GOVERNMENT DEGREE COLLEGE

NARASANNAPETA - SRIKAKULAM DIST- 532421

(Affiliated to Dr.B.R.Ambedkar University,Etcherla -Srikakulam Dist.)

Accredited with NAAC - "B" Grade

PROGRAMME OUTCOMES AND COURSE OUTCOMES

2023-2024

GOVT.DEGREECOLLEGE

NARASANNAPETA, SRIKAKULAM (DIST)

DEPARTMENT OF BOTANY

BOTANY PROGRAMME OUTCOMES(Pos) and COURSE OUTCOMES (COs)

2023-24

IIIB.Sc(CBZ)2023-24

S.PARAMESWARA RAO, LECTURER IN BOTANY

GOVERNMENTDEGREECOLLEGE,NARASANNAPETA,SRIKAKULAMDIST.

DEPARTMENTOFBOTANY

Programme(B.Sc.)Objectives: Theobjectivesofbachelor'sdegreeprogrammewith Botanyare:

1. Toprovideacomprehensiveknowledgeonvariousaspectsrelatedtomicrobesand plants.
2. Todeliver knowledgeonlatestdevelopmentsinthefieldofPlantscienceswithapracticalapproach.
3. Toproduceastudent whothinksindependently,criticallyanddiscussvariousaspectsofplantlife.
4. To enable the graduate to prepare and pass through national and internationalexaminations relatedto Botany.
5. To empower the student to become an employee or an entrepreneur in the field ofBotany/Biology and to serve the nation.

DomainSubject(Botany)Objectives:

1. Toimpart knowledgeonorigin, evolution, structure, reproduction andinterrelationshipsofmicrobes and early plant groups.
2. Toprovideknowledgeonbiologyandtaxonomyoftruelandplantswithinaphylogenetic framework.
3. Toteachaspectsrelatedtoanatomy,embryologyandecologyofplants,andimportanceof Biodiversity.
4. Toexplainthestructuralandfunctionalaspectsofplantswithrespecttothecellorganelles, chromosomes and genes, and methods of plant breeding.
5. TodevelopacriticalunderstandingonSPAC,metabolismandgrowthanddevelopmentinplants.
6. To enable thestudentsproficient inexperimentaltechniquesand methodsofanalysis appropriate for various sub-courses in Botany.

DomainSubject(Botany)Outcomes:

1. Students will be able to identify, compare and distinguish various groups ofmicrobes and primitive plants based on their characteristics.
2. Studentswillbeabletoexplaintheevolutionof trachaeophytesandalsodistributionofplantson globe.
3. Studentswillbeabletodiscussoninternalstructure,embryologyandecologicaladaptationsof plants, and want of conserving Biodiversity.
4. Studentswillbeabletointerpretlifeprocesses inplants inrelationtophysiologyandmetabolism.
5. Studentswillbeabletodescribeultrastructureofplantcells,inheritanceandcropimprovement methods.
6. Studentswillindependentlydesignandconductsimpleexperimentsbasedontheknowledge acquired in theory and practicals of the different sub-courses in Botany.

BOTANYCOURSEOUTCOMES(COs)-2022-23

SEMESTER–I : Fundamentals of Microbes and Non-vascularPlants(Viruses, Bacteria,Fungi,Lichens, Algae and Bryophytes)	Onsuccessfulcompletionofthiscourse,thestudentswillbeable to: • Explainorigin oflifeontheearth. • Illustrate diversity among the viruses and prokaryotic organisms and can categorizethem. • Classifyfungi, lichens, algaeandbryophytes basedontheir structure, reproduction andlife cycles. • Analyzeandascertaintheplantdiseasesymptomsduetoviruses, bacteria and fungi. • Recallandexplainthe evolutionary trendsamong amphibiansof plantkingdomfortheirshift to landhabitat. • Evaluatetheecologicalandeconomicvalueofmicrobes, thallophytes and bryophytes.
SEMESTER–I : Practical syllabus of Fundamentals of Microbes and Non-vascularPlants(Viruses, Bacteria,Fungi,Lichens, Algae and Bryophytes)	Onsuccessfulcompletionofthispracticalcourse,studentshallbe ableto; • Demonstrate the techniques of use of lab equipment, preparingslidesandidentifythematerialanddrawdiagrams exactly as it appears. • Observeand identifymicrobesand lower groupsofplantsontheir own. • Demonstratethetechniquesofinoculation,preparationofmedia etc. • Identifythe materialinthepermanentslidesetc.
SEMESTER–II: BasicsofVascularplants and Phytogeography (Pteridophytes, Gymnosperms, Taxonomy of Angiosperms and Phytogeography	Onsuccessfulcompletionofthiscourse,thestudentswill beableto: • ClassifyandcomparePteridophytesandGymnospermsbased on their morphology, anatomy, reproduction and life cycles. • Justifyevolutionarytrendsintrachaeophytestoadaptforland habitat. • Explainthe process offossilizationand compare the characteristics of extinct andextant plants. • Criticallyunderstandvarioustaxonomicalaids foridentificationof Angiosperms. • Analyze the morphologyofthe most common Angiosperm plants of their localitiesand recognize their families. • Evaluatetheecological, ethnicand economicvalueofdifferent trachaeophytes,their goods and services for human welfare. • Locatedifferentphytogeographicalregionsoftheworldand India and can analyzetheir floristic wealth.
SEMESTER–II: Practical syllabus of BasicsofVascularplants and Phytogeography (Pteridophytes, Gymnosperms, Taxonomy of Angiosperms and	Onsuccessfulcompletionofthiscoursestudentsshallbeable to: • Demonstrate the techniques of section cutting, preparing slides, identifyingofthematerialanddrawingexactfigures. • Compareandcontrastthemorphological,anatomicaland reproductive features ofvascular plants. • Identifythelocalangiospermsofthefamiliesprescribedto their genusandspeciesleveland prepare herbarium.

Phytogeography)	• Exhibitskillsofpreparingslides,identifyingthegiven twigs in the lab anddrawing figures of plant twigs, flowers and floral diagrams as they are. • Prepareandpreservespecimensoflocalwildplantsusing herbarium techniques
SEMESTER–III: Anatomy and Embryology of Angiosperms,Plant Ecology and Biodiversity	Onsuccessfulcompletionofthiscourse,thestudents willbeableto; • Understandontheorganizationoftissuesandtissuesystemsin plants. • Illustrateandinterpretvariousaspectsofembryology. • Discussthebasicconceptsofplantecology,and evaluate the effects ofenvironmental and biotic factors on plant communities. • Appraisevariousqualitativeandquantitativeparametersto study the populationand community ecology. • Correlatetheimportanceofbiodiversityand consequencesdueto its loss. • Enlisttheendemic/endangeredfloraandfaunafromtwo biodiversity hot spots inIndia and assess Strategiesfortheir conservation.
SEMESTER–III :Practical syllabus of Anatomy and Embryology of Angiosperms, Plant EcologyandBiodiversity	Onsuccessfulcompletionofthispracticalcoursestudents shallbe ableto: • Get familiarized with techniques of section making, staining and microscopic study of vegetative, anatomical and reproductive structure of plants. • Observe externally and under microscope, identify and draw exact diagrams of thematerial in the lab. • Demonstrate application of methods in plant ecology and conservation of biodiversity and qualitative and quantitative aspects related to populations andcommunities of plants.
SEMESTER–IV(P-IV): PlantPhysiologyand Metabolism	Onsuccessfulcompletionofthiscourse,thestudents willbeableto; • Comprehend the importance of water in plant life and mechanismsfortransportofwaterandsolutesinplants. • Evaluatetheroleofmineralsinplant nutritionand theirdeficiency symptoms. • Interprettheroleofenzymesinplantmetabolism. • Critically understand the light reactions and carbon assimilationprocessesresponsibleforsynthesisoffood in plants. • AnalyzethebiochemicalreactionsinrelationtoNitrogenandlipid metabolisms. • Evaluatethephysiologicalfactorsthatregulategrowthand development in plants. • Examinetheroleoflightonfloweringandexplainphysiology of plants under stressconditions.
SEMESTER–IV(P-IV): Practical syllabus of PlantPhysiologyand Metabolism	Onsuccessfulcompletionofthispracticalcourse,studentsshallbe able to: • ConductlabandfieldexperimentspertainingtoPlant Physiology, that is, biophysical and biochemical processesusingrelatedglassware,equipment,chemicals

	andplantmaterial. • Estimatethequantitiesandqualitativeexpressionsusing experimental results andcalculations • Demonstratethefactorsresponsibleforgrowthanddevelopmentin plants.
SEMESTER–IV(P-V): CellBiology,Genetics and Plant Breeding	Onsuccessfulcompletionofthiscourse,thestudentswill beableto: • Distinguishprokaryoticandeukaryoticcellsanddesignthemodel of a cell. • Explaintheorganizationofaeukaryoticchromosomeandthe structure of geneticmaterial. • Demonstratetechniquestoobservethecellandits components under amicroscope. • DiscussthebasicsofMendeliangenetics,itsvariationsand interpret inheritanceof traits in living beings. • Elucidatetheroleofextra-chromosomalgenetic material for inheritance ofcharacters. • Evaluatethestructure,functionandregulationofgeneticmaterial. • Understandtheapplicationofprinciplesandmoderntechniquesin plant breeding. • Explaintheproceduresofselectionand hybridizationfor improvement of crops.
SEMESTER–IV(P-V): PracticalsyllabusofCell Biology, Genetics and Plant Breeding	After successful completion ofthis practical course the student shallbe able to: • Show the understandingof techniquesof demonstrating MitosisandMeiosisinthelaboratoryandidentifydifferent stages of cell division. • Identifyandexplainwithdiagramthecellularparts ofacell fromamodelorpicture and prepare models • Solvetheproblemsrelatedtocrossesandgeneinteractions. • Demonstrateplantbreedingtechniquessuchasemasculationand bagging.
Skill Enhancement Courses(SECs) for SemesterVfrom2022-23 **SEMESTER–V:** **Course-6A:Plant Propagation**	Onsuccessfulcompletionofthis practicalcourse,studentwillbeableto: • Makeuseofdifferentplantpropagationstructuresforplant multiplication. • Explore the specialized organs or asexual propagulesinsomeplantsfortheirproliferation. • Demonstrateskillsonmicropropagationofplants through vegetative propagationtechniques. • Evaluateanduseasuitablepropagationtechniquefor agivenplant species.
Course 6A-Practicalsyllabusof Plant Propagation	Onsuccessfulcompletionofthispracticalcourse,student willbe able to: • Makeuseofdifferentplantpropagationstructuresforplant multiplication. • Explore the specialized organs or asexual propagulesinsomeplantsfortheirproliferation. • Demonstrateskillsonmicropropagationofplants through vegetative propagationtechniques. • Evaluateanduseasuitablepropagationtechniqueforagivenplant species.

Course7A- SeedTechnology	Studentsatthesuccessfulcompletionofthecoursewillbe able to: • Explainthecausesforseeddormancyandmethodsto break dormancy. • Understandcriticalconceptsofseedprocessingandseedstorage procedures. • Acquireskillsrelatedtovariousseedtestingmethods. • Identifyseedbornepathogensandprescribemethodstocontrol them. • Understandthelegislationsonseedproductionandprocedureof seed certification.
Course 7A- Practicalsyllabusof Seed Technology	Onsuccessfulcompletionofthispracticalcourse,student willbe able to: • Demonstrateskillsonvariousmethodstobreaktheseeddormancy. • Determineseedmoisture,seedgerminationpercentage,seed viability and vigour. • Identifytheseedbornepathogensandprescribe methodstoprevent or control them. • Evaluatevarious methodstoproducehealthyseeds.
Course 6B: VegetableCrops– Cultivation Practices	Studentsatthesuccessfulcompletionofthecoursewillbe able to: • Identifydifferentvegetableplantsandrealizetheirvalueinhuman nutrition. • Analysethetypesofsoilstocultivatevegetable crops. • Demonstrateskillsonagronomicpractices forcultivationof vegetable crops. • Acquireknowledgeonwater,weedanddiseasemanagementsin vegetable farming. • Comprehendaspectsrelatedtoharvestingandstorageofproduce.
Course6B: Practical syllabus of VegetableCrops- Cultivation Practices	Onsuccessfulcompletionofthispracticalcourse,student willbeable to: • Listout,identifyandhandledifferentgardenimplements. • Identifytheimportant vegetablecropsgrownintheirlocality. • Demonstratevariousskillsincultivationofvegetable crops. • Identifypests,diseasesandtheirremediesthat arespecificto a vegetable crop.
Course7B:Vegetable Crops–PostHarvest Practices	• Studentsatthe successfulcompletionofthecoursewillbeable to: • Understandvariouspracticesforvegetableproducefromharvesting to marketing. • Demonstrateskillsonstorage,processingandpreservationof vegetables. • Summarizecausesforspoilageofvegetablesbeforeand duringstorageand methodstoprevent andcontrolthem. • Makeuseofpreservationmethodstoreducethelossofvegetable produce. • Explainaboutvalueaddedproducts,packagingandmarketingof vegetables.

Course7B: Practical syllabusof Vegetable Crops – Post Harvest Practices	Onsuccessfulcompletionofthispracticalcourse,student willbeable to: • Listout,identifyandhandledifferentgardenimplements. • Identifytheimportant vegetablecropsgrownintheirlocality. • Demonstratevariousskillsincultivationofvegetable crops. • Identifypests,diseasesandtheirremediesthat arespecificto a vegetable crop.
Course6C:PlantTissue Culture	Studentsatthesuccessfulcompletionofthecoursewillbe able to: • Comprehendthebasicknowledgeandapplicationsofplanttissue culture. • Identifyvariousfacilitiesrequiredtosetupaplanttissueculture laboratory. • Acquireacriticalknowledgeonsterilizationtechniquesrelatedto plant tissue culture. • Demonstrateskillsofcallusculturethroughhandsonexperience. • Understandthebiotransformationtechniqueforproductionof secondary metabolites.
Course6C:Practical syllabus ofPlant Tissue Culture	Onsuccessfulcompletionofthispracticalcourse,student willbeable to: • Listout,identifyandhandlevariousequipment inplanttissue culture lab. • Learntheproceduresofpreparation ofmedia. • Demonstrate skills on inoculation, establishingcallusculture andMicro propagation. • Acquireskillsinobservingand measuringcallusgrowth. • Performsometechniquesrelatedtoplant transformation for secondaryMetabolite production.
Course7C:Mushroom Cultivation	Studentsatthesuccessfulcompletionofthecoursewillbe able to: • Understandthestructureandlifeofamushroomand discriminate edible and poisonousmushrooms. • Identifythebasic infrastructuretoestablisha mushroomculture unit. • Demonstrateskillspreparationofcompostandspawn. • Acquireacriticalknowledgeoncultivationofsomeedible mushrooms. • Explainthemethodsofstorage,preparationofvalue-added products and marketing
Course7C: Practical syllabusof MushroomCultivation	Onsuccessfulcompletionofthispracticalcourse,student willbe able to: • Identifyanddiscriminatedifferentmushroomsbasedon morphology.

	• Understand facilitiesrequiredformushroomcultivation. • Demonstrateskillsonpreparationofspawn,compost andcasing material. • Exhibitskillsonvariouscultivationpracticesfor an • ediblemushroom
Course6D:Gardening and Landscaping	Studentsatthesuccessfulcompletionofthecoursewillbe able to: • Acquireacriticalknowledgeabouttheaestheticvalue,typesand styles of gardens. • Performfiledoperations inagardenbyunderstandingtheroleofa gardener. • Identifyvariousornamentalplantsand explainthegrowthhabits. • Propagategardenplantsthroughvariouspropagationtechniques. • Demonstrateskillsofdesigninganddevelopinga garden.
Course6D: Practicalsyllabusof Gardening and Landscaping	Onsuccessfulcompletionofthispracticalcourse,studentwillbe able to: • Performvariousskillsrelatedto gardening. • Identifythelivingandnon-livingcomponentsrequiredforgarden development. • Identifythepestsanddiseasesofgardenplantsand controlthe same. • Demonstrateskillsofmakingbonsaianddevelopinglawn. • MakelandscapedesignusingCAD.
Course 7D- Agroforestry	Studentsatthesuccessfulcompletionofthecoursewillbe able to: • Understandtheconceptsandeconomicvalueofagroforestry. • Acquireacriticalknowledgeonsystemsanddesignof agroforestry. • Explainsilviculturepracticesinrelationtoagroforestry. • Understandtheroleofagroforestryto reclaimthewastelands. • Performskillsinrelationtotreemeasurementtechniques.
Course7D- Practical syllabusof Agroforestry	• Onsuccessfulcompletionofthispracticalcourse,student will be able to: • Identifysuitabletreespecies foragroforestryandtheirproducts. • Demonstrateskillsonraisingtreespeciesfromseedsandby vegetative propagation. • Performskillsonmeasurementsrelatedtowood-based products. • Estimate biomassinanenergyplantation.

IIIB.Sc(CBZ)2022-23

SEMESTER–V

LONGTERMINTERNSHIP

SEMESTER–VI

ANDHRAPRADESH STATECOUNCILOFHIGHER EDUCATION

(AStatutorybodyoftheGovernment ofAndhraPradesh) REVISED

UG SYLLABUS UNDER CBCS

(ImplementedfromAcademicYear2020-21)

PROGRAMME:FOURYEARB.Sc.(Hons)

DomainSubject:BOTANY

SkillEnhancementCourses(SECs) forSemesterV, from2022-23

StructureofSECsforSemester–V

(TochooseOnepairfromthe Fouralternate pairsof SECs)

Univ. Code	Course NO. 6&7	NameofCourse	Th. Hrs./ Week	IE Mar-ks	EE Mar-ks	Credits	Prac. Hrs./ Wk	Mar-ks	Credits
	6A	PlantPropagation	3	25	75	3	3	50	2
	7A	Seed Technology	3	25	75	3	3	50	2
		OR							
	6B	VegetableCrops–Cultivation Practices	3	25	75	3	3	50	2
	7B	VegetableCrops–PostHarvest Practices	3	25	75	3	3	50	2
		OR							
	6C	PlantTissueCulture	3	25	75	3	3	50	2
	7C	MushroomCultivation	3	25	75	3	3	50	2
		OR							
	6D	GardeningandLandscaping	3	25	75	3	3	50	2
	7D	Agroforestry	3	25	75	3	3	50	2

Note-1: For Semester–V, for the domain subject Botany, any one of the four pairs ofSECs shall be chosen as courses 6 and 7, i.e., 6A& 7A or 6B & 7Bor 6C& 7Cor 6D & 7D. The pair shall not be broken (ABCD allotment is random, not on anyprioritybasis).

Note-2: *One of the main objectives of Skill Enhancement Courses (SEC) is to inculcate skills related to the domain subject in students. The syllabus of SEC will be partially skill oriented.Hence,teachersshallalsoimpartpracticaltrainingtostudentsonthe skillsembedded in syllabus citing related real field situations.*

GOVERNMENT DEGREE COLLEGE

NARASANNAPETA, SRIKAKULAM (DIST)

DEPARTMENT OF CHEMISTRY

COURSE OUTCOMES (Cos)

SEMESTER – I Course I (Inorganic &Physical Chemistry) 60 hrs. (4h/w)

Course outcomes: At the end of the course, the student will be able to;

1. Understand the basic concepts of p-block elements

2. Explain the difference between solid,liquid and gasesintermsof intermolecularinteractions.

3. Applytheconceptsofgasequations,pHandelectrolyteswhilestudyingotherchemistrycourses.

LABORATORY COURSE -I 30hrs (2 h / w)

Practical-I Analysis of SALT MIXTURE (At the end of Semester-I)

Qualitative inorganic analysis (Minimum of Six mixtures should be analysed) 50 M

Course outcomes: At the end of the course, the student will be able to;

1. Understand the basic concepts of qualitative analysis of inorganic mixture

2. Use glassware, equipment and chemicals and follow experimental procedures in the laboratory

3. Apply the concepts of common ion effect, solubility product and concepts related to qualitative analysis.

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SEMESTER – II

Course II – (Organic & General Chemistry) 60 hrs (4h/w)

Course outcomes: At the end of the course, the student will be able to;

1. Understand and explain the differential behaviour of organic compounds based on fundamental concepts learnt.

2. Formulatethemechanismoforganicreactionsby recallingandcorrelatingthefundamentalproperties ofthereactantsinvolved.

3. Learnandidentifymanyorganicreactionmechanismsincluding Free Radical Substitution, Electrophilic additionandElectrophilic aromaticSubstitution.

4. Correlateanddescribethestereo chemical *propertiesoforganiccompoundsand reactions.*

LABORATORY COURSE-II 30hrs (2 h / w)

Practical-II Volumetric Analysis (At the end of Semester-II)

Course outcomes: At the end of the course, the student will be able to;

1. Use glassware, equipment and chemicals and follow experimental procedures in the laboratory

2. Understand and explain the volumetric analysis based on fundamental concepts learnt in ionic equilibria.

3. Learn and identify the concepts of a standard solutions, primary and secondary standards

4. Facilitate the learner to make solutions of various molar concentrations. This may include: The concept of the mole; Converting moles to grams; Converting grams to moles; Defining concentration; Dilution of Solutions; Making different molar concentrations.

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SEMESTER – III

Course III (ORGANICCHEMISTRY&SPECTROSCOPY) 60hrs (4 h / w)

Course outcomes: At the end of the course, the student will be able to;

1. Understand preparation, properties and reactions of haloalkanes, halo arenes and oxygen containing functional groups.

2. Use the syntheticchemistrylearntinthiscoursetodofunctionalgroup transformations.

3. Toproposeplausiblemechanismsforanyrelevantreaction

LABORATORY COURSE -III 30hrs (2 h / w)

Practical Course-III Organic preparations and IR Spectral Analysis (At the end of Semester- III)

Course outcomes: On the completion of the course, the student will be able to do the following:

1. how to use glassware, equipment and chemicals and follow experimental procedures in the laboratory

2. how to calculate limiting reagent, theoretical yield, and percent yield

3. how to engage in safe laboratory practices by handling laboratory glassware, equipment, and chemical reagents appropriately

4. how to dispose of chemicals in a safe and responsible manner

5. how to perform common laboratory techniques including reflux, distillation, recrystallization, vacuum filtration.

6. how to create and carry out work up and separation procedures

7. how to critically evaluate data collected to determine the identity, purity, and percent yield of products and to summarize findings in writing in a clear and concise manner

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SEMESTER - IV Course IV (INORGANIC, ORGANIC AND PHYSICAL CHEMISTRY) 60hrs (4 h / w)

Course outcomes: At the end of the course, the student will be able to;

1. Tolearnaboutthelawsofabsorptionoflightenergybymoleculesandthesubsequentphotochemical reactions.

2. Tounderstandtheconceptofquantumefficiencyandmechanismsofphotochemicalreactions.

LABORATORY COURSE -IV 30hrs(2 h / w) Practical Course-IVOrganic Qualitative analysis 50 M

Course outcomes: At the end of the course, the student will be able to;

1. Use glassware, equipment and chemicals and follow experimental procedures in the laboratory

2. Determine melting andboiling points of organic compounds

3. Understandtheapplication of concepts of different organic reactions studied in theory part of organic chemistry.

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SEMESTER – IV

CourseV(INORGANIC &PHYSICAL CHEMISTRY) 60 hrs (4 h / w)

Course outcomes: At the end of the course, the student will be able to;

1. Understand concepts ofboundaryconditionsandquantizationprobabilitydistribution,mostprobablevalues,uncertainty andexpectationvalues

2. Applicationofquantizationtospectroscopy.

3. Varioustypesofspectraandtheiruseinstructuredetermination.

SEMESTER – IV

CourseV LABORATORY COURSE 30hrs (2 h / w)

Practical-Course -VConductometric and Potentiometric Titrimetry 50M

Course outcomes: At the end of the course, the student will be able to;

1. Use glassware, equipment and chemicals and follow experimental procedures in the laboratory

2. Apply conceptsof electrochemistry in experiments

3. Be familiar with electroanalytical methods and techniques in analytical chemistry which study an analyte by measuring the potential (volts) and/or current (amperes) in an electrochemical cell containing the analyte.

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DEPARTMENT OF CHEMISTRY

POs PSOs

S.No	Programs offered	Program Outcomes	Program Specific Outcomes
1	M.P.C (EM & TM)	Objectives: 1.To inculcate enthusiasm in the core subjects Maths ,Physics and Chemistry along with the languages to meet the curriculum designed by University. Outcomes 1.Generating students with overall skill ability catering wide carrier opportunities globally and also meeting the requirements of industries. 2.Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties .	PSO1. Advanced learning techniques for students aiming to be a part of various research institutes of Chemistry, Mathematics and Physics were carried out by each of the science faculties.
2	C.B.Z (E.M)	Objectives: 1.To inculcate enthusiasm in the core subjects Maths ,Physics and Chemistry along with the languages to meet the curriculum designed by University. Outcomes 1.Generating students with overall skill ability catering wide carrier opportunities globally and also meeting the requirements of industries. 2.Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties .	PSO1. Advanced learning techniques for students aiming to be a part of various research institutes of Chemistry, Mathematics and Physics were carried out by each of the science faculties.

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GOVERNMENT DEGREE COLLEGE NARASANNAPETA

COURSE OUTCOMES 2020-2021

COMMERCE 2020-2021

S.NO	YEAR	COURSE NAME	CONUM	COURSE OUTCOMES
1	2021-22	Fundamentals of Accounting	CO1A	Identify transactions and events that need to be recorded in the books of accounts
				Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
				Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
				Analyze the difference between cash book and pass book in terms of balance and make reconciliation.
				Critically examine the balance sheets of a sole trader for different accounting periods.
				Design new accounting formulas & principles for business organisations.
		Business Organization and Management	CO1B	Understand different forms of business organizations
				Comprehend the nature of Joint Stock Company and formalities to promote a Company.
				Describe the Social Responsibility of Business towards the society
				Critically examine the various organizations of the business firms and judge the best among them.
				Design and plan to register a business firm. Prepare different documents to register a company at his own.
				Articulatenew models of business organizations.
		Business Environment	CO1C	Understand the concept of business environment.
				Define Internal and External elements affecting business environment.
				Explain the economic trends and its effect on Government policies.

				Critically examine the recent developments in economic and business policies of the Government.
				Evaluate and judge the best business policies in Indian business environment.
				Develop the new ideas for creating good business environment.
		Financial Accounting	CO2A	Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.
				Analyze the accounting process and preparation of accounts in consignment and joint venture.
				Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture.
				Determine the useful life and value of the depreciable assets and maintenance of Reserves in business entities.
				Design an accounting system for different models of businesses at his own using the principles of existing accounting system
		Business Economics	CO2B	Describe the nature of economics in dealing with the issues of scarcity of resources.
				Analyze supply and demand analysis and its impact on consumer behaviour.
				Evaluate the factors,such as production and costs affecting firmsbehaviour.
				Recognize market failure and the role of government in dealing with those failures.
				Use economic analysis to evaluate controversial issues and policies.
				Apply economic models for managerial problems, identify their relationships, and formulate the decision making tools to be applied for business
		Banking Theory and Practice	CO2C	Understand the basic concepts of banks and functions of commercial banks.
				Demonstrate an awareness of law and practice in a banking context.
				Engage in critical analysis of the practice of banking law.
				Organize information as it relates to the regulation of banking products and services.

				Critically examine the current scenario of Indian Banking system.
				Formulate the procedure for better service to the customers from various banking innovations
		Advanced Accounting	CO3A	Understand theconcept of Non-profit organisations and its accounting process
				Comprehend the concept of single-entry system and preparation of statement of affairs
				Familiarize with the legal formalities at the time of dissolution of the firm
				Prepare financial statements for partnership firm on dissolution of the firm.
				Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership
		Business Statistics	CO3B	Understand the importance of Statistics in real life
				Formulate complete, concise, and correct mathematical proofs.
				Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.
				Build and assess data-based models.
				Learn and apply the statistical tools in day life.
				Create quantitative models to solve real world problems in appropriate contexts
		Marketing	CO3C	Develop an idea about marketing and marketing environment.
				Understand the consumer behaviourand market segmentation process.
				Comprehendthe product life cycle and product line decisions.
				Know the process of packaging and labeling to attract the customers.
				Formulate new marketing strategies for a specific new product.

				Develop new product line and sales promotion techniques for a given product.
				Design and develop new advertisements to given products
		Corporate Accounting	CO4A	Understand the Accounting treatment of Share Capital and aware of process of book building.
				Demonstratetheprocedure for issue of bonus shares and buyback of shares.
				Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
				Participate in the preparation of consolidated accounts for a corporate group.
				Understand analysis of complex issues, formulation ofwell-reasoned arguments and reachingbetter conclusions.
				Communicate accounting policy choiceswith reference to relevant laws and accounting standards.
		Cost and Management Accounting	CO4B	Understand various costing methods and management techniques.
				Apply Cost and Management accounting methods for both manufacturing and service industry.
				Prepare cost sheet, quotations, and tenders to organization for different works.
				Analyze cost-volume-profit techniques to determine optimal managerial decisions.
				Compare and contrast the financial statements of firms and interpret the results.
				Prepare analysis of various special decisions, using relevant management techniques
		Income Tax	CO4C	Acquire the complete knowledge of the tax evasion, tax avoidance and tax planning.
				Understand the provisions and compute income tax for various sources.
				Grasp amendments made from time to time in Finance Act.
				Compute total income and define tax complicacies and structure.

				Prepare and File IT returns of individual at his own.
		Business Law	CO4D	Understand the legal environment of business and laws of business.
				Highlight the security aspects in the present cyber-crime scenario.
				Apply basic legal knowledge to business transactions.
				Understand the various provisions of Company Law.
				Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legal issues.
				Integrate concept of business law with foreign trade
		Auditing	CO4E	Understanding the meaning and necessity of audit in modern era
				Comprehend the role of auditor in avoiding the corporate frauds
				Identify the steps involved in performing audit process
				Determine the appropriate audit report for a given audit situation
				Apply auditing practices to different types of business entities
				Plan an audit by considering concepts of evidence, risk and materiality
		Goods and Service Taxes	CO4F	Understand the basic principles underlying the Indirect Taxation Statutes.
				Examine the method of tax credit. Input and Output Tax credit and Cross Utilisation of Input Tax Credit.
				Identify and analyze the procedural aspects under different applicable statutes related to GST.
				Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.
				Develop various GST Returns and reports for business transactions in Tally

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PROGRAM OUTCOMES

COMMERCE

B.COM COMPUTER APPLICATIONS & GENERAL

Programme Outcomes

At the end of three year B.Com programme, the students will be able to :-

PO 1- Build a strong foundation in accounting, management and business subjects

PO 2- Seek variety of career options in accounting, management and business related fields

PO 3- Equip with skills and knowledge to excel in their future careers

PO 4- Develop critical thinking skills in students

PO 5- Enter master programmes like M.Com, MBA and pursue professional programmes like C.A, CMA, C.S, etc.

PO 6- Develop entrepreneurial skills

Programme Specific Outcomes

At the end of three year B.Com programme with specialisation in Computer Application, the students will be able to:-

PSO 1- Understand the application of business Knowledge in both theoretical and practical aspects.

PSO 2- Determine the procedures and schedules to be followed on preparing financial statements of Companies.

PSO 3- Understand the basic concepts and functions of accounting,trade and computer software

PSO 4- Develop proficiency in the management of an organisation

PSO 5- Attain skills in conducting business transactions online

PSO6 – Analyse the scope of the business by adopting modern technology in the business practice

PSO7 - Follow the ethics pertaining to business transactions

COURSE OUTCOMES

After completing each course under three year B.Com programme with specialisation in Computer Application, the students will be able :-

INFORMATION TECHNOLOGY FOR BUSINESS

CO1 To provide knowledge about computer hardware and softeware

CO2 To facilitate knowledge about application of IT in education, commerce, business and Industry

CO3 To understand different types of

CO4 To enable students to create webpages

CO5 To provide information about internet and its advantages and disadvantages.

COST ACCOUNTING- I

CO1 To understand the concept of costing and related terms.

CO2 To familiarity with the estimation and controlling of material cost

CO3 To understand the estimation and controlling of labour cost

CO4 To familiarity with the estimation of overhead cost

CO5 To able to prepare cost sheet

E COMMERCE

CO1 Recognizes the impact of Information and Communication Technologies, on the Internet in business Operations.

CO2 Acquire knowledge in identifying the main business and marketplace models for electronic Communications and Trading

CO3 Understanding Electronic Payment System and its environment.

CO4 Make ethical decisions related to ecommerce based on laws, privacy, and security.

CO5 Analyze the steps, tools, and security considerations needed create an E- commerce Websites

DATABASE MANAGEMENT SYSTEM

CO1 It provide students about the key concepts and database terminologies
CO2 It provide the students awareness about different data models and relationships in database and how to efficiently organize data in a database
CO3 It enable the students to create database in MS access 2013
CO4 It enable students to analyze and update data in database using queries
CO5 It enable the students to generate reports using Ms Access 2013

FINANCIAL ACCOUNTING– I

CO1 To equip the students with the skill of preparing accounts and financial statements of various types of business units other than corporate undertakings
CO2 To introduce single entry system of accounts
CO3 To enable students with the skills to prepare royalty accounts,
CO4 To understand the system of preparing consignment accounts
CO5 To familiar with the procedure involved in the farm accounts.

FINANCIAL ACCOUNTING – II

CO1 To gain knowledge on preparation of accounts in Hire purchase and Instalment system.
CO2 To acquire the skill to prepare different types of branch accounts.
CO3 To transform the accounting knowledge in preparing departmental accounting.
CO4 To familiar with the procedure involved in the dissolution of partnership firms.
CO5 To familiarize students with the application of important accounting standards.

CORPORATE ACCOUNTS – I

CO1 To make the students familiarise with the rules relating to issues of shares and debentures.
CO2 To make the students familiarise with the rules relating to underwriting of shares
CO3 To familiar with computation of the financial results of companies
CO4 To familiar with preparation of Investments account
CO5 To familiar with computation of Insurance claims

CORPORATE ACCOUNTS – II

CO1 To compute the final accounts for a corporate group like banking companies
CO2 To compute the final accounts for insurance companies
CO3 To give a detailed idea about internal reorganization of companies
CO4 To apply the knowledge gained in preparation of final accounts of amalgamated companies
CO5 To study the procedure followed for the liquidation of companies

DATABASE MANAGEMENT SYSTEM

CO1 It provide students about the key concepts and database terminologies
CO2 It provide the students awareness about different data models and relationships in database and how to efficiently organize data in a database
CO3 It enable the students to create database in MS access 2013
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Department of Computer Science

Course outcome

S.No	Course Name	Course Outcome
1	Data Structures	CO1.Understand available Data Structures for data storage and processing. CO2.Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph CO3.Choose a suitable Data Structures for an application CO4.Develop ability to implement different Sorting and Search methods CO5.Understand data structures basic operations like insert, delete, search, update and traversal
2	Database Management Systems	CO1.Understand the fundamental concepts of DBMS with special emphasis on relational data model. CO2.Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database CO3.Model database using ER Diagrams and design database schemas based on the model. CO4.Create a small database using SQL. CO5.Store, Retrieve data in database.
3	Programming in C	CO1.Identify Computer Components CO2.Implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems. CO3.Design programs using decision structures, loops for problem solving CO4.Develop programs using arrays and other data structures CO5.Solve scientific problems using functions, pointers and dynamic memory allocation CO6.Design programs to create/update basic data files
4	Object Oriented Programming Using Java	CO1.Understand how object-oriented concepts are incorporated into the Java programming language CO2.Develop problem-solving and programming skills using OOP concept CO3.Understand the benefits of a well-structured program CO4.Develop the ability to solve real-world problems through software development in high-level programming language like Java CO5.Develop efficient Java applets and applications using OOP concept
5	Operating Systems	CO1.Analyse the concepts of processes in operating system and illustration of the scheduling of processor for a given problem instance. CO2.Identify the dead lock situation and provide appropriate solution so that protection and security of the operating system is also maintained. CO3.Analyse memory management techniques, concepts of virtual memory and disk scheduling. CO4.Understand the implementation of file systems and directories along with the interfacing of IO devices with the operating system.

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DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES FOR I B.Sc (MPC/MPCS)

SEMESTER -I

PAPER –I DIFFERENTIAL EQUATIONS

1. After successful completion of this course, the student will be able to solve linear differential equation.
2. Convert non exact homogenous equations to exact differential equations by using integration factors.
3. Know the methods of finding solutions of differential equations of the first order but not of the first degree.
4. Solve higher order linear differential equations, both homogenous, with constant coefficients.
5. Understand the concept and apply appropriate methods for solving differential equations.

SEMESTER -II

PAPER –II THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY

After Successful completion of this course, the student will be able to

1. Get the knowledge of planes.
2. Basic idea of lines, Sphere and Cones.
3. Understand the properties of planes, lines, spheres and cones.
4. Express the problems geometrically and then to get the solution.

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COURSE OUTCOMES FOR II B.Sc (MPC/MPCS)

SEMESTER -III

PAPER-III ABSTRACT ALGEBRA

After Successful completion of this course, the student will be able to

1. **Acquire the basic knowledge and structure of groups, subgroups and cyclic groups.**
2. **Get the significance of the notation of a normal subgroups.**
3. **Get the behavior of permutations and operations on them.**
4. **Study the homomorphism and isomorphism with applications.**
5. **Understand the ring theory concepts with the help of knowledge in group theory and to prove the theorems.**
6. **Understand the applications of ring theory in various fields.**

SEMESTER-IV

PAPER-IV REAL ANALYSIS

After successful completion of this course the student will be able to

1. **Get the clear idea about the real numbers and real valued functions.**
2. **Obtain the skills of analyzing the concepts and applying appropriate methods for testing convergence of a sequence/ series.**
3. **Test the continuity and differentiability and Riemann integration of a function.**
4. **Know the geometrical interpretation of mean value theorem.**

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COURSE OUTCOMES FOR II B.Sc (MPC/MPCS)

SEMESTER -IV

PAPER-V LINEAR ALGEBRA

After successful completion of this course, the student will be able to

1. **Understand the concept of vector spaces, subspaces, basis, dimension and their properties.**
2. **Understand the concepts of linear transformations and their properties.**
3. **Apply cayley-Hamilton theorem to problems for finding the inverse of a matrix and higher powers of matrices without using routine methods**
4. **Learn the properties of inner product spaces and determine orthogonality in inner product spaces.**

1)

2) A. Panicker

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DEPARTMENT OF MATHEMATICS

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DEPARTMENT OF HISTORY
GOVT DEGREE COLLEGE NARASANNAPETA
Course Outcomes-Sem 1

- Identify and define various kinds of sources and understand how history books are shaped
- Compare and contrast various stages of progress from IVC to Vedic age and analyze the Jain, Buddhist and Vedic faiths
- Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires
- Analyze the emergence of the Mauryan and Gupta empires during the "classical age" in India
- Evaluate the key facets of ancient society, polity and culture in South India—the feudalism, and the rise of technology and commerce.
- Critically examine the nature of monarchic rule and develop an comprehensive understanding of cultural evolution during ancient period
- Visualize where places are in relation to one another through map pointing

DEPARTMENT OF HISTORY
GOVT DEGREE COLLEGE NARASANNAPETA
Course Outcomes-Sem 2

- Understand the socio, economic and cultural conditions of medieval India
- Describe the advent of Islam in India and study the traces of political and cultural expansion of Turks & Afghans
- Explain the Administration and art and architecture ofVijayanagar Rulers, Mughals and also analyse the rise of the Marathas and the contribution of Shivaji
- Evaluate the establishment of the British rule in India and understand the dangerous consequences disunity at all levels
- Analyze the emergence of composite culture in Indian
- Visualize where places are in relation to one another through map pointing

DEPARTMENT OF HISTORY
GOVT DEGREE COLLEGE NARASANNAPETA
Course Outcomes-Sem 3

- Unearth the true nature of the British rule and its disastrous impact on Indian economy and society
- Gauge the disillusionment of people against the Company's rule even during the early 19th century
- Assess the causes and effects of Reformation movements and also inspire the public to overthrow inequalities of the present day society
- Rise above petty parochial issues after understanding the sacrificial saga of freedom struggle
- Evaluate the undercurrent of communal politics that led to India's partition and identify the enemies of India's integrity and sovereignty
- Visualize where places are in relation to one another through map pointing

DEPARTMENT OF HISTORY
GOVT DEGREE COLLEGE NARASANNAPETA
Course Outcomes-Sem 4

- Interpret social and political and cultural transformation from medieval to modern Andhra
- Relate key historical developments during medieval period occurring in coastal Andhra and Telangana regions and analyze socio - political and economic changes under QutbShahi rulers
- Understand gradual change, or change in certain aspects of society in Andhra, rather than rapid or fundamental changes
- Explain how the English East India Company became the most dominant power and outline the impact of colonial policies on different aspects in Andhra
- Outline the issues related to caste, women, widow remarriage, child marriage, social reforms and the laws and policies of colonial administration towards these issues
- Take pride in the non-violence struggle for Indian Independence and relate the importance of peace in everyday life
- Apply the knowledge of the regional history to understand the regional, linguistic and other cultural aspirations of the present day society
- Visualize where places are in relation to one another through map pointing

DEPARTMENT OF HISTORY
GOVT DEGREE COLLEGE NARASANNAPETA
Course Outcomes-Sem 5

- Demonstrate advanced factual knowledge of world histories, politics, and cultures
- Assess and appraise the developments in art, literature, and society during the Renaissance and utilize content knowledge of the Reformation and Counter Reformation to make predictions about the evolution of Christianity in Europe and abroad
- Evaluate the causes for the Glorious Revolution and American Revolution and identify the background for the evolution of human rights movement
- Understand the main events of the French Revolution and its significance in the shift in European culture from Enlightenment to Romanticism
- Think how Russia's traditional monarchy was replaced with the world's first Communist state.
- Know how the world wars affected people all over the world and the destruction they caused
- Develop the intellectual curiosity and habits of thought that will lead to life-long learning and continued engagement with European history, literature, culture, languages, and current affairs and acquire advanced international and intercultural competency through coursework in international studies
- Visualize where places are in relation to one another through map pointing

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SEMESTER – 4 :: COURSE – 4

ECONOMIC DEVELOPMENT- INDIA AND ANDHRA PRADESH

NO. OF CREDITS: 4

LEARNING OUTCOMES FOR THE COURSE

At the end of the course, the student is expected to demonstrate the following cognitive abilities and psychomotor skills.

1. Remembers and states in a systematic way (Knowledge)

    a. leading issues of Indian economic development with reference to potential for growth, obstacles and policy responses

    b. Objectives, outlays and achievements of economic plans and growth strategies

2. Explains (understanding)

    a. Available Resources, demographic issues, general problems of poverty and unemployment and relevant policies

    b.Sector specific problems, remedial policies and their effectiveness relating to Agriculture and Industrial Sectors of Indian and AP economy and infrastructure issues of AP economy

    c. Indian Tax system, recent changes, issues of public expenditure and public debt, recent finance commissions and devolution of funds

    d. Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance

3. Critically examines using data and figures (analysis and evaluation)

    a. Leading issues of current importance relating to India and AP economy, major policies and programmes

    b. Covid– 19 and its impact on Indian economy

4. Uses official statistical data and reports including tables and graphs

    a. To explain the achievements of Indian economy with reference to the objectives of planning and policy and make critical evaluation

Module – 1 Basic Features

Basic characteristics of Indian Economy as a developing economy – Economic development since independence - Objectives and achievements of planning – Planning Commission/NITIAyog and their approaches to economic development - India's Rank in Global Human Development Index .

Module 2 National Income and Demography

Trends in National income - Demographic trends - Poverty and Inequalities – Occupational Structure and Unemployment - Various Schemes of employment generation and eradication of poverty – Issues in Rural Development and Urban Development –Intra-state and Inter-state Labour Migration and unorganized sector Problems of Migrant Labour

Module – 3 Agricultural and Industrial Developments

Indian Agriculture – Agricultural Strategy and Agricultural Policy – Agrarian Crisis and land reforms – Agricultural credit – Minimum Support Prices -Malnutrition and Food Security - Indian Industry - Recent Industrial Policy – Make-in India – Start-up and Stand-up programmes – SEZs and Industrial Corridors - Economic Reforms and their impact - Economic initiatives by government of India during COVID - Atmanirbhar Bharat package.

Module –4Indian Public Finance

Indian Tax System and Recent changes – GST and its impact on Commerce and Industry – Centre, States financial relations- Recommendations of Recent Finance Commission – Public Expenditure and Public Debt - Fiscal Policy and Budgetary Trends

Module- 5Andhra Pradesh Economy

The basic characteristics of Andhra Pradesh economy after bifurcation in 2014 – Impact of bifurcation on the endowment of natural resources and state revenue – new challenges to

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DEPARTMENT OF ECONOMICS

Programme Outcomes (POs)

After the completion of the B. A. (H.E.P.) Programme, the students will be able toachieve the following outcomes:

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 accurateand 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 by connecting people, ideas, books, media and technology across the World.

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-centered 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 that of own, understand the moral dimensions of our decisions, and accept responsibility for them.

PO6. **Environment and Sustainability**:

Understand the issues in the contexts of environmental 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.

Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme (Economics) Specific Outcomes (PSO)

After completion of Economics programme, the students will be in a position to take informed decisions with regard to the following:

PSO1 - How the consumers and producers will take rational decisions in the context of unlimited needs and availability of scarce resources;

PSO2 – How the economy at the aggregate level works, what are the determinants of national income, prices, demand for and supply of money, poverty, and unemployment in an economiy;

PS03 - He/she Gets understanding of the process of economic growth, economic development, sustainable growth in the context of existence of trade-off between rapid economic growth and environmental sustainability in the long-run;

PS04 - He/she will be able to apply the determinants of economic growth and development to the economies of India and Andhra Pradesh and appraise the fiscal, monetary and other socio-economic policies being pursued in India and Andhra Pradesh

PSO5 – He/she will get a basic understanding of Statistical Methods with a view to applying them to economics and real life situations

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DEPARTMENT OF ENGLISH:

COURSE OBJECTIVES AND OUTCOMES - General English

COURSE OBJECTIVES:

1. Ability to be comfortable with English in use while reading or listening.

2.Ability to use receptive skills through reading and listening to acquire good exposure to language and literature.

3.Ability to write and speak good English in all situations.

4.Students should develop style in speech and writing and manipulate the tools of language for effective communication.

5. The course should provide exposure to the learners in Good Prose texts and Poems and expose the learners to value based ideas.

6. Students should enhance their language skills especially in the areas of grammar and pronunciation.

COURSE OUTCOMES :

1. Students can read and understand any text in English listening to the inputs given by the teacher in the classroom.
2. Students imbibe the rules of language unconsciously and tune to deduce language structure and usage.
3. Students write paragraphs, essays, and letters.
4. Students decipher the mechanism of language and use it for success in competitive examinations and job related speaking and writing tasks.

COURSE OBJECTIVES AND OUTCOMES - Foundation Course in Communication Skills

COURSE OBJECTIVES :

1. Ability to trace the difference of pronunciation of words, their correct pronunciation, accent and intonation.
2. Ability to use English correctly in speaking and writing skills.

COURSE OUTCOMES :

1. Students refer to dictionary and study the correct stress, right accent and right intonation to ask questions, make requests or to make command.

2. Students perform various speaking and writing tasks, such as roleplays, debates, group discussions apart from the use of correct spelling, punctuation and the ability to transfer information in the writing tasks.

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DEPARTMENT OF POLITICAL SCIENCE

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COURSE OUTCOMES- SEM1

Basic concepts of political science

- To understand the nature and scope of political theory
- To Understand the significance of political theory.
- To understand nation and nationality.
- To have more idea other various rights and duties and also how to behave in society.
- To understand what is justice freedom and equality.
- To discuss the most important political theorist in the western tradition and the ideas associated with them.

COURSE OUTCOMES- SEM2

Political Institutions

- To understand the forms of government in various countries and their pattern.
- To analyze the meaning of organs of government and the theory of separation.
- To understand the judiciary and judicial review.
- To understand different governments.

COURSE OUTCOMES- SEM3

Indian constitutes

- To understand the philosophy of the Indian constitution.
- To appreciate the various phases of the Indian national movement.
- To know the salient features in making of Indian constitution.
- To understand the union and state governments.
- To prepare for competitive exams and useful for civil service aspirants.

COURSE OUTCOMES- SEM4

Indian Political Process

- To have an idea of the caste system in India.
- To know the evolution of modernity in India.
- To have an overall idea of doctoral trends of from 1952 to 2014.
- To understand the party system and ideology of various parties

EXAMPLE: INC, CPM, BMK, BSP, AIADMK, TDP, YSRCP.

COURSE OUTCOMES- SEM5

Indian political part

- To demonstrate knowledge of key thinkers and concepts.
- To understand the natural methods and significance of political thoughts.
- To analyze the theory of ancient @medieval political thoughts of Greek and India.
- To understand the relationship between religion and politics in early modern western political thought,

Western political thought

- To have an idea of western political philosophy.
- To know the ideas of various thinkers like Plato, and Aristotle.
- To compare with the social Contractualists thoughts of Hobbes, lock, and Rousseau and their view regarding state, government, and general will
- To inculcate the spirit of ahimsa, and satyagraha through Gandhi's ideology
- To have an idea on the theory of TS Mill and Karl Marx.
- To appreciate the concept of liberty and representative government.

COURSE OUTCOMES- SEM51

PRINCIPLES OF PUBLIC ADMINISTRATION

- To understand the nature and scope of public administration.
- To have more idea on the classical theory of HENRYFOYAL, decision-making theory H.A SIMON.
- To be able to know the policy formation
- To have knowledge of all financial administration

Example: Budgeting

- To have more knowledge of the composition and functions of UPSC and APSSC.

CLUSTER PAPERS

CLUSTER PAPER 1

PAPER 1INTERNATIONAL RELATIONS

- To understand the evolution scope and significance of international relations and the rise of the sovereign state system
- To know the impact of the first world war and second world war and their causes and consequences
- To analyze the history of international relations through the causes and phases of colonialism.
- To understand the international political economy.
- To analyze the international security arms race, arms control, and disarmament

CLUSTER PAPER 2

INDIA FOREIGN POLICY

- To have knowledge of Indian foreign policy.
- To know the composition and powers of UNO.

- The student is able to understand the role of India in the NON-alignment movement.

- To have more idea on Indo- Pak and Indo-China relations and have an idea on SAARC.

CLUSTER PAPER 3

Contemporary Global issues:

- Students will be able to conceptualize globalization and its key terms, debate, and process.

- Students will be able to carry out independent research connecting to globalization.

- Students will be able to use their study abroad experience to inform their understanding of the global process.

- Students will be able to employ a multi-disciplinary perspective on a global.

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Sl No	Year	Course Name	CO Number	Course Outcome
				Telugu 2020-21
7	2020-21	PRACHEENA KAVITVAM	CO1	To realize the impact of values, culture, and religion on life and literature in the ancient period by going through ancient Telugu liteature
			CO2	To be able to understand the distinction between the ancient and modern grammar and the value given to stylistics, metre, rhythm, and musical quality
			CO3	To be able to understaned the difference between the works of different classical poets, their works and their impact on the community.
			CO4	To master the basic rules of grammar of the classics and locate the same in the poetry selections.
			CO5	To acknowledge the beauty of nature through figures of speech. To receive the rhyme and rhythm by prosody
8	2020-21	ADUNIKA KAVITVAM	CO1	modern styles of writing poetry and the efforts to come out from the clutches of metre, rhyme, rhythm etc. to reach out to the common man.
			CO2	To understand the beauty of creative poetry and poetry of imagination with common themes such as the literature of the downtrodden and the oppressed classes
			CO3	To have ecological awareness through the description and analysis about charecterstics of plant
			CO4	To be aware of social evils such as suppression of women, plight of widows, etc. in our traditional society
			CO5	To be aware of equality men and women, work distribution, dignity of labour in home ,to know how the spoil the tradional arts and employement
9	2020-21	PRAACHEENA KAVITVAM	CO1	To acquire knowledge of the Alankaras (prosody) in the ancient Aliteary texts
			CO2	To understand the use of Alankaras through comparative study of the poetry lessons
			CO3	To analyse the liteary texts to know how the ancient poetry given prominence to Alankaras and how the texts gave significance to prosody.

			CO4	To apply the acquired knowledge of Prosody in analysing the ancient poetry works
			CO5	To acknowledge the beauty of nature through figures of speech. and to receive the rhyme,and rythem by prosdy
11	2020-21	PRAACHEENA KAVITVAM, ALANKAARALU, CHANDASSU	CO1	To be able to undrestand and appreciate the beauty of ancient works of art and the use of figures of speech and their beauty
			CO2	To understand the use of vocabulary, the archaic words and their application in various meanings
			CO3	To be able to write poetry by acquiring the knowledge of the classical prosody its rules and regulations
			CO4	To understand the impact of Sanskrit literature on ancient Telugu literature.
			CO5	To be aware of prosdy, sandhis and samasas etc to understnd the use of language skills
12	2020-21	PRAACHEENA TELUG	CO1	To know the existence of Telugu language by inscriptions, legistations and introductions of poetry.
			CO2	To enrich knowledge on legends of Telugu literature like Nannaya, Tikkana, Errana and their volumes
			CO3	To acknowledge various genres of Telugu literature
			CO4	To gain the knowledge on the influence of culture on language.
			CO5	To observe the Impact of Industrial Revolution in Andhra and special reference to Cotton Irrigation Policiy in Andhra

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G. Ravi

DEPARTMENT OF POLITICAL SCIENCE

Programme Outcomes (POs)

After the completion of the B. A. (H.E.P.)Programme, the students will be able to achieve the following outcomes:

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 accurateand 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 by connecting people, ideas, books, media and technology across the World.

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-centered 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 that of own, understand the moral dimensions of our decisions, and accept responsibility for them.

PO6. **Environment and Sustainability**:

Understand the issues in the contexts of environmental and sustainable development.

PO7. **Self-directed and Life-long Learning**:

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Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

K. Reyyamma

GOVT. Degree College
NARASANNAPETA

Scanned with CamScanner

DEPARTMENT OF HISTORY

Programme Outcomes (POs)

After the completion of the B. A. (H.E.P.) Programme, the students will be able toachieve the following outcomes:

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 accurateand 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 by connecting people, ideas, books, media and technology across the World.

PO3. **Social Interaction**:

Elicit views of others, mediate disagreements and help reach conclusions in group settings.

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PO7. **Self-directed and Life-long Learning**:

Scanned with CamScanner

Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

P. Ch. Venkateswara Rao

LECTURER
Govt. Degree College
NARASANNAPETA

Scanned with CamScanner

GOVERNMENT DEGREE COLLEGE , NARASANNAPETA

DEPARTMENT OF MATHEMATICS

PROGRAMME OUTCOME OF B.SC., MATHEMATICS

* Think in a critical manner.

* Know when there is a need for information ,to be able to identify, locate, evaluate and effectively use that information for the issue or problem at hand .

* Formulate and develop mathematical arguments in a logical manner.

* Acquire good knowledge and understanding in advanced areas of mathematics , chosen by the student from the given courses .

* Understand , formulate and use quantitative models arising in social science and other contexts .

1)

2) A. Pavani
LECTURER
Govt. Degree College
NARASANNAPETA

Department of Physics

PO S and PSO S

S.No	Programs offered	Program Outcomes	Program Specific Outcomes
1	M.P.C (EM & TM)	Objectives: 1.To inculcate enthusiasm in the core subjects Maths ,Physics and Chemistry along with the languages to meet the curriculum designed by University. Outcomes 1.Generating students with overall skill ability catering wide carrier opportunities globally and also meeting the requirements of industries. 2.Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties .	PSOI. Advanced learning techniques for students aiming to be a part of various research institutes of Chemistry, Mathematics and Physics were carried out by each of the science faculties.
2		Objectives: 1.To inculcate enthusiasm in the core subjects Maths ,Physics and Chemistry along with the languages to meet the curriculum designed by University.	PSOI. Advanced

	M.P.Cs (E.M)	Outcomes 1.Generating students with overall skill ability catering wide carrier opportunities globally and also meeting the requirements of industries. 2.Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties .	learning techniques for students aiming to be a part of various research institutes of Chemistry, Mathematics and Physics were carried out by each of the science faculties.

P. Dillu Varalu
LECTURER
Govt. Degree College
NARASANNAPETA