

PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES

M.Sc. Agronomy

Program Outcomes	In this program students learn about different kinds of crop production practices, their management as well as their interaction with allied sectors of agriculture. Student can work in Government Sector specially in Agriculture Department and different private sectors viz, pesticide companies, fertilizer companies, seed also in seed production sectors.
Program Specific Outcomes	Students learn about different cropping (oil seeds, fibers, legumes, cereals etc.) as well as farming system (IFS, organic farming, conservation farming etc.) and their modern concepts and principles.
Course	Outcomes
Crop production	It provides modern concept of crop production with specialization of cereals, pulses, oilseeds, tubers, medicinal, aromatic and under-utilized crops.
Soil management	In this program student learn about soil mineralogy, genesis, classification, survey as well as management of problematic soils. It also deals with soil fertility and nutrient management practices.
Organic farming	It provides a wide knowledge about different kind of organic manures and their efficient utilization in various cropping systems.
Weed management	It enables the students to attain knowledge on basic principles and modern practices of weed management.
Water management	To tech the students about principles of water management of the crops and cropping systems, practices to enhance the water use efficiency.

COURSE OUTCOMES

Course	Course Outcomes
M.Sc. Agronomy 1st Semester	
AGRON-501	Student learn about modern concept concepts, scientific principles of crop production, quantitative agro-biological principles and modern concept of tillage.
AGRON-503	Understand the weed biology and ecology, herbicide classification, mode and mechanism of action of herbicides and integrated weed management in different crops.
AGRON-513	Enhance the student skill for organic farming, socio-economic impact, export potential of organic farming, control of weeds, diseases and other pest in organic farming.
M.Sc. Agronomy 2nd Semester	
AGRON-502	Familiarize with preparation and use of organic manures and biofertilizers, commercial fertilizers, time and methods of manures and fertilizer application in respect to soil fertility and productivity.
AGRON-508	Ability to understand the importance of medicinal and aromatic plants in human health, classification of these plants and climate, soil requirements, cultural practices, yield and important constituents of medicinal and aromatic plants.
M.Sc. Agronomy 3rd Semester	
AGRON-504	Develop an understanding of water and its role in plants, water resources and major irrigation project of India and water management in different crops and cropping system.
AGRON-506	Student learn about origin, history, area, production, classification, varieties, climate, soil, water and cultural requirement of rabi and kharif season crops.

PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES

Ph.D. Agronomy

Program Outcomes	In this program students learn about different modern trends in agronomy, crop ecology, crop production and system modeling, crop growth and productivity, irrigation management, soil conservation and watershed management, interested farming systems for sustainable agriculture and advance techniques of weed management.
Program Specific Outcomes	Students learn about modern techniques of weed, watershed and irrigation management with special reference to advance trends in agronomy and crop ecology.
Course	Outcomes
Crop growth and productivity	Learning of globalization of agriculture and WTO, different methods of farming, GIS, GPS, and remote sensing, GM crops and global warming, elementary model for growth and elementary model for crop growth, concept of crop ecology, ecosystem types and function.
Irrigation management	Develop an understanding of water resources of India, irrigation projects, soil plant water relationship and land suitability for irrigation.
Weed management	It enables the students to attain knowledge about physiological and biological aspects of herbicides and their mode of action and advancement in herbicide application methods.

COURSE OUTCOMES

Course	Course Outcomes
Ph. D. Agronomy 1st Semester	
AGRON-601	Understand the crop residue management in multiple cropping system, latest development in in plant management, export potential of organic products, sustainable agriculture and research methodology in Agronomy.
AGRON-602	Enhance the student skill for physiological response of crop plants, succession and climax concept, principles of plant distribution and adaption, crop and world food supply and exploitation of solar energy in crops.
AGRON-603	Student learn about system classification, modeling techniques and method of irrigation, elementary models for crop growth, dry mater production and distribution in different crops.
Ph.D. Agronomy 2nd Semester	
AGRON-604	Familiarize with plant density and crop production, physiological limitation for crop yield, growth analysis (CGR, RGR, NAR, LAI, LAD, LAR) growth curve, principles involved in inter and mixed cropping, competitive relationship and competition functions and concept of plant ideotype.
AGRON-605	Ability to understand the water resources of India, irrigation projects, soil plant water relationship, water movement in soil, application of irrigation water and land suitability for irrigation.
AGRON-606	Understand the crop weed competition in different cropping systems, physiological and biological aspects of herbicide, development of transgenic herbicide resistant crops and relationship of herbicide with different interculture operations.