Subject Name	Description
Introductory Agriculture	The students get acquainted with meaning and scope of agriculture; development of agriculture in India in general.
Principles of Agricu Meteorology	The knowledge is imparted on the atmosphere and its structure, brief description of weather elements. Impact of weather elements on crop and livestock production. Crop microclimate and its modification and weather forecasting
Introduction to Soil Science	The students get knowledge on the concept of land, soil and soil science; earth crust and its composition; soil forming rocks and minerals; weathering; soil formation: factors and processes; Composition of soil; soil profile, soil colour, taxonomic classification of soils. Soil water- retention and potential, soil moisture constants, movement of soil water, soil temperature and thermal properties, soil air and gaseous exchange, influence of soil temperature and air on plant growth
Principles of Seed Scienc Technology	The students learn about maintenance of genetic purity during seed production, seed quality, different classes of seed, seed production of field and vegetable crops. Seed certification, phases of certification, procedure for seed certification, field inspection
Introduction to Com Applications	Knowledge is given on Introduction to Computers, Anatomy of Computers, Input and Output Devices. Operating System – DOS and WINDOWS.
Communication Skills in Engl	The students are going to learn about Essentials of Grammar, Vocabulary building, Writing skills and speaking skills.
Fundamentals of Rural Sociology	The students are getting knowledge regarding importance of rural sociology in agricultural extension; differences and relationship between rural and urban communities. Psychology and educational psychology.
Introductory Biology (only for students from Math stream) Or	Morphological features of angiosperms, Binomial nomenclature, taxonomic classification of animal kingdom; animal life.
Elementary Mathematics (only for students from Bio stream)	Algebra: arithmetic and geometric series; permutation and combination, Co- ordinate geometry, Differential calculus
Principles of Chemistry	Chromatography : Gas solid Chromatography, Bio-organic Chemistry
Principles of Agronomy	The students are able to know about the basics of tillage, crop production, science and technology of producing and using plants for food, fuel, fiber, and land reclamation. Cropping pattern(s), cropping systems and farming systems, Tillage and its objectives, soil tilth and its optimum requirement for important crops.

Livestock production	The students know about Animal husbandry practices have
management	varied widely across cultures and time periods.
Introductory Entomology	The students will get knowledge of Morphology: structure
	and functions of insects, Systematics: taxonomy and
	Binomial nomenclature of Insects.
Soil Fertility, Soil Chemistry	The students will know about Soil fertility and
Nutrient	productivity; essential and beneficial nutrient elements,
Management	criteria of essentiality, available forms, mechanism of
	nutrient transport to plants, functions and deficiency
	symptoms in plants. Evaluation and soil testing.
Fundamentals of agricu	The students will be acquainted with knowledge related to
economics	Consumer's surplus, Demand and Supply, kinds of
	inflation and effect of inflation; basic concepts of economic
	growth and development.
Fundamentals of Microbiolog	The students will be knowing role of microbes in
	agriculture and fermentation, germ theory of disease,
	protection against infections, Soil microbiology,
	Microbiology of water and water purification; beneficial
	microorganisms in agriculture: biofertilizer (bacterial
	cyanobacterial and fungal), microbial insecticides,
	microbial agents for control of plant diseases,
	biodegradation of pesticides, biogas production,
	biodegradable plastics; plant-microbe interactions and use
	of genetically modified organisms for crop improvement.
Fundamentals of Genetics	The students will be having knowledge of types of gene
	interaction, multiple alleles, pleiotropism, penetrance and
	expressivity; quantitative traits, qualitative traits, Mutation
	and it's characteristic features; Polyploidy and evolution of
	different crop species.
Introductory Biochemistry	Carbohydrates, Reaction Mechanisms of Glycolysis, TCA
	cycle, oxidative phosphorylation, HMP, glyoxalate
	pathway and gluconeogenesis, factors affecting enzyme
	activity, Photosynthesis: Significance, Reaction
	Mechanisms of Cyclic and Non-cyclic photo-
	phosphorylation, Calvin Cycle, C4 cycle, CAM Anatomy.