



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous)

(Approved by AICTE | NAAC Accreditation with 'A' Grade |
Accredited by NBA (CIV, CSE, ECE & EEE) | Affiliated to JNTUA)
Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department of Computer Science Engineering

Course Outcomes-R20

CourseName: MANAGERIALECONOMICSANDFINANCIALANALYSIS

S.NO	COURSEOUTCOMES
1	Analyze the concepts of managerial economics and financial accounting to Make better decisions in the organization
2	Analyzethedemand,production,costandbreakeventoknow interrelationshipamongvariablesandtheirimpact
3	Classifythemarketstructureto decidethefixationofsuitableprice
4	Applycapitalbudgetingtechniquestoselectbestinvestmentopportunity
5	Analyzeandpreparefinancialstatementstoassess financialhealthofbusiness.

CourseName: OBJECTORIENTEDPROGRAMMINGTHROUGHJAVA

S.NO	COURSEOUTCOMES
1	Applyobjectorientedconceptsforsolvinggeneralpurposeproblems
2	Useinheritance,userdefinedpackagesandinterfacesfor code reusability
3	Applyexceptionhandlingandmultithreadingforrobustandefficientapplication development
4	Implementcollectionframeworkstostoreandretrieve dataefficiently
5	BuildGUIapplicationsusingswingfor user interface design

CourseName: DATABASEMANAGEMENTSYSTEMS

S.NO	COURSEOUTCOMES
1	Applysuitable datamodelforgivenapplication
2	ConstructoptimizedSQLqueries to solverealtimeproblems
3	Applysuitable normalformtoeliminatedata redundancy
4	Usesuitable transactionmodeltoavoidDeadlock
5	Choose appropriate indexstructuretoimprove performance



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CourseName:DISCRETEMATHEMATICS

S.NO	COURSEOUTCOMES
1	Applythelogicstatementsandconnectivesetosolverealtimeproblems
2	Classifyalgebraicstructureandrelationsforagivenmathematical problem
3	Analyzethebasicresultsincombinatoricsandbinomialthermosforaccuracy
4	Applyvariousrecurrencerelationstofindsolutionsfornumericsequences
5	Applygraphtheorytechniquesetosolvenetworkproblems

CourseName:DIGITALELECTRONICS

S.NO	COURSEOUTCOMES
1	Performarithmeticoperationsondifferentnumbersystemsandtoapply theprinciplesofBooleanalgebra tominimize logic expressions.
2	Makeuseofk-mapandtabulationmethodstominimizeBoolean functionsandtoimplementwithlogicgates.
3	Analyse basic components used in digital systems such as adder and subtractor,decoder, encoder, multiplexer,flip-flops, registers and counters
4	Distinguishcombinationalandsequentiallogicin termsoftheirfunctions.
5	DesignvariousPLDssuchasROMs,PALs,PLAsandPROMs.

CourseName:OBJECTORIENTEDPROGRAMMINGTHROUGH JAVA LABORATORY

S.NO	COURSEOUTCOMES
1	Designsolutionsfortheproblemsofgeneralpurposeapplicationsusingobject orientedconcepts.
2	Generatereusablecodesusinginheritance,userdefined packages andinterface
3	Writerobustandefficientcodeusingexceptionhandlingand multithreadingconcepts
4	Implementcollectionframeworksandfilehandlingtechniquesstoreand retrievedata



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5	Designuserinterfaceusingswings
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CourseName:DATABASEMANAGEMENTSYSTEMSLABORATORY

S.NO	COURSEOUTCOMES
1	DesignDatabasetablesforthegivenproblem
2	Useappropriatequeryingprocessingtechniquetoaccessthe data
3	Applysuitablenormalformtoeliminatedataredundancy
4	DevelopPL/SQLroutinesforreusabilityofcode
5	Applyappropriatetriggeringconceptsforautomation and



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	performance
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CourseName: DIGITALELECTRONICLABORATORY

S.NO	COURSEOUTCOMES
1	Design digital logic circuits using software
2	Verify the logical operations of the digital logic gates in the laboratory.
3	Analyze the functionality of Combinational and Sequential Circuits using LogiSIM.
4	Design and analyze the code converters using LogiSIM.
5	Design and analyze the counters using LogiSIM

CourseName: ANDROID APPLICATION DEVELOPMENT

S.NO	COURSEOUTCOMES
1	Understand the different types of mobile devices
2	Learn how to apply Android Operating System on mobile.
3	They can understand the systems mobile application distribution.
4	Implementation of mobile design principles.
	Implementation of prompt prototyping techniques to design and develop mobile interfaces

CourseName: ENVIRONMENTAL SCIENCE

S.NO	COUSREOUTCOMES
1	Solve environmental problems through higher level of personal involvement and interest.
2	Apply ecological moralsto keep up amicable connection among nature and human beings.



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3	Recognizetheinterconnectedness ofhumandependenceonthe earth'secosystems.
4	Applyenvironmentallawsforthe protectionofenvironmentandwildlife.
5	Influencesocietyinproperutilizationofgoodsandservices.

CourseName:PROBABILITYANDSTATISTICS

S.NO	COURSEOUTCOMES
1	Adoptcorrelationmethodsandprincipleofleast squares, regressionanalysis
2	Applydiscreteandcontinuousprobabilitydistributions.
3	Classifytheconceptsofdatascienceanditsimportance.
4	Interprettheassociationofcharacteristicsand throughcorrelation and regression tools.
5	Designthecomponentsof aclassicalhypothesistest.

CourseName:WEBTECHNOLOGIES

S.NO	COURSEOUTCOMES
1	ConstructabasicwebsiteusingHTMLandCascadingStyleSheets.
2	BuilddynamicwebpageusingJavaScriptobjectsandeventhandling mechanisms.
3	DevelopserversideprogramsusingServletsandJavaServer Page.
4	ConstructwebpagesinPHPtorepresentdatainXMLformat.
5	UseAJAXandwebservices todevelopinteractiveweb applications

CourseName: DESIGNANDANALYSISOFALGORITHMS

S.NO	COURSEOUTCOMES
1	Analyzetheefficiencyofalgorithmforagivenproblem.
2	Formulatethetimeorderanalysisforgivenalgorithm.



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3	Identify the mathematical techniques required to prove the time complexity of an algorithm.
4	Design appropriate algorithm to solve real world problems.
5	Develop an application with the designed algorithms.

Course Name: OPERATING SYSTEMS

S.NO	COURSE OUTCOMES
1	Apply the basic principles of Operating Systems in system programming
2	Apply the process synchronization concepts in multiprogramming environment
3	Solve the memory management problems with paging and segmentation techniques



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4	Design algorithmic strategies to handle deadlock problems
5	Implement the concepts of secured file system for confidentiality and authentication.

CourseName: SOFTWARE ENGINEERING

S.NO	COURSE OUTCOMES
1	Understand the various phases of software development lifecycle and software Requirements.
2	Possess necessary skills to elicit the requirements of a software system and to create well written software documentation involving appropriate system models.
3	Design, implement and evaluate a computer based system, process, component or program to meet desired needs within realistic constraints specific to the field
4	Construct software projects by integrating components with appropriate user interface
5	Apply various testing strategies to verify, validate and to release error free software

CourseName: WEB TECHNOLOGY LABORATORY

S.NO	COURSE OUTCOMES
1	Construct Web pages using HTML/XML and stylesheets
2	Build dynamic web pages with validation using JavaScript objects and by applying different event handling mechanisms.
3	Develop dynamic web pages using server side scripting.
4	Use PHP programming to develop web applications.
5	Construct web applications using AJAX and web services.

CourseName: DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY

S.NO	COURSE OUTCOMES
1	Apply basic programming techniques in solving given problem.
2	Design an algorithm for a given application program.



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3	Utilizewrapperclassesasperthedemandofproblem.
4	Apply theappropriatealgorithmictechniqueforefficientproblemsolving.
5	Executecollectionclassesfordynamicprogramming.

CourseName:OPERATINGSYSTEMSLABORATORY

S.NO	COURSEOUTCOMES
1	ApplyappropriateCPUschedulingalgorithmforthegivenproblem.
2	PerformresourcemanagementforoptimalutilityofCPU.
3	Implementalgorithmshandlingdeadlockproblems
4	Implementtheconceptsofsecuredfilesystemforconfidentialityand authentication.
5	Applythreading conceptstohandleconcurrency.

CourseName:WEBDESIGNING

S.NO	COURSEOUTCOMES
1	Applytheprinciplesofcreatinganeffectivewebpage.
2	Applytheelementsofdesignwithregardtotheweb.
3	Createthelanguageoftheweb:HTMLandCSS.
4	Developskillsinanalyzingtheusabilityofawebsite.
5	Understandhowtoplanandconductuserrelatedtowed usability.

CourseName: COMPUTER NETWORKS

S.NO	COURSEOUTCOMES
1	Applythenetworkingconceptsinconfiguringthe systems
2	Illustrateserrorhandlingmechanismindatalinklayer
3	Analyzetheroutingalgorithmsinfindingtheshortest path
4	Applytransportprotocolsinnetworkcommunications
5	Implementsdomainnameserviceandnetworksecurityin thecommunicationsegment.



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CourseName:MOBILEAPPLICATIONDEVELOPMENT

S.NO	COURSEOUTCOMES
1	AbletorecognizetheimportanceofknowledgeonAndroidprogrammingbasics
2	Abletoconstructthevariousaspectsofuser interfaces.
3	Abletoapplyknowledgeondisplayingpictures,menusand data services.
4	Abletodevelopapplicationoncontentproviderandmessagingservices.



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5	Able to substitute on the fundamentals of location based services, and creating your own services.
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CourseName: ARTIFICIALINTELLIGENCE

S.NO	COURSEOUTCOMES
1	Understand the fundamental concepts of Artificial Intelligence.
2	Solve problems by applying a suitable search method.
3	Solve problems by applying the heuristic search method.
4	Understand constraint satisfaction problems.
5	Understand the Knowledge Representation techniques.

CourseName: MOBILE APPLICATION DEVELOPMENT LAB

S.NO	COURSEOUTCOMES
1	Able to acquire practical knowledge on Android programming.
2	Able to understand the implementation aspects of user interfaces.
3	Able to understand the implementation of image view and persistent data services.
4	Able to acquire practical knowledge on messaging services.
5	Able to understand the practical exposure on implementation of location based services.



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CourseName:ARTIFICIALINTELLIGENCELABORATORY

S.NO	COURSEOUTCOMES
1	Executestatisticalproblemstoproduceappropriatesolutions
2	Categorizetheproblemforselectionofanappropriatealgorithm
3	ComparecomputationalcomplexityofAIproblemsforbetter efficiency
4	DemonstratevariousAlgorithmsbasedonempiricalandtheoreticalproofs for performance statistics
5	Design and develop an Expert System that operates in a realisticproblemdomainandcommunicateeffectivelyina teamorindividualandpreparereports

CourseName: RPROGRAMMING

S.NO	COURSEOUTCOMES
1	UnderstandandapplythebasicsinRprogrammingintermsofconstructs,control statements,string functions
2	Applythefunctionsonmatrixrowsandcolumnsandlistoperators
3	WorkonDataframesandtabular typeofDATA
4	UnderstandandwritereliablecodeusingOOPconcepts inR
5	UnderstandandapplyRInterfacesforOther languages

CourseName: GENDERSENSITIZATION

S.NO	COURSEOUTCOMES
1	Developabetterunderstandingofimportantissuesrelatedtogenderin contemporaryIndia.
2	Sensitizetobasicdimensionsofthebiological,sociological, psychologicalandlegalaspectsofgender.
3	Acquireinsightintothegendereddivisionoflabourandits relation to politics and economics.
4	Equiptoworkandlivetotogetheras equals
5	Developasenseofappreciationofwomeninallwalksoflife



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CourseName: DATAMINING

S.NO	COURSEOUTCOMES
1	Applytheprinciplesofbusinessintelligenceinthecommercialsegment
2	Makeuseofpre-processingtechniquesfordataorganization
3	Implementassociation,clusteringandrulbasedminingfor Market based analysis
4	Analyzethedataminingclassificationtechniquefordatadifferentiation
5	Designtheunsupervisedclusteringalgorithmsfor data analysis

CourseName:IMAGEPROCESSING

S.NO	COURSEOUTCOMES
1	Interpretfundamentalconceptsofdigitalandcolourimageprocessing.
2	Exemplifyimageenhancement.
3	Analyze the various terminologies involved in image segmentationlikeedge,boundarydetectionetc.Assessimage compressiontechniquesfordigitalimages.
4	Summarizesegmentationtechniquesfordigitalimages.
5	Designalgorithmsstosolveimageprocessingproblemsand meetdesignspecifications.

CourseName:SOFTWARETESTING

S.NO	COURSEOUTCOMES
1	Listarangeofdifferentsoftwaretestingtechniquesandstrategiesandbeableto apply specific (automated) unit testing method to the projects.
2	Distinguishcharacteristicsofstructuraltestingmethods.
3	Demonstrate the integration testingwhich aimsto uncover interaction andcompatibilityproblems as early as possible.
4	Discussaboutthefunctionalandssystemtestingmethods
5	Demonstratevariousissuesforobjectorientedtesting.



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CourseName:**DevOps**

S.No	CourseOutcome
1	AnalyseDevOpsmethodologiesincollaborationwiththeDevelopmentand Operations team
2	Applyconfigurationmanagementstrategiesforbetterintegrationsand deployment
3	MakeuseofvariousDevOpstoolstoeaseofcollaborationanddevelopment
4	Determinethespeedofproductivityfortimedelivery
5	Applicationdeploymentandconfigurationforuninterruptedusage

CourseName:**MachineLearning**

S.No	CourseOutcome
1	Distinguishbetween,supervised,unsupervisedandsemi-supervisedlearning
2	Applytheoptmachinelearningstrategyforanygivenproblem
3	Suggestsupervised,unsupervisedorsemi-supervisedlearningalgorithmsforany given problem
4	Designasystemthatusesetheappropriategraph modelsofmachinelearning
5	Modifyexistingmachinelearningalgorithmstoimproveclassificationefficiency

CourseName:**BigDataTechnologies**

S.No	CourseOutcome
1	analysedistributedprogramsforformationoflarge-scaleclusters
2	ApplyenablingtechniquesofHadoopandMapReducefordistributedprocessing
3	AssemblethecomponentsofHadoopanditsEco-Systemforefficientdata storage and processing
4	DevelopMap-ReduceprogramsinJavaforperforminglargescaledataanalysis
5	ApplyK-meansclusteringandMahoutTechniquesforefficientdataanalysis

CourseName:**ParallelAlgorithms**

S.No	CourseOutcome
1	Designparallelrandomaccessmachinesalgorithmsforstandardproblemsand applications
2	Analyzeefficiencyofdifferentparallelalgorithms
3	Choosethemappingonmulticomputersforefficientdataprocessing.(Assess multiprocessors and multicomputer for efficient data processing).
4	Designthematixalgorithmstoreducecomplexity).
5	Applythegraphalgorithmstosolvecomplexnumericproblems



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CourseName: **AdhocandSensorNetworks**

S.No	CourseOutcome
1	Applycomputerdesignandinstructionsetprinciplesaspersystemrequirements
2	analysesystemrequirementstoremovedundancy
3	Proposesub-nettingandroutingstrategiesinaddressingarchitecturalissues
4	Applynetworkmanagementmechanismsfordatasecurityandprivacy
5	Develophybridmechanismsforeffectiveinterconnection

CourseName: **DesignPatterns**

S.No	CourseOutcome
1	Applythemodel-view-controllerarchitectureforagivenapplication
2	Proposethemostsuitabledesignpatertosolveadesignproblem
3	Inspectexistingcodetoperformssoftwarefactoring
4	Applythebasicdesignprinciplesforqualitysoftware
5	Constructdesignsolutionsbyusingbehaviouralpatterns.

CourseName: **CloudComputing**

S.No	CourseOutcome
1	analyseclouddeliverymodelsforbetterarchitecture.
2	Implementinfrastructureasaservicemodelforindustrialapplications.
3	Organizethecloudplatformmodelforoptimizationservices.
4	Developvariousapplicationsoftwarewithsoftwareasservice.
5	Designcloudcomputingreferencearchitecturefordeliverymodels.

CourseName: **CloudComputingLaboratory**

S.No	CourseOutcome
1	Developanddeployapplicationsforbettercloudutility
2	Designwebservicesformoderncommercialapplications
3	analysetheperformance,scalability,andavailabilityoftheunderlyingcloudtechnologies for business requirements
4	Implementsoftwareinstallationforutilityofitsapplications
5	Comparevariouscloudcomputingplatformsforbettercloudservices

CourseName: **DevOpsLaboratory**

S.No	CourseOutcome
1	UnderstandthebackgroundanddrivingforcesfortakinganAgileApproachtoSoftware Development
2	Makeuseofdifferentopen-sourceagiletools
3	ApplyDesignprincipleandRefactoringtoachieveagility
4	ImplementTestDrivenDevelopmentusingXUnit



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5	Testwebappsusing selenium
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CourseName: **Indian Constitution and multiculturalism**

S.No	CourseOutcome
1	Understand historical background of the constitution making and its importance for building a democratic India
2	Explain the role of President and Prime Minister.
3	Understand the functioning of three wings of the government i.e., executive, legislative and judiciary.
4	Understand the value of the fundamental rights and duties for becoming good citizen of India
5	analyse the decentralization of power between central, state and local self-government.

CourseName: **Basic Data Structures**

S.No	CourseOutcome
1	Analyse the time and space complexities of algorithms
2	Apply various operations on linear data structures
3	Design searching and sorting techniques for a given application
4	Develop non-linear programming for optimization techniques
5	Develop programs for efficient data organisation with reduced time complexity.

CourseName: **Fundamentals of DBMS**

S.No	CourseOutcome
1	Apply suitable data models for a given application
2	Design database using integrity constraints and ACID properties
3	Construct optimized SQL queries to solve real-time problems
4	Apply suitable normal form to eliminate data redundancy
5	Choose appropriate index structure to improve performance

CourseName: **Basics of software engineering**

S.No	CourseOutcome
1	Apply the phases of software development lifecycle in application development
2	Identify software requirements for construction
3	Design requirement engineering process for change management
4	Apply the design concepts for design models
5	Construct the various testing techniques for software systems

CourseName: **Python for Everyone**

S.No	CourseOutcome
1	Apply the basic constructs of Python to solve problems
2	Organize lists, tuples and dictionaries appropriately to solve complex problems



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3	Buildfunctionstoincreasecodereusability
4	Implement modularprogrammingfororganizedsoftwaredevelopment
5	Makeuseofexceptionhandlingforrobustprogramming



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CourseName:**ComputerOrganizationandOperatingSystems**

S.No	CourseOutcome
1	analysethefundamentalsofcomputerorganizationindesigningasystem
2	Applytheconceptsofprogramminglanguagetosolvesystemproblems
3	MakeuseoftheOperatingSystemsdesignstructureanditservicesforsystem programming
4	DevelopProcessSchedulingalgorithmsandInter-ProcessCommunicationsystemsfor resource management
5	Classify memory management techniques and virtual memory mechanisms for apt implementations

CourseName:**FundamentalsofArtificialIntelligenceandMachineLearning**

S.No	CourseOutcome
1	analysedifferentfieldsinwhichAIsapplied
2	Applysuitablesearchstrategiesinfindingbettersolutionforagivenproblem
3	Identifylinearregressionwithsingleandmultiplevariables
4	Performpredictiveanalysisusingdecisiontreesandrandomforestclassifier
5	ImplementdeeplearningneuralnetworkmodelswithTensorFlow

CourseName:**FundamentalsofWebTechnologies**

S.No	CourseOutcome
1	ConstructabasicwebsiteusingHTMLandCascadingStyleSheets.
2	BuilddynamicwebpageusingJavaScriptobjectsandeventhandlingmechanisms.
3	DevelopserversideprogramsusingServletsandJavaServerPage.
4	ConstructwebpagesinPHPtorepresentdatainXMLformat.
5	UseAJAXandwebservicestodevelopinteractivewebapplications

CourseName:**FundamentalsofJavaProgramming**

S.No	CourseOutcome
1	Applyobjectorientedconceptsfor-solvinggeneralpurposeproblems
2	Useinheritance,userdefinedpackagesandinterfacesforcodereusability
3	Applyexceptionhandlingandmultithreadingforrobustandefficientapplication development
4	Implementcollectionframeworkstostoreandretrieve dataefficiently
5	BuildGUIapplicationsusingswingforuserinterfacedesign



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CourseName:**InformationSecurity**

S.No	CourseOutcome
1	IntroductiontoInformationSecurity,ConventionalCryptographicTechniques.
2	Understandbasiccryptographicalgorithms,
3	UnderstandAuthenticationtechniquesandDigitalSignatures.
4	DemonstratehowtosecureaProgram
5	UnderstandthenetworkSecurityIssues.

CourseName:**LinuxEnvironmentSystems**

S.No	CourseOutcome
1	To teach principles of operating system including File handling utilities, Security by file permissions, Process utilities, Disk utilities, Networking Commands, Basic Linux commands, Scripts and filters.
2	To familiarize fundamentals of the Bourne again shell (bash), shell programming, pipes, input and output redirection Control structures, arithmetic in shell interrupt processing, functions, debugging shell scripts
3	To impart fundamental of file concepts kernel support for file, File structure related system calls (file API's).
4	To facilitate students in understanding Interprocess communication
5	To facilitate students in understanding semaphore and shared memory

CourseName:**NaturalLanguageProcessing**

S.No	CourseOutcome
1	To understand the theoretical foundations, algorithms and methodologies of Neural Network
2	To design and develop an application using specific deep learning models
3	To provide the practical knowledge in handling and analysing real world applications
4	To enhance the Encoder and Decoder sequence to sequence
5	To design the Automatic Image captioning in Deep learning

CourseName:**DataVisualizationTechniques**

S.No	CourseOutcome
1	Make use of Tableau for effective communication of data
2	Create advanced visualizations, formatting and calculations using
3	analyse changes in data visualization over time.
4	Create different types of dashboards.
5	analyse and recommend effective business decisions/solutions using a systematic, evaluative, and information-based approach.



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CourseName:**ObjectOrientedAnalysisanddesign**

S.No	CourseOutcome
1	Learnthefundamentalprinciplesofobject-orientedmodelling
2	Understandclassandobjectdiagramsforsoftwaresystems
3	Identifythesystembehaviourusingusecaseandinteractiondiagrams
4	Modellingstatesandstategraphsusingadvancedbehaviouralmodel
5	Analysingandimplementingsystemarchitecturebyusingarchitecturalconcepts

CourseName:**WirelessSensorNetwork**

S.No	CourseOutcome
1	UnderstandtheConceptsofWirelessSensorNetworks
2	ApplyknowledgeofArchitecturetoWirelessSensorNetworks
3	UnderstandtheKnowledgeofSensorDevices.
4	ExaminetheapplicationsofWirelessSensorNetworks
5	Establishinginfrastuctureandsimulations

CourseName:**ParallelAlgorithms**

S.No	CourseOutcome
1	Designparallelrandomaccessmachinesalgorithmsforstandardproblemsand applications
2	analyseefficiencyofdifferentparallelalgorithms
3	Choosethemappingonmulticomputersforefficientdataprocessing.(Assess multiprocessors and multicomputer for efficient data processing).
4	Designthematixalgorithmstoreducecomplexity.
5	Applythegraphalgorithmsstosolvecomplexnumericproblems

CourseName:**Computergraphics**

S.No	CourseOutcome
1	Implementthecoreconceptsofcomputergraphics,includingviewing,projection, perspective, modelling and transformation in two and three dimensions.
2	Applytheconceptsofcolourmodels,lightingandshadingmodels,textures,raytracing, hiddensurfaceelimination,anti-aliasing,andrendering.
3	Interpretthematheoreticalfoundationoftheconceptsofcomputergraphics.
4	Describethefundamentalsofanimation,parametriccurvesandsurfaces,and spotlighting.
5	Identifyatypicalgraphicspipelineandapplygraphicsprogrammingtechniquetodesign andcreatecomputergraphics



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CourseName:**BlockChainTechnology**

S.No	CourseOutcome
1	UnderstandandexploretheprocessofBlockchaintechnologyinpaymentandfunding processing.
2	AnalyzetheworkingofSmartContracts
3	Performbasicoperationsinhyperledgesandblockchainnetworks.
4	Describeanddeploythesmartcontracts.
5	IdentifytherisksinvolvedinbuildingBlockchainapplications.

CourseName:**SoftwareDefinedNetworks**

S.No	CourseOutcome
1	ExplainthekeybenefitsofSDNbytheseparationofdataandcontrolplanes
2	InterprettheSDNdataplanedevicesandOpenflowProtocols.
3	ImplementtheoperationofSDNcontrolplanewithdifferentcontrollers.
4	Applytechniqueshatenableapplicationstocontroltheunderlyingnet,workusingSDN
5	DescribeNetworkFunctionsVirtualizationcomponentsandtheirrolesinSDN

CourseName:**DeepLearning**

S.No	CourseOutcome
1	To understandthetheoreticalfoundations,algorithmsandmethodologiesof Neural Network
2	To designanddevelopanapplicationusingspecificdeeplearningmodels
3	To providethepracticalknowledgeinhandlingandanalysingrealworld applications.
4	To enhancetheEncoderandDecodersequencetosequence
5	To designtheAutomaticImagecaptioninginDeeplearning

CourseName:**DistributedComputing**

S.No	CourseOutcome
1	To exposestudentstoboththeabstractionanddetailsoffilesystems
2	To introduceconceptsrelatedtodistributedcomputingsystems.
3	To focusonperformanceandflexibilityissuesrelatedtosystemsdesigndecisions.
4	To understandwhyandnotjustthememorizethedetails
5	To exposestudentstocurrentliteratureindistributedsystems.

CourseName:**AZURETechnologies**

S.No	CourseOutcome
1	ApplyappropriatetoolsforDataCollectionandManipulation
2	UnderstandandapplyappropriateDataCleaningtechniquesforDataPreparation
3	ApplystatisticalmeasuresstoanalysethenatureofData.
4	ImplementDataVisualizationMethodsforgettinginsightsofData.
5	analyseDatabyimplementingConceptsofDataPreparation.