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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES

FOR

R15 REGULATIONS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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KES NAGAR, P.B. NATHAM
KUPPAM-517 425

KUPPAM ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A52101

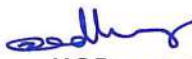Year & Sem: I & I   Subject Name: **Functional English**

Course Outcomes

CO1   Compose letters and writing paragraphs

CO2   Could analyze graphs and charts

CO3   Compose SMS and writing E-mails

CO4   Participate effectively in GD and debate

CO5   Comprehend and write report according to the requirement

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1											3	3		3
CO2											2	3	1	2
CO3											2	3		3
CO4											2	3		2
CO5											3	3		3
Average											2.4	3	1	2.6

Program Co-ordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Regulation: R 15

Year & Sem: I & I

Subject Code: 15A54101

Subject Name: Mathematics-I

Course Outcomes

CO1:   Apply standard methods for solving First Order Differential Equations.

CO2:   Identify Second Order Linear Differential Equations with variable coefficients.

CO3:   Apply partial Derivatives to study Maxima and Minima of function of two and three variables.

CO4:   Find the area and Volume of given region.

CO5:   Apply the concepts of line, surface and volume integrals.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3												
CO2	2													
CO3	2													
CO4	3	2												
CO5	3													
Average	2.6	2.5												

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05101**

Year & Sem: I & I   **Subject Name: Computer Programming**

Course Outcomes

1. Understand the concept of data types, operators and expressions in C
2. Compare and classify control statements and to understand arrays in C language
3. Acquire knowledge on usage of pointers and functions
4. Develop basic programs on structures and unions
5. Acquire knowledge on files and pre-processors

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2										3	
CO2	2	2	3										3	
CO3	3	3	2										2	
CO4	3	2	2										2	
CO5	3	2	3										2	
Average	2.8	2.2	2.4	0	0	0	0	0	0	0	0	0	2.4	

Program Co-ordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Subject Code: 15A56101

Year & Sem: I & I

Subject Name: **Engineering Physics**

Course Outcomes

CO1   Identify the nature of light.

CO2   Outline the different types of crystals and ultrasonic wave.

CO3   Explain the behavior of microscopic particles.

CO4   Classify the semiconductors and magnetic materials.

CO5   Describe the features of superconductors and nanomaterials.
results.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2												
CO2	3	1												
CO3	1	2												
CO4	3	2												
CO5	3	3												
Average	2.4	2.0												

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: I & I

Subject Code: 15A03101

Subject Name: Engineering Drawing

Course Outcomes

CO1:   Illustrate the concept of engineering drawing

CO2:   Illustrate the various scales & projection of points.

CO3:   Differentiate and contrast projection of lines and planes.

CO4:   Differentiate and contrast projection of solids & development of solids.

CO5:   Create the Isometric & Orthographic projection.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		2											
CO2	2		2											
CO3	2	3												
CO4		2												
CO5			3											
Average	1.4	1	1.4											

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A52102**

Year & Sem: I & I   **Subject Name:** English Language Communication Skills Lab
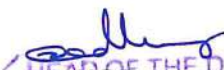
Course Outcomes

CO1:   Make use of pronunciation and correct accent

CO2:   Apply the stress pattern and voice modulation

CO3:   Improves participation in just a minute and roleplay

CO4:   Develop interview skills

CO5:   Illustrate fluently a Review of book or movie efficiently

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1											1	3		
CO2											2	3		1
CO3											1	3		
CO4											3	3		2
CO5												3		1
Average												3	2	1

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: I & I

Subject Code: 15A56102

Subject Name: **Engineering Physics Lab**

Course Outcomes

CO1	Determine the wave lengths of various colors.
CO2	Measure the energy gap of the semiconductor diode
CO3	Analyze the magnetic field along the current carrying coils.
CO4	Determine the dispersive power of the prism.
CO5	Determine the radius of curvature of a plane convex lens by using newton's rings.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2												
CO2	2	2												
CO3	2	2												
CO4	1	1												
CO5	2	1												
Average	2	1.6												

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15　　　　　**Subject Code: 15A05102**

Year & Sem: I & I　　　　　**Subject Name:** **Computer Programming Lab**

Course Outcomes

1. Implement and test simple C programs using arithmetic operators in C language
2. Develop and test simple C programs using control structures in C language
3. Construct some C programs on arrays, pointers and functions in C Language
4. Implement basic programs on pointers and functions in C language
5. Develop basic programs on Structures and unions in C language

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2										3	2
CO2	2	2	3										3	2
CO3	3	3	2										3	1
CO4	3	2	2										3	2
CO5	3	2	3										3	2
Average	2.8	2.2	2.4										3	1.8

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: : 15A01101**

Year & Sem: I & II   **Subject Name: Environmental Studies**

Course Outcomes

CO1   Appraise knowledge regarding environment and its components.

CO2   Distinguish the types of biodiversity and ecosystems.

CO3   Categorize different types of pollution and their control measures.

CO4   Analyse global environmental problems.

CO5   Explain about value education.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3													
CO2							3							
CO3	2						3					1		
CO4		2												
CO5						2						3		
Average	2.5	2				2	3					2		

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: : 15A05201

Year & Sem: I & II   Subject Name: **Data Structures**

Course Outcomes

1.Students are able to acquire knowledge about Basic need and goal of Good Data structures

2. Be aware of the key elements and Styles of Data structures

3. Students are able to have knowledge of use of shared information system in the architectural structures.

4.Able to acquire more knowledge about the Architectural Data structure design Guidance.

5.Able to acquire knowledge of analysis of various Pattern types.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	1									3	
CO2	2	2	3	1									3	
CO3	3	3	2	1									2	
CO4	3	2	2	1									2	
CO5	3	2	3	1									2	
Averag	2.8	2.2	2.4	1	0	0	0	0	0	0	0	0	2.4	

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: : 15A05202

Year & Sem: I & II   Subject Name: **Data Structures Lab**

Course Outcomes

1.Implement program to sort the elements using various sorting algorithm and analyse its performance

2.Implement linear and binary search algorithms and analyse its performance

3. Develop a program to convert infix notation into postfix notation and evaluate postfix expression

4.Develop program to perform static data structures and its operations

5. Develop program to perform operations of dynamic data structures

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2										3	2
CO2	2	2	3										3	2
CO3	3	3	2										3	1
CO4	3	2	2										3	2
CO5	3	2	3										3	2
Average	2.8	2.2	2.4	0	0	0	0	0	0	0	0	0	3	1.8

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: : 15A51101

Year & Sem: I & II   Subject Name: **Engineering Chemistry**

Course Outcomes

CO1   Appraise the quality and utility of suitable water for industrial and domestic.

CO2   Difference between the thermo plastic and thermo setting.

CO3   Ability to describe the types of batteries.

CO4   Applying the methods to prevent the corrosion.

CO5   Distinguish the types of solid, liquid and gaseous fuel.

CO6   Applications of cement, lubricants and Refractories.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1				1							
CO2	2		1				1							
CO3	2	1	1				1							
CO4	3	1					1							
CO5	2		1											
Average	2.4	1	1				1							

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: : 15A51102

Year & Sem: I & II   Subject Name: **Engineering Chemistry Lab**

Course Outcomes

CO1: Appraise the quality and utility of suitable water for industrial and domestic.:

CO2 :Difference between the thermo plastic and thermo setting.

CO3: Ability to describe the types of batteries.

CO4: Applying the methods to prevent the corrosion.

CO5 :Distinguish the types of solid, liquid and gaseous fuel.

CO6 :Applications of cement, lubricants and Refractories.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1												
CO2	2	2												
CO3	1	3												
CO4	2	1												
CO5	2	1												
Average	1.8	1.6												

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: : 15A52201

Year & Sem: I & II   Subject Name: **English for Professional Communication**

Course Outcomes

CO1 : Participate in Argument and Discussion

CO2 : Write Essays Correctly

CO3 : Participate in Elocution with correct accent

CO4 : Comprehend advantages & disadvantages tourism

CO5 : Draft Curriculum vitae and Resume

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1											3	3		3
CO2											2	3		2
CO3											3	3	1	3
CO4											2	3		2
CO5											3	3		3
Average											2.6	3	1	2.6

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15	Subject Code: : 15A54201
Year & Sem: I & II	Subject Name: **Mathematics-II**

Course Outcomes

CO1   Solve Differential Equations using Laplace Transform.

CO2   Find Fourier Coefficients and Fourier Expansion of given function

CO3   Determine Fourier transform, Fourier sine and Cosine Transform of a function.

CO4   Apply Partial differential Equations to solve Engineering Problems.

CO5   Apply Z-Transform to solve Difference Equations.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2												
CO2	3													
CO3	1													
CO4	3	2												
CO5	2													
Average	2.4	2												

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: I & II

Subject Code: 15A99201

Subject Name: Engineering & IT Workshop

Course Outcomes

1. Study and practice on machine tools and their operations
2. Practice on manufacturing of components using workshop trades including carpentry
3. Practice on manufacturing of component using workshop trades includes foundry and welding
4. Identify various hardware components in computer system
5. Install operating system in computer machine

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		2		2									
CO2	2	1												
CO3	2	1	1											
CO4	3	2	1		1	1								
CO5	3	2	1		1	1						1	2	2
Average	2.60	1.50	1.25		1.33	1.00						2	2	2
												1.50	2.00	2.00

Program Co-ordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Batch:**

Year & Sem: II & I   **Subject Code:** 15A05301

Academic Year: **Subject Name:** Database Management Systems

Course Outcomes

CO1:   Understand the general sql concepts such as functions&procedures,triggers etc

CO2: .   Discuss Structured query language for database manipulation

CO3:   Describe about entity relationship model and Normalization types

CO4:   Demonstrate the Query to process and optimize with proper example

CO5:   Explain about transaction management,concurrency control and recovery system

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2													
CO2	2	2	2	2									1	1
CO3	2	1	1	1									1	1
CO4	2	2	2	1									2	2
CO5	2	2	2	2									2	2
Average	2.2	1.4	1.4	1.2									1.2	1.2

Program Co-ordinator   **Subject in-charge**

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: II & I

Subject Code: 15A05302

Subject Name: Discrete Mathematics

Course Outcomes

1. Explain the concept of Mathematics logic &Itsaplications.

2. Analyze to introduction to the Set theory

3. Estimate & Justify of the algebraic structure, Lattices and Boolean algebra

4. Classify & apply to the introduction to Graph theory and trees

5. Determine the fundamental principles of counting. The principle of inclusion and exclusion generating functions

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3		1	1									
CO2	1	3	2	1	1									
CO3	1	3	2	1	1									
CO4		3	2	1	1									
CO5		2	1	1	1									
Average	1.33	2.8	1.8	1	1									

Program Co-ordinator

Subject in-charge

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05303**

Year & Sem: II & I   **Subject Name:**   Database Management Systems Laboratory

Course Outcomes

CO1:   Create database for any real world applications

CO2: .   Demonstrate PL/SQL program to solve simple problems

CO3:   Write PL/SQL programs with the help of procedures and functions

CO4:   Identify the constraints

CO5:   Analyze for data inconsistency

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		2		3						1		3	3
CO2	3	2			3								2	1
CO3	2	3			2								3	2
CO4	3		2		1	2					1		2	3
CO5			2		3								1	2
Average	2.2	1	1.2		2.2	0.4					0.4		2.4	2.4

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A52301

Year & Sem: II & I   Subject Name: Managerial Economics and Financial Analysis

Course Outcomes

1. Determine future sales of a product mix by various techniques .

2. Assess the cosr behaviour for managerial decision making of a enterprise.

3. Classify the policies of government of india through post liberalization

4. Outline steps methods, sources pf capital by business undertaking.

5. Apply the principles of accounting in the managerial part.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1							2				3			
CO2									1		2			
CO3						2	1							
CO4							2				3			
CO5								1			3			
Average						2	1.7	1	1		2.75			

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: II & I

Subject Code: 15A54301

Subject Name: Mathematics-III

Course Outcomes

1. Explain the concepts of Matrices &Its applications
2. Analyse the various methods for solution of algebraic & transcendental equations
3. Estimate & Justify the different methods of Interpolation

4Classify & apply the concept of Curve fitting and analysing the methods of Numerical differentiation & Integration

5. Determine the concept of Numerical solution of ODE's by various methods

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	3	1										
CO2	2	3	2	1	1									
CO3	2	2	1	1	1									
CO4	2	2	2	2	2									
CO5	2	2	2	2	2									
Average	2	2.2	2	1.4	1.5									

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A99301**

Year & Sem: II & I   **Subject Name: Basic Electrical and Electronics Engineering**

Course Outcomes

CO1   Get knowledge on Voltage,Current ,networks and basic laws

CO2   Apply network theorems and two port networks for a given circuit

CO3   Determine the performance of DC Motors DC Generators, induction. motors
                          and transformers.

CO4   Apply different semiconductor devices for various applications.

CO5   Use different oscillators and op-amps in different applications.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1												
CO2	2													
CO3	2													
CO4	3													
CO5	3	2												
Average	2.6	1.5												

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: II & I

Subject Code: 15A99302

Subject Name: **Basic Electrical and Electronics Laboratory**

Course Outcomes

CO1	Apply verification methods of network theorems in Port networks
CO2	Test DC motors and draw their characteristics
CO3	Identify OC, SC, test for single face and transformers
CO4	Conduct experiment on P-N junction diode,Zener Diode,BJT,Rectifier
CO5	Apply verification method of logic gates

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1												
CO2	2	2												
CO3	1	3												
CO4	2	1												
CO5	2	1												
Average	1.8	1.6												

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Batch:**

Year & Sem: II & I   **Subject Code: 15A04306**

Academic Year: **Subject Name:**   **Digital Logic Design**

Course Outcomes

CO1   Understand the different switching algebra theorems and apply them for logic functi

CO2   Identity, formulate and solve engineering problems

CO3   Define combinational circuits

CO4   Derive the state machine analysis and demonstrate simple projects

with a few flip-flops

CO5   Design various logic gates.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2	2										2	
CO2			3	1	2									2
CO3			2		2								1	
CO4		1		2	3									
CO5			2	3	1								2	1
Average	1	1.5	2	2	2								1.6	2

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A04407

Year & Sem: II & II   Subject Name: **Microprocessors & Interfacing**

Course Outcomes

1. Recall the term microprocessor, Instruction set and addressing mode of 8085 and 8086

   2. Predict the importance of assembly language program and modular programming towards 8086

3. Carryout the physical memory organization in 8086 and compare the maximum mode

4. Examine the programmable peripheral devices and their interfaces

5. Discriminate the microcontroller intel 8051 and compare different interfacing examples like 8255, seven segment displays with 8051

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2	1											1
CO2		2	3		1								2	3
CO3			3	2	1	1							3	3
CO4	1		2		1	3						2	2	3
CO5	1	3	1										1	3
Average	1	2.3	2	2	1	2						2	2	3

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A04408**

Year & Sem: II & II   **Subject Name:** Microprocessors & Interfacing Laboratory

Course Outcomes

1. Recall the term Microprocessor, Instruction set, addressing modes of 8085 & 8086
2. Predict the importance of assembly language program and modular programming towards 8086
3. Carryout the physical memory organization in 8086 and compare the Maximum mode
4. Examine the programmable peripheral devices and its interfacing
5. Discriminate the micro controller intel 8051 and compare different interfacing examples like 8255, seven segment dispels with 8051

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1												
CO2		1			2									
CO3		3		2										
CO4				3										
CO5			3	2								2		
Average	2	1.7	3	2.3	2							2		

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15 **Subject Code: 15A05401**

Year & Sem: II & II **Subject Name:** **Software Engineering**

Course Outcomes

1. Understand the overview of software, various software process model and agile development idea

2. Understand the various requirement models

3. Identify and apply the various design concept of software

4. Demonstrate the different user interface design, web application design

5. Analyse and identify various software testing strategies

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2		1								3	
CO2	2	3		1									3	
CO3	1	3	1	2	1								3	
CO4		3	2	1										3
CO5		2	1	3	1									3
Average	1.6	2.8	1.5	1.75	1								3	3

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A05402

Year & Sem: II & II   Subject Name: Computer Organization

Course Outcomes

1. Ability to use different instruction sets and addressing mode

2. Define and develop computer arithmetic operations

3. Ability to define memory organization

4. Ability to identify input and output organization

5. Ability to plan pipeline technique and ability to plan multiprocessors

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1								1	1		
CO2	2	1	1											
CO3	2	1	1										2	1
CO4	3	1	1								2	2	1	1
CO5	1	1	1								1	1	1	2
Average	2.00	1.00	1.00								1.50	1.50	1.33	1.33

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Batch:**

Year & Sem: II & II   **Subject Code: : 15A05403**

Academic Year: **Subject Name:**   Object Oriented Programming using Java

Course Outcomes

1. Acquire knowledge of syntax, semantics and features of Java Programming Language

2. Illustrate Classes, Objects, Methods and Constructors

3. Interpret Inheritance, packages, interfaces and Exception Handling

4. Discuss about Multi-threaded and Applet programs

5. Demonstrate GUI Applications and perform event handling

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2		2						2	2	1	1
CO2	3	3	2		2						2	2	1	1
CO3	3	3	2	2	2						2	2	2	2
CO4	3	2	1	1							1	1	1	1
CO5	3	1	1		1						1	1	1	1
Average	3.00	2.40	1.60	1.50	1.75						1.60	1.60	1.20	1.20

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: : 15A05404

Year & Sem: II & II   Subject Name: Formal Languages and Automata Theory

Course Outcomes

1. Construct finite automata with epsilion transitions and to convert one machine to other.
2. Construct regular expression from finite automata.
3. Build knowledge related to CFG, ambiguity, simplification.
4. Find the equivalence of PDA's and CFG.
5. Solve the problems related to TM, conversion of RE to TM.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2	3										3	1
CO2	1	2	3										3	1
CO3	3	2	1										3	1
CO4	2	3	1										2	1
CO5	2	3	1										2	1
Average	1.8	2.4	1.8										2.6	1

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: II & II

Academic Year:

Batch:

Subject Code: 15A05405

Subject Name: Java Programming Laboratory

Course Outcomes

1. Learn an object oriented way of solving problems
2. Write programs in java to solve the problem
3. Familiarize with language environment
4. Implement various concepts related to language
5. Program using C++ features such as composition of objects

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	1	2						2	2	2	
CO2	3	3	2	1	2						2	2	2	2
CO3	3	2	1	1	2						2	2	2	2
CO4	2	2	1	1	2						2	2	3	2
CO5	1	1			1						1	1	2	1
Average	2.40	2.20	1.75	1.00	1.80						1.80	1.80	2.20	1.75

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: II & II

Subject Code: 15A54401

Subject Name: Probability and Statistics

Course Outcomes

1. Explain the Concepts of Random Variables & Distributions
2. Test for Test of Hypothesis With Large Samples
3. Test for Test of Hypothesis With Small Samples
4. Determine the Statistical Quality Control Charts
5. Apply the Queuing theory Models

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2		1	1									
CO2	2	3	2	1	1									
CO3	1	3	2	1	1									
CO4		3	2	1	1									
CO5	2	2	2	1	1									
Average	1.5	2.6	2	1	1									

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15　　　　　**Subject Code: 15A05501**

Year & Sem: III & I　　　　**Subject Name:** **Operating Systems**

Course Outcomes

CO1: Undertand the various operating system components services and environment

CO2: Outline various process management and communication.

CO3: Apply various memory management techniques in design of operating sysem.

CO4: Define problems in dead lock and understand the functionalities of file system.

CO5: Acquring knowledge about operating sysytem administration.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1		1					1		2	2
CO2	3	2	1	2		1					1	1	2	2
CO3	3	2	2	2		1					1		2	2
CO4	3	3	3	2	1	1					1		3	3
CO5	3	3	3	3	1	1					2		3	3
Average	3	2.4	2	2	1	1					1.2	1	2.4	2.4

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05502**

Year & Sem: III & I   **Subject Name: Computer Networks**

Course Outcomes

1. Explain the networks concepts in data communication

2. Apply the concept of error detection and correction methods.

3. Analyse the concept of internetworking devices, routing techniques.

4. Analyse and apply various network security techniques.

5. Analyse and apply various network security techni.ques

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3												2	
CO2			3		3								3	
CO3			3										3	
CO4		3											2	
CO5		3											2	
Average	3	3	3		3								2.4	

Program Co-ordinator

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Batch:

Year & Sem: III & I   Subject Code: 15A05503

Academic Year: Subject Name: **Object Oriented Analysis and Design**

Course Outcomes

1. Identify solutions to the complex problem in software using object oriented approach
2. Understand the concept of classes, objects and their relationship.
3. Identify the notations of unified modelling language
4. Analysis and design methods with clear emphasis on UML for the particular application
5. Develop a new application software using OOAD technique.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1	1							1	2	2	2
CO2	2	3	2	2	2						1	2	2	2
CO3	1	3	2	1	2				1		2	2	2	2
CO4	2	2	2	2	2	1			2		3	2	2	2
CO5	2	3	3	3	2	1			1	1	3	2	2	2
Average	1.8	2.4	2	1.8	2	1			1.33	1	2	2	2	2

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05504**

Year & Sem: III & I   **Subject Name: Principles of Programming Languages**

Course Outcomes

1. Understand the fundamental principles underlying various programming Language
2. Master analysing semantics issues associated with function implementation
3. Be familiar with design issues of object oriented and functional language
4. Be familiar with implementation of object Oriented language
5. Understand functional language and logical language

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1										1	2
CO2	3		1										2	1
CO3	3	2	3										3	2
CO4	2	1											2	2
CO5	3	2	1										3	1
Average	2.6	1.2	1.2										2.2	1.6

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15 **Subject Code: 15A05505**

Year & Sem: III & I **Subject Name: Software Testing**

Course Outcomes
1. Describe the basic testing procedures
2. Distinguish truncation and data flow testing
3. Illustrate domain testing techniques
4. Compute path products and reduce graph using reduction procedure
5. Apply node reduction algorithms to solve problems

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3												2	
CO2		2	3											2
CO3			3										2	
CO4	1			3										2
CO5	1				3									3
Average	1.7	2	3	3	3								2	2.3

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: III & I

Subject Code: 15A05506

Subject Name: **Introduction to Big Data**

Course Outcomes

1. Understand the basic knowledge, needs and goal of Big Data
2. Identify the key elements and distributed file systems of HDFS
3. Analyse the user requirements of Map Reduce Programming in HDFS Architecture
4. Design the Map Reduce Job in Map Reduce Programming
5. Analyse the various aspects of case studies about Map Reduce Programming

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2				2									
CO2	2	1			1									
CO3	3	1	1		1									
CO4	2	1	1											
CO5	2	2	2	1	1						2	1	2	1
Average	2.2	1.25	1.3	1	1.25						2	1	2	1

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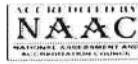
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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05509**

Year & Sem: III & I   **Subject Name:**   **Object Oriented Analysis and Design & Software Testing Laboratory**

Course Outcomes

1. Analyse the user requirements and model them using appropriate diagrams
2. Design an Object Oriented model and implement it using UML tool
3. Apply different testing and defect tracking techniques

4. Analyse quality of software at thread levels by identifying faults of omission and faults omission and faults of commission
5. Plan and monitor the development of software systematically using software specificatior

CO_PO and PSO mapping Correlation

| Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	2						2	2	2	2
CO2	3	2	1	1	1						1	2	1	1
CO3	3	1	1								1	1	1	1
CO4	2	1			1						1	1	1	1
CO5	1	1	1		1						1	1	1	
Average	2.40	1.60	1.25	1.00	1.25						1.20	1.40	1.20	1.25

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Subject Code: 15A05510

Year & Sem: III & I

Subject Name: **Operating Systems Laboratory**

Course Outcomes

1. Understanding of the design issues associated with operating System
2. Apply various Process management concepts including CPU scheduling, Synchronization deadlocks
3. Experiment with the concepts of memory Management including Virtual memory and paging
4. Design and apply different page replacement Algorithms in Memory
5. Develop the code to detect cycle in wait for graph and converting address to physical Address

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		1										3	
CO2	3	2	2											3
CO3	1		3										3	
CO4			3										3	2
CO5			3										3	
Average	2.3	2	2.4										3	2.5

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A99501
Year & Sem: III & I   Subject Name: Social Values & Ethics (Audit Course)

Course Outcomes

CO1: Analyse the values at the level of family and society

CO2: Practice respect for human rights and democratic principles.

CO3: The students would get acquainted with the importance and impact of major present environmental issues

CO4: Recognised the impact of individual and structural discrimination on the basis of class, race, culture gender & disability.

CO5: Understand the importance of physical education and yoga .

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1						2		3						
CO2								3						
CO3			2			2	3							
CO4			2			2	3							
CO5						2			1					
Average			2			2	3	3	1					

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Subject Code: 15A05601

Year & Sem: III & II

Subject Name: Compiler Design

Course Outcomes
1. Outline about works of a compiler
2. Use the tools for design a compiler effectively and efficiently
3. Elaborate syntax directed translation and intermediate code generation
4. Identify run time storage organization
5. Illustrate code generation process and optimization of code

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1		2								2	
CO2	2	2			3								2	2
CO3	2	2	3										2	2
CO4	2	2	3										2	3
CO5	3	3	2		2								2	2
Average	2.2	2.2	2.25		2.3								2	2.25

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: III & II

Subject Code: 15A05602

Subject Name: **Data Warehousing & Mining**

Course Outcomes

1. Describe the basic concepts of data warehouse and data Mining

2. Differentiate pre-processing techniques for data cleansing and data mining functionalitie

3. Demonstrate performance of Frequent Item sets and Association Rules

4. Describe different Classification and Clustering algorithms

5. Compare mining different types of real time databases.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3													
CO2	1	3	2											
CO3	1	2	1	2										
CO4	3	2												
CO5	1	3												
Average	1.8	2.5	1.5	2										

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05603**

Year & Sem: III & II   **Subject Name: Design Patterns**

Course Outcomes

1. Acquires knowledge about underlying object oriented principles of design patterns.
2. Analyse and provide solution to real world software design problems.
3. Understand the implementation of structural patterns to real world software design problems
4. Analyse how the application of a pattern affects the system quality and its tradeoffs.
5. Understand the context in which pattern can be applied and the consequences of combining patterns on the overall quality of a system

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3													
CO2	2	1	2			1							1	1
CO3	2	1				1							1	
CO4	1	1		1									1	
CO5	1					1	1						1	
Average	1.8	1	2	1		1	1						1	1

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A05604

Year & Sem: III & II   Subject Name: **Design and Analysis of Algorithms**

Course Outcomes

1. Analyze the complexity of the algorithms by use techniques of divide and conquer

2. Design and Analyze the complexity of the algorithms by use techniques of Greedy Method and Dynamic programming

3. Design and Analyze the complexity of the algorithms by use techniques of Basic Traversal and Search Techniques and Back tracking

4. Identify and analyze criteria and specifications appropriate to new problems, and choose the appropriate algorithmic design technique for their solution.

5. Able to prove that a certain problem is Np-complete

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2											2	
CO2	1	2	3									1	3	
CO3	1	2	3									1	3	
CO4	1	3	1									2	3	
CO5				3								2	2	
Average	1.4	2.2	4	3								1.5	2.6	

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05605**

Year & Sem: III & II   **Subject Name:** Web and Internet Technologies

Course Outcomes

1. Installation of web browser and designing HTML pages

2. Develop server based program using JSP, Servlet and JDBC

3. Implementation of PHP program

4. Apply various XML techniques in real time examples

5. Develop a new application software using OOAD technique

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	3						2				2	3
CO2	1		3						2				2	3
CO3	3	1	2						1				2	3
CO4		3	1						2				2	3
CO5		3	1						2				2	3
Average	2	2	2						1.8				2	3

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Subject Code: 15A05606

Year & Sem: III & II

Subject Name: **Artificial Intelligence**

Course Outcomes

1. Understand the artificial intelligence (AI) and various algorithm for a problem solving and estimate its time and space complexities

2. Apply basic principles of AI in solutions that require various logical reasoning

3. Describe and list the key aspects of planning in artificial intelligence

4. Demonstrate the Agent's uncertain knowledge by applying probabilistic Reasoning and Bayesian networks

5. Design the learning agents by observation, decision trees, statistical and reinforcement learning methods

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	1							1	2	2	2
CO2	2	3	1	1							1	2	2	2
CO3	2	2	3	1							1	2	3	3
CO4	2	2	2	3	2	1					2	2	3	3
CO5	2	2	2	3	2	1					2	2	3	3
Average	2	2.2	1.8	1.8	2	1					1.4	2	2.6	2.6

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05609**

Year & Sem: III & II   **Subject Name:** Web and Internet Technologies Laboratory

Course Outcomes

1. Create dynamic and interactive web sites
2. Gain knowledge of client side scripting using java script and DHTML
3. Demonstrate XML and parsing using XML data
4. Implement server side program using java Servlet and JSP
5. Implement server side programming using PHP

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	2									2	3	2
CO2	2	1	3									2	3	2
CO3	1	3	2									2	3	2
CO4	3	2	2									2	3	2
CO5												2	3	2
Average	2.25	1.5	2.3									2	3	2

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A05610

Year & Sem: III & II   Subject Name: Data Warehousing & Mining Laboratory

Course Outcomes

1. Extract knowledge using data mining technique
2. Perform data preprocessing tasks and association rule mining on data sets
3. Enlist various algorithms used in data analysis of data mining techniques
4. Perform classification, clustering and regression on data sets
5. Design a data mart or data warehouse for an organization

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	1	1						2	1		
CO2	3	2	2	1	2	1					2	1		
CO3	2	2	2	2	2						2	1		
CO4	2	2	2	1	3	1					2	1		
CO5	1	1	1								2	1		
Average	2.2	2	2	1.25	2	1					2	1		

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code:** 15A52602

Year & Sem: III & II   **Subject Name:**   Advanced English Language Communication Skills (AELCS) Laboratory (Audit Course)

Course Outcomes

CO1   Accomplish sound vocabulary and its use contextually

CO2   Write reports or resume fairly

CO3   Improvise presentation skills

CO4   Take part in discussion and debate effectively

CO5   Enhances speaking abilities.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1								1	3				
CO2								2	3				
CO3								1	3				
CO4								2	3				
CO5								1	3				
Average								1.4	3				

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: IV & I

Subject Code: 15A05701

Subject Name: Grid & Cloud Computing

Course Outcomes

CO1: Elaborate Distributed computing technologies

CO2: Analyze the Grid services for solving large scale scientific problems

CO3: Apply the concept of virtualization for rendering various services from the cloud

CO4: Explain Grid computing tools and Hadoop

CO5: Interpret the security issues in the Grid and cloud environment

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1										2	
CO2	2	3	2	1									2	
CO3	3			1									1	
CO4	2		2		3						1		3	
CO5	2		2	2									2	
Average	2.4	0.8	1.4	0.8	0.6						0.2		2	

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: IV & I

Subject Code: 15A05702

Subject Name: **Information Security**

Course Outcomes

CO1   Understand various encipher technique in the networks

CO2   Applying various number theory in cryptography

CO3   Implementation of Hash functions and Digital Signature to protect network communication

CO4   Configure Secure E – mail and S / MIME

CO5   Demonstrate security policy and protocol in computer networks

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2		2					1	1	2	2
CO2	1	2	1	1		1							2	1
CO3	2	1	2	2		1					1	1		
CO4	2	2			2	1					2	2	1	1
CO5	2	2	2	2	1	1					3	3	2	2
Average	1.8	1.8	1.8	1.75	1.5	1.2					1.75	1.75	1.75	1.5

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15　　　　**Subject Code: 15A05703**

Year & Sem: IV & I　　　**Subject Name:** **Mobile Application Development**

Course Outcomes

1. Understand & install android IDE

2. Implementation basic application widgets using android.

3. Implement basic widget lifecycle, Edit text control and application choosing through UI

4. Implement basic appllication which contains different layouts play audio and vedeo clips

5. Implement basic application which shows menus action bar and drop audio and video clips

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1		2	1						1	3	1
CO2	3	1	3		1	1						1	3	3
CO3	1	3	2									2	3	2
CO4	3	2	2									2	3	2
CO5	3	2	2									2	3	2
Average	2.5	1.8	2.2		1.5	1						2	3	2

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code:15A05706
Year & Sem: IV & I   Subject Name:Machine Learning

Course Outcomes

CO1:   Understand the machine learning and deep learning Concepts

CO2:   Evaluate the hypothesis and implement Bayesian learning algorithms

CO3:   Execute the dimensionality reductions and apply the clustering algorithm

CO4:   Get knowledge about linear discrimination and implement the multilayer perception

CO5:   Evaluate kernalethods and design the graphical model

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	3	2				1	2			3	3
CO2	3	3	2	2	2				1	2			3	3
CO3	3	2	2	3	2				1	2			2	2
CO4		3	2	2	2				1				3	3
CO5	3	3	2	3	2				1	2			3	1
Average	3	2.8	1.8	2.6	2				1	2			2.8	2.4

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05707**

Year & Sem: IV & I   **Subject Name: Software Project Management**

Course Outcomes

CO1: Describe and determine the purpose and importance of project management from the perspectives of planning, tracking and completion of project.

CO2: Compare and differentiate organization structures and project structures

CO3: Implement a project to manage project schedule, expenses and resources with the application of suitable project management tools

CO4: Describe the process automation, process management and its discriminants.

CO5: Review the economics for the next generation software and case study.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	2	3	3			1	3	2	3	1	2	3
CO2		2	2	1	1				1	2			2	2
CO3	1	2	1	2	2								1	3
CO4	1	1	2	1	1			1	2	1	1	1	2	1
CO5	1	1	2	2	1			1		2	1	2	1	
Average	0.8	1.4	1.8	1.8	1.6			0.6	1.2	1.4	1	0.8	1.6	1.8

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15

Year & Sem: IV & I

Subject Code: 15A05710

Subject Name: Grid & Cloud Computing Laboratory

Course Outcomes

CO1: Develop a program to construct grid resource

CO2: Create a web service by using globus toolkit

CO3: Illustrate the services of Amazon Elastic Cloud

CO4: Outline the services of Hadoop

CO5: Summarize services of Google apps engine

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	1							1		2	
CO2	2	3			3						1		2	
CO3	3	2											2	
CO4	2	2			1								2	1
CO5	2	1		1	1								1	2
Average	2.2	2	0.2	0.4	1						0.4		1.8	0.6

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05711**

Year & Sem: IV & I   **Subject Name:** Mobile Application Development Laboratory

Course Outcomes

CO1: To understand android operation system installation. and difficult IDE's

CO2: To develop simple Android application using simple components

CO3: To work with different layouts and bridges

CO4: To implement menus and data base connection with application

CO5: To create apk file

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1				3								3	
CO2			2		3								3	
CO3					3								3	
CO4			2		3								3	
CO5					3								3	
Average	1		1		3								3	

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A52601
Year & Sem: IV & I   Subject Name: **Management Science**

Course Outcomes

CO1: To understand the concept of management and organisation structure.

CO2: To obtain frameworks and tools to effectively analyze and approach various organizational.

CO3: Explain the roles and responsibilities of Human resource professional.

CO4: To describe factors that influence materials flow. To plan and control manufacturing systems.

CO5: To differentiate strategic decisions that present ethical challenges and make appropriate recommendations for ethical decision-making.

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1						2		1						
CO2		1			2	1		2						
CO3						2		3				2		
CO4											3	1		
CO5					2	2						1		
Average		1			2	1.75		2			3	1.33		

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15 **Batch:**

Year & Sem: IV & II **Subject Code: 15A05801**

Academic Year: **Subject Name:** **Mobile Computing**

Course Outcomes

1. Learn fundamentals of WLANS and wireless internet

2. Identify the issues of MANET and analyse the performance of MAC protocol

3. Analyse the performance of routing. transport layer and security protocols in MANET

4. Clarify the challenges in providing QoS in MANET

5. Design protocol for MANET

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1		1							1	2	1	1
CO2	3	1		1							1	1	1	
CO3	3	2		2							1	1	1	
CO4	2	1		1							1	1	1	
CO5	1	1	1	1									1	1
Average	2.2	1.2	1	1.2							1	1.25	1	1

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15
Year & Sem: IV & II

Subject Code: 15A05805
Subject Name: **Enabling Technologies for Data science & Analytics: IOT**

Course Outcomes

1. Describe the basic concepts of IoT and Domain-Specific IoTs

2. Differentiate M2M and IoT, able to understand IoT system management with NETCONF-YANG

3. Understand the building blocks of Internet of Things and application areas of IoT

4. Describe the core concepts of Hadoop and 802.15.4 standards

5. Realize the importance of ZigBee Technology in IoT

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	3	2					2	2	3	3
CO2	3	3	2	1	2	2					2	2	2	2
CO3	3	2	1	1	1	2	1				1	1	1	1
CO4	2	1	2	2	1	1	1				1	2	2	1
CO5	1	1	1										1	1
Average	2.40	2.00	1.60	1.25	1.75	1.75	1.00				1.50	1.75	1.80	1.60

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15
Year & Sem: IV & II

Subject Code: 15A05807
Subject Name: **Comprehensive viva-voce**

Course Outcomes

1. To comprehend and correlate the understanding of core courses in undergraduate curriculum of Computer Science and Engineering

2. Demonstrate knowledge in the subject in undergraduate curriculum of CSE

3. Present his views cogently and precisely

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2									2	2	2	1	1
CO2	2	1	1		1					3	3	1	2	
CO3	3	1	1		2					3	3	2	2	
CO4														
CO5														
Average	2.33	1.00	1.00		1.50					2.67	2.67	1.67	1.67	1.00

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   Subject Code: 15A05808

Year & Sem: IV & II   Subject Name: **Technical Seminar**

Course Outcomes

1. Deal in confidence and think more positive about chosen topic

2. consider ways of grabbing listener's attention, holding their interest and concluding the topic strongly

3. Use body language and tone of voice to enhance their presentation

4. Use visual aids effectively and practice the learning by self study

5. Deliver an enthusiastic and well-prepared presentation

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1	3		1		2	3	3	2	3	
CO2	3	1	1		1	1			2	3	2	2	1	
CO3						2		1	1	3	3	2	1	
CO4								1	2	2	3	3		
CO5								2		2	3	2	1	
Average	3.00	1.50	1.00	1.00	2.00	1.50	1.00	1.33	1.75	2.60	2.80	2.20	1.50	

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Course Outcomes and CO-PO and PSO Mapping Correlation

Regulation: R 15   **Subject Code: 15A05809**

Year & Sem: IV & II   **Subject Name: Project Work**

Course Outcomes

1. Discover potential research area in the field of Computer Science & IT

2. Conduct a survey of several literature in the required field of study

3. Compare and contrast the several existing methodology and solution for further research

4. Demonstrate an ability to work in teams and manage to conduct the research study

5. Formulate and propose a plan for creating a solution for the identified

6. To report and present the finding of the study conducted in the preferred domain

CO_PO and PSO mapping Correlation

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	1						2	1	3	2	3	2
CO2	3	1	1		1				2	2	3	1	1	1
CO3	3	2	2	2	2				3	3	3	2	2	2
CO4	3	2	2	1	2				3	3	3	2	2	1
CO5	2	2	2	1	2	1	1	2	3	2	2	1	1	1
CO6	1			2				1	2	3	3	2	3	2
Average	2.33	1.6	1.6	1.5	1.75	1	1	1.5	2.5	2.33	2.83	1.67	2	1.5

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