

UNIVERSITY AT A GLANCE



Sher-e-Kashmir

***University of Agricultural Sciences and Technology of
Kashmir, Shalimar, Srinagar-190 025***

Accreditation

Organization	Faculties
• Indian Council of Agricultural Research (ICAR)	➤ All
• Veterinary Council of India	➤ Veterinary Sciences & Animal Husbandry
• AICTE	➤ Agri. Engineering
• Department of Science & Technology (DST-Star College)	➤ Agriculture ➤ Veterinary Sciences & Animal Husbandry
• Indian Council of Forestry Research and Education (ICFRE)	➤ Forestry

National Ranking

12th Among Agricultural Institutions



Prof. (Dr.) Mushtaq Ahmad
Vice-Chancellor

From Vice Chancellor's Desk

Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir is committed to strive for food, nutritional and livelihood security by producing future technocrats with competitive skills, foster innovations for technology development and promote dynamic Agriculture Extension Services. The University as of now has emerged as a leading University in Hill and Mountain Agriculture testified by its 12th rank among the Agricultural Institutions of the country. At present the University offers 07 Undergraduate, 60 Masters and 46 Doctorate degree programmes under various Faculties, adopting the curriculum and syllabi as recommended by the respective Deans' Committees and approved by Indian Council of Agricultural Research, New Delhi and Veterinary council of India (for Veterinary Sciences & Animal Husbandry programs). The university programmes are accredited by ICAR and other statutory bodies viz. VCI, DST, and ICFRE. The quality of instruction in the University is reflected by being consistently among top rankers in ICAR-JRF qualifiers as well as substantial number of students qualifying prestigious examinations like KAS, IAS, IFS, NET and ARS. The University is adopting multi-disciplinary and location-specific approach to address the issues confronting agriculture development. The focal areas have been to address mainstream production systems, Niche based areas, promotion of hi-tech farming systems as well as small entrepreneurship-based livelihood systems and to effectively address gender specificities in farming systems. In terms of capacity building, University got various centers of excellence in frontier areas of research and has also won accolades for best performances in AICRPs. The University has been functioning in a dynamic state constantly evolving in all its spheres to meet the emerging economic challenges and promote knowledge based economy.




Prof. Mushtaq Ahmad

PREAMBLE



Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, an autonomous organization was established vide SKUAST—Act 1982. The act was passed by the erstwhile J&K State Legislature in the 33rd year of the Republic of India on 31st of March, 1982 which came into force on 1st of August, 1982 with its jurisdiction over the entire State of Jammu and Kashmir with headquarter at Shalimar, Srinagar. Its territorial jurisdiction was redefined to Kashmir Division (Kashmir valley and Ladakh), by amendment of the act in 1999 with the establishment of SKUAST-J for Jammu Division. After reorganization of erstwhile State of Jammu and Kashmir into two Union Territories (UT of J&K and UT of Ladakh), vide J&K Reorganization Act 2019, SKUAST-Kashmir continues to cater the two unique agro-ecological regions—the Mid-High Altitude Temperate Zone (Kashmir Valley) and Cold-Arid Region (Ladakh). The challenges faced by the agriculture and allied sectors in these regions are unique which have become more complex under the scenario of climate change. However, the unique biodiversity provides excellent opportunities for harnessing benefits not only to meet the domestic requirements and support sustainable

state economy, but also to be leaders in certain areas. SUAST-K pledges to emerge as a premier institution specialized in Mountain and Hill agriculture.

Mission

- University is committed to provide food, nutritional and livelihood security by producing excellent human resource, innovative technologies and their dissemination and to become a leading University in Hill and Mountain Agriculture.

Goal

- To produce human resource in Hill Agriculture and allied disciplines that serve the UT/ country and society at large;
- To develop technologies for solving farmers' problems in agriculture and allied sciences as well as disseminate them;
- To improve productivity, profitability and employability.

Mandates

- Imparting education in different branches of study like Agriculture, Horticulture, Veterinary and Animal Sciences, Forestry, Fisheries, Agricultural Engineering, Home Science, Environmental Science, Sericulture, and other allied sciences.
- Undertake strategic and applied research in agriculture and other allied fields with emphasis on temperate and cold arid agriculture.
- Dissemination of such sciences and technologies to the rural and hill farming community through extension services, and
- Such other purposes as the University may form from time to time.

CONSTITUENT UNITS OF THE UNIVERSITY

DIRECTORATES

- Education
- Research
- Extension
- Planning & Monitoring

FACULTIES

- Agriculture
- Horticulture
- Fisheries
- Forestry
- Veterinary Sciences & Animal Husbandry

COLLEGES

- Temperate Sericulture
- Agricultural Engineering & Technology

RESEARCH INSTITUTES/ CENTRES/ STATIONS

Mountain Agro-ecosystem-I (Temperate)

1. Dryland (Karewa) Agriculture Research Station, Budgam
2. Advanced Research Station on Saffron and Seed Spices, Pampore
3. Mountain Agriculture Research and Extension Station, Gurez
4. Mountain Crop Research Station, Sagam, Anantnag
5. Mountain Research Centre for Field Crops, Khudwani
6. High Altitude Maize Research Station, Larnoo, Anantnag
7. Temperate Sericulture Research Institute, Mirgund
8. Mountain Livestock Research Institute, Manasbal
9. Ambri-Apple Research Centre, Shopian
10. Urban Technology Park, Habbak
11. Centre for Pastureland and Fodder Research, Manasbal
12. Mountain Research Centre for Sheep and Goat, Shuhama
13. Centre for Research on Poultry, Shuhama
14. Centre for Mountain Wildlife Sciences, Banihama.

Mountain Agro-Ecosystem-II (Cold arid)

1. High Mountain Arid Agriculture Research Institute, Leh
2. Mountain Agriculture Research and Extension Station, Kargil

KRISHI VIGYAN KENDRAS

1. KVK Pulwama
2. KVK, Srinagar
3. KVK Kupwara
4. KVK Bandipora
5. KVK Kulgam
6. KVK Kargil
7. KVK Leh,
8. KVK Budgam
9. KVK Ganderbal
10. KVK Anantnag
11. KVK Shopian
12. KVK Leh-II, Nyoma
13. KVK Kargil-II, Zanaskar,

DIRECTORATE OF EDUCATION

Vision:

SKUAST-K as a leading institution in agricultural education fostering development of next generation technocrats and a hub for promotion of knowledge based economy.

Mission:

A dynamic educational system for promotion and development of technical manpower to meet the emerging challenges in agriculture and allied sectors.

Goal:

- To make agricultural education system responsive to the growing and changing needs of the society in general and aspirations of the farming community in particular.
- Improving quality of agricultural education through novel approaches in teaching, research and outreach activities.

Mandates:

- Train a highly skilled and competent manpower in agriculture and allied sectors to address the challenging tasks with



SKUAST-K Library e-resources



Educational Tour



Experiential Learning



Career Counselling

new emerging areas of research, extension and farm enterprise.

- Strengthening and development of Higher Agricultural Education by linking education with innovation and entrepreneurship.
- Development of young leaders in agricultural sciences.

Undergraduate Degree Programmes					
Programme	Duration		Credit Hours		
	Years	Semesters	Course Work	Internship	Total
B.Sc. (Hons) Agriculture	04	08	144	40 (RAWE)	184
B.Sc. (Hons) Forestry	04	08	141	40 (RAWE)	181
B.V.Sc. & A.H.	4 ½ yr+ 1 yr internship		81	1 year Internship	81
B.F.Sc	04	08	140	40 (RAWE)	180
B.Sc. (Hons) Horticulture	04	08	140	40 (RAWE)	180
B.Sc. (Hons) Sericulture	04	08	132	40 (RAWE)	172
B. Tech (Agri. Engineering)	04	08	142	40 (In-plant training)	182

Postgraduate Degree Programmes					
Programme	Duration		Credit Hours		
	Years	Semesters	Course Work	Research	Total
M.Sc.(Agri./ Horti/ Seri./ Forestry/ Fisheries), M. Tech	02	04	35	20	55
M.V.Sc.	02	04	40	20	60
Doctorate	03	06	30	45	75

DIRECTORATE OF RESEARCH

Vision:

The leading University of National Agricultural Research System (NARS) in Mountain Agriculture Research and Technologies”.

Mission:

Achieve food and income security from farming based livelihoods to help farmers of Kashmir and Ladakh region through technological support services of the University.

Goal:

- Make SKUASAT-Kashmir a leading institution in Hill and Mountain Agricultural Research.
- Foster technology development to meet the demands of small land holdings in hilly terrains.
- Foster research to mitigate the challenges of climate change in Temperate and Cold Arid Agro-climatic regions.
- To promote exploitation of Niche Agriculture through Research and Development.



Value chain for inshelled walnuts



SKUA-540 semi-fine grain and mild aromatic rice variety



Whole Cell Footrot Vaccine



SKUAST-K Matrix Assisted Reporter gel (Smart Gel for pH)

Mandates:

- Foster research aimed at conceptual advances in all disciplines for technology development.
- Develop suitable end-use technologies, using modern agricultural science.
- Establish state-of-art infrastructure including well equipped laboratories, farmlands and an efficient operational research management system.
- Attract qualified and talented personnel for undertaking research in the University.
- Development of technologies whose adoption addresses the problems of the farming community in the region.
- Create necessary infrastructure for conduct of basic, strategic and applied research using cutting edge science and technology interventions.
- To document problems that require immediate attention and identify thrust areas, with relevance for future, to direct long term research initiators.

S.No.	Funding Agency	No. of Projects	Total Outlay (Rs. Lakhs)
1.	RashtriyaKrishiVikasYojna (RKVY)	1	540.00 (62.40)
2.	National Bank for Agriculture and Rural Development (NABARD)	7	61.81
3.	Indian Council for Agricultural Research (ICAR)	17	2042.158
4.	Department of Science & Technology, GoI (DST)	22	807.9992
5.	Department of Biotechnology, GoI (DBT)	21	911.21
6.	Mission for Integrated Development of Horticulture (MIDH, GoI)	3	110.85
7.	Ministry of Earth Sciences, India Meteorological Department	2	49.14
8.	Ministry of Food Processing Industries (GOI)	2	736.84
9.	Indian Council of Medical Research	3	216.44
10.	Protection of Plant Varieties and Farmers Rights Authority, Ministry of Agriculture, Deptt. of Agriculture and Cooperation, New Delhi	2	36.00

11.	National Bee Board, Ministry of Agriculture, Deptt. of Agriculture and Cooperation, New Delhi	1	166.70
12.	National Medicinal Plants Board, Ministry of AYUSH, New Delhi	4	176.6
13.	Science & Engineering Research Board (SERB)	13	597.27
14.	Defense Research & Development Organization HQ (DRDO)	1	23.09
15.	G. B. Pant Institute of Himalayan Environment and Development (GBPIHED) under National Mission on Himalayan Studies	13	517.42
16.	Ministry of Agriculture and Farmers Welfare (GoI)	1	150.0
17.	Students Research Projects		
I	Department of Science & Technology	4	130.85
ii	Department of Biotechnology Government of India	1	40.00
iii	Centre for Scientific & Industrial Research	1	18.00
18.	Collaborative Projects		
i.	National Collaborative Projects	3	300.50
ii.	M/S TrichoAgronica Pvt. Ltd. MRIIRS, Sector-43, Aravali Hills, Faridabad, Haryana, 121005	1	6.72
iii.	International Rice Research Institute (IRRI)	5	193.43
iv.	Indo-Dutch Collaborative project (SKUAST-K and Verbeek)	1	150.00
v.	European Union	1	30.00
vi.	International Potash Institute, Switzerland	1	6.30 1*insttl

DIRECTORATE OF EXTENSION

Vision:

Agrarian systems as a hub of sustainable economy, food sufficiency and socio-economic prosperity of the farming community.

Mission:

Upliftment of the social, economic, health, and educational status of the farming community by promoting agriculture based economy through skill development and technology orientation for optimal utilization and integration of agriculture systems and human resources.

Goal:

- Make extension system a vibrant platform for technology backstopping, development of next generation technocrats, and forward / backward linkages for holistic development of agriculture sector.
- Optimizing production and productivity (through technological dissemination/ demonstration)



Training



Women Empowerment



Skill Development



PGDAEM Contact Classes



Farmers Visit

- Safe food production (through promotion of
- Good Farming Practices)
- Creation of job opportunities in agriculture systems (through agri-preneurships).

Mandates:

- Building excellence in Human Resource Development to generate skilled human resources for meeting the challenges in agri-systems’ value chain through scientific approaches.
- Dissemination of innovations, technologies and marketing strategies to the stakeholders through strong forward and backward linkages.
- Fostering entrepreneurship in agriculture systems through incubation and technology backstopping.



Cyber Extension



DIRECTORATE OF PROJECT PLANNING AND MONITORING

Vision:

A strategically planned university enabling a distinctive future.

Mission:

To facilitate, influence and support effective planning, monitoring and evaluation of government programmes aimed at improving service delivery, outcomes and impact on society.

Goal:

- To be among top 10 SAUs in the country
- To be leading Hill and Mountain Agricultural University in the country
- To be accredited internationally for select courses
- Churn leaders of tomorrow: agri-business executives, Industry leaders, Policy Planners
- To be the destination for national and international students /scholars
- To make J & K a Model Bio-economy State
- Achieve 100% placement of students
- Inspire our graduate students to swarm the premier national institutes and SAUs beyond IARI, NDRI , IVRI, PAU, HAU, TNAU
- Enable Discovery-cum-Incubation Centre for translational research
- Make SKUAST-K destination for industries for campus recruitments.

Mandates:

- Establish the Strategic Planning and Monitoring Center of SKUAST-K for delivery of best practice outcomes
- Work closely with the Hon'ble Vice Chancellor to set, monitor and review the University's Strategic Direction and integrated planning process to ensure its organizational development, sustainability and growth

- Build a high performing team / task force, characterized by discipline, delivery, outcome and excellence to realize the strategic plans.
- Work collaboratively across the Faculties and Divisions to develop enabling strategies and integrated plans that support the University-wide Vision 2030 Strategy.
- Identify opportunities for the University to increase impact, revenue and funding opportunities to support strategies.
- Monitor and evaluate the progress of key initiatives against the University’s objectives.
- Assess departmental strategic plans and Annual Performance Plans to ensure alignment with long term and short term plans
- Carry out evaluations
- Promote good planning and M&E practices in government.

Annual Plan for 2020-21 and 2021-22:

	2018-19	2019-20	2020-21	2021-22
Regular Capex	985.00	785.00	1569.00	1976.73
Languishing Projects		1084.54	803.00	0.00
NABARD		0.00	440.00	440.00
CSS (NAHEP)				
• Central Share		591.15	1425.00	410.0
• State Share		45.00	150.00	150.0
Total	985	2505.69	4387.00	2976.73

- **New Developmental Programs:** Earned **Rs 30 crore** project on “Institutional Development Plan for SKUAST-K under **National Agricultural Higher Education Program**”. The project is sponsored by ICAR-World Bank

FACULTY OF AGRICULTURE

The Faculty of Agriculture was established in 1960 by J & K Government as College of Agriculture at Sopore and later shifted to Wadura Campus, District Baramulla, Kashmir, in 1966.

The College became constituent Unit of SKUAST in 1982-83 and was rechristened as Faculty of Agriculture and Regional Research Station in 1983-84.

The Faculty is spread over an area of 91.80 ha housing administrative building, various departments, laboratories, class rooms, boys and girls hostels and instructional and Research farms.

The Faculty has excellent infrastructure with state of art –class rooms, well equipped laboratories, play fields, hostels and well qualified faculty.

It offers B.Sc (Hons) Agri (4 years program) and Post Graduate and Doctoral programmes in Agronomy, Economics & Statistics, Extension & Communication, Biochemistry, Entomology, Genetics and Plant Breeding, Microbiology, Plant Pathology, Plant Physiology and Soil Science.



FACULTY OF HORTICULTURE

Faculty of Horticulture was created during the year 2006-7 and started functioning from Main Campus, Shalimar from 2014.

The under graduate programme in (B.Sc. Hons Horticulture) was initially started during 2006 under Faculty of Agriculture, Wadura, and was shifted in 2014 to Faculty of Horticulture, Shalimar.

The Faculty offers Post Graduate and Doctoral programmes in 11 disciplines viz. Fruit Science, Vegetable Science, Floriculture & Landscape Architecture, Post Harvest Technology, Food Technology, Biotechnology, Entomology, Plant Pathology, Soil Science, Statistics, Agricultural Economics and Marketing, Environmental Science.

The Faculty has start of art infrastructure in terms of smart class rooms, specialized research laboratories / facilities, research farms, students amenities including boys and girls hostels, library, health care facility, etc.



FACULTY OF FORESTRY

The Faculty of Forestry was established in 1986-87.

The first batch of forestry graduates completed their degree in 1990-91.

The Faculty was shifted in 2015 to its allocated campus as Benhama, Ganderbal, spread over an area of 50 hectares.

At present, it has six Divisions and besides ICAR is also accredited by Indian Council of Forestry Research and Education (ICFRE).

The Faculty is offering B.Sc. (Hons) Forestry and Post Graduate/ Ph.D. Programmes in Silviculture and Plantation Technology, Forest Biology and Tree Improvement, Wood Science and Technology, Forest Ecology and Natural Resource Management, Forest Biometry and Business Management and Agro-forestry and Watershed Management.



FACULTY OF FISHERIES

Faculty of Fisheries was established in 2005 and is country's first Faculty (College) specializing Coldwater / Hill Fisheries.

The Faculty has developed a strong infrastructural base for academics, research and extension.

At present the Faculty offers Undergraduate (B.F.Sc) and postgraduate (M.F.Sc and PhD) degree programmes in nine Divisions, viz., Fishery Biology, Aquaculture, Aquatic Environment Management, Fish Nutrition & Biochemistry, Fish Genetics & Biotechnology, Fish Pathology, Fishery Engineering, Post-Harvest Technology and Social Sciences. The Faculty is the only institution in the country imparting Resident Instruction programmes in Fishery Science specific to temperate fresh waters.

Besides its primary mandate of Teaching, Research & Extension, the college has become a common facility for other hill states of the country like Arunachal Pradesh, Sikkim, Uttaranchal and Himachal Pradesh for Human Resource Development specific to hill/coldwater fisheries. The Academic Council of SKUAST (K) has approved reservation of one seat each in BFSc & MFSc degree programmes for all these States. Nominees from these states are already leveraging the benefit under this provision.



FACULTY OF VETERINARY SCIENCES& ANIMAL HUSBANDRY

F.V.Sc. & A.H. was established in 1984-85 and shifted to its actual campus at Shuhama with an area of 106.5 ha. in 1990.

Initially established with five Divisions, the Faculty was reorganized into eighteen Divisions besides Veterinary Clinics, in the year 2000.

The Faculty, after 2005 has focused on advanced arenas of teaching and research with a parallel growth in supportive facilities viz. strengthening of Laboratory and Library facilities, and other students amenities.

The faculty has gained national reputation under Star College Status sponsored by Department of Science & Technology, MoST, GoI.

The Faculty besides offering 5½ years UG Programme (B.V. Sc. & AH), offers postgraduate (M.V.Sc.) in 19 disciplines and PhD programmes in 17 disciplines.



COLLEGE OF TEMPERATE SERICULTURE

The college of Temperate Sericulture, an erstwhile Temperate Sericulture Research Institute is located at Mirgund over an area of 20 ha.

The resident instruction program in this college started with the institution of Masters in Sericulture in 1999 and Undergraduate from 2006.

The institute has excellent infrastructure for teaching and research in temperate Sericulture and offers academic programmes viz. B.Sc. (Hons) Sericulture and Post-Graduate Programmes in Sericulture with specialization in Mulberry Production and Management, Silkworm Production and Management, Non-Mulberry Sericulture, Silkworm Seed Technology, Silkworm Breeding and Genetics, Silk Weaving, Dying and Printing Technology, Silkworm Pathology and Silkworm Physiology.



COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY

Located in main campus of SKUAST- Kashmir at Shalimar, Srinagar, the CoAET was initially established as a Division under Faculty of Agriculture in 1987 and upgraded to the status of College in 2019.

B. Tech. Agri. Engineering (UG) was started in 2006 and M. Tech and PhD were instituted in a phased manner from 2012.

At present the college has six division viz. Farm Machinery and Power Engineering; Soil and Water Conservation Engineering; Processing and Food Engineering; Irrigation and Drainage Engineering; Renewable Energy Engineering; and Basic Engineering and Applied Science.

The main facilities include Farm Power Laboratory, Engineering Workshop, Farm Machinery Testing Centre, CAD Laboratory, Soil and Water Engineering Lab, Processing and Food Engineering Lab, Farm Machinery Display Hall, Research Farm.



RAJIV GANDHI CHAIR

A prestigious National Chair “The Rajiv Gandhi Chair’ for livelihood security instituted by the UGC and accredited by the Academic Council for conduct research and admitting students in MSc and Ph.D. programs in an interdisciplinary mode.



Summer School



National Symposium



Meeting of State Level officers

Mandates

- To coordinate and provide a think tank in the area of the studies drawing expertise and inputs from academics and experts from other sectors like government and national/international NGO's.
- To provide a forum for inter-University/inter college P.G. and research level dialogues, discussion meetings, summer/winter institutes, involving other Universities/autonomous institutions/P.G. centres.
- To design and execute capacity building programmes for teachers in higher education focused towards the designated discipline of the chair.
- To strengthen the role of Universities/Academics in public policy making.
- To conduct short term courses in the concerned disciplines.

DRYLAND (KAREWA) AGRICULTURE RESEARCH STATION (DARS), BUDGAM

The research Station, “KD Research Station”, was handed over to SKUAST during its establishment in 1984 and was later rechristened as “Dryland Agriculture Research Station” (DARS). It has a total area of 100 Acres.



Vision: Food, Nutritional and Inclusive Growth in Rainfed Crops of J and K.

Mission: To Address challenges of climate vulnerability in rain fed areas utilizing approaches of improved technology, rain water harvesting, solar power harnessing, farm mechanization and enhanced energy efficiency

Goal: Doubling of farm income and productivity in rainfed ecologies through climate resilient agriculture.

Thrust Areas

- To develop varieties in Maize , Pulse and Forage crops for Temperate Niches J and K.



- To develop genetic stocks for various biotic and abiotic stresses in Maize, Pulse and Forage crops
- To identify problems and prospects for growing quality enriched crops in Maize, Pulses and Forage crops
- To develop INM, IPM and IDM modules for in Maize, Pulses and Forage Crops
- To carry out seed production of released varieties for augmenting the seed scenario in J and K



Achievements

Released 37 varieties in Maize, Pulse and Forage Crops both at National and State Level along with fifteen management related technologies for rainfed agriculture. Some of the landmark varieties are Shalimar Pop Corn-1, C-15, Shalimar Rajmash-2, Shalimar Moong-3, Shalimar Fodder Oats-3 and Shalimar Fodder Oats-6

ADVANCED RESEARCH STATION ON SAFFRON & SEED SPICES (ARSSSS), PAMPORE

The ADSSSS, erstwhile “Saffron Research Station” was handed over to SKUAST during its establishment under the administrative control of DARS Budgam (KD Research Station). In November 2011 it was given independent status with total area of 2.2 ha.

Vision: Centre of Excellence for research, training and trade in saffron and Seed Spices.

Mission: Revival of saffron and Seed spices industry through technological backstopping.

Goals:

- Sustainable and profitable cultivation of Saffron and Seed Spices.
- Infrastructural and Human Resource Development for undertaking future challenges in the area.



Shalimar Kalazeera-1



Shalimar Saffron-1



***In-vitro* corm multiplication**

Thrust Areas:

- Conservation of Saffron, Kala zeera, Fennel, Cumin and Kalongi germplasm.
- Development of high yielding varieties with better quality and resistant to biotic and abiotic stresses through conventional and biotechnological approaches.
- Development of production and protection technologies for improving productivity.
- Production of Quality planting material and Post-harvest technology.
- Technology dissemination and promotion / development of linkages for promotion of saffron and seed spices..



Indoor Saffron cultivation Technology

International Linkages

- Centre of Excellence Ferdowsi University Mashad
- University of Castilla La-Mancha Spain.
- Genetic Resources Institute of the Azerbaijan National Academy of Sciences
- Agriculture University of Ankara Turkey
- Aristotle University Thessaloniki Greece
- Globally Important Agricultural Heritage Systems, FAO Roam Italy

MOUNTAIN LIVESTOCK RESEARCH INSTITUTE, MANASBAL

Mountain Livestock Research Institute (MLRI), Manasbal was established by Department of Animal Husbandry, Govt. of Jammu and Kashmir in 1977-78 as “Bull Mother Dairy Farm” over more than 2800 kanals of karewa land. It was transferred to SKUAST with its establishment in 1982 as “Cattle Breeding Farm” and later rechristened as MLRI. With its major chunk of land taken over by Defense, the station is left with only 550-600kanals.

Vision: Centre of excellence in dairy sciences fostering production of high quality germplasm and advances in dairy technology.

Mission: Augmenting milk production by enhancing and sustaining dairy production and productivity through breed improvement, management interventions and technological backup.

Objectives

- To build a strong infrastructure base for research, human resource development and extension in dairy sciences & technology.
- To undertake basic and applied research in all disciplines relating to dairy production and technology.
- To develop update and standardize area specific package of practices on breeding, feeding, management and prophylactic and curative health cover for cattle
- To foster provision of quality inputs and services for development of dairy sector.

Thrust Areas

- Production of high quality germplasm for improving production and productivity
- Development and promotion of zero waste dairy farming.
- Development and promotion of advanced dairy technology services for value addition and diversification of dairy products.
- Formulation and production of quality feed.
- Fodder and silage production.
- Production of processed and packaged milk.
- Production of vermicompost.

- Promotion of entrepreneurship development in the value chain of dairy production.
- Support to F.V.Sc. & A.H. by fostering practical teaching of B.V.Sc. & A.H. students and PG / PhD Research work.

Centres/ Sections

- Centre for Pastureland and Fodder Research
- Centre for Research on Dairy Sciences
- Dairy Farm
- Forage production (approximately 500 kanals)
- Feed Mill
- Silage Production Unit (capacity >1000 quintals)
- Milk processing plant
- Vermicompost Centre

Collaborations

- Department of Animal Husbandry, Kashmir
- Entrepreneurship Development Institute (EDI)



MOUNTAIN RESEARCH CENTRE FOR SHEEP AND GOAT (MRCSG), SHUHAMA

Established as Sheep Breeding Farm in 1960's by Sheep Husbandry Department for breeding of imported Down Sheep Breeds, the farm was transferred to SKUAST with its establishment and later raised to the status of MRCSG.

Vision: To augment the requirement of meat from small ruminants for livelihood security, poverty alleviation and employment generation for people of hill and mountains

Mission: Augmenting meat production by enhancing and sustaining small ruminant production and productivity through breed improvement, management interventions and technological backup

Objectives

- To undertake basic and applied research in all disciplines relating to small ruminant production
- To develop update and standardize area specific package of practices on breeding, feeding, management and prophylactic and curative health cover for small ruminants
- To transfer technologies for improving meat, wool, milk and fiber production
- To provide consultancy services on small ruminant production

Thrust Areas

- Genetic improvement and optimum utilization of small ruminant genetic resources for sustainable production and conservation of indigenous breeds
- Assisted reproductive technologies for faster multiplication of superior germplasm
- Nutritional strategies and feed processing technologies to facilitate sustainable small ruminant production in different agro-climatic zones
- Development of new generation diagnostics, vaccines and alternative therapies for important small ruminant diseases.

- Human Resource and entrepreneurship development through training, consultancy and ICT Support

BIO-DIVERSITY AT FARM



Corriedale



Southdown



Poll Dorset



Kashmir Merino



Bakarwal



Fec B Introgressed



Changluk sheep



Karakul Sheep



Boer Goat



Changra Goat



Bakarwal Goat



Alpine Cross Goat

MOUNTAIN AGRICULTURE RESEARCH AND EXTENSION STATION, GUREZ

Initially established as “Zeera Research Sub-Station” (ZRSS) at Iz marg, Gurez in 2001-02 over an area of 2.5ha, the station was reorganized with diversification of its mandates and upgraded to MARES Gurez in 2011.

Vision: Champion the cause of livelihood security of tribal people through crop diversification, technological innovations and sustainable agriculture.

Mission: Harness the outcome of research and extension with end user (farmer) by implementation of need based scientific interventions and technology led farming

Goals:

- MARES Gurez as hub of new diversification opportunities in Gurez Valley
- To make farming profitable and attractive to local youth.
- To provide improved farming inputs for economic prosperity of the farming community.
- To explore additional means of livelihood opportunities
- Prioritize indigenous crops, plants and livestock resources.



Buckwheat Revival Programme



Amaranthus Revival



Rajmash cultivars

- Foster organic farming.

Thrust Areas:

- Restoration and conservation of underutilized crops.
- Improvement of pulses for cultivation under local conditions.
- Potato improvement and production of seed tubers
- Prevalent crop diseases and disease resistance.
- Development of higher seed and fodder yielding varieties of wheat and oats.
- Development of organic farming practices for vegetable production.
- Promotion of scientific livestock practices
- Post-harvest technology and value addition.



Evaluation of Wheat and Oats Germplasm



Vegetable Production



Potato Production

MOUNTAIN AGRICULTURE RESEARCH AND EXTENSION STATION, KARGIL

It was established in 1989 as Regional Agricultural Research Sub-Station (RARSS), which was upgraded and rechristened as MARES Kargil in 2011. Situated at an altitude of 9200 ft amsl (coordinates latitude 34° 32' 21'' N and longitude 76° 09' 03'' E), it has 73 kanals of land.

Vision: Livelihood and nutritional security of farming community through technological innovations for sustainable agriculture.

Mission: Foster need based and area specific research and extension in the field of major crops being grown in Kargil region

Goals:

- Promote area specific agriculture.
- To provide improved plant and animal germplasm for profitable farming.
- Development and adoption of area specific good agricultural practices for improved production



Aerial View of MARES



Laboratory



Apricot Germ plasm



Protected Cultivation

Thrust Areas:

- Conservation of local germplasm.
- Development and propagation of high yielding varieties of wheat and barley.
- Development of area specific farming practices for major crops.
- Development of propagation techniques for fruit crops like Apple, Apricot and Sea buckthorn.
- Development and promotion of protected cultivation technologies like green house cultivation, low tunnels and trench technology for vegetable forcing.
- Diversification of crop production system.
- Identification of prevalent disease and development of control / protection modules.
- Promotion of scientific livestock practices
- Development of low cost area specific livestock and poultry feed using locally available ingredients.
- Post-harvest technology and value addition.



Field trials on cucurbits



Management of codling moth



Training : Vermicomposting



Training : Silage making

HIGH MOUNTAIN ARID AGRICULTURE RESEARCH INSTITUTE, LEH

Established in 1989 as Regional Agricultural Research Station (RARS) Leh, the station was allocated 300 acres of land under the IgooPhey Irrigation canal which was commissioned in 1993. The station was later rechristened as HMAARI to address the research demands of the cold arid agro-ecosystem.

Vision: Livelihood and nutritional security of farming community through technological innovations for sustainable agriculture under Cold-arid agro-climatic conditions.

Mission: Technology development and its translation for sustainability in agriculture and allied sectors.

Goals:

- Promote research and development in cold arid crops.
- Development and adoption of area specific good agricultural practices for improved production
- Develop infrastructure base for advanced research, and human resource development in agriculture and allied sectors.

Thrust Areas:

- Conservation and propagation of local germplasm.
- Development of high yielding and disease resistant varieties of wheat, oats, barley, buckwheat, pulses, oil seeds, maize, vegetables, apples and apricot.
- Develop management practices to upscale production and productivity in cold-arid agro-ecosystem.
- Plant protection
- Agro forestry
- Scientific rearing of livestock
- Pashmina production and productivity
- Post-harvest management and value addition of agricultural and livestock produce.
- Conservation and development of pastures

Associated Centres:

- Precision Farming Development Centre (PFDC) (2009)

Promotion of Agriculture Under Cold Arid Conditions



AMBRI APPLE RESEARCH CENTER, PAHNOO

Vision: Ensuring higher/ better economic returns from cultivation of fruit crops through development, refinement and adoption of sustainable technologies.

Mission: Ensuring sustainable livelihood and economic profitability of people.

Mandate: Conservation, development and propagation of Ambri apple through technology development and interventions.

Activities

- Identification of clonal rootstocks of apple
- Germplasm Conservation and propagation
- Inter-stock technology for successful Ambri cultivation in non-irrigated areas
- High density orcharding
- Integrated Pest Management
- Transfer of technology and skill development



Interstock Technology for Ambri



Model HDP in Ambri apple



Extension activities

MOUNTAIN RESEARCH CENTRE FOR FIELD CROPS, KHUDWANI

Vision: Centre of excellence for undertaking research and development in field crops.

Mission: Breeding of farmers' preferred crop cultivars and popularization of low cost technologies /cropping systems for augmenting the farmers' income.

Mandate:

Irrigated ecology

- Development of high yielding farmer preferred quality rice cultivars for Kashmir valley resilient to biotic and abiotic stresses.
- To formulate production/Protection technologies for realizing the potential of the varieties.
- Popularization of Rice varieties through front line demonstrations and participatory varietal selection

High altitude irrigated ecology

- Breeding for high yielding, cold tolerant, early maturing and farmer preferred cultivars of rice for high altitude irrigated ecologies of Kashmir (2000-2300 m amsl)
- Popularization of improved high altitude varieties/ technologies through FLDs/OFTs/farmer participatory mode.
- Nucleus and breeder/foundation seed production of released varieties.

Non-irrigated ecologies

- Breeding for high yielding and early maturing genotypes in wheat and oilseed crop resilient to biotic and abiotic stresses to ensure their accommodation in rice based cropping system
- Rice- wheat system and its popularization for food grain security in the valley
- Popularization of most profitable and sustainable cropping system through FLDs/OFTS



Shalimar Sugandh 1



Shalimar Rice -4



*Plant Genome Saviour
Community award*



Genomics Laboratory



Mega Seed Processing Unit



Soil Lab



*Demonstration of Gene pyramided line for blast resistance
under farmer fields*

CENTRE FOR MOUNTAIN WILDLIFE SCIENCES

Vision: An Institute to promote scientific based management and Conservation of Wildlife Biodiversity with Special reference to revive the population of Threatened Fauna and flora in the Western Himalayan Region of India.

Mission: Provide Scientific based solutions for the effective management and conservation of Wildlife and biodiversity in the fragile Mountain Ecosystems particularly of the Western Himalayas.

Mandate: Model Centre to generate trained professional human resource in wildlife management and conservation and impart in depth knowledge and training to the in service wildlife managers and nature conservationists, who can enthusiastically promote and advance science - based conservation of wildlife and their habitats in the country and abroad specially in the Mountain ecosystems



CENTRE FOR RESEARCH ON POULTRY

Vision:

Increased availability of Poultry and Poultry Products both by mass production and through production by masses and decreased dependence on imports.

Mission:

To develop trained human resource and technologies in order to augment the production of poultry meat and egg through local production.

Goal:

Sustainability of Poultry Production

Mandate:

- To develop trained human resource, (Scientific & Technical) in the field of Poultry Sciences
- Explore and augment local resources and develop region specific SOPs for economical poultry production



KRISHI VIGYAN KENDRA

Vision: Science and technology-led growth leading to enhanced productivity, profitability and sustainability of agriculture.

Mission: Farmer-centric growth in agriculture and allied sectors through application of appropriate technologies in specific agro-ecosystem perspective.

Mandate: Technology assessment and demonstration for its application and capacity development

Activities:

- On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
- Organize Frontline Demonstrations to establish production potential of technologies on the farmers' fields.
- Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies.
- To work as knowledge and resource centre of agricultural technologies for supporting initiatives of public, private and voluntary sector in improving the agricultural economy of the district.
- Provide farm advisories using ICT and other media means on varied subjects of interest of farmers



OFT on Modified System of Rice Intensification for Higher Productivity



FLD on Shalimar Moong-1



FLD on Pea (PV-89)



***FLD on Delta Pheromone trap
for monitoring codling moth***



***FLD on Mustard (RLM-514,
CES-1, PM-25) - Nyoma***



***Training on Urea treatment of
paddy straw***



***Vocational Training on
Crocheting***



Skill Development Programmes

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