

## ACADEMIC PROGRAM AND COURSE CURRICULUM

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### FIRST YEAR (Semester I & II)

#### SEMESTER I

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- Introductory Agriculture and Principles of Agronomy
- Field Crops-I (Kharif)
- Introduction to Soil Science
- Introductory Plant Pathology
- Production Technology of Fruit Crops
- Economic Botany
- Biomathematics
- Introduction to Computer Application
- Comprehension and Communication Skills in English
- NSS/NCC/Physical Education (Non-credit course)

#### SEMESTER II

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- Principles of Agriculture Economics
- Fundamentals of Soil Water Conservation and Engg.
- Agricultural Microbiology
- Agricultural Statistics
- Soil Chemistry, Soil Fertility and Nutrient Management
- Principles of Genetics
- Field Crops-II (Rabi)
- Agricultural Meteorology
- NSS/NCC/Physical Education (Non-credit course)

### SECOND YEAR (Semester III & IV)

#### SEMESTER III

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- Practical Crop Production I (Kharif crops)
- Weed Management

- Principles of Plant Breeding
- Production Technology of Vegetables & Flowers
- Crop Physiology -I
- Dimensions of Agricultural Extension
- Insect Morphology and Systematic
- Principles of Plant Pathology
- Agricultural Marketing, Trade and Prices
- Farm Power and Machinery
- NSS/NCC/Physical Education (Non-credit course)

#### **SEMESTER IV**

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- Practical Crop Production II (Rabi crops)
- Insect Ecology and Integrated Pest Management
- Livestock Production and Management
- Agricultural Finance and Co-operation
- Production Technology of Spices, Aromatics Medicinal and Plantation Crops
- Breeding of Field and Horticultural Crops
- Fundamentals of Rural Sociology and Edu. Psychology
- Biochemistry
- Crop Physiology -II
- NSS/NCC/Physical Education (Non-credit course)

#### **THIRD YEAR (Semester V & VI)**

#### **SEMESTER V**

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- Water Management including Micro Irrigation
- Pests of Field Crops and Stored Grain and Management
- Post-harvest Management and Value Addition of Fruits and Vegetables
- Dairy Cattle and Buffalo Production and Management
- Diseases of Field Crops and their Management
- Principles of Seed Technology
- Fundamentals of Agri Business Management (Including Product Development, Appraisal and Monitoring)
- Protected Cultivation and Post-harvest Technology
- Extension Methodologies for Transfer of Agri. Technology

#### **SEMESTER VI**

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- Introductory Nematology
- Entrepreneurship Development
- Environmental Science
- Renewable Energy
- Organic Farming
- Farming Systems and Sustainable Agriculture
- Manures, Fertilizers and Agrochemicals
- Principles of Plant Biotechnology
- Disease of Horticultural Crops and Their Management
- Production Economics and Farm Management
- Pests of Horticultural Crops and Their Management

## FOURTH YEAR (Semester VII & VIII)

### SEMESTER VII

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- Rural Agricultural Work Experience (RAWE) Program Attachment to the Agro-based industries, Research Stations, KVKs, DAATT Centres
- Educational Tour

### SEMESTER VIII

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- Courses for Experiential Learning (20 course credits)