

FLAGSHIP AREAS OF RESEARCH:

A. FACULTY OF AGRICULTURE, CHATHA

1. Division of Agronomy

- Fortification of agricultural residues and their utilization.
- Crop management technologies in relation to climate change

2. Division of Agricultural Economics & Agri-Business Management

- Production economics of agri-horti crops
- Analysis of agricultural produce marketing

3. Division of Agricultural Engineering

- Farm mechanization in hill agriculture
- Farm machinery testing and evaluation
- Designing of rain water harvesting structures

4. Division of Agro-forestry

- Standardization of Propagation techniques of multipurpose trees
- Production package for major medicinal aromatic crops

5. Division of Plant Breeding & Genetics

- Genetic upgradation of Basmati Rice
- Breeding wheat for drought tolerance
- Development of canola varieties in *Brassica* oil seeds.

6. Division of Soil Science

- Soil fertility mapping
- Targetted yield approach to nutrient application
- Bio fertilizer Research & Development

7. Division of Entomology

- **Apiculture:** Queen rearing, bee flora studies, pesticides residues analysis of honey
- Bio agents for pest control
- Integrated Pest Management

8. Division of Vegetable Sciences & Floriculture

- Development of high yielding varieties of selected vegetables of Jammu Region
- High tech vegetable nursery
- Organic vegetable production

9. Division of Plant Pathology

- Bio pesticides for disease management
- Integrated Disease Management
- Disease forecasting

10. Division of Fruit Science

- High density plantation in fruit crops

- Identification and development of improved varieties

11. Division of Food Science & Technology

- Processing and value addition

12. Division of Sericulture

- Silkworm rearing technology
- Agro-techniques for mulberry cultivation

13. Division of Extension Education

- Impact & process evaluation of the research & development programmes (Research projects & Extension programmes) of agriculture & allied in Jammu division.
- Diffusion research and information source utilization.

B. FACULTY OF BASIC SCIENCES, CHATHA

1. Division of Statistics & Computer Science

- Basic and strategic research in sampling theory and statistical modeling

2. Division of Bio-Chemistry

- Bio chemical and molecular studies of climate change effects on plant health nutritional quality and yield attributes.
- Biochemical prospecting of plant/microbes for antioxidant, antimicrobial and anticancer activities.

3. Division of Plant Physiology

- Physiological evaluation of crops under climate change

4. Division of Microbiology

- Identification of beneficial residential microbes

C. FACULTY OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, R.S PURA

1. Division of Live Stock Products Technology

- Development of functional meat products
- Entrepreneurship in livestock products

2. Division of Animal Nutrition

- Formulation of animal feed using local plant resources
- Development of supplementary animal feeds through fodder preservation

3. Division of Veterinary & Animal Husbandry Extension Education

- Documentation and validation of indigenous technological knowledge
- Impact analysis of transferred technologies

4. Division of Veterinary Pharmacology & Toxicology

- Toxic manifestation of pesticides and their modulation of animal resources
- Bio prospecting of medicinal plants for animal health.

- Standardization of dosage regimen in small ruminants
 - 5. Division of Veterinary Anatomy**
 - Anatomical profiling of Bakerwali Goat.
 - 6. Division of Livestock Production & Management**
 - Optimization of livestock housing for better production
 - Popularization of backyard poultry and fish farming
 - 7. Division of Veterinary Pathology**
 - Pathological studies of livestock
 - 8. Division of Veterinary Parasitology**
 - Parasitic Zoonosis
 - Diagnosis and management of parasites
 - 9. Division of Veterinary Physiology & Biochemistry**
 - Physiological responses of livestock in relation to climate change
 - Low cost molecular diagnostics for animals
 - 10. Division of Veterinary Gynecology & Obstetrics**
 - Hormonal implant for stress induction
 - Embryo transfer technology for upgradation of livestock breeds
 - 11. Division of Veterinary Medicine**
 - Production and metabolic disorders
 - Epidemiology of infectious and non-infectious diseases
 - 12. Division of Veterinary Surgery & Radiology**
 - Standardization of surgical techniques
 - Diagnosis of diseases through imaging techniques
 - 13. Division of Veterinary Public Health & Epidemiology**
 - Zoonotic diseases in relation to human health
 - 14. Division of Teaching & Veterinary Clinical Complex**
 - Advanced diagnostic facility
 - Backstopping of field functionaries for disease diagnosis
 - Mobile diagnostic facility
 - 15. Division of Animal Genetics & Breeding**
 - Molecular characterization of livestock
 - Candidate gene isolation for disease resistance in livestock
 - 16. Division of Veterinary Microbiology**
 - Molecular diagnosis of microbial diseases
- D. SCHOOL OF BIOTECHNOLOGY, CHATHA**
- Gene pyramiding for quality and disease resistance
 - Molecular characterization of regional biodiversity
 - High tech protocol for commercial regeneration of potato tubers

