr.) PriyankaBankoti	SAS, Pathribagh Campus, SGRRU	9761954004	priyankabankoti@sgrru .ac.in

Course Objectives:

1. To impart the basic knowledge about agro-ecological zones of India
2. To develop understanding of mechanization for hilly areas.
3. To develop the skills to analyze soil and water conservation techniques.
4. To impart the knowledge of improved crop varieties for doubling farmers income

Eligibility for registration in the course

Any student of SGRR University can be registered in value added course in “Hill Agriculture”

Examination and Evaluation

As per university norms.

SYLLABUS

Module I (Total Topics-10 and Hrs.8)

Agro-climatic and topographical parameters prevailing in hills of India. Soil composition, pH, texture, fertility and productivity of soils in hilly region. Soil and weather constraints in hills of India. Different tillage operation required for sustainable agriculture in hills.

Module II (Total Topics-12 and Hrs.8)

Improved crop Production technology of field crops, vegetable crops and fruit crops suitable for temperate regions viz. millets, cereals, pulses, Medicinal plants, spices and condiments, traditional fruits and vegetables grown wild in forest of hills.

Module III (Total Topics-10 and Hrs.8)

Role of women in hill agriculture, limitations and opportunities for agribusiness related in hills, Role of government and non governmental bodies for upliftment of farmers in hills, Research and extension programmes for enhancing farm returns.

Module IV (Total Topics-10 and Hrs.6)

Integrated hill farming and watershed management. Alternate land uses for community needs and conservation. Wild animal menace in agriculture and strategies for its management. government schemes for farmers. Organic farming in hills

Course outcomes (CO) :

on successful completion of course the student will be able to:
CO 1: Identify the crops, farm implements and manures.

CO 2: summarize improved for crop production technologies.

CO 3: prepare farming system models for hill agriculture.

CO 4: integrate alternate land use system and watershed management.

Suggested Readings:

- Hartmann, H.T., Kester, D.E., Davies, F.T. and Greneve, R.L. 1997. Plant propagation – Principles and Practices, Prentice Hall of India Private Ltd., New Delhi.
- Prasad, S. and Kumar, V. 1999. Green House Management of Horticultural Crops, AgroBios India, Jodhpur
- Kanwar, J.S. (Ed.). 1976. Soil Fertility: Theory and Practice. ICAR.
- Olson, R.A., Army, T.S., Hanway, J.J. & Kilmer, V.J. 1971. Fertilizer Technology and Use. 2nd Ed. Soil Sci Soc. Am. Madison.
- Prasad, R., & Power, J.F. Soil Fertility Management for Sustainable Agriculture. CRC Press
- Sankhayan, P.L., 1988. Introduction to the Economics of Agricultural Production, Prentice Hall of India, New Delhi
- Yadav, A.K. 2005. Training Manual on Certification and Inspection Systems in Organic Farming in India National Centre of Organic Farming, Ghaziabad
- Panda, S.C. 2009. Cropping and farming systems, Agribios. India.
- Singh, C. Singh P. and Singh, R. 2017. Modern Techniques of Raising Field Crops. Oxford and IBH Pub. Co. Pvt. Ltd., New Delhi.
- Das, N.R. 2007. Introduction to Crops of India. Scientific Publishers, Jodhpur.