



SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2	Teaching-Learning and Evaluation	350
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Key Indicator-2.6 Student Performances and Learning Outcome (90)

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all programmes offered by the institution are stated and displayed on website

DEPARTMENT OF
INFORMATION TECHNOLOGY
R2013



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai – 622 303

DEPARTMENT OF INFORMATION TECHNOLOGY

REGULATION 2013

COURSE OUTCOMES (CO) & CO-PO MAPPING

I SEMESTER


Dr. **S. THILAGAVATHI M.E., Ph.D.,**

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**SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN**

Kaikkurichi - 622 303, Pudukkottai, Dt.



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DEPARTMENT OF INFORMATION TECHNOLOGY

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COURSE OUTCOMES (CO) & CO-PO MAPPING

B.E. CSE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to	
HS6151	TECHNICAL ENGLISH-I	C101.1	Apply the collaborative and social aspects of research and writing processes.
		C101.2	Comprehend that research and writing is a series of tasks, including accessing, retrieving, evaluating, analyzing and synthesizing appropriate data and information from sources that vary in content, format, structure and scope.
		C101.3	Use appropriate technologies to organize, present and communicate information to address a range of audiences, purpose and genres.
		C101.4	Design the multidisciplinary settings to manage projects as an individual, as a member or leader after taking the exercises like role-play, group discussion and making presentations.
		C101.5	Model the life-long learning methods suitable for all the environments committed to professional ethics and responsibilities after inculcating the habit of reading and writing.
		C101.6	Analyze and identify the root for effective managerial skills through different spoken discourse and excerpts.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C101.1	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C101.2	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C101.3	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C101.4	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C101.5	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C101.6	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-
C101	2	2	1	1	-	-	1	-	-	1	-	1	1	-	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
MA6151	MATHEMATICS-I	C102.1	Describe a clear idea of matrix algebra pertaining eigen values and eigen vectors in addition dealing with quadratic forms.
		C102.2	Learn infinite series and their convergence and acquire the knowledge of with limitations.
		C102.3	Use infinite series approximations for solutions arising in mathematical modeling.
		C102.4	Explain and characterize phenomena which evolve around circle of curvature and envelope.
		C102.5	Extend the function of a one variable to several variables. Multivariable functions of real variables arise inevitable in engineering.
		C102.6	Extend PROGRAM OUTCOMES to double and triple integration so that they can handle integrals of higher order which are applied in engineering field.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C102.1	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C102.2	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C102.3	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C102.4	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C102.5	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C102.6	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C102	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
PH6151	ENGINEERING PHYSICS-I	C103.2	Classify the Bravais lattices and different types of crystal structures and growth technique.
		C103.2	Demonstrate the properties of elasticity and heat transfer through objects.
		C103.3	Explain black body radiation, properties of matter waves and Schrodinger wave equations.
		C103.4	Describe and analyzing the quantum nature of radiation and matter to solve the real time societal and technological problems.
		C103.5	Illustrate the acoustic requirements, production and application of ultrasonics.
		C103.6	Examine the characteristics of laser and optical fiber.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C103.1	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C103.2	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C103.3	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C103.4	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C103.5	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C103.6	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C103	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
CY6151	ENGINEERING CHEMISTRY-I	C104.1	Classify the polymers, different polymerization techniques and its uses.
		C104.2	Describe the laws of thermodynamics, various thermodynamics functions and their significance.
		C104.3	Explain the photo physical processes and the components of analytical instruments.
		C104.4	Illustrate the phase diagrams, alloys and heat treatment processes
		C104.5	Discuss the synthesis, characteristics and the applications of nano materials.
		C104.6	Create the knowledge of nonmaterial's and their applications in fields like medicinal, electrical, electronic, chemical, etc.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C104.1	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-
C104.2	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-
C104.3	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-
C104.4	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-
C104.5	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-
C104.6	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-
C104	3	2	1	1	-	-	1	-	-	-	-	1	1	-	-


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Course Code	Course Name		Course Outcome (CO) Students will be able to
GE6151	COMPUTER PROGRAMMING	C105.1	Explain the basic organization of computers, the number systems and write the pseudo code for algorithms and flow chart.
		C105.2	Develop 'C' programming fundamentals, looping statements and solve problems.
		C105.3	Design 'C' programs for arrays and strings.
		C105.4	Use functions with pass by value and reference, pointers in programs.
		C105.5	Develop coding in 'C' for structures and unions with storage classes and pre-processor.
		C105.6	Design and execute C programs for simple applications.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C105.1	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-
C105.2	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-
C105.3	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-
C105.4	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-
C105.5	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-
C105.6	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-
C105	3	2	1	1	1	-	-	-	-	-	-	1	1	-	-


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Course Code	Course Name	Course Outcome (CO) Students will be able to	
GE6152	ENGINEERING GRAPHICS	C106.1	Construct the conic sections and special curves and outline their practical applications and sketch the orthographic views from pictorial views and models.
		C106.2	Apply the principles of orthographic projections of points in all quadrants, lines and planes in first quadrant.
		C106.3	Draw the projections of simple solids like prisms, pyramids, cylinder and cone and obtain the traces of plane figures.
		C106.4	Design the sectional views of solids like cube, prisms, pyramids, cylinders & cones and Development of its lateral surfaces.
		C106.5	Apply the principles of isometric projection and perspective projection of simple solids and truncated prisms, pyramids, cone and cylinders.
		C106.6	Build an engineering component using Paper drawing as well as in CAD.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C106.1	2	1	1	1	-	1	1	-	-	1	-	1	1	-	-
C106.2	2	1	1	1	-	1	1	-	-	1	-	1	1	-	-
C106.3	3	2	1	1	-	1	1	-	-	1	-	1	1	-	-
C106.4	3	2	1	1	-	1	1	-	-	1	-	1	1	-	-
C106.5	2	2	1	1	-	1	1	-	-	1	-	1	1	-	-
C106.6	2	1	1	1	-	1	1	-	-	1	-	1	1	-	-
C106	3	2	1	1	-	1	1	-	-	1	-	1	1	-	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
GE6161	COMPUTER PRACTICES LABORATORY	C107.1	Prepare data using MS-word & Excel to visualize graphs, charts in MS-Excel.
		C107.2	Outline the given problem using flowchart and to program using Switch case & Control structures.
		C107.3	Develop the code using decision making & looping statements.
		C107.4	Apply passing parameters using Arrays & Functions.
		C107.5	Use structure and Union for a given database and to bring out the importance of Unions over structure.
		C107.6	Design and implement C programs for simple applications.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C107.1	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-
C107.2	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-
C107.3	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-
C107.4	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-
C107.5	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-
C107.6	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-
C107	2	2	1	1	-	-	1	1	1	-	1	1	1	-	-

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Course Code	Course Name	Course Outcome (CO) Students will be able to	
GE6162	ENGINEERING PRACTICES LABORATORY	C108.1	Draw pipe line plan; lay and connect various pipe fittings used in common household plumbing work; Saw; plan;
		C108.2	Explain various joints in wood materials used in common household wood work.
		C108.3	Design various wire electrical joints in common household electrical wire work.
		C108.4	Weld various joints in steel plates using arc welding work; Machine various simple processes like turning, drilling, tapping in parts; Assemble simple mechanical assembly of common household
		C108.5	Solder and test simple electronic circuits; Assemble and test simple electronic components on PCB.
		C108.6	Design a tray out of metal sheet using sheet metal work.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C108.1	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-
C108.2	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-
C108.3	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-
C108.4	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-
C108.5	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-
C108.6	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-
C108	2	1	1	1	1	-	1	1	1	-	1	1	2	1	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

II SEMESTER


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
GE6163	PHYSICS AND CHEMISTRY LABORATORY-I	C109.1	To apply the physics principles of Thermal physics and Properties of Matter to evaluate properties of materials.
		C109.2	Evaluate the wavelength of spectral lines using spectrometer, the wavelength of laser, particle size, acceptance angle of an optical fiber using semiconductor diode laser and the thickness of a thin wire through interference fringes using Air wedge apparatus.
		C109.3	Appraise the velocity of sound and compressibility of the liquid using ultrasonic interferometer and thermal conductivity for bad conductors using Lee's disc apparatus.
		C109.4	Determine the DO content in water sample by winkler's method and molecular weight of polymer by Ostwald viscometer.
		C109.5	Find the strength of an acid using pH meter and conductometer.
		C109.6	Estimate the amount of weak and strong acids in a mixture by conductometer.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO
C109.1	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-
C109.2	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-
C109.3	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-
C109.4	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-
C109.5	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-
C109.6	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-
C109	3	2	1	1	-	-	1	-	1	-	1	1	1	-	-


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Course Code	Course Name	Course Outcome (CO) Students will be able to	
HS6251	TECHNICAL ENGLISH-II	C210.1	Speak clearly, confidently, comprehensibly, and communicate with one or many listeners using appropriate communicative strategies.
		C210.2	Define the impact of the professional engineering solution in societal and environmental contexts with the help of the basic grammar taught to communicate effectively and confidently.
		C210.3	Write cohesively and coherently and flawlessly avoiding grammatical errors, using a wide vocabulary range, organizing their ideas logically on a topic.
		C210.4	Read different genres of texts adopting various reading strategies.
		C210.5	Listen/view and comprehend different spoken discourses/excerpts in different accents.
		C210.6	Recognize, understand, and analyze the context within which language, information, and knowledge are produced, managed, organized, and disseminated

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C210.1	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-
C210.2	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-
C210.3	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-
C210.4	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-
C210.5	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-
C210.6	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-
C210	2	2	1	1	-	-	1	-	1	1	-	1	1	-	-


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Course Code	Course Name	Course Outcome (CO) Students will be able to	
MA6251	MATHEMATICS-II	C211.1	Solve ordinary differential equations that model most of the engineering problems.
		C211.2	Acquaint the concepts of vector calculus-like Gradient, Divergence, Curl, Directional derivative, Irrotational vector and Solenoidal vector.
		C211.3	Make to appreciate the purpose of using transforms to create new domain in which it is easier to handle the problem that is being investigated.
		C211.4	Develop an Explaining of the standard techniques of complex variable and mapping so as to enable the student to apply them with confidence, in application areas such as heat conduction, elasticity, fluid dynamics and flow of electric current.
		C211.5	Expose to the concept of Cauchy's integral theorem, Taylor, Laurent expansions and Singular points.
		C211.6	Use Application of residue theorem to evaluate complex integrals.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C211.1	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-
C211.2	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-
C211.3	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-
C211.4	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-
C211.5	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-
C211.6	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-
C211	2	2	2	1	-	-	-	-	1	-	-	1	1	-	-


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DEPARTMENT OF INFORMATION TECHNOLOGY

REGULATION 2013

COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
		C212.1	Illustrate classical and quantum free electron theory and calculate carrier concentration in metals.
PH6251	ENGINEERING PHYSICS - II	C212.2	Describe the carrier concentration in semi conductors and identify the p-type and n-type semi conductor using hall effect.
		C212.3	Illustrate the special material properties such as magnetism.
		C212.4	Discuss the super conductivity.
		C212.5	Explain the dielectrics, types of polarization, losses and breakdown
		C212.6	Discuss the properties, preparation and applications of metallic alloys, SMA, nano materials, NLO, Bio-materials.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C212.1	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-
C212.2	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-
C212.3	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-
C212.4	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-
C212.5	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-
C212.6	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-
C212	2	2	1	1	-	1	1	-	-	-	-	-	1	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
CY6251	ENGINEERING CHEMISTRY-II	C213.1	Explain the problems of using hard water in boilers and the methods of treatment of water for boiler use.
		C213.2	Design the electrochemical cells and to identify the types of corrosion and the methods of preventing.
		C213.3	Illustrate the methods of harnessing energy from non-conventional energy sources.
		C213.4	Classify various engineering materials and their importance.
		C213.5	Relate the significance of solid, liquid and gaseous fuels and to calculate the calorific values of fuels and the requirement of air for combustion in furnaces.
		C213.6	Analyze issues related to fuels and their synthesis and able to understand working of IC and diesel engines.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C213.1	3	2	1	1	-	-	-	1	-	-	-	1	1	-	-
C213.2	2	2	1	1	-	-	-	1	-	-	-	1	1	-	-
C213.3	2	2	1	1	-	-	-	1	-	-	-	1	1	-	-
C213.4	2	2	1	1	-	-	-	1	-	-	-	1	1	-	-
C213.5	2	2	1	1	-	-	-	1	-	-	-	1	1	-	-
C213.6	2	2	1	1	-	-	-	1	-	-	-	1	1	-	-
C213	2.3	2	1	1	-	-	-	1	-	-	-	1	1	-	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6201	DIGITAL PRINCIPLES AND SYSTEM DESIGN	C114.1	Perform arithmetic operations in any number system..
		C114.2	Explain the basics of Boolean algebra
		C114.3	Simplify the Boolean expression using K-Map and Tabulation techniques.
		C114.4	Use boolean simplification techniques to design a combinational hardware circuit.
		C114.5	Design and Analysis of a given digital circuit – combinational and sequential.
		C114.6	Design using PLD

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C114.1	2	2	2	1	-	-	-	-	1	-	-	2	1	1	-
C114.2	3	2	2	1	-	-	-	-	1	-	-	2	1	1	-
C114.3	3	2	2	1	-	-	-	-	1	-	-	2	1	1	-
C114.4	2	2	2	1	-	-	-	-	1	-	-	2	1	1	-
C114.5	3	2	2	1	-	-	-	-	1	-	-	2	1	1	-
C114.6	3	2	2	1	-	-	-	-	1	-	-	2	1	1	-
C114	3	2	2	1	-	-	-	-	1	-	-	2	1	1	-

*3-High correlation; 2- Medium correlation; 1-Low correlation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6202	PROGRAMMING AND DATA STRUCTURES I	C115.1	Explain the basics of C programming.
		C115.2	Use the conditional and control statements of C appropriately for problems.
		C115.3	Distinguish the usage of Structures and Unions
		C115.4	Implement abstract data types for linear data structures.
		C115.5	Apply the different linear data structures to problem solutions.
		C115.6	Critically analyze the various algorithms like sorting, searching etc.,

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C115.1	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-
C115.2	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-
C115.3	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-
C115.4	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-
C115.5	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-
C115.6	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-
C115	3	2	1	1	-	2	-	-	-	-	1	-	1	1	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
GE6262	PHYSICS AND CHEMISTRY LABORATORY	C216.1	Appraise the Young's modulus of the beam by uniform and non uniform bending method, the moment of inertia and Rigidity Modulus for thin wire using Torsion Pendulum.
		C216.2	Use Poiseuille's method for determining the coefficient of viscosity of the liquid
		C216.3	Estimate the refractive index of spectral lines for determining the dispersive power of a prism circuit.
		C216.4	Determine the type, amount of alkalinity, hardness in a given water sample.
		C216.5	Evaluate the amount of copper using EDTA method.
		C216.6	Examine the potentiometric redox titration and Conductometric precipitation titration.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C216.1	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C216.2	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C216.3	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C216.4	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C216.5	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C216.6	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C216	3	2	1	1	-	-	-	-	-	-	-	-	1	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
IT6211	DIGITAL LABORATORY	C217.1	Evaluate the basic gates using boolean theorms
		C217.2	Use boolean simplification techniques to design a combinational hardware circuit.
		C217.3	Design and Implement combinational and sequential circuits.
		C217.4	Analyze a given digital circuit – combinational and sequential.
		C217.5	Design the different functional units in a digital computer system.
		C217.6	Design and Implement a simple digital system.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C217.1	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-
C217.2	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-
C217.3	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-
C217.4	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-
C217.5	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-
C217.6	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-
C217	3	2	2	1	-	-	1	1	-	1	-	1	1	1	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to	
IT6212	PROGRAMMING AND DATA STRUCTURES LABORATORY I	C218.1	Design and implement C programs for implementing stacks, queues, and linked lists.
		C218.2	Apply good programming design methods for program development
		C218.3	Illustration of usage of files
		C218.4	Apply the different data structures for implementing solutions to practical problems
		C218.5	Develop searching and sorting programs
		C218.6	Develop searching and sorting programs.

CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C218.1	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-
C218.2	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-
C218.3	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-
C218.4	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-
C218.5	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-
C218.6	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-
C218	3	2	2	1	1	-	1	-	-	2	-	1	1	1	-


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COURSE OUTCOMES (CO) & CO-PO MAPPING

SEMESTER III

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
MA6351	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	C201.1	Develop boundary value problem using Fourier series analysis.
		C201.2	Explain about the higher order LPDE
		C201.3	Develop the complex form of Fourier series
		C201.4	Develop mathematical tools for the solutions of partial differential equations
		C201.5	Apply Fourier transform techniques used in wide variety of situations
		C201.6	Develop Z transform techniques for discrete time systems.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C201.1	3	3	2	2	2	2	2	2	1	1	1	1	3	1	-
C201.2	3	3	2	2	2	1	1	1	1	1	1	1	3	2	-
C201.3	3	3	2	2	1	1	1	1	1	1	1	1	3	1	-
C201.4	3	3	2	2	2	2	1	1	1	1	1	1	2	2	-
C201.5	3	2	2	2	2	1	1	1	1	1	1	1	3	1	-
C201.6	3	3	2	2	2	2	2	1	1	1	1	1	3	1	-
C201	3	2.8	2	2	1.8	1.5	1.3	1.2	1	1	1	1	2.8	1.3	-

*3-High correlation; 2- Medium correlation; 1-Low correlation

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6301	PROGRAMMING AND DATA STRUCTURES II	C202.1	Design problem solutions using Object Oriented Techniques
		C202.2	Apply the concepts of data abstraction, encapsulation and inheritance for problem solutions.
		C202.3	Use the control structures of C++ appropriately.
		C202.4	Critically analyse the various algorithms.
		C202.5	Apply the linear data structures to problem solutions.
		C202.6	Apply the non-linear data structures to problem solutions.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 1	PO2	PO3	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C202.1	3	3	1	1	2	-	-	-	-	-	-	1	3	1	-
C202.2	3	3	2	2	2	-	-	-	-	-	-	1	3	2	-
C202.3	3	3	2	2	2	-	-	-	-	-	-	1	3	2	-
C202.4	3	2	2	2	2	-	-	-	-	-	-	1	3	1	-
C202.5	3	2	2	2	2	-	-	-	-	-	-	1	3	2	-
C202.6	3	2	2	2	2	-	-	-	-	-	-	1	3	2	-
C202	3	2.5	1.8	1.8	2	-	-	-	-	-	-	1	3	1.7	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6302	DATABASE MANAGEMENT SYSTEMS	C203.1	Design Databases for applications.
		C203.2	Use the Relational model, ER diagrams.
		C203.3	Apply concurrency control and recovery mechanisms for practical problems.
		C203.4	Design the Query Processor and Transaction Processor.
		C203.5	Apply advanced concepts in databases.
		C203.6	Apply security concepts to databases.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C203.1	3	3	2	1	-	1	1	-	-	-	-	-	3	2	-
C203.2	3	3	2	1	-	1	1	-	-	-	-	-	3	2	-
C203.3	3	3	2	1	-	1	1	-	-	-	-	-	3	2	-
C203.4	3	3	2	1	-	1	1	-	-	-	-	-	3	2	-
C203.5	3	3	2	2	-	2	1	-	-	-	-	-	3	2	-
C203.6	3	3	2	2	-	2	1	-	-	-	-	-	3	2	-
C203	3	3	2	1.3	-	1.3	1	-	-	-	-	-	3	2	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6303	COMPUTER ARCHITECTURE	C204.1	Analyze the concept of instructions
		C204.2	Design arithmetic and logic unit.
		C204.3	Design and analyze pipelined control units
		C204.4	Evaluate performance of memory systems.
		C204.5	Understand parallel processing architectures
		C204.6	Understand the concept of I/O systems

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C204.1	3	2	1	1	-	1	-	-	-	-	-	-	1	3	1
C204.2	3	2	1	1	-	1	-	-	-	-	-	-	1	3	1
C204.3	3	3	2	2	-	1	-	-	-	-	-	-	1	3	2
C204.4	3	3	2	1	-	1	-	-	-	-	-	-	1	3	2
C204.5	3	3	2	1	-	1	-	-	-	-	-	-	1	3	2
C204.6	3	3	2	1	-	1	-	-	-	-	-	-	1	3	2
C204	3	2.7	1.7	1.2	-	1	-	-	-	-	-	-	1	3	1.7

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6304	ANALOG AND DIGITAL COMMUNICATION	C205.1	Apply analog communication techniques
		C205.2	Apply digital communication techniques
		C205.3	Use data communication techniques
		C205.4	Use pulse communication techniques
		C205.5	Analyze Source and Error control coding.
		C205.6	Utilize multi-user radio communication.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C205.1	2	1	1	1	-	-	-	-	-	-	-	-	2	1	-
C205.2	2	1	1	1	-	-	-	-	-	-	-	-	2	1	-
C205.3	2	1	1	1	-	-	-	-	-	-	-	-	2	1	-
C205.4	3	2	2	2	-	-	-	-	-	-	-	-	3	2	-
C205.5	3	2	2	2	-	-	-	-	-	-	-	-	3	2	-
C205.6	3	1	1	1	-	-	-	-	-	-	-	-	3	1	-
C205	2.5	1.3	1.3	1.3	-	-	-	-	-	-	-	-	2.5	1.3	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
GE6351	ENVIRONMENTAL SCIENCE AND ENGINEERING	C206.1	Finding and implementing scientific, technological solutions to environmental problems
		C206.2	Finding and implementing economic and political solutions to environmental problems
		C206.3	Discuss about interrelationship between living organism and environment.
		C206.4	Describe about the surrounding environment, its functions and its value
		C206.5	Explain about dynamic process and features of earth's interior surface
		C206.6	Learn about natural resources, pollution control and waste management

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C206.1	3	2	2	2	-	2	1	1	-	-	-	-	-	2	-
C206.2	3	3	2	2	-	2	2	2	-	-	-	-	-	2	-
C206.3	3	2	2	2	-	2	2	1	-	-	-	-	-	2	-
C206.4	3	2	2	2	-	1	1	1	-	-	-	-	-	2	-
C206.5	3	2	2	2	-	1	1	1	-	-	-	-	-	2	-
C206.6	3	3	3	2	-	1	1	1	-	-	-	-	-	2	-
C206	3	2.3	2.2	2	-	1.7	1.3	1.2	-	-	-	-	-	2	-

*3-High correlation; 2- Medium correlation; 1-Low correlation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6311	PROGRAMMING AND DATA STRUCTURES LABORATORY II	C207.1	Design and implement C++ programs for manipulating constructors, destructors and copy constructors
		C207.2	Design and implement C++ programs for manipulating friend function, friend class, inheritance, polymorphism
		C207.3	Design and implement C++ programs for manipulating stacks, queues, linked lists, trees, and Graphs.
		C207.4	Apply good programming design methods for program development.
		C207.5	Apply the different data structures for implementing solutions to practical problems.
		C207.6	Develop recursive programs using trees and graphs..

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C207.1	3	3	2	2	-	2	2	2	2	2	-	1	1	1	-
C207.2	2	2	2	2	-	2	2	2	2	2	-	1	1	1	-
C207.3	2	2	2	2	-	2	2	2	2	2	-	1	1	1	-
C207.4	3	3	3	2	-	2	2	2	2	2	-	1	1	1	-
C207.5	3	3	2	1	-	2	2	2	2	2	-	1	1	1	-
C207.6	3	3	2	1	-	2	2	2	2	2	-	1	1	1	-
C207	2.7	2.7	2.2	1.7	-	2	2	2	2	2	-	1	1	1	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6312	DATABASE MANAGEMENT SYSTEMS LABORATORY	C208.1	Design and implement a database schema for a given problem-domain
		C208.2	Populate and query a database
		C208.3	Create and maintain views, Synonyms, Sequence, Indexes, Save point.
		C208.4	Analyze relationship between database
		C208.5	Create and maintain tables using PL/SQL.
		C208.6	Prepare reports.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C208.1	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-
C208.2	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-
C208.3	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-
C208.4	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-
C208.5	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-
C208.6	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-
C208	3	3	2	2	-	2	2	2	2	2	-	2	1	1	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6313	DIGITAL COMMUNICATION LABORATORY	C209.1	Learn about Signal sampling
		C209.2	Explain about various modulation
		C209.3	Design program using MATLAB
		C209.4	Describe simulation of Shift Key Modulation
		C209.5	Develop the scheme to control the error
		C209.6	Develop the simulation about spread spectrum

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C209.1	3	3	2	2	-	-	-	-	2	-	-	-	2	1	-
C209.2	3	3	3	2	-	-	-	-	2	-	-	-	2	1	-
C209.3	3	3	2	2	-	-	-	-	2	-	-	-	3	2	-
C209.4	3	3	2	1	-	-	-	-	1	-	-	-	3	2	-
C209.5	3	2	2	1	-	-	-	-	1	-	-	-	2	2	-
C209.6	3	3	2	2	-	-	-	-	2	-	-	-	1	2	-
C209	3.0	2.8	2.2	1.7	-	-	-	-	1.7	-	-	-	2.2	1.7	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
MA6453	PROBABILITY AND QUEUEING THEORY	C210.1	Explain the fundamental knowledge of the probability concepts.
		C210.2	Describe phenomenon which evolve with respect to time in a probabilistic manner..
		C210.3	Explain how to usage of covaraince, distribution.
		C210.4	Describe about the different random process model.
		C210.5	Acquire skills in analyzing queuing models.
		C210.6	Detail about the queuing model in advanced method

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSO		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C210.1	2	2	2	2	-	-	-	-	-	-	-	2	2	1	-
C210.2	2	2	1	1	-	-	-	-	-	-	-	1	1	1	-
C210.3	2	1	1	1	-	-	-	-	-	-	-	1	1	1	-
C210.4	2	1	1	1	-	-	-	-	-	-	-	1	1	1	-
C210.5	2	1	1	1	-	-	-	-	-	-	-	1	1	1	-
C210.6	2	1	1	1	-	-	-	-	-	-	-	1	1	1	-
C210	2	1.3	1.2	1.2	-	-	-	-	-	-	-	1.2	1.2	1	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
EC6504	MICROPROCESSOR AND MICROCONTROLLER	C211.1	Design and implement programs on 8086 microprocessor.
		C211.2	Explain about the Bus Structure in Micro Processor
		C211.3	Design I/O circuits.
		C211.4	Discuss about usage of i/o circuits in real time application
		C211.5	Design and implement 8051 microcontroller based systems
		C211.6	Design Memory Interfacing circuits.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C211.1	3	3	2	2	-	2	2	2	2	2	-	1	1	1	-
C211.2	3	2	2	2	-	2	2	2	2	2	-	1	1	1	-
C211.3	3	2	2	2	-	2	2	2	2	2	-	1	1	1	-
C211.4	3	3	2	2	-	2	2	2	1	1	-	1	1	1	-
C211.5	3	3	2	2	-	2	2	2	1	1	-	1	1	1	-
C211.6	3	3	2	2	-	2	2	2	1	1	-	1	1	1	-
C211	3	2.7	2	2	-	2	2	2	1.7	1.7	-	1	1	1	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6402	DESIGN AND ANALYSIS OF ALGORITHMS	C212.1	Learn about basics of algorithm with its notation
		C212.2	Analyze the time and space complexity of algorithms.
		C212.3	Design the algorithm for sorting and searching methods
		C212.4	Critically analyze the different algorithm design techniques using dynamic and greedy technique
		C212.5	Design algorithms for various computing problems..
		C212.6	Modify existing algorithms to improve efficiency.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C212.1	3	3	3	2	-	-	-	1	1	-	-	1	1	2	1
C212.2	3	3	2	2	-	-	-	2	2	-	-	2	1	2	1
C212.3	2	2	2	2	-	-	-	2	2	-	-	2	1	2	1
C212.4	2	2	2	2	-	-	-	2	2	-	-	2	1	2	1
C212.5	2	2	2	2	-	-	-	2	2	-	-	2	1	2	1
C212.6	2	2	2	2	-	-	-	2	2	-	-	2	1	2	1
C212	2.3	2.3	2.2	2	-	-	-	1.8	1.8	-	-	1.8	1	2	1

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6401	OPERATING SYSTEMS	C213.1	Design algorithms for various computing problems.
		C213.2	Apply the principles of concurrency.
		C213.3	Design deadlock, prevention and avoidance algorithms.
		C213.4	Compare and contrast various memory management schemes.
		C213.5	Design and Implement a prototype file systems.
		C213.6	Perform administrative tasks on Linux Servers.

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSO		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C213.1	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C213.2	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
C213.3	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C213.4	2	2	2	1	-	-	-	-	-	-	-	-	1	-	-
C213.5	3	3	2	2	-	-	-	-	-	-	-	-	1	-	-
C213.6	2	2	1	1	-	-	-	-	-	-	-	-	1	-	-
C213	2.3	2.2	1.5	1.3	-	-	-	-	-	-	-	-	1	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6403	SOFTWARE ENGINEERING	C214.1	Identify the key activities in managing a software project.
		C214.2	Compare different process models.
		C214.3	Concepts of requirements engineering and Analysis Modeling.
		C214.4	Develop the architectural design for software
		C214.5	Compare and contrast the various testing.
		C214.6	Description of how to manage the software development

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSO		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C214.1	2	2	2	1	1	-	-	-	1	-	-	-	2	-	-
C214.2	3	2	2	2	1	-	-	-	1	-	-	-	2	-	-
C214.3	2	2	2	1	1	-	-	-	1	-	-	-	2	-	-
C214.4	2	2	2	1	1	-	-	-	1	-	-	-	2	-	-
C214.5	3	3	2	2	1	-	-	-	1	-	-	-	2	-	-
C214.6	3	2	1	1	1	-	-	-	1	-	-	-	2	-	-
C214	2.5	2.2	1.8	1.3	1	-	-	-	1	-	-	-	2	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6411	MICROPROCESSOR AND MICROCONTROLLER LABORATORY	C215.1	Write ALP Programmes for fixed and Floating Point and Arithmetic
		C215.2	Interface different I/Os with processor
		C215.3	Generate waveforms using Microprocessors.
		C215.4	Execute Programs in 8051.
		C215.5	Explain the difference between simulator and Emulator
		C215.6	Working with MASM

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSO		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C215.1	3	2	2	2	-	-	2	1	-	-	-	1	2	-	-
C215.2	3	2	2	1	-	-	2	1	-	-	-	1	2	-	-
C215.3	3	2	1	1	-	-	2	1	-	-	-	1	2	-	-
C215.4	2	2	1	1	-	-	1	1	-	-	-	1	2	-	-
C215.5	3	2	2	1	-	-	2	1	-	-	-	1	2	-	-
C215.6	3	2	2	1	-	-	2	1	-	-	-	1	1	-	-
C215	2.8	2	1.7	1.2	-	-	1.8	1	-	-	-	1	1.8	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6412	OPERATING SYSTEMS LABORATORY	C216.1	Implement deadlock avoidance, and Detection Algorithms
		C216.2	Compare the performance of various CPU Scheduling Algorithm
		C216.3	Critically analyze the performance of the various page replacement algorithms
		C216.4	Create processes and implement IPC
		C216.5	Develop the program in C using system calls.
		C216.6	Detail about shell programming

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSO		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C216.1	3	2	2	1	-	1	1	-	-	1	1	1	1	-	-
C216.2	3	2	2	1	-	1	1	-	-	1	1	1	1	-	-
C216.3	3	2	2	2	-	1	1	-	-	1	1	1	2	-	-
C216.4	3	2	2	2	-	1	1	-	-	1	1	1	1	-	-
C216.5	3	2	2	2	-	2	1	-	-	1	1	1	2	-	-
C216.6	3	1	2	1	-	1	1	-	-	1	1	1	1	-	-
C216	3	1.8	2	1.5	-	1.2	1	-	-	1	1	1	1.3	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6413	SOFTWARE ENGINEERING LABORATORY	C217.1	Use open source case tools to develop software
		C217.2	Analyze and design software requirements in efficient manner
		C217.3	Compare the software engineering methodologies for project development.
		C217.4	Develop the architectural design for software
		C217.5	Compare and contrast the various testing .
		C217.6	Description of how to manage the software development

CO-PO MAPPING

COs	PROGRAM OUTCOMES												PSO		
	PO1	PO 2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C217.1	3	2	2	1	-	-	1	-	-	1	1	1	2	-	-
C217.2	3	2	2	1	-	-	1	-	-	1	1	1	3	-	-
C217.3	3	2	2	1	-	-	1	-	-	1	1	1	3	-	-
C217.4	3	2	2	1	-	-	1	-	-	1	1	1	3	-	-
C217.5	3	2	2	1	-	-	1	-	-	1	1	1	3	-	-
C217.6	3	2	2	1	-	-	1	-	-	1	1	1	2	-	-
C217	3	2	2	1	-	-	1	-	-	1	1	1	2.7	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
HS8461	ADVANCED READING AND WRITING	C218.1	Discuss the concept of PCM systems
		C218.2	Describe the various waveform coding schemes and their performance
		C218.3	Match and implement base band transmission schemes
		C218.4	Select and implement band pass signaling schemes
		C218.5	Demonstrate the spectral characteristics of band pass signaling schemes and their noise performance
		C218.6	Design error control coding schemes

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C218.1	-	-	-	-	-	-	3	-	3	3	-	2	1	1	-
C218.2	-	-	-	-	-	-	3	-	2	2	-	2	1	1	-
C218.3	-	-	-	-	-	-	3	-	3	3	-	2	1	1	-
C218.4	-	-	-	-	-	-	3	-	2	2	-	3	1	1	-
C218.5	-	-	-	-	-	-	3	-	3	3	-	2	2	2	-
C218.6	-	-	-	-	-	-	3	-	2	2	-	2	1	1	-
C218	-	-	-	-	-	-	3	-	2.5	2.5	-	2.2	1.2	1.2	-

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation

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DEPARTMENT OF INFORMATION TECHNOLOGY

REGULATION 2013

COURSE OUTCOMES (CO) & CO-PO MAPPING

SEMESTER V


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6551	COMPUTER NETWORKS	C301.1	Identify the components required to build different types of networks
		C301.2	Choose the required functionality at each layer for given application
		C301.3	Identify solution for each functionality at each layer
		C301.4	Explain different routing techniques
		C301.5	Trace the flow of information from one node to another node in the network
		C301.6	Explain the different protocols used at application layer i.e. SMTP, POP3, IMAP, MIME, SNMP, DNS etc

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C301.1	3	2	2	1	1	1	1	1	1	1	1	1	3	1	3
C301.2	3	2	2	2	1	1	1	1	1	1	1	1	3	2	3
C301.3	3	3	2	2	2	2	1	1	1	1	1	1	3	2	3
C301.4	3	3	2	1	1	1	1	1	1	1	1	1	3	2	3
C301.5	3	3	3	3	2	2	2	1	1	1	1	1	3	2	3
C301.6	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3
C301	3.0	2.7	2.3	1.8	1.5	1.5	1.3	1.2	1.2	1.2	1.2	1.2	3.0	2.0	3.0

*3-High Correlation; 2-Medium Correlation; 1-Low Correlation

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6501	GRAPHICS AND MULTIMEDIA	C302.1	Effectively and creatively solve a wide range of graphic design problems
		C302.2	Form effective and compelling interactive experiences for a wide range of audiences.
		C302.3	Use various software programs used in the creation and implementation of multi-media (interactive, motion/animation, presentation, etc.).
		C302.4	Explain different file handling techniques in multimedia
		C302.5	Discuss issues related to emerging electronic technologies and graphic design
		C302.6	Explain the different messaging techniques in multimedia

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C302.1	3	3	3	2	1	2	-	-	1	1	1	1	3	2	3
C302.2	3	3	3	2	2	2	-	-	1	1	1	1	3	2	3
C302.3	3	3	3	2	2	2	-	-	1	1	1	1	3	2	3
C302.4	3	3	3	2	2	2	-	-	2	2	2	1	3	2	3
C302.5	3	3	3	2	2	2	-	-	2	2	2	1	3	2	3
C302.6	3	3	3	2	2	2	-	-	2	2	2	1	3	2	3
C302	3.0	3.0	3.0	2.0	1.8	2.0	-	-	1.5	1.5	1.5	1.0	3.0	2.0	3.0

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6502	OBJECT ORIENTED ANALYSIS AND DESIGN	C303.1	Explain the basics of Object oriented analysis and design
		C303.2	Design and implement projects using OO concepts
		C303.3	Use the UML analysis and design diagrams
		C303.4	Apply appropriate design patterns
		C303.5	Create code from design.
		C303.6	Compare and contrast various testing techniques

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C303.1	3	3	3	2	2	1	1	1	1	1	1	1	3	2	3
C303.2	3	3	3	2	2	1	1	1	1	1	1	1	3	2	3
C303.3	3	3	3	2	2	1	1	1	1	1	1	1	3	2	3
C303.4	3	3	3	2	2	2	1	1	1	1	1	1	3	1	3
C303.5	3	3	2	2	2	2	2	2	1	1	1	1	3	2	3
C303.6	3	3	3	2	2	2	2	2	1	1	1	1	3	2	3
C303	3.0	3.0	2.8	2.0	2.0	1.5	1.3	1.3	1.0	1.0	1.0	1.0	3.0	1.8	3.0

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6502	DIGITAL SIGNAL PROCESSING	C304.1	Discuss the basics of fourier transforms.
		C304.2	Perform frequency transforms for the signals.
		C304.3	Design IIR and FIR filters.
		C304.4	Finite word length effects in digital filters
		C304.5	Implement different frequency sampling techniques
		C304.6	Explain the fixed and floating point numbers representations

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C304.1	3	3	3	2	1	-	-	-	-	-	-	1	1	2	-
C304.2	3	3	2	2	1	-	-	-	-	-	-	1	1	2	-
C304.3	3	3	2	2	1	-	-	-	-	-	-	1	1	2	-
C304.4	3	3	2	2	1	-	-	-	-	-	-	1	2	3	-
C304.5	3	2	2	2	1	-	-	-	-	-	-	1	1	2	-
C304.6	3	3	3	2	1	-	-	-	-	-	-	1	1	2	-
C304	3.0	2.8	2.3	2.0	1.0	-	-	-	-	-	-	1.0	1.2	2.2	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6503	WEB PROGRAMMING	C305.1	Design web pages.
		C305.2	Use technologies of Web Programming.
		C305.3	Apply object oriented aspects to Scripting.
		C305.4	Create databases with connectivity using JDBC.
		C305.5	Build web based application using sockets.
		C305.6	Explain the working and services of XML.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C305.1	3	3	2	2	2	2	2	2	2	2	2	1	3	1	3
C305.2	3	3	3	2	2	2	2	2	2	2	2	2	3	2	3
C305.3	3	3	3	2	2	2	2	1	1	1	1	1	3	2	3
C305.4	3	3	3	3	2	2	2	2	2	2	2	2	3	2	3
C305.5	3	3	3	2	2	2	2	2	2	2	2	2	3	2	3
C305.6	3	3	3	2	2	2	2	2	2	1	1	1	3	2	3
C305	3.0	3.0	2.8	2.2	2.0	2.0	2.0	1.8	1.8	1.7	1.7	1.5	3.0	1.8	3.0

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
EC6801	WIRELESS COMMUNICATION	C306.1	Characterize wireless channels
		C306.2	Design and implement various signaling schemes for fading channels
		C306.3	Design a cellular system
		C306.4	Compare multipath mitigation techniques and analyze their performance
		C306.5	Design systems with transmit/receive diversity and MIMO systems and analyze their performance
		C306.6	Implement the systems with transmit/receive diversity and MIMO systems and analyze their performance

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C306.1	3	2	2	2	2	-	1	-	-	-	-	-	2	2	3
C306.2	3	3	3	2	2	-	1	-	-	-	-	-	2	3	3
C306.3	3	2	2	2	2	-	1	-	-	-	-	-	2	3	3
C306.4	3	2	2	2	2	-	1	-	-	-	-	-	3	3	3
C306.5	3	3	2	2	2	-	1	-	-	-	-	-	3	2	3
C306.6	3	3	3	2	2	-	1	-	-	-	-	-	2	1	3
C306	3.0	2.5	2.3	2.0	2.0	-	1.0	-	-	-	-	-	2.3	2.3	3.0

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6511	NETWORKS LABORATORY	C307.1	Use simulation tools
		C307.2	Implement the various protocols.
		C307.3	Analyze the performance of the protocols in different layers.
		C307.4	Describe the various routing algorithms
		C307.5	Detail about socket programming.
		C307.6	Explain about network commands

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C307.1	3	3	2	2	-	2	2	2	2	2	-	1	1	-	-
C307.2	3	3	2	2	-	2	2	2	2	1	-	1	1	-	-
C307.3	3	3	3	2	-	2	2	2	2	1	-	1	1	-	-
C307.4	3	3	3	2	-	2	2	2	2	2	-	1	1	-	-
C307.5	3	3	3	2	-	2	2	2	2	1	-	1	1	-	-
C307.6	3	3	2	2	-	2	2	2	2	2	-	1	1	-	-
C307	3.0	3.0	2.5	2.0	-	2.0	2.0	2.0	2.0	1.5	-	1.0	1.0	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6512	WEB PROGRAMMING LABORATORY	C308.1	Design Web pages using HTML/DHTML and style sheets
		C308.2	Design Web pages using style sheets
		C308.3	Design and Implement database applications.
		C308.4	Create dynamic web pages using server side scripting.
		C308.5	Write Client Server applications..
		C308.6	Implement RMI concept

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C308.1	3	3	3	2	2	2	2	2	1	1	1	1	3	2	2
C308.2	3	3	3	3	3	2	2	2	1	1	1	1	3	1	1
C308.3	3	2	2	2	2	2	2	2	1	1	1	1	3	2	2
C308.4	3	3	3	2	2	2	2	2	2	2	1	1	3	2	2
C308.5	3	3	3	3	2	2	2	2	2	2	2	2	3	2	2
C308.6	3	3	3	2	2	2	2	2	2	2	2	2	3	2	2
C308	3.0	2.8	2.8	2.3	2.2	2.0	2.0	2.0	1.5	1.5	1.3	1.3	3.0	1.8	1.8

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6513	CASE TOOLS LABORATORY	C309.1	Design and implement projects using OO concepts.
		C309.2	How to map design to code.
		C309.3	Use the UML analysis and design diagrams.
		C309.4	Apply appropriate design patterns.
		C309.5	Create code from design.
		C309.6	Compare and contrast various testing techniques.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C309.1	3	3	2	2	2	2	2	2	1	1	1	1	1	-	-
C309.2	3	3	3	3	3	2	1	1	1	1	1	1	1	-	-
C309.3	3	3	3	3	3	2	2	2	2	2	1	1	1	-	-
C309.4	3	3	3	3	3	2	2	2	2	1	1	1	1	-	-
C309.5	3	3	3	3	3	2	2	2	2	2	2	2	2	-	-
C309.6	3	3	3	3	3	2	2	2	2	2	2	2	2	-	-
C309	3.0	3.0	2.8	2.8	2.8	2.0	1.8	1.8	1.7	1.5	1.3	1.3	1.3	-	-

*3-HighCorrelation; 2-MediumCorrelation; 1-LowCorrelation


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REGULATION 2013

COURSE OUTCOMES (CO) & CO-PO MAPPING

SEMESTER VI


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6601	DISTRIBUTED SYSTEMS	C310.1	Discuss trends in Distributed Systems
		C310.2	Apply network virtualization.
		C310.3	Apply remote method invocation and objects.
		C310.4	Explain the ideas behind the peer to peer and file system
		C310.5	Analyze about Synchronization in Distributed Systems
		C310.6	Design process and resource management systems.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C310.1	3	3	2	2	2	2	1	1	-	-	-	1	3	2	-
C310.2	3	3	2	2	2	2	1	1	-	-	-	1	3	2	-
C310.3	3	3	3	2	2	2	2	1	-	-	-	1	3	2	-
C310.4	3	3	3	2	2	2	2	1	-	-	-	1	3	3	-
C310.5	3	3	2	2	2	2	1	1	-	-	-	1	3	3	-
C310.6	3	3	2	2	2	2	2	1	-	-	-	1	3	3	-
C310	3.0	3.0	2.3	2.0	2.0	2.0	1.5	1.0	-	-	-	1.0	3.0	2.5	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6601	MOBILE COMPUTING	C311.1	Explain the basics of mobile telecommunication system
		C311.2	Choose the required functionality at each layer for given application.
		C311.3	Description of the services provided in network layer and transport layer.
		C311.4	Identify solution for each functionality at each layer.
		C311.5	Use simulator tools and design Ad hoc networks.
		C311.6	Develop a mobile application.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C311.1	3	3	3	2	-	2	2	2	2	2	-	2	1	-	-
C311.2	3	3	3	2	-	2	2	2	1	1	-	1	1	-	-
C311.3	3	3	3	2	-	2	2	2	2	1	-	1	1	-	-
C311.4	3	3	2	2	-	2	2	2	2	2	-	2	1	-	-
C311.5	3	2	2	2	-	2	2	2	2	1	-	1	1	-	-
C311.6	3	2	2	2	-	2	2	2	2	1	-	1	1	-	-
C311	3.0	2.7	2.5	2.0	-	2.0	2.0	2.0	1.8	1.3	-	1.3	1.0	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6659	ARTIFICIAL INTELLIGENCE	C312.1	Identify problems that are amenable to solution by AI methods.
		C312.2	Identify appropriate AI methods to solve a given problem.
		C312.3	Formalize a given problem in the language/framework of different AI methods.
		C312.4	Implement basic AI algorithms.
		C312.5	Design an empirical evaluation of different algorithms on a problem formalization
		C312.6	Carry out an empirical evaluation of different algorithms on a problem formalization

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C312.1	3	3	2	2	-	2	2	2	2	2	-	2	1	-	-
C312.2	3	2	2	2	-	2	2	2	2	2	-	2	1	-	-
C312.3	3	3	2	2	-	2	2	2	2	2	-	1	1	-	-
C312.4	3	3	3	3	-	2	2	1	1	1	-	1	1	-	-
C312.5	3	3	2	2	-	2	2	2	2	2	-	2	1	-	-
C312.6	3	3	3	3	-	3	2	2	2	2	-	2	1	-	-
C312	3.0	2.8	2.3	2.3	-	2.2	2.0	1.8	1.8	1.8	-	1.7	1.0	-	-

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6660	COMPILER DESIGN	C313.1	Design and implement a prototype compiler
		C313.2	Analyze the Conversion of Regular Expression to Automata
		C313.3	Design and implement a parser
		C313.4	Identify the SDD and implement the Type Systems.
		C313.5	In detail about the storage Organization
		C313.6	Apply the various optimization techniques

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C313.1	3	3	-	2	-	2	2	2	2	2	-	2	1	-	-
C313.2	3	3	-	2	-	2	2	2	2	2	-	2	1	-	-
C313.3	3	3	-	3	-	3	3	2	2	2	-	2	1	-	-
C313.4	3	3	-	3	-	2	2	2	2	2	-	2	1	-	-
C313.5	3	3	-	2	-	1	1	1	1	1	-	1	1	-	-
C313.6	3	2	-	2	-	2	2	2	2	2	-	2	1	-	-
C313	3.0	2.8	-	2.3	-	2.0	2.0	1.8	1.8	1.8	-	1.8	1.0	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6602	SOFTWARE ARCHITECTURES	C314.1	Explain influence of software architecture on business activities
		C314.2	Explain influence of software architecture on technical activities
		C314.3	Describe about attributes in Qualities
		C314.4	Identify key architectural structures
		C314.5	Use styles and views to specify architecture
		C314.6	Design document for a given architecture

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C314.1	3	3	2	2	2	-	-	2	1	-	-	1	2	-	-
C314.2	3	3	2	2	2	-	-	2	1	-	-	1	2	-	-
C314.3	3	3	2	2	2	-	-	2	1	-	-	1	1	-	-
C314.4	3	3	3	2	2	-	-	2	1	-	-	1	1	-	-
C314.5	3	3	3	3	2	-	-	2	1	-	-	1	1	-	-
C314.6	3	3	2	2	2	-	-	2	1	-	-	1	2	-	-
C314	3.0	3.0	2.3	2.2	2.0	-	-	2.0	1.0	-	-	1.0	1.5	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
		C315.1	Explain the basics of Total Quality Management
GE6757	TOTAL QUALITY MANAGEMENT	C315.2	Elaborate key concepts of Customer satisfaction
		C315.3	Learn about the principles and improvement process
		C315.4	Describe about traditional tools for quality
		C315.5	Identify the sigma concepts for quality function development
		C315.6	Explain the key constraints for Quality Systems

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C315.1	3	2	2	2	-	2	2	2	2	2	-	2	1		-
C315.2	3	3	2	2	-	2	2	2	2	2	-	2	1		-
C315.3	3	3	2	2	-	2	2	2	1	1	-	1	1		-
C315.4	3	3	3	2	-	2	2	2	2	2	-	2	1		-
C315.5	3	3	3	2	-	1	1	1	1	1	-	1	1		-
C315.6	3	3	3	2	-	2	2	2	2	2	-	2	1		-
C315	3.0	2.8	2.5	2.0	-	1.8	1.8	1.8	1.7	1.7	-	1.7	1.0		-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6611	MOBILE APPLICATION DEVELOPMENT LABORATORY	C316.1	Design and Implement various mobile applications using emulators.
		C316.2	Know the components and structure of mobile application development frameworks for Android OS based mobiles
		C316.3	Know the components and structure of mobile application development frameworks for windows OS based mobiles.
		C316.4	How to work with various mobile application development frameworks
		C316.5	Design concepts and issues of development of mobile applications.
		C316.6	Deploy applications to hand-held devices

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C316.1	3	3	3	2	-	2	2	2	2	2	-	2	1	-	-
C316.2	3	3	3	3	-	2	2	1	1	1	-	1	1	-	-
C316.3	3	3	2	2	-	2	2	2	2	2	-	2	1	-	-
C316.4	3	3	3	3	-	2	2	2	1	1	-	1	1	-	-
C316.5	3	3	2	2	-	1	1	1	1	1	-	1	1	-	-
C316.6	3	3	2	2	-	2	2	2	2	2	-	2	1	-	-
C316	3.0	3.0	2.5	2.3	-	1.8	1.8	1.7	1.5	1.5	-	1.5	1.0	-	-

3-HighCorrelation; 2-MediumCorrelation; 1-LowCorrelation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6612	COMPILER LABORATORY	C317.1	Implement the different Phases of compiler using tools
		C317.2	Analyze the control flow and data flow of a typical program
		C317.3	Usage of the LEX and YACC tools
		C317.4	Implement the strategies for storage allocation.
		C317.5	Optimize a given program
		C317.6	Generate an assembly language program equivalent to a source language program

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C317.1	3	2	2	2	-	2	2	2	2	2	2	2	1	-	-
C317.2	3	3	3	3	-	2	2	1	1	1	1	1	1	-	-
C317.3	2	2	2	2	-	2	2	2	1	1	1	1	2	-	-
C317.4	3	3	3	3	-	2	2	2	1	1	1	1	2	-	-
C317.5	3	3	3	2	-	1	1	1	1	1	1	1	1	-	-
C317.6	3	3	2	2	-	2	2	2	2	2	1	2	1	-	-
C317	2.8	2.7	2.5	2.3	-	1.8	1.8	1.7	1.3	1.3	1.3	1.3	1.3	-	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
GE6674	COMMUNICATION AND SOFT SKILLS LABORATORY	C318.1	To be totally learner-centric with minimum teacher intervention as the course revolves around practice
		C318.2	Suitable audio/video samples from Podcast/YouTube to be used for illustrative purposes.
		C318.3	Portfolio approach for writing to be followed. Learners are to be encouraged to blog, tweet, text and email employing appropriate language
		C318.4	GD/Interview/Role Play/Debate could be conducted off the laboratory (in a regular classroom)
		C318.5	Expose to telephonic interview and video conferencing.
		C318.6	Learners are to be assigned to read/write/listen/view materials outside the classroom as well for gaining proficiency and better participation in the class.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C318.1	3	3	3	2	2	2	2	2	2	1	1	1	2	-	-
C318.2	3	3	3	2	2	2	2	2	2	1	1	1	2	-	-
C318.3	3	3	2	1	1	1	1	1	1	1	1	1	1	-	-
C318.4	3	3	3	2	2	2	2	2	1	1	1	1	1	-	-
C318.5	3	3	3	3	2	2	2	2	1	1	1	1	1	-	-
C318.6	3	3	2	2	2	2	2	2	1	1	1	1	2	-	-
C318	3.0	3.0	2.7	2.0	2.0	2.0	2.0	1.8	1.3	1.0	1.0	1.0	1.5	-	-

*3-HighCorrelation; 2-MediumCorrelation; 1-LowCorrelation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

SEMESTER VII


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6701	INFORMATION MANAGEMENT	C401.1	Determine the basics of managing the information
		C401.2	Analyze core relational database topics including logical and physical design and modeling
		C401.3	Infer the depth knowledge about complex information system that meets regulatory requirements
		C401.4	Design, Create and maintain data warehouses.
		C401.5	Design, create and maintain data warehouses.
		C401.6	Learn recent advances in NoSQL, Big Data and related tools.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C401.1	3	2	2	2	2	2	2	2	2	2	1	1	3	2	-
C401.2	3	2	2	2	2	2	1	1	1	1	1	1	3	2	-
C401.3	3	3	3	2	2	1	1	1	1	1	1	1	3	2	-
C401.4	3	3	3	2	2	2	2	2	2	2	2	1	3	3	-
C401.5	3	3	3	2	2	2	2	2	2	2	2	1	3	3	-
C401.6	3	3	1	1	1	1	1	1	1	1	1	1	3	3	-
C401	3.0	2.7	2.3	1.8	1.8	1.7	1.5	1.5	1.5	1.5	1.3	1.0	3.0	2.5	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6701	CRYPTOGRAPHY AND NETWORK SECURITY	C402.1	Explain various encryption techniques and the basics of number theory and apply algorithm to test the numbers
		C402.2	Use block cipher methods to calculate the ciphers summarize public key cryptography
		C402.3	Discuss authentication algorithm and apply various authentication functions and secure algorithms.
		C402.4	Evaluate firewall rules and policy setup implementations
		C402.5	Design secure applications
		C402.6	Inject secure coding in the development applications

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C402.1	3	3	2	1	1	1	1	-	-	-	1	1	2	3	-
C402.2	3	3	2	2	1	1	1	-	-	-	1	1	3	2	-
C402.3	3	3	3	2	2	2	2	-	-	-	1	1	3	2	-
C402.4	3	3	3	2	2	2	2	-	-	-	1	1	3	3	-
C402.5	3	3	3	2	2	2	1	-	-	-	1	1	3	3	-
C402.6	3	3	2	2	1	1	1	-	-	-	1	1	3	3	-
C402	3.0	3.0	2.5	1.8	1.5	1.5	1.3	-	-	-	1.0	1.0	2.8	2.7	-

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6702	DATA WARE HOUSING AND DATA MINING	C403.1	Describe data ware house concepts and architecture.
		C403.2	Classify the various OLAP types
		C403.3	Define data mining and list out the types in data mining.
		C403.4	Make use of tools and techniques for associating rule mining and classification
		C403.5	Compare and contrast the various classifiers.
		C403.6	Compare the various clustering method in Data mining.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C403.1	3	3	3	3	2	-	2	-	-	2	1	1	2	3	-
C403.2	3	3	3	3	2	-	2	-	-	1	1	1	3	2	-
C403.3	3	3	3	3	2	-	2	-	-	2	1	1	3	2	-
C403.4	3	3	3	2	2	-	2	-	-	1	1	1	3	3	1
C403.5	3	3	3	3	2	-	2	-	-	1	1	1	3	2	-
C403.6	3	3	2	2	2	-	2	-	-	1	1	1	2	2	-
C403	3.0	3.0	2.8	2.7	2.0	-	2.0	-	-	1.3	1.0	1.0	2.7	2.3	1

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6703	GRID AND CLOUD COMPUTING	C404.1	Use of the basics of distributed computing and grid
		C404.2	Apply grid computing techniques to solve large scale scientific problems
		C404.3	Apply the concept of virtualization
		C404.4	List out the deployment models of cloud
		C404.5	Use the grid and cloud tool kits
		C404.6	Apply the security models in the grid and the cloud environment

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C404.1	3	3	2	2	2	2	2	-	-	-	-	1	3	2	-
C404.2	2	3	3	2	2	2	2	-	-	-	-	1	2	2	-
C404.3	3	3	3	3	3	2	2	-	-	-	-	1	3	2	-
C404.4	3	3	3	3	3	3	2	-	-	-	-	1	3	2	-
C404.5	3	3	3	2	3	2	2	-	-	-	-	1	3	2	-
C404.6	3	3	2	2	2	2	2	-	-	-	-	1	3	2	-
C404	2.8	3.0	2.7	2.3	2.5	2.2	2.0	-	-	-	-	1.0	2.8	2.0	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6003	AD HOC AND SENSOR NETWORKS	C405.1	Detail about the needs of wireless Adhoc and sensor network in current scenario of technology
		C405.2	Explain the concepts, network architectures and applications of ad hoc and wireless sensor networks
		C405.3	Analyze the protocol design issues of ad hoc and sensor networks.
		C405.4	Design routing protocols for ad hoc and wireless sensor networks with respect to some protocol with design issues
		C405.5	Detail about how various signal processing and coding techniques combat channel uncertainties
		C405.6	Evaluate the QoS related performance measurements of ad hoc and sensor networks.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C405.1	3	3	3	3	3	3	2	-	-	-	1	1	3	2	-
C405.2	2	3	3	3	2	2	2	-	-	-	1	1	2	2	-
C405.3	3	3	3	3	3	2	2	-	-	-	2	2	3	2	-
C405.4	3	3	3	3	3	3	2	-	-	-	1	1	3	3	-
C405.5	3	3	3	2	3	2	2	-	-	-	1	1	2	3	-
C405.6	3	3	3	3	2	2	2	-	-	-	1	1	2	2	-
C405	2.8	3.0	3.0	2.8	2.7	2.3	2.0	-	-	-	1.2	1.2	2.5	2.3	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6711	DATA MINING LABORATORY	C406.1	Apply data mining techniques
		C406.2	Apply the methods to large data sets
		C406.3	Use data mining tools
		C406.4	Compare the various classifiers
		C406.5	Contrast the various classifier
		C406.6	Analyze the Data Mining Techniques

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C406.1	3	3	2	2	2	-	2	2	-	-	2	2	3	2	-
C406.2	3	3	2	2	2	-	2	2	-	-	2	2	2	2	-
C406.3	3	3	3	2	2	-	3	2	-	-	3	3	3	2	-
C406.4	3	3	3	2	2	-	3	2	-	-	2	2	3	2	-
C406.5	3	3	2	2	2	-	2	2	-	-	2	2	3	3	-
C406.6	3	3	2	2	2	-	2	2	-	-	2	2	2	2	-
C406	3.0	3.0	2.3	2.0	2.0	-	2.3	2	-	-	2.3	2.3	2.7	2.2	-

*3-HighCorrelation; 2-MediumCorrelation;1-LowCorrelation


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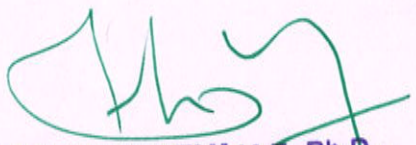
COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6712	SECURITY LABORATORY	C407.1	Implement the cipher techniques
		C407.2	Implement the Encryption techniques
		C407.3	Develop the various security algorithms
		C407.4	Learn about secure data transfer
		C407.5	Use different open source tools for network security
		C407.6	Analysis different open source tools for network security

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C407.1	3	3	3	2	2	2	-	2	2	2	-	2	3	2	-
C407.2	3	3	3	3	2	3	-	2	2	2	-	2	3	3	-
C407.3	3	3	3	3	3	3	-	3	2	2	-	2	3	3	-
C407.4	3	3	3	3	3	3	-	3	3	2	-	2	3	3	-
C407.5	3	3	3	3	3	3	-	2	2	2	-	2	3	2	-
C407.6	3	3	3	3	3	3	-	2	2	1	-	1	3	2	-
C407	3.0	3.0	3.0	2.8	2.7	2.8	-	2.3	2.2	1.8	-	1.8	3.0	2.5	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
		C4081	Use the grid and cloud tool kits
IT6713	GRID AND CLOUD COMPUTING LABORATORY	C408.2	Apply the Virtualization
		C408.3	Design applications on the Grid
		C408.4	Implement applications on the Grid
		C408.5	Design applications on the Cloud.
		C408.6	Implement applications on the Cloud.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C4081	3	3	3	3	3	3	2	2	2	2	2	2	3	3	-
C408.2	3	3	3	3	3	3	2	2	2	2	2	2	3	3	-
C408.3	3	3	3	3	2	2	2	2	2	2	2	2	3	3	-
C408.4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-
C408.5	3	3	3	3	3	3	3	2	2	2	2	2	3	3	-
C408.6	3	3	3	3	3	3	3	2	2	2	2	2	3	3	-
C408	3.0	3.0	3.0	3.0	2.8	2.8	2.5	2.2	2.2	2.2	2.2	2.2	3.0	3.0	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6801	SERVICE ORIENTED ARCHITECTURE	C409.1	Build applications based on XML
		C409.2	Develop web services using technology elements
		C409.3	Explain about the key principles behind SOA
		C409.4	Build SOA-based applications for intra-enterprise and inter-enterprise applications
		C409.5	Determine web services technology elements for realizing SOA
		C409.6	Apply the various web service standards

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C409.1	3	3	3	2	-	2	2	2	2	2	-	2	3	2	-
C409.2	3	3	3	3	-	3	2	2	2	2	-	2	3	2	-
C409.3	3	3	3	2	-	2	2	2	2	2	-	1	3	2	-
C409.4	3	3	3	2	-	2	2	2	1	1	-	1	3	3	-
C409.5	3	3	3	3	-	3	2	2	2	2	-	2	3	2	-
C409.6	3	3	3	2	-	2	2	2	1	1	-	1	3	2	-
C409	3.0	3.0	3.0	2.3	-	2.3	2.0	2.0	1.7	1.7	-	1.5	3.0	2	-

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
GE6075	PROFESSIONAL ETHICS IN ENGINEERING	C410.1	Describe basic purpose of profession, professional ethics and various moral and social issues
		C410.2	Outline of professional rights and responsibilities of a Engineer, safety and risk benefit analysis of a Engineer
		C410.3	Utilize acquiring knowledge of various roles of EngineerIn applying ethical principles at various professional levels
		C410.4	Define professional Ethical values and contemporary issues
		C410.5	Relate in competitive and challenging environment to contribute to industrial growth.
		C410.6	Choose academic learning with experimental learning in a profession.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C410.1	3	2	2	2	2	-	2	-	1	-	-	1	2	3	-
C410.2	3	3	3	3	2	-	2	-	2	-	-	1	3	3	-
C410.3	3	3	3	2	2	-	2	-	2	-	-	1	3	3	-
C410.4	3	3	3	2	2	-	2	-	1	-	-	1	3	3	-
C410.5	3	3	3	3	2	-	2	-	2	-	-	2	2	2	-
C410.6	3	3	3	2	2	-	2	-	1	-	-	1	3	3	-
C410	3.0	2.8	2.8	2.3	2.0	-	2.0	-	1.5	-	-	1.2	2.7	2.8	-

*3-HighCorrelation;2-MediumCorrelation;1-LowCorrelation

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
CS6004	CYBER FORENSICS	C411.1	Discuss the security issues network layer
		C411.2	Discuss the security issues in transport layer.
		C411.3	Apply security principles in the application layer.
		C411.4	Explain computer forensics.
		C411.5	Use forensics tools.
		C411.6	Analyze and validate forensics data.

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C411.1	3	3	2	2	-	2	2	2	2	2	2	2	1	2	-
C411.2	3	3	3	3	-	3	2	1	1	1	1	1	1	3	-
C411.3	2	2	2	2	-	2	2	1	1	1	1	1	2	2	-
C411.4	3	3	3	3	-	2	2	1	1	1	1	1	2	2	-
C411.5	3	3	3	2	-	2	2	1	1	1	1	1	1	1	-
C411.6	3	3	2	2	-	2	2	2	2	1	1	1	1	3	-
C411	2.8	2.8	2.5	2.3	-	2.1	2.0	1.3	1.3	1.1	1.1	1.1	1.3	2.1	-

*3-HighCorrelation; 2-MediumCorrelation;1-LowCorrelation


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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6011	KNOWLEDGE MANAGEMENT	C412.1	Usage about Introduction to Yoga and meditation
		C412.2	Apply ethics in society,
		C412.3	Discuss the ethical issues related to engineering and realize the responsibilities and rights in the society.
		C412.4	Analyze the Weapons Development – Engineers as Managers
		C412.5	Analyze the concept of Risk Benefit Analysis and Reducing Risk
		C412.6	Gain knowledge about Senses of 'Engineering Ethics'

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C412.1	2	2	2	2	-	-	2	2	-	2	2	2	1	1	-
C412.2	3	3	3	2	-	-	2	1	-	1	1	1	1	1	-
C412.3	2	2	2	2	-	-	2	1	-	1	1	1	2	2	-
C412.4	3	3	3	2	-	-	2	1	-	1	1	1	2	2	-
C412.5	2	2	2	2	-	-	2	1	-	1	1	1	2	2	-
C412.6	3	3	2	2	-	-	2	2	-	1	1	2	2	2	-
C412	2.5	2.5	2.3	2.0	-	-	2.0	1.3	-	1.2	1.3	1.3	1.6	1.6	-

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COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to	
IT6811	PROJECT WORK	C413.1	Identify technically and economically feasible problems of social relevance
		C413.2	Plan and build the project team with assigned responsibilities.
		C413.3	Identify and survey the relevant literature for getting exposed to related solutions
		C413.4	Analyze, design and develop adaptable and reusable solutions of minimal complexity by using modern tools
		C413.5	Implement and test solutions to trace against the user requirements
		C413.6	Deploy and support the solutions for better manageability of the solutions and provide scope for improvability

CO PO MAPPING

COs	PROGRAM OUTCOMES												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C413.1	3	3	3	3	2	2	2	2	2	2	2	2	2	2	-
C413.2	3	3	3	3	3	2	2	2	2	2	2	1	1	1	-
C413.3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	-
C413.4	3	2	2	2	2	2	2	2	2	2	2	1	1	1	-
C413.5	3	2	2	2	2	2	2	2	2	2	2	1	1	1	-
C413.6	2	2	2	2	2	2	2	2	1	1	1	1	1	1	-
C413	2.8	2.5	2.5	2.5	2.2	2.0	2.0	2.0	1.8	1.8	1.8	1.3	1.1	1.1	-

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