



DEPARTMENT OF AGRICULTURE
SHRI RAM COLLEGE, MUZAFFARNAGAR

B. Sc. (Agriculture)

PROGRAMME OUTCOMES (POs)

Students graduating with the B.Sc. Physical Science degree should be able to acquire

PO-1: To demonstrate the ability to analyze data and draw appropriate statistical conclusions.

To demonstrate the ability to communicate effectively both orally and in writing.

PO-2: Understand the impact of the professional agricultural solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-3: To demonstrate research based knowledge of the legal and ethical environment impacting agriculture organizations and exhibit an understanding and appreciation of the ethical implications of decisions. And to demonstrate an understanding of and appreciation for the importance of the impact of globalization and diversity in modern agriculture organizations. Understanding of globalization, and NGO working.

PO-5: To demonstrate an ability to engage in critical thinking by analyzing situations and constructing and selecting viable solutions to solve problems. Ability to work effectively with others. To develops analytical ability and team work spirit.

PO-6: To understand and analyze the current events and issues that are occurring in agriculture and how they affect futuristic agriculture.

PO-7: Able to recognize and examine the relationships between inputs and outputs in their agricultural field to make effective and profitable decisions. To understand mechanics of agri entrepreneurship.

PO-8: Understand how all aspects of agriculture combine and are used by scientists, marketers, producers and understand how employer characteristics and decision-making at various levels enhance the success of an agricultural enterprise. To understand components of agri business and economics of market.

PO-9: Able to demonstrate critical thinking and problem solving skills as they apply to a variety of animal and or plant production systems .To understand problem solving skills in crop production and animal husbandry.

PO-10: Knowledge of Weather codes and Symbols, Reading and Recording of weather and climatic data. To get trained for climatologically records, soil data and soil nutrition.

PO-11: To develop critical and self-critical opinion and approach aiming at solving the most important practical problems in the field of plant protection by applying gained competencies


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and in accordance with high standards of academic integrity (ethics and moral) both in the profession and in society as a whole. To develop competence to work in Government, public and private sectors.

PO-12: Demonstrate knowledge and understanding in horticulture section: The breadth and depth of the profession of horticulture. Basic horticulture biology: taxonomy, anatomy, morphology, and physiology. The characteristics of the environment and their influence on plant growth and development. Current applications of horticultural principles and practices: propagation, pest management, production, maintenance, and business practices. Comprehensive knowledge of horticultural production. This program will also help students to enhance their employability for jobs in different sectors.

D-191: Principles of Agronomy

Course Outcome:

CO-1. In modern terminology however the word has come to mean and denote a branch of science dealing with all aspects of crop cultivation and production.

CO-2. A study of agronomy often involves a summoning of resources from related disciplines such as Botany, Soil Science, Irrigation, plant protection, Plant Genetics and Breeding, Agro- meteorology etc.

CO-3. In a more fundamental sense it can be categorized as an applied Science, the object of which is crop cultivation and management for the purpose of producing food for humans, feed for animals as well as raw materials for the industry.

CO-4. Knowledge about Indian Agriculture and importance, present status, scope and future prospect.


D-192: Fundamentals of Soil Science

Course Outcome:

CO-1. To be able about physical and chemical properties of soil and their effect on plant's health.

CO-2. To aware the students about causes, effects and remedies to prevention and mitigation of soil pollution.

CO-3. Knowledge about soil forming rocks and minerals, their weathering and soil forming


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processes and climatic factors affect them.

D-193: Elements of Genetics

Course Outcome:

- CO-1. Comprehensive, detailed understanding of the chemical basis of heredity specially in crop plants to improve and develop the new varieties of plants.
- CO-2. Understanding of how genetic concepts affect broad societal issues including health and disease, food and natural resources, environmental sustainability etc.
- CO-3. The knowledge required to design, execute, and analyze the results of genetic experimentation in plant systems.
- CO-4. Insight into the mathematical, statistical, and computational basis of genetic analyses that use genome-scale data sets in systems biology settings.
- CO-5: Understanding the role of genetic technologies in industries related to biotechnology, pharmaceuticals, energy, and other fields.

D-194: Elementary Statics and applied mathematics elements of Statistics

Course Outcome:

At the end of the course student will be able to know

- CO-1. Acquaintance with some basic concepts in statistics.
- CO-2. Making familiar with some elementary statistical methods of analysis of data viz. Measures of Central Tendency, Dispersion, Moments, Skewness, and Kurtosis and to interpret them.
- CO-3. Analysis of data pertaining to attributes and to interpret the results.

D-195: Agricultural Meteorology

Course Outcome:

- CO-1. To understand roles of agro meteorology in agriculture and its relation to other areas of agriculture to acquaint with recent developments in agro meteorology with historical development of climate change.
- CO-2. Agro meteorology or Agricultural meteorology studies meteorological and hydrological factors in relation to agriculture.
- CO-3. Agro meteorology studies the behavior of the weather elements that have direct


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relevance to agriculture and their effect on crop production.

CO-4. Weather and climate are the factors determining the success or failure of agriculture.

CO-5. To develop weather based agro advisories to sustain crop production utilizing various

D-196: Rural Sociology and Educational Psychology

Course Outcome:

CO-1. Understand concept of rural sociology, its importance in agricultural extension and characteristics of Indian rural society.

CO-2. Understand social groups, social stratification, culture, social values, social control and attitudes, leadership and training.

CO-3. Understand concept of educational psychology, intelligence, personality, perceptions, emotions, frustration, motivation, teaching and learning.

CO-4. Assess personality types, leadership types and emotions of human beings.

D-197: Fundamentals of Horticulture

Course Outcome:

CO-1. Students will be able to identify plant vegetative structure

CO-2. Students will understand basic principles, processes and plant propagation methods.

CO-3. Students will understand how to propagate plant, manage and harvest a variety of plant.

CO4 Students will learn how horticulture relates to the economy and environments, both currently and in the future.

D-198: Physical Education

Course Outcome:

CO-1. Understand concept of Physical education, develop skill and confidence.

CO-2. Maintain physical fitness.

CO-3. Demonstrate positive social skills, learn about personal health and wellness.

D-199: Structural & Spoken English

Course Outcome:

CO-1. Students will identify and explain their goals to the semester and also identify the needs of communication helps us meet. They will able to understand the common


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misconceptions about communication and the reasons, people use language.

CO-2. Students can differentiate the action, interaction and transaction models of communication. They can define the process of both perception and listening. Students can recall the importance of listening effectively and can identify strategies for communicating the cultural awareness.

CO-3. Students will be able to introduce themselves to the class and begin getting to know one another and will apply communication strategies by preparing and participating in class discussion.

CO-4. Students will prepare and present messages with the intent of persuading an audience. Students will be able to analyze basic communication skills, intercultural communication skills, interpersonal communication skills and public-speaking skills.

D- 008: Environmental Studies

Course Outcome:

CO-1. Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving. Interdisciplinary branches of environment and their scopes.

CO-2. Concepts of natural resources, Food resources, mineral resources, Concept of non Conventional energy resources, types and various applications of renewable resources and current potentials of energy resources.

CO-3. Ecosystem Links between environmental components and their role and types of ecosystems.

CO4: Types of biodiversity, their values, depletion and conservation methods.

D-291: Irrigation and Water Management

Course Outcome:

CO-1. Explain soil and water engineering concepts like measurement of land, surveying and leveling.

CO-2. Describe about irrigation and its different methods.

CO-3. Describe about irrigation water quality and its management including conjunctive use of water and water management of different crops.


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CO4. - Explain about agricultural drainage.

D-292: Fundamentals of Extension Education and Rural development

Course Outcome:

CO-1. Describe about rural sociology & educational psychology.

CO-2. Develop communication skill with farmer and easily implement the agricultural policies.

CO-3. Develop the personality for professional world, self-assessment, learn rectification and improvement.

D-293: Elementary Crop Physiology

Course Outcome:

CO-1. Role of crop physiology in crop health.

CO-2. Identification of deficiency symptoms of nutrients.

CO-3. To know the difference between C₃, C₄ and CAM plant.

CO-4. Importance of growth Harmon in Agriculture.

D-294: Introductory Entomology

Course Outcome:

CO-1. To be able to identify morphological characteristics.

CO-2. To be able to apply concepts and analytical approaches in evolutionary biology, genetics and other areas of insect biology of the student's choice.

CO-3. To be able to categorize insects based on basic ecological, behavioural, morphological, physiological, or developmental attributes.

D-295: Introductory Plant Pathology

Course Outcome:

CO-1. To provide specific knowledge about host pathogen interactions.

CO-2. Recognition of plant disease is the first step in doing something about them.

CO-3. To give specific knowledge about environment and disease development.

D-296: Elementary plant Bio-Chemistry and Chemistry of Plant products

Course Outcome:

CO-1. Role of cell organelles and their functions

CO-2. Functions of biomolecules and their utility in cell


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CO-3. Identify the deficiency symptoms of biomolecules

CO-4. Synthesis pathways of biomolecules and regulations

D-297: Introduction to Agriculture and Natural Resources Economics and Farm Management Economics

Course Outcome:

CO-1. Explain concept of farm management, objectives and relationship with other sciences.

CO-2. Discuss Farm business analysis: meaning and concept of farm income and profitability.

CO-3. Develop understanding of various types of important issues in economics and management of land, water, forest resource and the environment.

CO-4. Explain natural resources administration.

D-391: Cereals Millets, and pulses crops (Field Kharif crop)

Course Outcome:

CO-1. Collect the knowledge on kharif season crops, its classification (cereal crops, oilseed crops, pulse crops, sugar crops, fodder crops) and its importance in agriculture and national economy.

CO-2. Describe the origin, geographical distribution and economic importance of kharif crops.

CO-3. Define the soil and climatic requirements of Kharif crops.

CO-4. Explain the cultural practices, varieties and yield of Kharif crops.

D-392: Principal of plant breeding

Course Outcome:

CO-1. Establish the commercial plant breeding company to developed new superior crops varieties.

CO-2. Develop the insect and disease resistant varieties for environment friendly management of disease and insect.

CO-3. Start a consultant company to guide & supply the better varieties to the farmers.

D-393: Form power and Machinery; Farm Structures, Power and Machinery

Course Outcome:

CO1: Various sources of farm power and their uses.

CO2: About working of IC Engines and their uses in modern equipments.

CO3: About various parts of tractors and their mechanism.


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CO4: The financial aspects of using farm power.

D-394: Environmental Science Agro Ecology

Course Outcome:

CO-1. Describe different ecosystems, natural resources and environmental pollution.

CO-2. Explain about biodiversity and its conservation.

CO-3. Interpret the values, feelings and participation of society in protection activities of the environment.

CO-4. Develop the skills in identification of useful natural resources and their management practices.

D-395: Agriculture marketing, export and cooperation

Course Outcome:

CO-1. Optimization of Resource use and Output Management.

CO-2. Increase in Farm Income, National Income, Price Signals, Better Living.

CO-3. Growth of Agro-based Industries.

CO-4. Adoption and Spread of New Technology.

D-396: Vegetable Production

Course Outcome:

CO-1. Students will understand practical knowledge on specialized production techniques of vegetables and spices.

CO-2. Students understand will Importance of vegetables & spices in human nutrition improved and national economy.

CO-3. Students will knowledge about quality requirement and production and techniques.

CO-4. Managing skill for solving field problems.

D-397: Elementary Microbiology and Soil microbiology

Course Outcome:

CO-1. Student will understand the basic microbial structure, function and study the comparative characteristics of prokaryotes and eukaryotes.

CO-2. To know the various Physical and Chemical growth requirements of bacteria

CO-3. Impart knowledge about production of beneficial bacteria.


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D-491: Oil seeds commercials crops fields crops- II Rabi crops

Course Outcome:

- CO-1.** To know the Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of rabi crops .
- CO-2.** Students will be able to know about the economic importance of medicinal and Aromatic crops in present sphere.
- CO-3.** It will be helpful to know about basic morphological characteristics of *rabi* crops.

D-492: Breeding of field crops

Course Outcome:

- CO-1.** Comprehensive, detailed understanding of the chemical basis of heredity specially in crop plants to improve and develop the new varieties of plants.
- CO-2.** The knowledge required to design, execute, and analyze the results of genetic experimentation in plant systems.
- CO-3.** Insight into the mathematical, statistical, and computational basis of genetic analyses that use genome-scale data sets in systems biology settings.

D-493: Principles of soil physics and conservation

Course Outcome:

- CO-1.** various causes of soil erosion and forms of water erosion, classification of gully control measures or structures.
- CO-2.** Course will give the knowledge of soil loss equation and it can estimate long - term annual soil loss and guide conservationists on proper cropping, management, and conservation practices.
- CO-3.** This course will help the students to learn about Contour strip cropping designed to minimize soil erosion and Contour bunds which can save soils from erosion.

D-494: Livestock production and management

Course Outcome:

- CO-1.** Develop and evaluate animal production and management systems by integrating knowledge of animal genetics, nutrition, reproduction, and other relevant disciplines and applying scientific and quantitative reasoning to solve real-world challenges.


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CO-2. Communicate effectively about animal sciences to a range of audiences, both orally and in writing, using appropriate traditional and emerging media.

CO-3. Engage actively and effectively in discussion of complex issues relevant to the animal sciences by understanding and appreciating.

CO-4. Appreciate the breadth and depth of professional opportunities in animal sciences.

D-495: Economic Entomology, Economic entomology including crops

Course Outcome:

CO-1. To be able to address complex problems facing entomology or toxicology professionals taking into account related ethical, social, legal, economic, and environmental issues.

CO-2. To be able to surveillance and forecasting of insect pests and assessment of insect pest population and recent pest outbreaks and manage them by using different tools and recent methods pest management.

CO-3. To Understands about different classes of insecticides, their formulation, toxicity, poisoning, first aid and antidotes and their effect on plants, animals and environment.

D-496: Fruit production fruit production including plantation crops

Course Outcome:

CO-1. To know importance of different fruit crops and plantation crops.

CO-2. Students will understand package of practices for the major crops like mango, banana, guava, lemon, pineapple, coffee, coconut and rubber.

CO-3. To understanding the concept of high density planting in different fruit crops.

D-591: Introduction to plant biotechnology

Course Outcome:

CO-1. Functions of biomolecules and their utility in cell

CO-2. Identify the deficiency symptoms of biomolecules

CO-3. Synthesis pathways of biomolecules and regulations

CO-4. Identification of biomolecules in given sample

D-592: Milk and milk processing

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CO-1. To Understands about Milk and its secretion, composition of colostrums and milk of different species. Agencies engaged in handling and transportation of milk pricing of milk.

CO-2. To Understands about processing the milk. Filtration, Clarification, Bactofugation, pasteurization, ultra high temperature treatment, homogenization, sterilization, cooling and chilling of milk.

CO-3. To Understands about membrane filtration and reverse osmosis processes. Common adulterants and preservatives used in milk and their detection.

D-593: Preservation of fruits and vegetables post harvest management of fruits and vegetables

CO-1. To Understands about scope of post harvest management of fruits and vegetables

CO-2. Development of value added products of fruits and vegetables

CO-3. Practices of post harvest activities

D-594: Crop pests and integrated pest management crops pests and management

Course Outcome:

CO-1. Students are skilled in determining pest levels and impact on plant and animal hosts and the management of these pests by Integrated Pest Management approach.

CO-2. To be able to address complex problems facing entomology or toxicology professionals taking into account related ethical, social, legal, economic, and environmental issues.

CO-3. To be able to surveillance and forecasting of insect pests and assessment of insect pest population and recent pest outbreaks and manage them by using different tools and recent methods pest management.

CO-4. To Understands about different classes of insecticides, their formulation, toxicity, poisoning, first aid and antidotes and their effect on plants, animals and environment.

D-595: Weed management

Course Outcome:

CO-1. Students will be acquainted about why to undertake environmental weed control.

CO-2. Students will be acquainted about different approaches of weed management.

CO-3. Students will be acquainted about harmful and beneficial effects of weeds in Agriculture.


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CO-4. Students will be acquainted planning for weed management and weed management processes.

D-596: Crop disease and their management plant pathology

Course Outcome:

CO-1. Student will know importance of sign and symptoms for detection of pathogens and disease

CO-2. Student acquires the knowledge of integrated methods of disease management.

CO-3. Learn about biological and chemicals in disease management.

CO-4. Gain the knowledge about IDM modules of wheat, rice, groundnut, mustard, potato, cumin, citrus and chickpea diseases.

D-597: Soil fertility, fertilize and integrated nutrient management

Course Outcome:

CO-1. Knowledge of different manure and fertilizers used in different crops according to soil condition

CO-2. To understand essentiality of plant nutrients and mechanism of nutrient transport to plant and factor affecting nutrient availability.

CO-3. To be able about procedure of soil testing and establish soil testing laboratory in future as entrepreneur.

D-691: Principles of seed technology oil seed and commercial crops

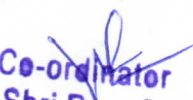
Course Outcome:

CO-1. Start a seed production program for fill full the requirement of quality seed in market and increase the income.

CO-2. Storage the pure variety seed to avoid the availability crises of pure variety seed due to adverse environmental conditions.

CO-3. To supply the disease free seed in the market to get the environment friendly cultivation of crops.

CO-4. To increase the farm income by producing high yielding disease free quality seed and decrease the cost of cultivation also, Production of hybrid seed of different crops to increase the farm income.


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D-692: Dairy products technology

Course Outcome:

CO-1. Knowledge about composition and method of manufacture of cream, butter, dahi, khoa, Chhena, ice cream, condensed milk powder, cheddar and cottage cheese, common adulterants of Ghee and khoa and their detection.

CO-2. Knowledge about Cleaning and sanitization of dairy equipments.

CO-3. Understand the nutritive value to milk and milk products.

D-693: Post Harvest Engineering

Course Outcome:

CO-1. Understand the post harvest technology of horticultural crops.

CO-2. Understand the value addition of horticulture crops.

CO-3. Understand the work space, tool and equipment design for PHT and value addition.

CO-4. study the various certification and accreditation i.e. FPO, ISO and other leveling.

D-694: Farming system and sustainable agriculture crop planning farm manage and sustainable agriculture

Course Outcome:

CO-1. It helps to adopt diversified farming system according to available farming situation.

CO-2. It will assist to encourage the sustainable agriculture system.

CO-3. Profitable based farming system can we adopted with the help of course content.

D-695: Agriculture Finance, Business management and trade management and trade

Course Outcome:

CO-1. Understand the conditions of financial markets and its impact in the economy.

CO-2. Understand the macroeconomics aspects of the economy as they affect the agricultural sector.

CO-3. Apply economics principles to understand the conduct and performance of the agricultural industry.

D696: Communication, Diffusion of agriculture innovation History and development of agri. Research and communication and diffusion of agriculture Innovation

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CO-1. Understand the communication process, elements and models of communication process and types of communication.

CO-2. Knowledge about innovation, diffusion, adoption, diffusion effect and rate of adoption, stages of adoption, factors affecting adoption, elements of difference between diffusion and communication.

CO-3. Innovation decision process, categories of adopters, characteristics of innovations.

D-697: Plant Pathology: Mushroom cultivation, Mushroom culture and elementary plant nematology.

Course Outcome:

CO-1. Understand the morphology of edible mushrooms and their classification.

CO-2. Methods of Cultivation of different types of edible mushrooms.

CO-3. Understand the Mushroom diseases, its management and Mushroom recipes.

D-698: Ornamental Horticulture

Course Outcome:

CO-1. To evaluate natural herbal products from an economic perspective.

CO-2. To develop effective ideas related to collecting, processing and marketing herbal natural sources.

CO-3. To use medicinal and aromatic

D-791: Rainfed Agriculture, Dry Land farming And Water Seed Management

Course Outcome:

CO-1. The term Rain fed agriculture is used to describe farming practices that rely on rainfall for water.

CO-2. Rainfall water can be used for a larger area by suitable watershed management techniques.


CO-3. Conservation of soil by adopting latest soil conservation techniques will help in obtaining higher production of Rainfed crops.

D-792: Silviculture and Agro. Forestry and spec. Forestry

Course Outcome:

CO-1. Students will understand recognize various harvesting, transportation, and processing systems used in the management of forest resources and production of forest products.


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CO-2. Students will understand develop and evaluate management plans with multiple objectives and constraints.

CO-3. Students will learn how to develop and apply silvicultural prescriptions appropriate to management objectives.

CO-4. Students will understand analyze forest inventory information and project futforest, stand, and tree conditions.

D-793: Production technology of Medicinal, Spices and Aromatic

Course Outcome:

CO-1. Understand the importance and scope of medicinal, aromatic and spices crops.

CO-2. Knowledge about cultivation of menthe, citronella, Khus, Ocimum, Rauvolifia and Dioscoria.

CO3. Knowledge about cultivation of turmeric, Zinger, Coriander, Zira and Saunf in the North Indian Condition.

D-794: Management of Problems Soil and Water Land

Course Outcome:

CO-1. Studies on saline and sodic soils-Occurrence classification, formation, diagnosis, characteristics and management.

CO-2. Knowledge about acid Soils- occurrence, formation, diagnosis, characteristics and management.

CO-3. Understand waterlogged soils- occurrence, characteristics and management. Factors responsible for land degradation and characteristics of different types of wastelands.

D-795: Dairy Chemistry and Animal Nutrition

Course Outcome:

CO-1. Understand the chemistry of milk constituent's viz. lactose, fat protein, enzymes and vitamins.

CO-2. Knowledge about classification of feeding stuffs, composition of Animal body and feeds.

CO-3. Knowledge about Functions of food constituents, the digestion and absorption of food constituents in ruminates.

D-796: Computer Application


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Course Outcome:

- CO-1. Understand analogy of computer
- CO-2. Basic knowledge of MS Office
- CO-3. Some basic knowledge of Internet and WWW
- CO-4. Use of IT application and different IT tools in Agriculture

D-891: RAWE Work

- CO-1. Develop the knowledge of students through RAWE work keeping this in view the rural agricultural work experience (RAWE) is included in the programme.
- CO-2. It provides exposure to agricultural students to the natural setting of the village situations, work with the farm families, identify their problems and make use of various extension tools for transferring the latest agricultural technologies.

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Department of Business Administration (BBA)

Programme Outcome

- Enables students to apply knowledge of management theories and practices to solve business problems.
- Encourages analytical and critical thinking abilities for business decision making.
- Promotes ethical and value-based leadership ability.
- Provides a wide knowledge of all disciplines of the course and training in management of both animate and inanimate entities and develops leadership skills.
- Enables students to effectively communicate business issues, management concepts, plans and decisions both in oral and written form using appropriate supportive technologies.
- MBA, PGDM, CA, ICWA, CS, LLB, M.Com are the popular choices for students after BBA to achieve their career objectives.
- Equips students to demonstrate the capabilities required to apply cross-functional business knowledge and technologies in solving real-world business problems.
- Enables students to demonstrate use of appropriate techniques to effectively manage business challenges.
- Makes students capable of recognizing and resolving ethical issues.
- Helps to prepare students for managerial roles and as entrepreneurs.

Programme Specific Outcome

- Ability to define, analyse the solutions for different business problems and using logical reasoning patterns for evaluating information, materials, and data for practical implementation.
- Provides verbal, reasoning, Data Interpretation, Quantitative and communication skill to solve specific business problems and decision making.
- Apply ethical principles and commitment towards professional ethics and responsibility.
- Function effectively as a member, leader, individual or group in diverse environment.
- Ability to conceptualize a complex issue into a coherent written statement and oral presentation and to communicate effectively on complex activities with technical community.
- Providing an opportunity for the students to gain practical exposure towards the workplace and make them industry ready.

Some of the esteemed job profiles you can attain after a successful completion of BBA are: Finance Manager, Business Administration Researcher, Human Resource Manager, Research and Development Manager, Business Consultant, Information Systems Manager, Marketing Manager

- Promotes entrepreneurship by providing understanding of the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.

- Ability to demonstrate technical competence in domestic and global arena of business through the study of

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Course Outcome of Bachelor of Business Administration

Sr. No.	Semester	Course Name	Learning Outcome
CO1	1	BBA-101:Business Organisation	<ol style="list-style-type: none"> 1. Provides with the logic and working of organizations and outlines the major function of business organisation. 2. Enables students to acquire and exhibit knowledge skill and abilities needed to successfully manage the organization with different environmental situations. 3. To give insight on Memorandum of Association, Article of Association, impact of globalization and technology on Indian Businesses.
CO2	1	BBA-102:Business Mathematics	<ol style="list-style-type: none"> 1. Explain the concepts and use equations, formulae, and mathematical expressions and relationships in a variety of contexts 2. Apply the knowledge in mathematics (algebra, matrices, calculus) in solving business problems 3. Analyse and demonstrate mathematical skills required in mathematically intensive areas in Economics and business.
CO3	1	BBA-103:Principles of Economics	<ol style="list-style-type: none"> 1. Analyze economic problems and can correlate scarcity with the requirements. 2. Evaluate demand and can analyse cost in order to optimise cost-production combination. 3. Recognize the existing market and can take appropriate decisions.
CO4	1	BBA-104:Book Keeping and Basic Accounting	<ol style="list-style-type: none"> 1. Understand and apply the essential numerical skills required for bookkeeping and accounting. 2. Understand and explain the relationship between the accounting equation and double-entry bookkeeping. 3. Record transactions in the appropriate ledger accounts using the double entry bookkeeping system.
CO5	1	BBA-105:Business Laws	<ol style="list-style-type: none"> 1. Analyze contract and define the business transactions as valid contracts. 2. Develop the idea of sale, distinguish sale and agreement to sell and can explain conditions and warranties. 3. Identify critical issues of partnership business and can recognize rights and duties of partners.
CO6	1	BBA-106:Fundamentals of Management	<ol style="list-style-type: none"> 1. Assume the roles and responsibilities associated with managerial functions. 2. Identify the key contributors and their contributions in the development of management thought. 3. Compare various approaches in management for problem solving.

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			3. Understand the concept of CSR in business organization.
CO8	2	BBA-201: Organisation Behaviour	<ol style="list-style-type: none"> 1. Analyze the organizational behaviour concepts, and correlate organizational behavior concepts with individual and group behaviour. 2. Evaluate personality types, perception and learning process on human behavior 3. Recognize the application of motivational theories in practical terms.
CO9	2	BBA-202: Business Communication	<ol style="list-style-type: none"> 1. Relate to the various concepts and processes of managerial communication. 2. Identify the gap between current level of communication skills and the expected industry standards. 3. Develop essential communication skills required for managing a business.
CO10	2	BBA-203: Indian Economy	<ol style="list-style-type: none"> 1. To understand the condition of Indian economy. 2. The role of planning process and how it has changed over the years. 3. Sectoral composition of GDP and role that different sectors have played in India's growth process.
CO11	2	BBA-204: Business Statistics	<ol style="list-style-type: none"> 1. Appraise the need for data analysis and formulate the statistical problem and solve it. 2. Interpret the results of statistical analysis for improved managerial decision making. 3. Apply analytical skills in both private and public business organizations in the country.
CO12	2	BBA-205: Business Environment	<ol style="list-style-type: none"> 1. Know and analysis different business environment. 2. Evaluate the major factors which affect the business. 3. Understand and analyze various political, technological and economic environment in the business
CO13	2	BBA-206: Principles of Accounting	<ol style="list-style-type: none"> 1. Demonstrate the role of accounting in business in economic world. 2. Explain the principles of accounting and book keeping 3. Apply accounting rules in determining financial results and preparation of financial statement
CO14	3	BBA-301: Advertising Management	<ol style="list-style-type: none"> 1. Describe different types of advertisement and to identify key players in advertising industry 2. Identify and make decisions regarding the most feasible advertising appeal and program. 3. Conduct pre-testing, post testing and concurrent testing of ads to determine their effectiveness

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			prevailing in India its operations.
CO16	3	BBA-303:Human Resource Management	<ol style="list-style-type: none"> 1. Demonstrate the understanding of theoretical concepts and framework required for effective HumanResource Management. 2. Develop an overview on various functions and processes of human resource management. 3. Identify the human resource needs of an organization and plan accordingly.
CO17	3	BBA-304:MarketingManagement	<ol style="list-style-type: none"> 1. Explain the core concepts of marketing and the goals of the Marketing function 2. Analyze the environment and recommend appropriate Segmentation, Targeting and Positioning Strategy for a product and analyze the buying behavior of a given target market segment 3. Recommend suitable product, pricing, distribution and Marketing Communication strategies for a brand to achieve the Marketing objective
CO18	3	BBA-305:Company Accounts	<ol style="list-style-type: none"> 1. Account for the various adjustments related to share capital 2. Prepare the final accounts of Joint Stock companies 3. Prepare the accounts of companies undergoing amalgamation and external reconstruction
CO19	3	BBA-306:CompanyLaw	<ol style="list-style-type: none"> 1. Apply basic legal knowledge related to formation and incorporation of companies. 2. Communicate effectively the procedure of capital formation in company. 3. Understand the documentation of company like memorandum of association, articles of association and prospectus.
CO20	4	BBA-401:Consumer Behaviour	<ol style="list-style-type: none"> 1. Identify the major influences in consumer behaviour. 2. Distinguish between different consumer behaviour influences and their relationships. 3. Establish the relevance of consumer behaviour theories and concepts to marketing decisions.
CO21	4	BBA-402:Financial Management	<ol style="list-style-type: none"> 1. Able to explain accounting statements and can analyse the financial statement with the help of ratio analysis 2. Apply the concept of time value of money for any investment decision. 3. Assess the capital structure of a firm and state its impact on firm's profitability.
CO22	4	BBA-403: Production Management	<ol style="list-style-type: none"> 1. Decide the purchase procedure and analyse and execute store management functions 2. Design suitable strategy of inventory control by applying concepts of EOQ and ROP, Value analysis etc.

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			<p>2. Describe different types of sales persons</p> <p>3. Explain the steps involved in sales force management.</p>
CO24	4	BBA-405: Research Methodology	<p>1. Describe the research process and list the characteristics of various types of research.</p> <p>2. Formulate Research Problem, Research Objectives and Hypothesis from a given research problem.</p> <p>3. Describe various research designs and methods of data collection.</p>
CO25	4	BBA-406: Operation Research	<p>1. Resolve the equations related to Linear programming.</p> <p>2. Identify the specially structured programming of transportation and assignment</p> <p>3. Analyze the decision making problems under uncertainty and competitive situations</p>
CO26	5	BBA-501: Managerial Economics	<p>1. Explain and analyze the workings of Indian Financial system, Market and its assets</p> <p>2. Explain the role of money market in Indian Financial System and the importance of legal framework.</p> <p>3. Describe the organizational structure of RBI as well as the Monetary Policy.</p>
CO27	5	BBA-502: Entrepreneurship & Small Business Management	<p>1. Understand the importance of entrepreneurs in growth and development of the economy.</p> <p>2. Analyze the importance of small-scale industries in growth and development of the country.</p> <p>3. Create a business plan that articulate and apply financial, operational, organizational and sales knowledge.</p>
CO28	5	BBA-503: Income Tax	<p>1. Introduces students to the basic concepts of Income Tax like Assessment year, previous year, cannons of taxation and Gross Total Income</p> <p>2. Briefs on computation of income from salary, Income from house property, profits and gains from business and profession and computation of total income and various deductions and exemptions.</p>
CO29	5	BBA-504: Cost and Management Accounting	<p>1. Apply costing methods and costing techniques appropriately as per the nature of business and the requirement of the firm</p> <p>2. Treat direct and indirect costs as per the costing techniques and from control purposes</p> <p>3. Prepare cost sheet for the firm and develop insights on the use of budgets for cost control</p>
CO30	5	BBA-505: Industrial Law	<p>1. Understand establishing & maintaining a sound relationship between the worker & the employer.</p> <p>2. Identify and rectify the simmering issues</p>

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CO31	5	BBA-506: Fundamentals of Computer	<ol style="list-style-type: none"> 1. Understand basic concepts and terminology of information technology. 2. Have a basic understanding of personal computer and acquire knowledge about generation of computers and types of computers. 3. Identify uses of spreadsheets in Managerial application
CO32	6	BBA-601: International Trade	<ol style="list-style-type: none"> 1. Explain the concepts in custom clearance in international business with respect to foreign trade 2. Apply the current custom clearance phenomenon and to evaluate the global business environment in terms of economic, social and legal aspects 3. Handle documentation procedures during International business.
CO33	6	BBA-602: Strategic Management & Business Policy	<ol style="list-style-type: none"> 1. Analyze strategy implementation alternatives for effective decision making. 2. Understand the strategic requirements and correlation between business plans with strategic plans. 3. Identify and evaluate different alternative strategies for effective decision making.
CO34	6	BBA-603: Goods & Services Tax	<ol style="list-style-type: none"> 1. Students will be able to compute the taxable income and tax for a partnership firm. 2. To make the students understand the basic concepts, definitions and terms related to Goods and Service tax (GST). 3. Students should be able to understand various terms related to Goods and Service tax(GST).
CO35	6	BBA-604: Management Information System	<ol style="list-style-type: none"> 1. To describe the role of information technology and decision support systems in business. 2. To provide the theoretical models used in database management systems to answer business questions.
CO36	6	BBA-605: Auditing	<ol style="list-style-type: none"> 1. Understand the differences between book keeping, accountancy and audit. 2. Prepare audit report of a business organization. 3. Understand the nature object and importance of investigation in audit.
CO37	6	BBA-606: Fundamental of E-Commerce	<ol style="list-style-type: none"> 1. Examine the features , functions and common practices of e-Commerce 2. Debate on the advantages and disadvantages of various e-Commerce models along with the infrastructure requirements 3. Identify areas of application along with contemporary issues arising in the field

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- PO1. Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2. Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- PO3. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4. Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- PO6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- PO7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes


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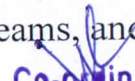
PO 5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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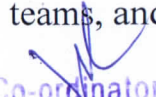
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