B.Sc. (Agriculture): I Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 101**	1. Determine potential outlier of data sets, understand how they affect the various numerical measures and analyze the errors of different crops 2. Analyze and compare different sets of data using graphs, chart, tables and numerical measures and write about them in clear and precise sentence using statistical vocabulary and apply in different of agriculture 3. Find and interpret the sample correlation coefficient to determine the strength and relation of the linear relationship between predictor and response variables 4. Examine information about different operations and different methods which can be adopted for improving crop output 5. Important for collecting, presenting analysis and interpreting data in research work
2.	**B.Sc Ag 102**	1. Knowledge about whether elements that have direct relevance to agriculture and apply it in crop production 2. To develop weather based agro-advisories and to sustain crop production by utilizing weather forecast instruments 3. To monitor the drought condition in crop as well as different areas and formulate their management 4. To impart knowledge and its application in acquaint with recent developments in agro meteorology with historical development of climate change 5. To learn and classify about the formation of dew, fog, mist , frost, snow, rain, hail, precipitation, cloud formation and movement
3.	**B.Sc Ag 103**	1. To learn DOS, windows and high level languages and apply in the crop management 2. Describe and analyze the function of lotus, Fox pro and statistical packages 3. Record keeping and estimation of cost related to crop production 4. easy evaluation of data 5. application in research findings
4.	**BSc Ag104**	1. Studying and application of basics English 2. developing marketing strategies to be utilized in agriculture 3. personality development by using modern tools 4. develop the speaking ability in terms of fluency and comprehensibility 5. To understand and apply English tools in research writing

5.	**B.Sc Ag 105**	1. To design agriculture techniques and land management systems 2. To examine practice of farming including cultivation of soil for the growing of crops 3. Analysis of markets, banks to find the solution of agriculture produce and to classify the rearing of animals for farmers welfare 4. Handling and utilization of farm machines, equipment's and farm animals 5. Application of power transmission, drainage system and irrigation scheduling
6.	**B.Sc Ag 106**	1. Summarizing the basic concepts of agronomic principles and apply it in crop to crop management approaches 2. Classify the important principles underlying the management and interactions between plants and their physical environments 3. Evaluate and analyze the plan for the application of production technology in many crops 4. Design the agro-techniques for augmenting productivity of pulses and oil seeds 5. Determine the methodology of planning, layout, data recording, analysis, interpretation and report writing of agronomic experiments
7.	**B.Sc Ag 107**	1. To understand, explain and analyze the rural social life 2. Understand and design rural development programs among farmers 3. Classify the panchayati institutions, their features and functioning 4. Classify the education psychology of rural society and its significance in agriculture 5. Acquire basic knowledge which will enable them to understand the importance of educational psychology in rural and agriculture extension

B.Sc. (Agriculture): 2 Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 201-**	1. To understand, discuss & apply the basic principles of Mendelian inheritance in agriculture 2. To understand and apply the concept of cell division & chromosome segregation. 3. To learn and categorize the concepts of Linkage for sex determination and sex-linked inheritance 4. To gain knowledge about the organelle inheritance and apply it in the field of agriculture 5. To understand the multifactorial inheritance and evaluate in the crops
2.	**B.Sc Ag 202**	1. To gain basic knowledge about microbes and application of these in the field of agriculture 2. To learn, discuss and apply the taxonomic classification of microorganisms 3. To discuss and categorize the historical events in microbiology related to agriculture 4. To apply various microbiology terms for microbial cultural or practices in agriculture field. 5. To develop the concepts of growth and reproduction of Microbes
3.	**B.Sc Ag 203**	1. Explain and apply the concept of soil- water content, movement, storage, & plant availability 2. To distinguish between salinity and sodicity in irrigated agricultural systems and learn the measures to correct it 3. To analyse the quantitative problems in soil water management. 4. Identify and evaluate the primary causes and consequences of a wide range of soil degradation problems, including soil acidity and alkalinity, erosion, salinity and sodicity, and nutrient loss 5. Develop an ability to collect and evaluate data in practical classes

4.	**B.Sc Ag 204**	1. To distinguish the physiological processes, plant responses and environmental factors affecting growth and productivity of the agricultural crops 2. To organize learning of basic concepts in crop growth and development among farmers 3. To examine the major functions and processes occurring in plants 4. To understand and analyze plant metabolism (photosynthesis, respiration, and mineral nutrition), water relations, gas exchange, and physiology of growth and development, and plant responses to environmental stress 5. To describe and use the basic techniques for studying plant physiology
5.	**B.Sc Ag 205**	1. To know about the marketing strategies and apply in the field of agriculture 2. Deals with the study of various laws with regards to agriculture and apply 3. Distinguish the differences between macroeconomics and microeconomics 4. Study and analyze the economic costs of unemployment and inflation 5. Classification of general economic concept
6.	**B.Sc Ag 206**	1. To discuss and apply the basic principles and concepts of plant pathology in agricultural crops 2. To evaluate and analyze the major diseases with their hosts in agricultural crops 3. To develop and apply the preventive measures and management of different crop diseases 4. To create the detection method and diagnosis of plant diseases 5. Categorization and general identifying characters of phenerogames plant parasites, reproduction and life cycle
7.	**B.Sc Ag 207**	1. To categorize insects based on basic ecological, behavioural, morphological, physiological, or developmental attributes. 2. To examine the insects deeply within a biological level of analysis and compare strategies used by different group. 3. To evaluate the potential impact of different insect species on agriculture, human health, and society in general; to be knowledgeable about potential control strategies. 4. Application of scientific method in problem solving and the principles of experimental design and analysis. 5. To appraise the agro-forestry environment in the view of the management of the insect populations and plant protection.

8.	**B.Sc Ag 208**	1. To build expertise in the field of extension education and rural development. 2. Comprehend & analyze the relationship between extension education with rural development. 3. Acquire Knowledge & apply extension and rural development programmes. 4. Select leaders and develop leadership attributes in local individuals hailing from the rural areas. And formulate programme planning, organization and management of rural institutions. 5. Explain, discuss & solve panchayat structure of rural India, community development programmes and the prospects and problems of rural development in India.

B.Sc. (Agriculture): III Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 301**	1. To understand and apply the cultivation practices of vegetable crops 2. To know the importance of vegetables and estimate their value in national economy. 3. Categorization of vegetable crops and discussion of their importance with the farmers. 4. Illustration and formulation of marketing strategies of vegetable crops among farmers 5. Identification and examination of trends that influence vegetable production in India and abroad.
2.	**B.Sc Ag 302**	1. Analyze the relationship between irrigation and food production at global, regional and farm level, especially related to crop water use and water use efficiencies. 2. To understand and analyze the irrigation scheduling techniques for different crops. 3. To categorize the critical stages of irrigation in different crops. 4. To develop various stream flow measurement techniques. 5. To select the various irrigation systems for the benefits on given geographic conditions.

3.	**B.Sc Ag 303**	1. To know about the basics of plant breeding and to apply the methods of plant breeding in hybridization programme 2. To learn, explain and propose the application of plant breeding in agricultural crops 3. Creation and development of hybrids in different crops 4. Understand and apply the procedure of variety release and notification 5. Maximize the future prospects and application of new technologies in the field of plant breeding
4.	**B.Sc Ag 304**	1. Analysis of soil for plant growth 2. Summarise the biochemical processes regulating the nutrient cycle and deduce its effect on human health. 3. Classify plant nutrients which plays major role in plant growth. 4. Compile various fertilization systems and its benefits. 5. Plan out and defend schedule for fertilization of a given crop.
5.	**B.Sc Ag 305**	1. To understand the basic concept of marketing and build it in the field of agriculture 2. Creates better and exportable standards of goods 3. Increase profit of farmers by applying marketing strategies in agricultural products 4. Identify and define the steps of the managerial decision making process. 5. Discover and recognise the relationship between labour and management.
6.	**B.Sc Ag 306**	1. To discuss and apply the cultural practices of field crops. 2. To apply the modern techniques and concepts of crop production 3. To understand and apply the basic concepts of agronomic principles & much more than crop to crop management approaches 4. To formulate the description and classification, economy, crop cycle and environmental requirements of crops 5. To analyse geographical distribution and economic importance of kharif season field crops among farmers

7.	**B.Sc Ag 307**	1. Explain and discuss the identification of disease, their causal organism and the life cycle. 2. Evaluate the concept of disease cycle, mechanism of disease development, dissemination and transmission of plant pathogens, Epidemiology and Disease forecasting 3. Application of plant disease management- chemical control, biological control and development of transgenic for controlling plant diseases 4. To impart knowledge on detection and diagnosis of plant diseases and to discover its management 5. Categorization of nature of damage seasonal incidence of crops

B.Sc. (Agriculture): IV Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 401**	1. To understand the beneficial and harmful insects and discuss its uses and harmful effects among the farmers 2. To examine the economic loss done by the various insects in agriculture field 3. To examine and analyze the symptoms of different pest attack in different crops. 4. To classify the various methods of pest control 5. To analyse the production, cultivation & marketing of the product of beneficial pests
2.	**B.Sc Ag 402**	1. To understand and discuss the tissue culture techniques used in agriculture 2. To know the preparation and application of cultures 3. To learn and analyze the germplasm conservation and cryopreservation 4. To impart knowledge about molecular markers with their utility in agriculture 5. To determine the role of biotechnology in the field of agriculture
3.	**B.Sc Ag 403**	1. Discuss & utilization of rabi season crops like wheat, chickpea, lentil, mustard, barley, oats, sunflower etc. 2. Select the botanical description & cultivation practices of rabi crops. 3. Motivate the modern concepts of crop production. 4. Identify the agronomic practices and crop management approaches. 5. Analyse the geographical distribution and agronomic practices of rabi season crops.
4.	**B.Sc Ag 404**	1. To Understand and analyze the application of agriculture business & management 2. To understand and discuss about the marketing strategies used in agriculture among farmers 3. To get acquainted with rural and urban banks and to classify the government policies, subsidies in front of farmers for promotion 4. Analyze NABARD banks and AFC, problems and issues in institutional agricultural credit system. 5. To understand, analyze and discuss about the types of management decisions, decision making techniques and processes.
5.	**B.Sc Ag 405**	1. Classify and explain the pests in different crops 2. Understand and analyze the methods and procedure of insect pest management 3. Analyze the symptoms of different pest attack 4. Application of control measures in different crops 5. Distinguish between the harmful & beneficial insects

6.	**B.Sc Ag 406**	1. Analysing the importance of cultivation practices of fruit crops 2. Discuss about the cultivation practices of plantation crops with uses 3. Study and analyze the application of Post-harvest management of different crops 4. Development of knowledge about the major insects, pests and disease of fruit and plantation crops, their symptoms and their control measures 5. Build an understanding about the access of storage and marketing of different fruits & plantation crops
7.	**B.Sc Ag 407**	1. Identifying the importance and role of livestock in the national economy. 2. Analyze measures and factors affecting the milking, feeding and meat production of livestock. 3. Analyse the factors affecting the anatomical and behavioural systems of livestock. 4. Discover and identify the principles of housing and space required for different livestock species in order to maintain sanitation and control livestock diseases. 5. Explain and analyze the methods of breeding and feeding of livestock and setting up measures to keep their record.
8.	**B.Sc Ag 408**	1. To design soil and water conservation techniques in arid and semi-arid regions. 2. To modify and introduce new technology for increasing and sustaining yield in dry land areas 3. To select and apply different cropping systems for better productivity in water scarce areas. 4. To compare and analyze different drainage, land grading and storage of excess water in flood prone areas 5. To improve farmers income by creating multiple income sources by adopting different agro-forestry systems

B.Sc. (Agriculture): V Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 501**	1. To identify, classify, collaborate and study the characteristics of the breeds of poultry 2. To understand and develop the methods of Rearing, breeding and feeding of poultry birds 3. Analysis of incubation, hatching, brooding, production and marketing of broilers and eggs. 4. Compilation and application of knowledge about vaccination, causes and prevention of poultry diseases 5. To develop the methods of preservation of eggs and their access to the market.
2.	**B.Sc Ag 502**	1. Discuss different varieties of fungi which are commonly eaten and identification of their characteristics 2. Apply the techniques used in the culture of edible mushrooms 3. Selection and analysis of important types of Mushroom and their growing conditions 4. To estimate and develop the techniques of harvesting and yield of a mushroom crop. 5. Select the value added products of Mushroom i.e. preparation of Mushroom Pickle, Powder and different items of food.
3.	**B.Sc Ag 503**	1. To distinguish the physiological processes, plant responses and environmental factors affecting growth and productivity of the agricultural crops 2. To organize learning of basic concepts in crop growth and development among farmers 3. To examine the major functions and processes occurring in plants 4. To understand and analyze plant metabolism (photosynthesis, respiration, and mineral nutrition), water relations, gas exchange, and physiology of growth and development, and plant responses to environmental stress 5. To describe and use the basic techniques for studying plant physiology

4.	**B.Sc Ag 504**	1. Knowledge and application of different types of engines and associated processes 2. Apply concepts regarding cost associated with farm machinery 3. Study of sources of farm power and mechanization and application of same in agriculture 4. Understanding and analyzing concept of machinery and types of tools used for different types of farm processes 5. To identify the need of farm mechanization in India
5.	**B.Sc Ag 505**	1. Understand & choose the fundamentals of management with reference to agribusiness. 2. To gain knowledge on agricultural marketing, challenges and prospects for improving agricultural marketing system 3. Promote basic understanding on the concepts of business environment and to analyze realization of impact of environment on business. 4. Understand & identify the importance of Rural Markets.
6.	**B.Sc Ag 506**	1. To build expertise in the field of extension education and rural development. 2. Comprehend & analyze the relationship between extension education with rural development. 3. Acquire Knowledge & apply extension and rural development programmes. 4. Select leaders and develop leadership attributes in local individuals hailing from the rural areas. And formulate programme planning, organization and management of rural institutions. 5. Explain, discuss & solve panchayat structure of rural India, community development programmes and the prospects and problems of rural development in India.
7.	**B.Sc Ag 507**	1. Illustrate and apply the Post-harvest management of main horticultural crops 2. To compare interactions between the biological crop system post-harvest, the surrounding environment and the influencing technical factor 3. To design storage and cold chain management of crops 4. Analyze the processing and marketing of fruits and vegetables 5. To formulate future post-harvest challenges by adaptive knowledge

8.	**B.Sc Ag 508**	1. Crop planning, raising field crops in multiple cropping systems and use of cropping system 2. Field preparation, seed treatment, nursery raising, sowing, nutrient management, water management, weed management and management of insect pests and diseases of crops harvesting, threshing, drying, winnowing, storage and marketing of produce 3. creation of balance sheet including cost of cultivation, net returns 4. Use of new technologies and methods for the enhancement of crop production

B.Sc. (Agriculture): VI Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 601**	1. Analyze the major aspects of agricultural practices and traditions through time and throughout the world 2. Outline and apply the relationships among culture, economics, politics, science, and agricultural development 3. Describe and Analyze the cross-cultural interactions and exchange that linked the world's people and facilitated agricultural development is also expected 4. Demonstrate and analyze how agricultural scientists are attempting to minimize agricultural pollution and sustain food production adequate for the world's population 5. To acquaint the student from agricultural as well as other disciplines with conventional and alternative agricultural production practices throughout the world and their effect on long-term sustainability and environmental quality.

2.	**B.Sc Ag 602**	1. Explain and apply the concept of soil- water content, movement, storage, & plant availability 2. To distinguish between salinity and sodicity in irrigated agricultural systems and learn the measures to correct it 3. To analyse the quantitative problems in soil water management. 4. Identify and evaluate the primary causes and consequences of a wide range of soil degradation problems, including soil acidity and alkalinity, erosion, salinity and sodicity, and nutrient loss 5. Develop an ability to collect and evaluate data in practical classes
3.	**B.Sc Ag 603**	1. Construct general and broad skills in horticultural practices and plant identification 2. To extend and apply more specific knowledge in areas of ornamental horticulture including garden maintenance, turf care, arboriculture, landscaping, nursery work, etc 3. To illustrate and identify the principles and practices of annual and perennial ornamental plants 4. To discuss techniques related to post harvest management of ornamental plants 5. Ability to create the project formulation & evaluation
4.	**B. Sc Ag 604**	1. Develop a general understanding of the breadth and interdisciplinary nature of environmental issues. 2. Develop the qualitative and quantitative research methods to gain empirical evidence bearing on evaluation of environmentally sustainable alternatives. 3. Interpret key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. 4. To be able to apply concepts and methods from ecological and physical sciences in environmental problem solving. 5. Discover a general understanding of the breadth and interdisciplinary nature of environmental issues.
5.	**B.Sc Ag 605**	1. To analyze and check the status of production of food crops, legumes and tuber to meet the rapidly growing food requirements of the Indian population 2. Promoting adoption of agroforestry by utilizing the factors associated with this. 3. To construct and improve land and forest resources efficiently so that its productivity is increased & restored 4. To use available resources efficiently & economically and apply the practical knowledge of silviculture in professional life 5. To develop effective models to enhance the supply of timber and firewood to reduce pressure on forest.

6.	**B.Sc Ag 606**	1. understanding seed development, germination, vigor, deterioration and identify the relationship between laboratory tests and field performance 2. Acquaint the students with the principles of seed production for agronomic and horticultural crops within and outside of the region of adaptation and the techniques used in seed conditioning 3. Understand and analyze seed increase systems, seed testing and the laws and regulations related to marketing high quality seed 4. To learn and apply the seed legislation & seed law enforcement including IPR and PBR in India and discuss it among stakeholders 5. To get information about recent developments in seed industry and elaborate it among the farmers
7.	**B.Sc Ag 607**	1. Crop planning, raising field crops in multiple cropping systems and use of cropping system 2. Field preparation, seed treatment, nursery raising, sowing, nutrient management, water management, weed management and management of insect pests and diseases of crops harvesting, threshing, drying, winnowing, storage and marketing of produce 3. Creation of balance sheet including cost of cultivation, net returns 4. Use of new technologies and methods for the enhancement of crop production

B.Sc. (Agriculture): VII Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**B.Sc Ag 701**	1. To know about the marketing strategies and apply in the field of agriculture 2. Deals with the study of various laws with regards to agriculture and apply 3. Distinguish the differences between macroeconomics and microeconomics 4. Study and analyze the economic costs of unemployment and inflation 5. Classification of general economic concept
2.	**B.Sc Ag 702**	1. To analyze the breeding methods; inbreeding and out breeding 2. To determine & analyze the breeding aspects in farm animals 3. Helpful to analyze & evaluate the better health of farm animals 4. To formulate the improvement of farm animals' adaptability 5. Function & Importance of animal breeding in agriculture.
3.	**B.Sc Ag 703**	1. Analyze the present status of feeding ruminants in India. 2. To classify and differentiate the feeds, forages and, nutrients. 3. Explain, build & solve physiological phases in livestock metabolic system. 4. Interpret feeding experiments in livestock. 5. To enlist key nutrients for animals and analyze their importance.
4.	**B.Sc Ag 704**	1. To use fundamental aspects on Food, Nutrition and its Functions 2. To know and estimate the needs of the individuals, and their requirements 3. To describe and classify the deficiency diseases due to lack of Macro and Micro nutrients. 4. Formulate the Nutritional status of all age groups and their Recommended Dietary Allowances (RDA

5.	**B.Sc Ag 705**	1. To explain and analyze the fundamentals of nutrition. 2. To explain and analyze the physiological process of metabolism and understanding the role of food and nutrients in health and disease. 3. Make use of nutritional science to modify nutrient needs into menus for various groups of people. 4. Establish & use the link between foodborne infections and hygiene 5. Develop a position on a public policy affecting nutrition and food issues and/or health care programs.
6.	**B.Sc Ag 706**	1. Improve knowledge about soil classification on the basis of their characteristics. 2. Understand and utilize the tools and techniques of soil survey in agriculture. 3. To apply the application of remote sensing in agriculture. 4. To apply the image interpretation technique in soil and crops classification.
7.	**B.Sc Ag 707**	1. To formulate cultivation techniques related to medicinal and aromatic plants 2. To analyze standardization through chemical and molecular marker 3. To summarize and conclude the uses of various plants in medicinal purpose 4. To develop business related to medicinal and aromatic herbs 5. To construct effective ideas related to collecting, producing, processing and marketing herbal natural sources

B.Sc. (Agriculture): VIII Semester		
S.No.	**Course Code**	**Course Outcome**
1.	**RAWE**	1. To promote professional skills and knowledge through meaningful hands on experience. 2. To build confidence and to work in project mode 3. To analyze enterprise management capabilities 4. To develop experimental learning with business mode within the students. 5. To develops competence, capability, capacity building, acquiring skills, expertise, and confidence to start their own enterprise and turn job creators instead of job seekers.