


DEPARTMENT OF AGRICULTURAL ENGINEERING

AY: 2022-2023		Year/Sem: I/I	Course: Mathematics I	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1101.1	Utilize mean value theorems to real life problems (L3)		
2	BS1101.2	Solve the differential equations related to various engineering fields (L3)		
3	BS1101.3	Familiarize with functions of several variables which is useful in optimization (L3)		
4	BS1101.4	Apply double integration techniques in evaluating areas bounded by region (L3)		
5	BS1101.5	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2- dimensional and 3-dimensional coordinate systems (L5)		

AY: 2022-2023		Year/Sem: I/I	Course: English	Regulation: R20
S. No	Course Code	Course Outcome		
1	HS1101.1	Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information		
2	HS1101.2	Ask and answer general questions on familiar topics and introduce oneself/others		
3	HS1101.3	Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information.		
4	HS1101.4	Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs		
5	HS1101.5	Form sentences using proper grammatical structures and correct word forms		


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AY: 2022-2023		Year/Sem: I/I	Course: Engineering physics	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1108.1	Demonstrate understanding of the principles of interference and polarization of light, along with their engineering applications, while distinguishing between interference and diffraction phenomena.(L3)		
2	BS1108.2	Understand LASER light sources, their types, engineering applications, and the working principle of optical fibers, including classification and applications in various fields.(L3)		
3	BS1108.3	Explore dielectric properties, magnetic materials, and their applications in devices, emphasizing concepts like polarization, Lorentz field, and susceptibility.L3)		
4	BS1108.4	Understand the principles of sound propagation in buildings, analyze acoustic properties of building materials, recognize sound disruptors, and identify applications of ultrasonics in various fields.(L2)		
5	BS1108.5	Classify crystal systems, identify crystal planes, analyze crystalline structure using Bragg's X-ray diffractometer, and apply powder method for measuring solid crystallinity. (2)		

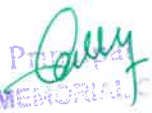
AY: 2022-2023		Year/Sem: I/I	Course: PSSA	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1101.1	Enhance comprehension of soil science fundamentals, encompassing soil composition, rock classification, mineral types, weathering processes, and soil formation factors, facilitating effective soil characterization and analysis.		
2	BS1101.2	Develop proficiency in soil physics principles, encompassing soil structure, consistency, density, porosity, water movement, infiltration, evaporation, air composition, temperature, color determination, and colloidal properties, to enhance soil management expertise.		
3	BS1101.3	Enhance comprehension of soil fertility principles and management techniques for sustainable agricultural practices.		
4	BS1101.4	Enhance understanding of irrigation water quality parameters and their impact on crop production, along with comprehensive knowledge of soil taxonomy and classification systems.		
5	BS1101.5	Develop understanding of tillage practices, encompassing seed bed preparation and sowing techniques, alongside weed management principles and soil conservation strategies for sustainable agriculture.		


AY: 2022-2023		Year/Sem: I/II	Course: Mathematics II	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1201.1	Develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)		
2	BS1201.2	Solve system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss Seidel (L3)		
3	BS1201.3	Evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)		
4	BS1201.4	Apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)		
5	BS1201.5	Apply numerical integral techniques to different Engineering problems (L3)		
6	BS1201.6	Apply different algorithms for approximating the solutions of ordinary differential equations with initial conditions to its analytical computations (L3)		

AY: 2022-2023		Year/Sem: I/II	Course: Engineering Chemistry	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS1210.1	Analyze the different types of composite plastic materials and interpret the mechanism of conduction in conducting polymers.		
2	BS1210.2	Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering products and categorize the reasons for corrosion and study methods to control corrosion.		
3	BS1210.3	<ul style="list-style-type: none"> • Synthesize nanomaterials for modern advances of engineering technology. • Summarize the techniques that detect and measure changes of state of reaction. • Illustrate the commonly used industrial materials 		
4	BS1210.4	<ul style="list-style-type: none"> • Differentiate petroleum, petrol, synthetic petrol and have knowledge how they are produced. • Study alternate fuels and analyse flue gases. 		
5	BS1210.5	Analyze the suitable methods for purification and treatment of hard water and brackish water		

AY: 2022-2023		Year/Sem: I/II	Course: Engineering Mechanics	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES1204.1	The student should be able to draw free body diagrams for FBDs for particles and rigid bodies in plane and space and problems to solve the unknown forces, orientations and geometric parameters.		
2	ES1204.2	He should be able to determine centroid for lines, areas and center of gravity for volumes and their composites.		
3	ES1204.3	He should be able to determine area and mass moment of inertia for composite sections		
4	ES1204.4	Analyze particle motion using kinematics and kinetics, apply work-energy method, and utilize impulse-momentum method for understanding motion behaviour.		
5	ES1204.5	He should be able to analyze motion of particles and rigid bodies and apply the principles of motion, work energy and impulse – momentum		


AY: 2022-2023		Year/Sem: I/II	Course: Engineering Drawing	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES1103 .1	Proficiency in constructing polygons, understanding curves (parabola, ellipse, hyperbola), and applying scales (plain, diagonal, vernier).		
2	ES1103 .2	Mastery in orthographic projections, encompassing reference planes, projection of points and lines, determination of true lengths, and angle of inclination.		
3	ES1103 .3	Develop students' ability to create projections of planes inclined to both reference planes and standard planes perpendicular or parallel to one reference plane and inclined to the other.		
4	ES1103 .4	Enhance students' proficiency in generating projections of solids, including prisms, pyramids, cones, and cylinders, with axes inclined to both reference planes.		
5	ES1103 .5	The student will learn how to visualize 2D & 3D objects.		



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AY: 2022-2023		Year/Sem: I/II	Course: Computer Programming	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES1201.1	To write algorithms and to draw flowcharts for solving problems		
2	ES1201.2	To convert flowcharts/algorithms to C Programs, compile and debug programs		
3	ES1201.3	To use different operators, data types and write programs that use two-way/multi-way selection		
4	ES1201.4	To select the best loop construct for a given problem		
5	ES1201.5	To design and implement programs to analyze the different pointer applications		
6	ES1201.5	To decompose a problem into functions and to develop modular reusable code		


AY: 2022-2023		Year/Sem: II/I	Course: Mathematics III	Regulation: R20
S. No	Course Code	Course Outcome		
1	BS.1	interpret the physical meaning of different operators such as gradient, curl and divergence (L5)•		
2	BS.2	estimate the work done against a field, circulation and flux using vector calculus (L5)•		
3	BS.3	apply the Laplace transform for solving differential equations (L3)		
4	BS.4	find or compute the Fourier series of periodic signals (L3)		
5	BS.5	know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)		
6	BS.6	identify solution methods for partial differential equations that model physical processes (L3)		



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AY: 2022-2023		Year/Sem: II/I	Course: Surveying and Leveling	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	"Plane surveying integrates traditional tools and modern methods, emphasizing principles of distance measurement, meridians, azimuths, bearings, and angle computations."		
2	PC.2	"Leveling and contouring cover the principles of temporary and permanent adjustments in leveling methods, along with contour characteristics, uses, and surveying techniques for plotting."		
3	PC.3	Area and volume computation include deriving irregular and regular boundary areas from field notes, as well as determining volumes for various features like embankments, cuttings, reservoirs, and barrow pits."		
4	PC.4	"Theodolite applications, adjustments, and measurements of horizontal and vertical angles, including principles of electronic theodolite, trigonometrical leveling, and traversing."		
5	PC.5	"Tacheometric surveying involves stadia and tangential methods, while advanced surveying includes geodetic surveying, Total Station, GPS, and GIS."		

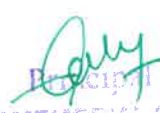
AY: 2022-2023		Year/Sem: II/I	Course: Fluid Mechanics and Open Channel Hydraulics	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES.1	Acquaintance of skills on basic principles of fluid, their properties, flow patterns, classification of flow regimes etc.,		
2	ES.2	Impart knowledge on boundary layer theory and their principals, alynamics of fluid flow and theories of flow regimes – energy calculations.		
3	ES.3	Development of skills on Buoyancy principals, flow measuring devises, their flow dynamics. Skill development on flow through pipes & their concepts, dynamics of mix flow principles of dimensional analysis and similitude, open channel flow dynamic.		
4	ES.4	Skill development on open channel flow dynamics, concepts & principles, their design procedures.		


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AY: 2022-2023		Year/Sem: II/I	Course: Properties and Strength of Materials	Regulation: R20
S. No	Course Code	Course Outcome		
1	ES.1	Skill development on basic properties of engineering materials and their uses, testing of materials.		
2	ES.2	Knowledge development on properties and application of difference of concrete, varieties, distempers, glass, rubber and plywood, plastics, iron-based materials, alloys etc.,		
3	ES.3	Development of skill on stress – strain analysis of beams under different types of loading patterns.		
4	ES.4	Acquaintance of skill on Euler's theory and buckling load, analysis on columns & different types of columns.		
5	ES.5	Skill development on different types of joints (Riveting),		
6	ES.6	welding analysis cantilever, fixed, continuous beams, theory of moments and their analysis.		


AY: 2022-2023		Year/Sem: II/I	Course: Farm Power and Tractor Systems	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on farm power sources classification I.C engine components & construction, operating systems		
2	PC.2	Skill development on fuel supply ignition, cooling & lubrication electrical ignition, fuels & their properties, governing systems of IC engines, power transmission, clutches & its applications.		
3	PC.3	Develop an understanding of different types of clutches, including friction clutch, dog clutch, and fluid coupling, focusing on their constructional details and working principles.		
4	PC.4	Gain knowledge of various gear types like selective sliding and constant mesh, understanding their mechanical advantages, torque ratios, and the necessity for gearboxes. Also, comprehend the functions of differential units and final drives in automotive systems.		
5	PC.5	Skill development on principles of fluid coupling & torque connector, brakes principles, classification & friction concepts of hydraulic system in factors.		
6	PC.6	Skill development on tractor powers outlets, P.T.O and its applications, Tractor testing and its main components, CG estimation, Tractor chassis its mechanics.		



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AY: 2022-2023		Year/Sem: II/I	Course: Constitution of India	Regulation: R20
S. No	Course Code	Course Outcome		
1	MC.1	Understand historical background of the constitution making and its importance for building a democratic India		
2	MC.2	Understand the functioning of three wings of the government ie., executive, legislative and judiciary		
3	MC.3	Understand the value of the fundamental rights and duties for becoming good citizen of India		
4	MC.4	Analyze the decentralization of power between central, state and local self-government.		
5	MC.5	Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy		

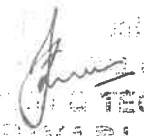
AY: 2022-2023		Year/Sem: II/II	Course: Heat and Mass Transfer	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on principles of heat and mass transfer, steady state heat transfer & its analysis, measurement of thermal conducting of pleasure & composite walls, tubes and spheres, multilayer tubes		
2	PC.2	Skill development on conduction principles of different materials in parallel, combined convection and conduction, concept of insulation.		
3	PC.3	Skill development on conduction, convection and radiation analysis of heat and mass transfer, different laws on radiation theory.		
4	PC.4	Imparting skills on unsteady state analysis of heat transfer in fins, free & force convection, cooling theories and principles.		
5	PC.5	Skill development on theory and principles of heat exchanges, their analysis, frick's law of mass transfer coefficients, Reynolds analogy.		



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AY: 2022-2023		Year/Sem: II/II	Course: Ground Water Hydrology, Wells and Pumps	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on principles of ground water resources development, different acquaintance and their principles.		
2	PC.2	Imparting knowledge on theory of open well hydraulics and drilling methods.		
3	PC.3	Skill development on aquifers characteristics under steady and unsteady state conditions, multiples well systems for coastal areas.		
4	PC.4	Knowledge development to students on artificial ground water recharge classification of indigenous pumps, solar pumps, wind mill pumps etc.,		
5	PC.5	Skill development on principles of Centrifugal pumps, principles & characteristics .		
6	PC.6	Skill development on High lift pumps, mixed flow pumps, and vertical turbine pump sets.		


AY: 2022-2023		Year/Sem: II/II	Course: Theory of Structures	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on RCC theory and practice of principles, stress – Strain analysis		
2	PC.2	Skill development on single, double reinforced sections, their theory & principles, shear stress analysis.		
3	PC.3	Acquaintance of knowledge on design principles of shear reinforcement, anchorage of bars & analysis		
4	PC.4	Skill development on theory and principles of design of one – way reinforced beams/slabs, twoway slabs and columns.		
5	PC.5	Skill development on principles of auxiliary loaded columns, foundations retaining walls, stability analysis.		



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AY: 2022-2023		Year/Sem: II/II	Course: Soil Mechanics	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Skill development on principles of soil mechanics soil classification, stresses in soils.		
2	PC.2	Skill development on Boussinesq's analysis for vertical pressure applications & Westergaard's analysis for point load applications.		
3	PC.3	Acquaintance of knowledge on shear stress analysis, Mohr's stress circle, measurement of shear strength.		
4	PC.4	Skill development on soil consolidation theory and principles.		
5	PC.5	Skill development on earth pressure and its effects on soil stability of slopes.		


AY: 2022-2023		Year/Sem: II/II	Course: Managerial Economics and Financial Analysis	Regulation: R20
S. No	Course Code	Course Outcome		
1	HSS.1	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product.		
2	HSS.2	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost combination of inputs.		
3	HSS.3	Understand the Nature of Different Markets and Price Output Determination		
4	HSS.4	Knowledge of Different Business Units		
5	HSS.5	The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis		
6	HSS.6	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for decision making		



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AY: 2022-2023		Year/Sem: III/I	Course: Farm Machinery and Equipment - I	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Apply Principles of Farm Mechanization to calculate field capacities and cost of cultivation.		
2	PC.2	Calculate the forces acting on tillage tools, Draft and Unit draft		
3	PC.3	Explain Earth moving Equipment.		
4	PC.4	Analyze Seeding methods, Plant protection Equipment		
5	PC.5	Discuss the features of Transplanting machinery and Fertilizer application equipment		

AY: 2022-2023		Year/Sem: III/I	Course: Surface Water Hydrology	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Analyze probability of rainfall, Return Period, Plotting position.		
2	PC.2	Determine net effective rainfall, Peak runoff and Peak runoff rate		
3	PC.3	Discuss the factors affecting flood hydrographs, hydrograph Separation for simple and complex storms.		
4	PC.4	Describe method of superposition, S-Curve and determine duration graphs.		
5	PC.5	Use the Concepts of Flood raining		


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AY: 2022-2023		Year/Sem: III/I	Course: Post Harvest Engineering of Cereals, Pulses and Oilseeds	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Apply principles of Bond's law, Kick's law, Rittinger's law for size reduction		
2	PC.2	Explain the features and application of Material Handling equipment		
3	PC.3	Explain the concepts of Dryers		
4	PC.4	Use CFTRI and Jadavpur methods for Mixing and Milling Practices		
5	PC.5	Apply the principles of milling wheat and Oil seeds		

AY: 2022-2023		Year/Sem: III/I	Course: Open Elective – I (RES)	Regulation: R20
S. No	Course Code	Course Outcome		
1	OE.1	Analyze solar radiation data, extra-terrestrial radiation, radiation on earth's surface and solar Energy Storage.		
2	OE.2	Illustrate the components of wind energy systems.		
3	OE.3	Illustrate the working of biomass, digesters and Geothermal plants.		
4	OE.4	Students will effectively select biomass and geothermal energy solutions.		
5	OE.5	Demonstrate the principle of Energy production from OTEC, Tidal and Waves		
6	OE.6	Evaluate the concept and working of Fuel cells & MHD power generation.		

AY: 2022-2023		Year/Sem: III/I	Course: (Professional Elective- I) Seed Processing and Storage Engineering	Regulation: R20
S. No	Course Code	Course Outcome		
1	PE.1	Estimate the moisture content by using different methods.		
2	PE.2	Calculate drying air temperature and air flow rate, air pressure within the grain bed.		
3	PE.3	Explain the causes for the spoilage in storage and calculate the parameters associated		
4	PE.4	Mastery in understanding the functional requirements of seed storage		
5	PE.5	Design grain storage structures		
6	PE.6	Analyze Grain handling equipment.		

AY: 2022-2023		Year/Sem: III/I	Course: Professional Ethics and Human Values	Regulation: R20
S. No	Course Code	Course Outcome		
1	MC.1	Judge the concepts of human values		
2	MC.2	Justify knowledge about the principles of engineering ethics.		
3	MC.3	Interpret engineering as social experimentation.		
4	MC.4	Realize engineers' responsibility for safety and risk.		
5	MC.5	: Realize engineers' responsibility for safety and risk.		

AY: 2022-2023		Year/Sem: III/II	Course: Soil and Water Conservation Engineering	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Calculate Peak run off, time of conservation		
2	PC.2	Estimate soil loss by using Universal Soil Loss equation and modified soil loss equation		
3	PC.3	Discuss factors affecting wind erosion, mechanics of wind		
4	PC.4	Design contour bunds, graded bunds and bench terraces		
5	PC.5	Design vegetated water ways, WH Structures		

AY: 2022-2023		Year/Sem: III/II	Course: Farm Machinery and Equipment - II	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Describe Crop harvesting machinery		
2	PC.2	Analyze the Power operated vertical conveyer reapers		
3	PC.3	Apply the threshing principles for all types of threshers		
4	PC.4	Analyze the factors affecting the harvesters.		
5	PC.5	Explain the features of cotton harvesting equipment.		

AY: 2022-2023		Year/Sem: III/II	Course: Agricultural Process Engineering	Regulation: R20
S. No	Course Code	Course Outcome		
1	PC.1	Discuss different types of Material handling devices		
2	PC.2	Analyze the effectiveness and mixing index for granular solids, mixing indices		
3	PC.3	Explain Aerodynamics of Agricultural product		
4	PC.4	Estimate moisture content in wet basis and dry basis for different types of grains		
5	PC.5	Apply milling principles for wheat, pulses and oil seeds.		

AY: 2022-2023		Year/Sem: III/II	Course: Watershed Management	Regulation: R20
S. No	Course Code	Course Outcome		
1	PE.1	Plan for watershed development		

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2	PE.2	Analyze the factors affecting the watershed management.
3	PE.3	Explain rainwater conservation technologies
4	PE.4	Learning dry farming methods for enhanced agricultural productivity in water-limited environments.
5	PE.5	Estimate the Effect of cropping systems, land management and cultural practices on watershed hydrology.
6	PE.6	Prepare project proposal for watershed management programme including cost-benefit analysis

AY: 2022-2023		Year/Sem: III/II	Course: Open Elective – II(EE)	Regulation: R20
S. No	Course Code	Course Outcome		
1	OE.1	Value safe water supply and environmental engineering's role.		
2	OE.2	Estimate water demand factoring in population growth.		
3	OE.3	Assess water sources for quality and quantity, meeting standards.		
4	OE.4	Apply treatment methods like sedimentation, filtration, disinfection.		
5	OE.5	Design efficient sewage systems, understanding operational challenges.		
6	OE.6	Analyze sewage characteristics, apply treatment for environmental protection.		

AY: 2022-2023		Year/Sem: IV/I	Course: Micro Irrigation Engineering	Regulation: R19
S. No	Course Code	Course Outcome		
1	PC.1	"Skill development on historical development of sprinkler irrigation in India & AP, components of sprinkler irrigation system. "		
2	PC.2	"Knowledge Acquiring on type of sprinkler irrigation systems, preaprtitation profiles & its distribution, its distribution due to wind, estimation of different uniformity, crop suitability under sprinkler systems. "		
3	PC.3	Explain about various micro irrigation systems		
4	PE.4	Explain about components of drip irrigation system. and pump selection principles.		
5	PC.5	Skill development on history of design of drip irrigation in India & AP, components of the drip[system, friction losses in pipe lines.		
6	PC.6	Skill development on the principles of emitting deices & their principles, construction details, hydraulic pressure variables along with principles, design of drip irrigation system, layout and automation of DIS & principles.		

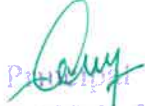
AY: 2022-2023	Year/Sem: IV/I	Course: Post Harvest Engineering for Horticulture Produce	Regulation: R19
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S. No	Course Code	Course Outcome
1	PC.1	Will have knowledge on pre and post harvest quality of fruits and vegetables.
2	PC.2	Gives an insight on handling and transportation of fruits and vegetables.
3	PC.3	Will have knowledge on post-harvest processing and storage of fruits and vegetables.
4	PC.4	Gets knowledge on methods of preparation of fruit and vegetable products
5	PC.5	Enable the student to learn the procedure for preservation and packaging of fruits and vegetables and their products

AY: 2022-2023		Year/Sem: IV/I	Course: Mechanical Measurements and Instrumentation	Regulation: R19
S. No	Course Code	Course Outcome		
1	OE.1	Explains the measurements for various types of instruments cited		
2	OE.2	Apply the knowledge of transducer in measuring Instruments		
3	OE.3	Apply the knowledge of various instruments in measuring pressure		
4	OE.4	Measures the strain and temperature using various instruments.		
5	OE.5	Apply the knowledge of instruments in measuring pressure and sound		

AY: 2022-2023		Year/Sem: IV/I	Course: Watershed Management	Regulation: R19
S. No	Course Code	Course Outcome		
1	PE.1	Skill development on basic principles of water development and various steps involved.		
2	PE.2	Skill acquiring on principles, concepts of watershed management, watershed planning, codification, prioritization of watersheds, sediment yield indese and water budgeting.		
3	PE.3	Understand and apply various management measures for water conservation and sustainable land use.		
4	PE.4	"Skills development on rain water conservation technologies, their concepts, principles for planning and design, Dryland techniques, integrated watershed management for arable, suni arid and with agriculture & horticulture, non arable technologies with fureshy, fishery and animal husbandry."		
5	PE.5	Skills development on watershed cropping systems & their diversification, its effects on hydrology suspense's, programme execution, monitoring & evaluation & watersheds.		
6	PE.6	Skills development in participatory watershed development and management, farmer institutions, formulation of watershed projects, socio economics.		

AY: 2022-2023		Year/Sem: IV/I	Course: GIS and Remote Sensing	Regulation: R19
S. No	Course Code	Course Outcome		
1	PE.1	Student will learn about the remote sensing data data acquisition and analysis also the impartment of IRS Satellites		
2	PE.2	Student will know about image interpretation visuals		
3	PE.3	Student will learn the digital image processing		
4	PE.4	Student learn the application of RS in agricultural, geology and soil mapping Student will learn the data base management system using various GIS package		
5	PE.5			


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AY: 2022-2023		Year/Sem: IV/II	Course: Design of Agricultural Machinery	Regulation: R19
S. No	Course Code	Course Outcome		
1	OE.1	Imports knowledge on various moving and non-moving elements of agricultural machinery.		
2	OE.2	Explains the laws, forces, stress, factors involved in agricultural machines.		
3	OE.3	Explain the levers, springs, material and construction procedure.		
4	OE.4	Apply principles of strength of materials to determine the strength and effectiveness		
5	OE.5	Imports knowledge on designing of various types of shafts and keys.		
6	OE.6	Apply the knowledge for designing of agricultural machines.		

AY: 2022-2023		Year/Sem: IV/II	Course: Agro Industries and By-Products Utilization	Regulation: R19
S. No	Course Code	Course Outcome		
1	OE.1	Will have an idea about need and necessity of utilization of agro industries by products		
2	OE.2	Gets knowledge on processes to convert low value by products from agricultural and food industries to value added products.		
3	OE.3	Gets information on utilization of agro industries waste for reverse such as feed, paper and briquets		
4	OE.4	Understand the properties of agricultural waste.		
5	OE.5	Will get knowledge on treatment techniques of water waste from agricultural food industries and animal sheds for safe disposal.		

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AY: 2022-2023		Year/Sem: IV/II	Course: Design of Soil and Water Conservation and Form Systems	Regulation: R19
S. No	Course Code	Course Outcome		
1	PE.1	. Skill development on principles of hydraulics of open channel flow, their design and construction in the field, critical energy concepts, froud number and its application in hydraulics.		
2	PE.2	Skill development in the principles of hydrologic, hydraulic of runoff measuring structures in the stream flow, seepage dynamic across the structures.		
3	PE.3	Acquaintance with knowledge on principles of design and construction of climate spills ways, inlet drop structures, pipe spill way etc., irrigation structures and their design & construction.		
4	PE.4	Skill acquiring in structures used in the aerial water conveying system, their principles, design and constructions & cross draining works.		
5	PE.5	Skill development on principles of irrigation outlets, their design and construction, diversion head works, different weirs and barrages		

AY: 2022-2023		Year/Sem: IV/II	Course: Agricultural Extension Techniques and Business Management	Regulation: R19
S. No	Course Code	Course Outcome		
1	PC.1	Student can improve the improper the communication skills through various extension and management techniques.		
2	PC.2	It is useful to the student to know the various extension services through which the technologies are communicated to the farmers.		
3	PC.3	"Student can be well admitted with management such an decision making, importance, planning, organization, control & co-relational etc.		
4	PC.4	Application of Management Principles in Agribusiness		
5	PC.5	It is useful for the students to start Agro based industries		
6	PC.6	Students can be well acquainted with different trading system, like international trade WTO and export & import policy		