GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY::NELLORE
Department of Computer Science and Engineering
COURSE OUTCOMES
Academic Year: 2023-24

Course Outcomes -IV CSE- I Semester ACY: 2023-24 Regulation :: R20		
Cloud Computing (20A05701a)		
No	**Course Outcome**	**Taxonomy**
C411.1	Know the Cloud concepts and Technologies.	Understand
C411.2	Design & develop backup strategies for cloud data based on features.	Apply
C411.3	Ability to design applications for Cloud environment.	Apply
C411.4	Apply Python language for accessing different cloud services	Apply
C411.5	Develop Cloud Security Architecture and Identity access management.	Apply
C411.6	Apply different cloud programming model as per need.	Apply
Cryptography and Network Security (20A05701b)		
No	**Course Outcome**	**Taxonomy**
C412.1	Identify information security goals, classical encryption techniques and acquire fundamental knowledge on the concepts of finite fields and number theory.	Understand
C412.2	Compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication.	Analyze
C412.3	Apply the knowledge of cryptographic checksums and evaluate the performance of different message digest algorithms for verifying the integrity of varying message sizes.	Apply
C412.4	Apply different digital signature algorithms to achieve authentication and create secure applications.	Apply
C412.5	Apply network security basics, analyse different attacks on networks and evaluate the performance of firewalls and security protocols like TLS, IPSec, and PGP.	Apply
C412.6	Apply the knowledge of cryptographic utilities and authentication mechanisms to design secure applications.	Apply
Deep Learning (20A05703c)		
No	**Course Outcome**	**Taxonomy**
C413.1	Demonstrate the mathematical foundation of neural network.	Apply
C413.2	Describe the Machine Learning basics.	Understand
C413.3	Use the regularization concepts for Deep Learning.	Apply
C413.4	Understand the optimization methods for training deep models.	Understand
C413.5	Show a development of Convolutional Neural Network.	Apply
C413.6	Use sequence model to specify neural networks.	Apply

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Management Science (20A05504c)

No	Course Outcome	Taxonomy
C414.1	Discuss the basic concepts of management in modern contexts.	Understand
C414.2	Analyze the organization chart & structure for an enterprise.	Analyse
C414.3	Demonstrate production and marketing aspects.	Apply
C414.4	Apply Managerial and operative functions of HRM.	Apply
C414.5	Formulate strategies for successful completion of the project.	Create
C414.6	Understand modern management techniques.	Understand

Principle of Communication System (20A04506)

No	Course Outcome	Taxonomy
C415.1	Understand the concept of Amplitude modulation scheme and multiplexing.	Understand
C415.2	Understand the concept of Angle modulation scheme and FM Broadcasting.	Understand
C415.3	Understand the concept of Pulse modulation scheme and Sampling Theorem.	Understand
C415.4	Understand the concept of Digital modulation schemes.	Understand
C415.5	Apply the concept of various modulation schemes to solve engineering problems.	Apply
C415.6	Analyze various modulation schemes, and evaluate various modulation scheme in real time applications.	Analyse

Renewable Energy Systems (20A02705)

No	Course Outcome	Taxonomy
C416.1	Understand the energy scenario and the consequent growth of the power generation from renewable energy sources.	Understand
C416.2	Estimate the solar energy, Utilization of solar energy, Principles involved in solar energy collection and conversion of it to electricity generation.	Understand
C416.3	Understand the concept of Wind and Biomass energy resources and their classification, types Plants- applications.	Understand
C416.4	Acquire the knowledge on Geothermal energy and it's harnessing methods.	Analyse
C416.5	Illustrate ocean energy and explain the operational methods of their utilization.	Analyse
C416.6	Describe the concept of direct energy conversion and their types and working principle.	Remember

Mobile Application Development (20A02706)

No	Course Outcome	Taxonomy
C417.1	Define development environment to produce mobile applications.	Remember
C417.2	Operate mobile applications on handheld devices.	Apply
C417.3	Develop various widgets in mobile applications.	Apply
C417.4	Design mobile applications with various layouts.	Apply
C417.5	Build mobile application along with Media.	Apply
C417.6	Design and develop menus in mobile applications.	Apply

Evaluation of Industry Internship(20A05707)

No	Course Outcome	Taxonomy
C418.1	Describe tools and technologies encountered during industrial training	Remember

C418.2	Understanding the process of using tools and techniques for solving real time problems	Understand
C418.3	Participate in the real time projects in industrial training.	Apply
C418.4	Applying engineering knowledge and technical skills in real time Project	Apply
C418.5	Develop Communication, Interpersonal and Technical skills needed for placement	Apply
C418.6	Build professional work reports and presentations.	Apply

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Course Outcomes IV CSE II Semester ACY: 2023-24 Regulation :: R20		
Project Work (19A05803)		
No	**Course Outcome**	**Taxonomy**
C411.1	Identify the problem of Social/Industrial relevance to be solved	Understand
C411.2	Summarize the existing technology, its merits and demerits used to solve the problem	Analyse
C411.3	Design the appropriate solution using the sophisticated hardware and/or software	Create
C411.4	Compare the results of the proposed solution with the existing solution	Evaluate
C411.5	Demonstrate the project along with the complete documentation report of the project	Evaluate
C411.6	Show the interpersonal, professional and work with team skills	Apply

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III-CSE 2023-24 I Semester Regulation ::R20		
Computer Networks(20A05501T)		
No	**Course Outcome**	**Taxonomy**
C311.1	Illustrate Hardware, Software Components, Parameters of a Network, which are used to find efficiency of network.	Analyse
C311.2	Explain Design Issues and Services of Data Link Layer	Understand
C311.3	Apply various Error Detection and Correction Techniques used for data transmission in real time Applications.	Apply
C311.4	Classify routing protocols and analyse how to assign IP addresses for given Network	Analyse
C311.5	Describe Transport Layer Design Issues and Protocols of Transport Layer.	Understand
C311.6	Describe Application Layer Design Issues and Protocols of Application Layer.	Understand
Artificial Intelligence(20A05502T)		
No	**Course Outcome**	**Taxonomy**
C312.1	Design Intelligent Agents.	Create
C312.2	Apply searching techniques for solving a problem.	Apply
C312.3	Develop Natural Language Interface for Machines.	Create
C312.4	Implementing programs that translate from one language to another language.	Apply
C312.5	Explain the techniques that provide robust object recognition in restricted context.	Understand
C312.6	Design mini robots.	Create
Formal Languages and Automata Theory (20A05503)		
No	**Course Outcome**	**Taxonomy**
C313.1	Enumerate the basic properties of deterministic and nondeterministic finite automata and also compare Moore and Mealy Machines.	Remember
C313.2	Interpret the basic concepts of Regular expressions, regular languages and pumping lemma for Regular Languages.	Understand
C313.3	Demonstrate context free grammar for various languages, normal forms and pumping lemma for CFL's	Apply
C313.4	Interpret and design different types of PDA and also explain the relationship among language classes and grammars with the help of Chomsky Hierarchy	Understand
C313.5	Solve the computational model using Turing Machine and variations of Turing machine.	Apply
C313.6	Examine the concepts of decidable and undecidable problems	Apply
Big Data Technologies (20A05504c)		
No	**Course Outcome**	**Taxonomy**
C314.1	Understand the elements of Big Data	Understand
C314.2	Use different technologies to tame Big Data	Apply
C314.3	Using Map Reduce and HBase to process given data	Apply
C314.4	Implementing Map Reduce Program and Customizing Map Reduce Execution	Apply
C314.5	Testing and Debugging Map Reduce Application	Analyze
C314.6	Develop applications using Hive and NoSQL	Apply
3D Printing Technology(20A03505)		

No	Course Outcome	Taxonomy
C315.1	Introduction of 3D- printing and various techniques for processing of CAD models for rapid prototyping .	Understand
C315.2	Understand and apply fundamentals of rapid prototyping techniques.	Understand
C315.3	Use appropriate tooling for rapid prototyping process.	Apply
C315.4	Use rapid prototyping techniques for reverse engineering.	Apply
C315.5	Identify various pre-processing, processing and post processing errors in RP processes.	Understand
C315.6	Applications of rapid prototype in different sections.	Apply

Computer Networks Lab (20A05501P)

No	Course Outcome	Taxonomy
C316.1	Explain the different types of networks.	Understand
C316.2	Describe the software and hardware components of a network	Understand
C316.3	Explain the working of networking commands supported by operating system	Understand
C316.4	Design the Network simulator 2/3	Create
C316.5	Develop the use of networking functionality supported by JAVA	Apply
C316.6	Apply with computer networking tools.	Apply

Artificial Intelligence Lab (20A04304P)

No	Course Outcome	Taxonomy
C317.1	Implement searching algorithms for solving a given problem.	Create
C317.2	Build Intelligent Agents and Chatbots.	Apply
C317.3	Develop Natural Language Interface for Machines.	Create
C317.4	Implementing programs that translates from one language to another language.	Apply
C317.5	Design Chatbot and virtual assistant	Create
C317.6	Design mini robots.	Create

Advanced Web Application Development (20A05506)

No	Course Outcome	Taxonomy
C318.1	Install XAMPP/WAMP and Develop a Student Database	Apply
C318.2	Develop dynamic websites using PHP and MySQL	Apply
C318.3	Handle Authentication using Sessions, JWT.	Apply
C318.4	Secure Web applications from common attacks like Injection, XSS.	Apply
C318.5	Integrate Libraries to dynamically generate documents, spreadsheets, PDFs, etc.	Apply
C318.6	Host Websites in traditional web hosting platforms and also Cloud based infrastructure	Apply

Evaluation of Community Service Project(20A05507)

No	Course Outcome	Taxonomy
C319.1	To enhance comprehension of the challenges faced by vulnerable and marginalized segments of society	Understand
C319.2	To initiate team processes with the student groups for societal change.	Analyse
C319.3	To provide students an opportunity to familiarize themselves with urban /rural community they live in.	Create
C319.4	To enable students to engage in the development of the community.	Evaluate
C319.5	To plan activities based on the focused groups.	Evaluate
C319.6	To know the ways of transforming the society through systematic programme implementation	Apply

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(III-CSE) 2023-24 II SEMESTER		Regulations::R20
COMPILER DESIGN (20A05601T)		
No	**Course Outcome**	**Taxonomy**
C321.1	Discuss the major phases of compilers and use the knowledge of the Lex tool.	Understand
C321.2	Develop the parsers and experiment with the knowledge of different parsers design.	Apply
C321.3	Describe intermediate code representations using syntax trees and DAG's as well as use this knowledge to generate intermediate code.	Understand
C321.4	Classify various storage allocation strategies.	Analyze
C321.5	Examine the design issues of code generator and generate machine code from the source code of a language.	Analyze
C321.6	Summarize various optimization techniques and Implement these in dataflow analysis.	Evaluate
MACHINE LEARNING (20A05602T)		
No	**Course Outcome**	**Taxonomy**
C322.1	Understand machine learning techniques to solve the given problem.	Understand
C322.2	Understand various aspects of model selection and feature engineering.	Understand
C322.3	Solve the classification problems using various machine learning techniques.	Apply
C322.4	Analyse the performance of different regression techniques on various types of data sets.	Analyze
C322.5	Analyse the performance of various clustering techniques to deal with unlabelled data.	Analyze
C322.6	Apply the principle of Apriori algorithm on real-time data sets to find frequent patterns.	Apply
INTERNET OF THINGS(20A05603T)		
No	**Course Outcome**	**Taxonomy**
C323.1	Interpret the design principles that govern connected devices	Understand
C323.2	Develop simple applications using Raspberry Pi and Arduino.	Apply
C323.3	Analyse various types of M2M communication protocols and IOT architectures.	Analyse
C323.4	Illustrate and develop a solution for a given application using APIs	Understand
C323.5	Distinguish various types of manufacturing techniques and storage models in IOT.	Analyse
C323.6	Demonstrate various IOT solutions using sensors, actuators and devices.	Understand

SOFTWARE TESTING (20A05604A)

No	Course Outcome	Taxonomy
C324.1	Understand the basic concepts of software testing and its essentials.	Understand
C324.2	Identify Transaction Flows, Transaction Flow Testing Technique and Strategies in Dataflow Testing.	Apply
C324.3	Develop test techniques for domain and interface testing.	Apply
C324.4	Develop paths, regular expressions and logic-based testing.	Apply
C324.5	Analyze the state, implement state graph and state testing,	Analyze
C324.6	Develop graph matrices and Node Reduction Algorithm, Building Tools .	Apply

BASIC VLSI DESIGN (20A04606)

No	Course Outcome	Taxonomy
C325.1	Explain the MOS fabrication flow and Design layers used in the process sequence	Understand
C325.2	Explain the Basic Electrical Properties of MOS and Bi-CMOS Circuits	Understand
C325.3	Estimate the sheet resistance, square capacitance, propagation delays inverter delays in MOS circuits	Understand
C325.4	Apply the design Rules to draw the Stick diagrams and layout of a given MOS circuits	Apply
C325.5	Analyze the behaviour of static and dynamic logic circuits	Analyze
C325.6	Select the various CAD tools for Design and Simulation in to the Practical aspects and testability.	Analyze

COMPILER DESIGN (20A05601P)

No	Course Outcome	Taxonomy
C326.1	Design and implement fundamental concepts of finite Automata	Apply
C326.2	Design and implement a lexical analyzer for given language	Apply
C326.3	Use LEX and YACC tools for developing a scanner and a parser	Apply
C326.4	Design and implement LL and LR parsers	Apply
C326.5	Design algorithms to perform code optimization in order to improve the performance of program	Apply
C326.6	Design and implement code generation for given expression.	Apply

MACHINE LEARNING (20A05602P)

No	Course Outcome	Taxonomy
C327.1	Understand the Mathematical and statistical prospectives of machine learning	Understand

	algorithms through python programming.	
C327.2	Apply the basics of learning problems with hypothesis and version spaces	Apply
C327.3	Apply appropriate datasets to the classification techniques	Apply
C327.4	Apply clustering techniques to deal with unlabelled data for correct predictions	Apply
C327.5	Use visualization tool to deal with regression-based algorithms.	Apply
C327.6	Experiment End – to – End machine learning systems.	Apply

INTERNET OF THINGS   (20A05603P)

No	Course Outcome	Taxonomy
C328.1	Choose the Sensors and Actuators for an IOT application	Remember
C328.2	Develop simple applications using raspberry pi and Arduino.	Apply
C328.3	Select protocols for a specific IOT application	Remember
C328.4	Experiment with embedded boars for creating IOT prototyping	Apply
C328.5	Utilize the Cloud platform and APIs for an IOT application	Apply
C328.6	Build a solution for a given IOT application	Apply

SOFT SKILLS (20A52401)

No	Course Outcome	Taxonomy
C329.1	Memorize various elements of effective communicative skills	Understand
C329.2	Interpret people at the emotional level through emotional intelligence	Understand
C329.3	Apply critical thinking skills in problem solving	Apply
C329.4	Analyze the needs of an organization for team building	Analyze
C329.5	Judge the situation and take necessary decisions as a leader	Analyze
C329.6	Develop social and work- life skills as well as personal and emotional wee-being	Analyze

INTELLECTUAL PROPERTY RIGHTS AND LAW (20A99601)

No	Course Outcome	Taxonomy
C3210.1	Use intellectual property rights for product development	Apply
C3210.2	Illustrate Rights Afforded by Copyright Law	Apply
C3210.3	Illustrate the Patent Infringement and Litigation	Apply
C3210.4	Apply Trade Mark registration process and maintenance	Apply
C3210.5	Demonstrate the trade secret law implantation for developing a product.	Apply
C3210.6	Use the concepts of Cyber Law implantation for developing a product	Apply

II-CSE- 2023-24 I Sem	Regulations :RG22

Probability& Statistics(22A0016T)

No	Course Outcome	Taxonomy
C211.1	Summarize the basic concepts of data science and its importance in engineering analyze the data quantitatively or categorically , measure of averages, variability, adopt correlation methods and principle of least squares, regression analysis .	Understand
C211.2	Define the terms trial, events, sample space, probability, and laws of probability, Make use of probabilities of events in finite sample spaces from experiments, apply Baye's theorem to real time problems and explain the notion of random variable, distribution functions and expected value	Understand
C211.3	Apply Binomial and Poisson distributions for real data to compute probabilities, theoretical frequencies, interpret the properties of normal distribution and its applications	Apply
C211.4	Explain the concept of estimation, interval estimation and confidence intervals, apply the concept of hypothesis testing for large samples	Understand
C211.5	Apply the concept of testing hypothesis for small samples to draw the inferences and estimate the goodness of fit	Understand

ComputerOrganization(22A0506T)

No	Course Outcome	Taxonomy
C212.1	Determine the basic concepts of Computer Organization.	Understand
C212.2	Interpret the Machine Instructions and basic Input / Output Operations	Understand
C212.3	Demonstrate Arithmetic Operations on signed and unsigned numbers, design of Control Unit	Apply
C212.4	Differentiate types of memories and distinguish I/O Devices.	Understand
C212.5	Illustrate the concepts of Pipelining	Understand
C212.6	Illustrate the concepts of Large Computer Systems	Understand

Object Oriented ProgrammingthroughJava(22A0507T)

No	Course Outcome	Taxonomy
C213.1	UnderstandtheObject-OrientedProgrammingPrinciplestodevelopjavaprograms.	Understand
C213.2	Apply code reusability through inheritance, packages and interfaces.	Apply
C213.3	Implementing theExceptionHandlingandmulti-threadingmechanismsinrealtimeapplications.	Apply
C213.4	Understand the I/O streams for better performance.	Understand
C213.5	Construct GUI based applications using applets, AWT and swings for internet and system-based applications.	Understand
C213.6	Compare AWT and Swing classes for GUI based applications.	Understand

Digital Electronics and Micro Processors(22A0410T)

No	Course Outcome	Taxonomy
C214.1	Differentiate various number sytems,binary codes.	**Understand**
C214.2	Solve the Boolean Expressions using Boolean algebra and k- maps	**Apply**
C214.3	Implement different combinational and sequential circuits	**Apply**
C214.4	Explain the internal architecture and organization of the 8086 microprocessor	**Understand**
C214.5	Demonstrate the assembly level language programming for 8086 and 8051	**Apply**
C214.6	Describe the architecture ,hardware details and memory organization of 8051 microcontroller	**Understand**

Software Engineering (22A0520T)

No	Course Outcome	Taxonomy
C215.1	Use software lifecycle activities for process models	**Apply**
C215.2	Use software requirements specifications for given problems	**Apply**
C215.3	Apply design concepts ,component leveland user interface design for given problems	**Apply**
C215.4	Apply various test cases for a given problems	**Apply**
C215.5	Apply quality management concepts at the application level	**Apply**
C215.6	Determine risk management plans and implementation	**Apply**

Universal Human Values(22A0021T)

No	Course Outcome	Taxonomy
C216.1	Understand the essentials of human values and skills, self exploration, happiness and prosperity.	**Understand**
C216.2	Understand the coexistence of the "I" with the body.	**Understand**
C216.3	Describe the role of harmony in family, society and universal order.	**Understand**
C216.4	Understand the holistic perception of harmony at all levels of existence.	**Understand**
C216.5	Express the appropriate technologies and management patterns to create harmony in professional and personal lives.	**Understand**
C216.6	Understand the concept of Universal Human Order, At the level of individual, At the level of society.	**Understand**

(II-CSE-A, B and C) 2023-24 II SEMESTER		
DISCRETE MATHEMATICAL STRUCTURES (22A0017T)		
No	**Course Outcome**	**Taxonomy**
C221.1	Interpret basic logic statements using truth tables and properties of logic and solve the PCNF and PDNF	Apply
C221.2	Describe the properties of sets,functions and groups	Apply
C221.3	Discuss the concepts of algebraicstructures	Understand
C221.4	Apply basic counting techniques to solve combinatorial problems.	Apply
C221.5	Solve Homogeneous recurrence relations by various methods.	Apply
C221.6	Classify the basic concepts of graphs &Apply the concepts of functions to solve the isomorphic graphs and spanning trees	Analyse
DATABASE MANAGEMENT SYSTEMS (22A0512T)		
No	**Course Outcome**	**Taxonomy**
C222.1	Understand the basic concepts of database systems and data models	Understand
C222.2	Choose the specific Data models for large enterprise database design	Apply
C222.3	Analyze the data efficiently through SQL instructions	Analyze
C222.4	Apply normalization to minimize redundancy	Apply
C222.5	Demonstrate the Basic Concepts of transaction management techniques.	Understand
C222.6	Apply concurrency control techniques for Database recovery.	Apply
OPERATING SYSTEMS (22A0513T)		
No	**Course Outcome**	**Taxonomy**
C223.1	Explain the role of Operating System, its functions and Types	Understand
C223.2	Illustrate the concepts of Process, multiprocessing, thread, and multithreading.	Analyse
C223.3	Compare the performance of various CPU scheduling algorithms and process synchronization.	Evaluate
C223.4	Outline different ways to handle the deadlocks and process synchronization and memory management techniques.	Analyse
C223.5	Describe the concepts of Mass Storage Structure and file systems.	Understand
C223.6	Describe the concepts of System Protection and System Security	Understand
Python Programming (22A0514T)		

No	Course Outcome	Taxonomy
C224.1	Explain the syntax and semantics of python programming constructs	Understand
C224.2	Make use of control statements, Input / Output functions and user-defined functions of Python	Apply
C224.3	Analyse various methods to create and manipulate data structures like lists, dictionaries, tuples, strings	Analyze
C224.4	Demonstrate the usages of file ,modules and packages in python	Apply
C224.5	Explain the usage of OOPs Concepts in python	Understand
C224.6	Analyze exceptions and errors in python	Analyze

Managerial Economics &Financial Analysis (22A0022T)		
No	Course Outcome	Taxonomy
C225.1	Explain the role and responsibilities of a managerial economist in modern business scenario	Understand
C225.2	Applythe demand of a product by using demand forecasting methods.	Apply
C225.3	Calculate the Break Even Point (BEP) with the help of production and cost analysis.	Apply
C22654	Explain their learnings about competitive markets and business economic environment.	Understand
C225.5	Apply the process of selection of investment alternatives using different appraisal methods.	Apply
C225.6	Examine the process of preparing financial statements to know financial position of the firm.	Analyse

Constitution of India (22A0030T)		
No	Course Outcome	Taxonomy
C226.1	Summarize the concept of Indian Constitution	Understand
C226.2	Describe the structure of Union	Understand
C226.3	Explain the structure of state government and its administration	Understand
C22654	Summarize the roles of Local Administration	Understand
C226.5	Describe the purpose of different departments in Local Administration	Understand
C226.6	Express the importance of election commission and functionalities of commissions of welfare	Understand

LINUX PROGRAMMING (SKILL) (22A0518)		
No	Course Outcome	Taxonomy
C227.1	Understand the Basic commands and utilities in Linux Environment.	Understand

C227.2	Understand the Linux utilities to create and manage simple file processing operations; organize directory structures with appropriate security.	Understand
C227.3	Analyze the Linux utilities and Linux environment.	Analyze
C227.4	Use shell script to automate different tasks as Linux.	Apply
C227.5	Illustrate file processing operations such as standard I/O and formatted I/O.	Apply
C227.6	Analyse various client server applications using TCP or UDP protocols.	Understand

Operating Systems Laboratory(22A0516P)		
No	**Course Outcome**	**Taxonomy**
228.1	Analyze and simulate CPU Scheduling Algorithms	Analyze
228.2	Solve process Synchronization problems using different algorithms.	Apply
228.3	Apply algorithms to avoid deadlock problems.	Apply
228.4	Implement memory management schemes and page replacement schemes.	Understand
228.5	Analyze and simulate Disk Scheduling Algorithms.	Analyze
228.6	Simulate file allocation and organization techniques.	Understand

Python Programming Lab(22A0517P)		
No	**Course Outcome**	**Taxonomy**
229.1	Describe Installation of python and numpy on windows & Linux environment.	Understand
229.2	Implement python programs on conditional and loop statements	Apply
229.3	Use sequence data types for problem solving (strings, list tupes and ranges)	Apply
229.4	Implement python programs on files and packages	Apply
229.5	Solve the array modules for real time applications in different ways	Analyze
229.6	Implement python programs on different modules	Apply

DATABASE MANAGEMENT SYSTEMS LAB(22A0515P)		
No	**Course Outcome**	**Taxonomy**
C2210.1	Choose appropriate DBMS software to perform various operations on the database	Remember
C210.2	Develop ER diagrams to solve real-time problems	Apply
C2210.3	Build database and extract information through query processing	Apply
C2210.4	Implement the integrity constraints and PL/SQL programs to build efficient	Apply

	databases.	
C2210.5	Compare solutions of database applications by using procedures and functions	Analyze
C2210.6	Distinguish solutions of database applications by using cursors and triggers	Analyze