(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

# I SEMESTER

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to						
		C101.1: Use appropriate words in a professional context.						
		C101.2: Explain the basic grammatic structures and use Them in right context.						
HS3152	PROFESSIONAL ENGLISH - I	C101.3:  Describe the denotative and connotative Meanings of technical texts						
(C101)		C101.4: Summarize about the definitions, descriptions, Narrations and essays on various topics						
		C101.5: Apply language effectively in professional contexts						
		C101.6: Discuss the importance of read and write complex texts, summaries, articles, blogs definitions, essays and user manuals.						

СО					PRO	GRAN	I OUT	COME	ES				PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101.1	2	2	2	2	2	2	2	2	2	2	-	2	-	-	-
C101.2	2	2	2	2	2	2	2	2	2	2	-	2	-	-	-
C101.3	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101.4	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101.5	2	2	2	2	-	2	2	2	2	2	-	2	-	-	-
C101.6	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C102.1: Use the matrix algebra methods for solving practical problems.
		C102.2: Apply differential calculus tools in solving various application problems.
MA3151 (C102)	MATRICES AND CALCULUS	C102.3: Describe the partial differential equations with initial and Lagrange's method by using certain techniques with engineering applications.
		C102.4: Carry out the differentiation to solve maxima and minima problems.
		C102.5: Explain different methods of integration in solving practical problems.
		C102.6: Determine multiple integral ideas in solving areas, volumes and other practical problems.

СО					PRO	GRAN	1 OUT	COMI	ES				PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C102.1	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-
C102.2	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-
C102.3	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-
C102.4	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-
C102.5	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-
C102.6	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-
C102	3	3	2	2	-	-	-	-	1	-	1	1	-	2	-

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C103.1: Acknowledge the importance of mechanics.
		C103.2: Express their knowledge in electromagnetic waves.
PH3151	ENGINEERING PHYSICS	Students will be able to  103.1: Eknowledge the importance of mechanics.  103.2: Express their knowledge in electromagnetic waves.  103.3: Emonstrate a strong foundational knowledge in cillations.  103.4: tablish a strong foundational knowledge in fibre tics and laser.  103.5: Emprehend the importance of quantum physics.  103.6: Emprehend and apply quantum mechanical principles
(C103)		
		C103.5: Comprehend the importance of quantum physics.
		C103.6: Comprehend and apply quantum mechanical principles towards the formation of energy bands.

#### **CO-PO MAPPING**

СО					PRO	GRAN	1 OUT	COMI	ES				PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C103.1	3	3	2	1	ı	1	1	-	ı	1	ı	1	ı	-	-
C103.2	3	3	2	1	-	1	1	-	-	1	-	-	-	-	-
C103.3	3	3	-	-	-	-	-	-	-	1	-	-	-	-	-
C103.4	3	3	2	-	-	1	1	-	-	1	-	-	-	-	-
C103.5	3	3	2	-	-	1	1	-	-	1	-	-	-	-	-
C103.6	3	3	2	1	-	1	1	-	-	1	-	1	-	-	-
C103	3	3	2	1	•	1	1	-	•	1	•	1	•	-	-

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to						
		C104.1: Describe the quality of water from quality parameter data and propose suitable treatment methodologies to treat water.						
		C104.2: Apply basic concepts of nanoscience and nanotechnology in designing the synthesis of nanomaterials for engineering and technology applications.						
CY3151	ENGINEERING	C104.3:  Use the knowledge of phase rule and composites for material selection requirements.						
(C104)	CHEMISTRY	C104.4: Explain the recommend suitable fuels for engineering processes and applications.						
		C104.5: Discuss the different forms of energy resources and apply them for suitable applications in energy sectors.						
		C104.6:  Determine the importance of engineering materials, fuels energy sources and water treatment techniques will facilit better understanding of engineering processes and applications for further learning.						

	CO-1 O MAITING														
CO					P	ROGI	RAM C	OUTCO	OMES				PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C104.1	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
C104.2	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
C104.3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
C104.4	3	2	2	-	-	1	1	-	-	-	-	-	-	-	-
C104.5	3	2	2	-	-	1	1	-	-	-	-	-	-	-	-
C104.6	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
C104	3	2	2	1	-	1	1	-	-	-	-	1	•	-	-

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C105.1: Develop algorithmic solutions to simple computational problems.  C105.2: Design and execute simple Python programs.
GE3151 (C105)	PROBLEM SOLVING AND PYTHONP ROGRAMMING	C105.3: Write simple Python programs using conditionals and loops for solving problems.
		C105.4: Describe a Python program into functions.
		C105.5: Discuss compound data using Python lists, tuples, dictionaries etc.
		C105.6: Explain the importance of Read and write data from/to files in Python programs.

#### **CO-PO MAPPING**

СО						PR	OGRA	M OU	TCON	MES			PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C105.1	3	3	2	2	2	ı	ı	ı	2	2	2	ı	3	1	1
C105.2	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.3	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.4	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.5	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.6	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105	3	3	2	2	2	•	•	•	2	2	2	•	3	•	1

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

## COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C106.1: Discuss the Tamil language and literature.  C106.2:
GE3152	HERITAGE OF TAMILS	Explain about the modern-art sculpture.  C106.3:  Illustrate the folk and martial arts.
(C106)		C106.4: Describe the Thinai concepts of Tamil. C106.5:
		Summarize the contribution of Tamil in Indian culture.
		C106.6: Define the role of siddha medicine.

#### **CO-PO MAPPING**

CO					I	PROG	RAM (	OUTC	OMES				PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C106.1	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.2	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.3	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.4	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.5	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.6	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C107.1:  Develop algorithmic solutions to simple computational problems
		C107.2: Design and execute simple Python programs.
GE3171 (C107)	PROBLEM SOLVING AND PYTHON PROGRAMMING	C107.3: Implement programs in Python using conditionals and loops for solving problems.
(C107)	LABORATORY	C107.4:  Describe functions to decompose a Python program.
		C107.5: Explain compound data using Python data structures.
		C107.6: Utilize Python packages in developing software applications.

#### **CO-PO MAPPING**

СО						PRO	)GRA	M OU	ГСОМ	IES			PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C107.1	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.2	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.3	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.4	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.5	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.6	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
BS3171 (C108)	PHYSICS AND CHEMISTRY  LABORATORY	C108.1: Explain the functioning of various physics laboratoryequipment  C108.2: Use graphical models to analyze laboratory data.  C108.3: Apply mathematical models as a medium for quantitative reasoning and describing physical reality.  C108.4: Describe products and processes and explain Their uses and purposes clearly and accurately C Access, process and analyze scientific information.  C108.5: Solve problems individually and collaboratively.  C108.6: Determine the amount of metal ions through volumetric and spectroscopic techniques.

СО	PROGRAM OUTCOMES												PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
C108.1	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	
C108.2	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	
C108.3	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	
C108.4	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	
C108.5	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	
C108.6	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	
C108	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
GE3172 (C109)	ENGLISH LABORATORY	C109.1: Describe and comprehend general as well as complex academic information.  C109.2: Explain different points of view in a discussion.  C109.3: Explain formal and informal communicative contexts.  C109.4: Describe products and processes and explain their uses and purposes clearly and accurately.  C109.5: Express their opinions effectively in both formal and informal discussions.  C109.6: Use language efficiently in expressing their opinions via various media.

#### **CO-PO MAPPING**

СО						PRO	GRAN	M OUT	СОМ	ES			PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
C109.1	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	
C109.2	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	
C109.3	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	
C109.4	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	
C109.5	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	
C109.6	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	
C109	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-	

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

# II SEMESTER

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C110.1: Compare and contrast products and ideas in technical texts.
		C110.2: Identify and report cause and effects in events, industrial processes through technical texts.
HS3252 (C110)	PROFESSIONAL	C110.3: Analyse problems in order to arrive at feasible solutions and communicate them in the written format.
(C110)	ENGLISH-II	C110.4: Explain the importance of present their ideas and opinions in a planned and logical manner.
		C110.5: Design effective resumes in the context of job search.
		C110.6: Demonstrate an understanding of job applications and interviews for internship and placements.

СО						PRO	GRAN	1 OUT	COM	ES			PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C110.1	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.2	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.3	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.4	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.5	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.6	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C111.1: Apply the concept of testing of hypothesis for small and large samples in real life problems.
		C111.2: Apply the basic concepts of classifications of design of experiments in the field of agriculture.
NA A 2251	STATISTICS AND	C111.3:  Describe the numerical techniques of interpolation in various intervals.
MA3251 (C111)	NUMERICAL METHODS	C111.4: Apply the numerical techniques of differentiation and integration for engineering problems.
		C111.5: Explain various techniques and methods for solving first and second order ordinary differential equations.
		C111.6:  Describe the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.

СО						PRO	OGRA	M OU	TCOM	IES			PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
C111.1	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-	
C111.2	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-	
C111.3	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-	
C111.4	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-	
C111.5	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-	
C111.6	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-	
C111	3	3	3	2	-	-	•	•	-	1	-	1	•	2	-	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C112.1: Illustrate the basics of dielectric materials and insulation.  C112.2:
		Gain knowledge on the electrical and magnetic properties of materials and their applications
PH3256	PHYSICS FOR INFORMATION	C112.3: Explain clearly of semiconductor physics and functioning of semiconductor devices
(C112)	SCIENCE	C112.4: Describe the optical properties of materials.
		C112.5: Discuss the working principles of various optical devices.
		C112.6: Appreciate the importance of nanotechnology and nanodevices.

СО		PROGRAM OUTCOMES													PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		
C112.1	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		
C112.2	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		
C112.3	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		
C112.4	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		
C112.5	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		
C112.6	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		
C112	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-		

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
BE3251 (C113)	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	C113.1: Observe the profession of Civil and Mechanical engineering. C113.2: Summarize the planning of building, infrastructure and working of Machineries. C113.3: Apply the knowledge gained in respective discipline C113.4: Illustrate the ideas of Civil Engineering applications. C113.5: Describe the ideas of Mechanical Engineering applications. C113.6: Appraise the material, Structures, machines and
		energy.

СО						PRO	GRA	M OUT	гсом	ES			PSO				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		
C113.1	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		
C113.2	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		
C113.3	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		
C113.4	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		
C113.5	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		
C113.6	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		
C113	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-		

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C114.1: Use BIS conventions and specifications for engineering drawing.
		C114.2: Construct the conic curves, involutes and cycloid.
GE3251 (C114)	ENGINEERING GRAPHICS	C114.3: Solve practical problems involving projection of lines.
		C114.4: Draw the orthographic, isometric and perspective projections of simple solids.
		C114.5: Draw the development of simple solids.
		C114.6: Draw engineering curves

СО	PROGRAM OUTCOMES												PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
C114.1	3	2	2	-	2	-	2	-	ı	2	ı	2	2	2	-	
C114.2	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-	
C114.3	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-	
C114.4	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-	
C114.5	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-	
C114.6	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-	
C114	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C115.1: Illustrate the constructs of C Language.
		C115.2: Develop C Programs using basic programming constructs
CS3251	PROGRAMMING IN C	C115.3: Analyse C programs using arrays and strings
(C115)		C115.4: Illustrate modular applications in C using functions
		C115.5: Create applications in C using pointers and structures
		C115.6: Construct the importance of input/output and file handling in C

#### **CO-PO MAPPING**

CO		PROGRAM OUTCOMES													PSO		
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3		
C115.1	3	2	2	1	2	1	1	1	2	-	3	2	1	2	-		
C115.2	3	3	3	1	2	1	1	1	2	-	3	3	2	2	-		
C115.3	3	3	2	1	2	1	1	1	2	-	3	2	2	2	-		
C115.4	3	2	2	1	3	1	1	1	2	-	3	3	2	2	-		
C115.5	3	3	3	1	2	1	2	1	2	-	3	2	2	3	-		
C115.6	3	3	3	2	1	2	-	-	2	1	2	2	2	2	-		
C115	3	2.6	2.5	1.2	2	1.2	1	1	2	1	2.8	2.3	1.8	2.1	-		

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
		C116.1: Explain about the weaving and pottery technology in Tamilnadu.
		C116.2: Describe about the design and construction technology in Tamilnadu.
GE3252		C116.3: Discuss about the manufacturing technology in Tamilnadu.
(C116)	TECHNOLOGIES	C116.4: Illustrate the agriculture and irrigation technology in Tamilnadu.
		C116.5: Define the growth of science in Tamil.
		C116.6: Learn the contribution of the Tamils to Indian culture.

#### **CO-PO MAPPING**

co		PROGRAM OUTCOMES													PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3		
C116.1	-	-	-	-	-	3	3	2	-	2	-	2	-	-	1		
C116.2	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-		
C116.3	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-		
C116.4	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-		
C116.5	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-		
C1116.6	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-		
C116	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-		

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

	0001182 00100	
Course Code	Course Name	Course Outcome(CO) Students will be able to
		C118.1: Draw pipe line plan; lay and connect various pipe fittings used in common household plumbing work; Saw; plan;  C118.2: Explain various joints in wood materials used in common household wood work.
GF24F4	ENGINEERING PRACTICES	C118.3: Design various wire electrical joints in common household electrical wire work.
GE3271 (C118)	LABORATORY	C118.4: Weld various joints in steel plates using arc welding work; Machine various simple processeslike turning, drilling, tapping in parts; Assemble simple mechanical assembly of common household equipments.
		C118.5: Solder and test simple electronic circuits; Assemble and test simple electronic components on PCB.
		C118.6: Design a tray out of metal sheet using sheet metal work.

#### **CO-PO MAPPING**

СО		PROGRAM OUTCOMES													PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3			
C118.1	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1			
C118.2	3	2	2	2	-	2	2	-	2	2	1	1	2	1	1			
C118.3	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1			
C118.4	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1			
C118.5	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1			
C118.6	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1			
C118	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1			

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome(CO) Students will be able to
CS3271 (C119)	PROGRAMMING IN C LABORATORY	C119.1: Demonstrate knowledge on C programming constructs.  C119.2: Evaluate programs in C using basic constructs  C119.3: Create programs in C using arrays.  C119.4: Design applications in C using strings, pointers, functions.  C119.5: Develop applications in C using structures.  C119.6: Construct the importance of C using file processing.

#### **CO-PO MAPPING**

CO		PROGRAM OUTCOMES													PSO		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3		
C119.1	3	3	3	2	1	1	-	-	2	1	2	2	2	2	-		
C119.2	3	3	3	3	1	1	-	-	2	1	2	2	2	3	-		
C119.3	3	3	3	2	1	2	-	-	2	-	2	2	2	2	-		
C119.4	3	3	3	2	1	2	-	-	3	-	3	3	3	2	-		
C119.5	3	3	3	2	3	2	-	-	3	-	3	3	3	3	-		
C119.6	3	3	3	2	1	2	-	-	2	1	2	2	2	2	-		
C119	3	3	3	2.1	1.3	1.6	-	-	2.3	1	2.3	2.3	2.3	2.3	-		

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Name	Course Outcome(CO)								
	Students will be able to								
COMMUNICATION LABORATORY	C120.1: Speak effectively in group discussions held in formal/semi formal contexts.  C120.2: Discuss, analyse and present concepts and problems from various perspectives to arrive at suitable solutions.  C120.3: Write emails, letters and effective job applications.  C120.4: Write critical reports to convey data and information with clarity and precision.  C120.5: Give appropriate instructions and recommendations for safe execution of tasks.  C120.6: Discuss the safety issues about electrical devices.								
	COMMUNICATION								

#### **CO-PO MAPPING**

CO		PROGRAM OUTCOMES												PSO				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3			
C120.1	3	3	3	3	3	3	3	3	3	3	3	3	-	-	1			
C120.2	3	3	3	3	3	3	3	3	3	3	3	3	-	-	1			
C120.3	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-			
C120.4	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-			
C120.5	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-			
C120.6	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-			
C120	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-			



(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

# III SEMESTER

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C201.1: Explain the concepts needed to test the logic of a program.
		C201.2: Describe the identifying structures on many levels.
MA3354	DISCRETE MATHEMATICS	C201.3: Explain the importance of class functions which transform a finite set into another finite set which relates to input and output functions in computer science.
(C201)		C201.4: Apply counting principles.
		C201.5: Explain concepts and properties of algebraic structures such as groups, rings and fields.
		C201.6:
		Compute the concepts and significance of lattices and boolean algebra which are widely used in computer science and engineering.

CO-PO MAPPI	live															
COURSE	PROGRAM OUTCOMES													PSO		
OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	
C201.1	3	3	2	2	-	-	-	-	-	-	-	2	-	-	-	
C201.2	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	
C201.3	3	3	2	2	-	2	-	-	-	3	-	-	-	-	-	
C201.4	3	2	2	2	-	-	-	-	-	-	-	-	-	-	-	
C201.5	3	2	2	2	-	-	-	-	-	2	-	-	-	-	-	
C201.6	3	2	2	1	-	-	-	-	-		-	-	-	-	-	
C201	3	2.5	2	1.8	-	2	-	-	-	2.5	-	2	-	-	-	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

## COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C202.1: Design various combinational digital circuits using logic gates
	AND COMPUTER	C202.2: Analyze sequential circuits and the design procedures
CS3351		C202.3: Examine the characteristics of I/O communication
(C202)		C202.4: Analyze different types of control design and identify hazards
		C202.5: Explain the characteristics of various memory systems
		C202.6: Evaluate the fundamentals of computer systems and analyze the execution of an instruction

		PROGRAM OUTCOMES													PSO		
COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12	PSO 1	PSO 2	PSO 3		
C202.1	3	3	3	3	3	2	1	1	1	1	2	3	2	3	3		
C202.2	3	3	3	3	2	1	1	1	1	1	2	3	1	2	2		
C202.3	3	3	3	3	2	2	1	1	1	1	2	3	2	3	1		
C202.4	3	3	3	3	1	1	1	1	1	1	2	1	1	3	1		
C202.5	3	3	3	3	1	2	1	1	1	1	1	1	1	2	1		
C202.6	3	3	3	3	2	2	1	1	1	1	1	1	2	3	1		
C202	3.0	3.0	3.0	3.0	1.8	1.6	1.0	1.0	1.0	1.0	1.6	2	1.5	2.6	1.5		

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3352 (C203)	FOUNDATIONS OF DATA SCIENCE	C203.1: Examine the data science process  C203.2: Classify different types of data description for data science process  C203.3: Explain the importance of relationships between data  C203.4:
		C203.5: Classify visualization Libraries in Python to interpret and explore data  C203.6: Recommend Pandas for data manipulation.

#### **CO-PO MAPPING**

СО	PROGRAM OUTCOMES													PSO		
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	
C203.1	3	2	2	2	2	-	-	-	1	1	1	2	2	2	2	
C203.2	3	3	2	2	1	-	-	-	2	1	1	2	2	3	1	
C203.3	3	3	2	2	2	1	1	-	1	2	1	3	2	2	3	
C203.4	3	2	2	2	2	-	-	-	1	1	2	2	3	3	2	
C203.5	3	3	2	2	2	-	-	-	1	1	1	2	2	2	2	
C203.6	3	3	3	3	2	-	-	-	1	1	1	2	2	2	2	
C203	3	2.6	2.1	2.1	1.8	1	1	-	1.1	1.1	1.1	2.1	2.1	2.3	2	

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C204.1: Determine linear and non-linear data structures.
	CS3301 DATA STRUCTURES	C204.2: Explain linear data structure operations.
CS3301		C204.3: Examine non–linear data structure operations on various applications.
(C204)		C204.4: Illustrate appropriate linear/non–linear data structure operations for solving a given problem.
		C204.5: Apply appropriate graph algorithms for graph applications.
		C204.6: Analyze the various searching and sorting algorithms.

#### **CO-PO MAPPING**

CO				]	PROG	RAM	OUTC	OMES	8				PSO		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO1 2	PSO 1	PSO 2	PSO 3
C204.1	3	3	3	3	2	1	1	-	1	2	1	3	2	1	1
C204.2	3	3	2	2	2	-	-	-	1	1	1	2	2	2	1
C204.3	3	2	2	2	2	-	-	-	1	1	1	2	2	1	1
C204.4	3	2	2	2	1	-	-	-	2	1	1	2	2	3	1
C204.5	3	2	2	2	2	-	-	-	1	2	1	3	2	2	1
C204.6	3	3	2	2	2	1	1	-	1	1	1	1	2	1	1
C204	3.0	2.5	2.2	2.2	1.8	1.0	1.0	-	1.2	1.3	1.0	2.2	2.0	1.2	1.3

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

ourse Code	Course Name	Course Outcome (CO) Students will be able to
		C205.1: Apply the concepts of classes and objects to solve simple problems  C205.2: Design programs using inheritance, packages and interfaces  C205.3: Explain the use of exception handling mechanisms to solve real
CS3391 (C205)		world problems  C205.4: Apply the concept of multithreaded model to solve real world problems
		C205.5: Design Java applications with I/O packages, string classes, Collections and generics concepts
		C205.6: Determine the concepts of event handling and JavaFX components and controls for developing GUI based applications

	PROGRAM OUTCOMES										PSO				
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12	PS O 1	PSO 2	PSO 3
C205.1	3	2	2	2	2	-	-	-	3	2	2	2	3	1	2
C205.2	3	3	3	2	1	-	-	-	2	1	1	3	3	3	2
C205.3	3	3	2	2	2	-	-	-	3	2	1	2	3	1	3
C205.4	3	2	2	2	2	-	-	-	1	2	1	2	3	1	1
C205.5	3	3	3	2	2	-	-	-	3	2	1	2	3	3	3
C205.6	3	3	3	3	2	-	-	-	2	2	1	2	3	2	2
C205	3.0	2.7	2.5	2.2	1.8	-	-	-	2.3	1.8	1.2	2.2	3.0	2.3	1.8

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C206.1: Evaluate Linear data structure algorithms on various applications.
		C206.2: Design applications using Stacks and Linked lists
CS3311	DATA STRUCTURES	C206.3: Determine Binary Search tree and AVL tree operations.
(C206)	LABORATORY	C206.4: Explain the importance of graph algorithms.
		C206.5: Analyze the various sorting algorithms.
		C206.6: Analyze the various searching algorithms.

													1		
CO		PROGRAM OUTCOMES										PSO			
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C206.1	3	3	3	3	-	-	-	-	2	1	2	2	2	2	3
C206.2	3	3	3	2	-	-	-	-	1	1	1	3	1	2	2
C206.3	3	3	3	3	-	-	-	-	1	1	2	3	3	3	3
C206.4	3	3	2	2	-	-	-	-	1	2	3	3	2	1	2
C206.5	3	3	2	2	2	-	-	-	3	3	3	1	3	1	3
C206.6	3	3	2	2	2	-	-	-	1	2	3	3	3	1	3
C206	3.0	3.0	2.5	2.3	2.0	-	-	-	1.5	1.7	2.3	2.5	2.3	1.5	1.7

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C207.1: Develop java programs using object oriented programming concepts
		C207.2: Construct simple applications using object oriented concepts such as package, exceptions
CS3381	OBJECT ORIENTED PROGRAMMING	C207.3: Explain multithreading concepts
(C207)	LABORATORY	C207.4: Create GUIs and event driven programming applications for real world problems
		C207.5: Design and deploy web applications using Java
		C207.6: Describe about generics concepts

CO	PROGRAM OUTCOMES										PSO				
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C207.1	3	3	3	2	-	-	-	-	1	2	2	2	1	2	3
C207.2	3	3	3	2	-	-	-	-	2	3	3	2	1	3	1
C207.3	3	3	2	2	1	-	-	-	1	2	1	3	2	3	2
C207.4	3	3	3	2	-	-	-	-	3	1	1	1	2	1	2
C207.5	3	3	3	3	3	-	-	-	1	1	1	1	2	1	2
C207.6	3	3	3	3	1	-	-	-	1	2	1	3	2	3	2
C207	3.0	3.0	2.8	2.3	1.7	-	-	-	1.5	1.8	1.5	2. 0	1.7	1.5	1.8

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C208.1: Apply python libraries for data science
		C208.2: Explain the basic Statistical measures for data science.
CS3361	DATA SCIENCE	C208.3: Describe Probability measures for data science.
(C208)	LABORATORY	C208.4: Illustrate descriptive analytics on the benchmark data sets.
		C208.5: Apply correlation and regression analytics on standard data sets
		C208.6: Explain and interpret data using visualization packages in Python.

#### **CO-PO MAPPING**

CO	PROGRAM OUTCOMES											PSO			
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C208.1	3	3	3	3	2	-	-	-	1	3	3	3	1	3	2
C208.2	3	3	3	3	2	-	-	-	3	1	3	2	1	3	3
C208.3	3	3	3	3	2	-	-	-	3	1	3	2	1	3	3
C208.4	3	3	3	3	2	-	-	-	2	1	1	1	3	2	3
C208.5	3	3	3	3	2	-	-	-	2	3	2	3	3	3	1
C208.6	3	3	3	3	2	-	-	-	2	1	3	1	1	3	3
C208	3.0	3.0	3.0	3.0	2.0	-	-	-	2.2	1.7	2.5	2.0	1.7	2.2	1.7

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3361 (C209)	PROFESSIONAL DEVELOPMENT	Use of MS Word to create quality documents, by structuring and organizing content for their day to day technical and academic requirements  C209.2: ApplyMSEXCELtoperformdataoperations and analytics, record, retrieve data as per requirements and visualize data for ease of understanding  C209.3: Prepare MS EXCEL to visualize data for ease of understanding  C209.4: LoadMSEXCELtovisualizedataforease of understanding  C209.5: ExplainMSPowerPointtocreatehighquality academic presentations by including common tables, charts, graphs  C209.6: OperateMSPowerPointto interlinking other elements, and using mediaobjects.

CO		PROGRAM OUTCOMES										PSO			
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8 PO9		PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C209.1	3	2	2	1	1	-	-	-	-	-	-	-	-	-	1
C209.2	3	2	2	1	1	-	-	-	-	-	-	-	-	-	1
C209.3	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
C209.4	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
C209.5	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
C209.6	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-
C209	3	2	2	1	1	-	-	-	-	-	-	-	-	-	-

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation



(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

# IV SEMESTER

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

## COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3452 (C210)	THEORY OF COMPUTATION	C210.1: Construct automata theory using Finite Automata  C210.2: Write regular expressions for any pattern  C210.3: Design context free grammar  C210.4: Design Turing machine for computational functions  C210.5: Differentiate between decidable and undecidable problems  C210.6:
		Design Pushdown Automata

GO.	PROGRAM OUTCOMES												PSO			
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	
C210.1	3	3	2	2	1	-	-	-	1	1	1	1	2	2	2	
C210.2	2	2	2	2	1	-	-	-	1	1	1	1	2	2	2	
C210.3	2	2	2	2	1	-	-	-	1	1	1	1	2	2	2	
C210.4	2	2	2	1	1	-	-	-	1	1	1	1	2	2	2	
C210.5	2	2	2	1	1	-	-	-	1	1	1	1	3	3	3	
C210.6	3	2	2	2	1	-	-	-	1	1	1	1	2	2	2	
C210	2.3	2.2	2.0	1.7	1.0	-	-	-	1.0	1.0	1.0	1.0	2.2	1.0	1.0	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C211.1: Apply appropriate search algorithms for problem solving
		C211.2: illustrate reasoning under uncertainty
	ARTIFICIAL	C211.3:
CS3491 (C211)	INTELLIGENCE AND	Design supervised learning models
(===)	MACHINE LEARNING	C211.4: Develop unsupervised learning models
		C211.5: Describe deep learning neural network models
		C211.6: Design ensampling models

СО	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	3	2	2	3	-	-	-	-	1	3	3	3	1	2	2	
C211.2	1	1	1	1	1	-	-	-	1	2	1	3	2	3	2	
C211.3	2	2	2	1	1	-	-	-	2	1	1	3	1	1	1	
C211.4	3	3	3	1	-	-	-	-	2	1	2	1	2	2	2	
C211.5	3	2	1	1	2	-	-	-	3	1	2	3	2	1	2	
C211.6	2	1	1	1	1	-	-	-	2	1	2	1	2	2	2	
C211	2.3	1.8	1.7	1.3	1.3	-	-	-	1.8	1.5	1.8	2.3	1.7	1.8	1.5	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C212.1: Construct SQL Queries using relational algebra
		C212.2: Define database using ER model and normalize the database
CC2.402	DATABASE	C212.3: Construct queries to handle transaction processing and maintain consistency of the database
CS3492 (C212)	MANAGEMENT SYSTEMS	C212.4: Compare and contrast various indexing strategies
		C212.5: Explain how advanced databases differ from Relational Databases and find a suitable database for the given requirement.
		C212.6: Apply the knowledge to tune the performance of the database

#### **CO-PO MAPPING**

СО		PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO1 1	PO 12	PS O 1	PSO 2	PSO 3	
C212.1	3	3	3	2	1	-	-	-	2	1	1	1	2	1	3	
C212.2	3	3	2	1	1	-	-	-	2	3	3	3	3	1	2	
C212.3	3	2	2	2	1	-	-	-	2	1	1	2	2	3	3	
C212.4	3	3	3	3	-	-	-	-	3	2	3	3	1	2	3	
C212.5	3	3	2	2	2	-	-	-	1	3	3	1	2	2	2	
C212.6	3	2	2	2	1	-	-	-	2	1	1	2	2	3	3	
C212	3.0	2.7	2.3	2.0	1.2	-	-	-	2.0	1.8	2.0	2.0	2.0	2.0	1.8	

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to						
		C213.1: Illustrate the efficiency of algorithms using various frameworks.						
		C213.2: Apply graph algorithms to solve problems and analyze their efficiency.						
CS3401 (C213)	ALGORITHMS	C213.3:  Make use of algorithm design techniques like divide and conquer, dynamic programming and greedy techniques to solve problems.						
		C213.4: Describe state space tree method for solving problems.						
		C213.5: Solve problems using approximation algorithms.						
		C213.6: Classify the importance of randomized algorithms for problem solving.						

СО		PROGRAM OUTCOMES													PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO1	PS O 1	PSO 2	PSO 3		
C213.1	3	2	1	1	-	-	1	ı	1	3	-	1	ı	1	1		
C213.2	2	2	1	1	-	-	1	-	3	2	-	1	-	1	1		
C213.3	3	3	3	1	-	-	2	-	3	3	-	-	-	1	1		
C213.4	1	1	1	1	-	-	-	-	3	1	-	-	-	-	1		
C213.5	1	1	1	1	-	-	-	-	1	2	-	-	-	-	1		
C213.6	2	2	1	1	-	-	1	-	3	3	-	1	-	1	-		
C213	2.0	1.8	1.3	1.0	-	-	1.3	1	2.3	2.3	-	1.0	1	1.0	1.0		

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3451 (C214)	INTRODUCTION TO OPERATING SYSTEMS	C214.1: Discuss basic functions of operating systems, processes and threads  C214.2: Analyze various scheduling algorithms and process synchronization.  C214.3: Explain deadlock prevention and avoidance algorithms.  C214.4: Compare and contrast various memory management schemes.  C214.5: Explain the functionality of file systems, I/O systems, and Virtualization  C214.6: Compare iOS and Android Operating Systems

				]	PROG	RAM	OUTC	COME	S				PSO		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO1 1	PO 12	PS O 1	PSO 2	PSO 3
C214.1	3	2	2	2	ı	ı	-	ı	3	2	3	1	1	2	2
C214.2	2	2	2	1	1	-	-	-	2	1	1	2	2	1	2
C214.3	3	3	2	2	1	-	-	-	2	2	1	1	1	2	2
C214.4	3	3	3	3	-	-	-	-	1	2	1	2	1	3	2
C214.5	3	1	1	1	1	-	-	-	3	2	3	2	2	2	1
C214.6	2	1	1	1	-	-	-	-	3	2	3	1	1	2	2
C214	2.7	2.0	1.8	1.7	1.0	-	-	1	2.3	1.8	2.0	1.5	1.3	2.3	1.8

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3451 (C215)	ENVIRONMENTAL SCIENCES AND	C215.1: Explain the importance of environment, need for public awareness and types of biodiversity C215.2: Describe about environmental pollution, environmental protection and environmental protection acts. C215.3: Summarize renewable sources of energy C215.4:
	SUSTAINABILITY	Discover sustainability concept, needs and challenges  C215.5:
		Discuss about material life cycle assessment, energy cycles and carbon cycle
		C215.6: Explain about Zero waste and R concept

#### **CO-PO MAPPING**

				F	PROG	RAM (	OUTC	OMES	5				PSO		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
C215.1	2	1	-	-	-	2	3	-	-	-	-	2	-	-	-
C215.2	3	2	-	-	-	3	3	-	-	-	-	2	-	-	-
C215.3	3	2	1	-	-	2	2	-	-	-	-	2	-	-	-
C215.4	3	2	1	1	-	2	2	-	-	-	-	2	-	-	-
C215.5	3	2	1	-	-	2	2	-	-	-	-	1	-	-	-
C215.6	3	2	1	1	-	2	2	-	-	-	-	2	-	-	-
C215	2.8	1.8	1.0	1.0	-	2.2	2.3	-	-	-	-	1.8	-	-	-

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C217.1: Discuss and implement UNIX Commands.
		C217.2: Analyse the performance of various CPU Scheduling Algorithms.
CS3461	OPERATING SYSTEMS	C217.3: Compare and contrast various Memory Allocation Methods.
(C217)	LABORATORY	C217.4: Explain File Organization and File Allocation Strategies.
		C217.5: Illustrate various Disk Scheduling Algorithms.
		C217.6: Explain Deadlock Avoidance and Deadlock Detection Algorithms

		PROGRAM OUTCOMES													PSO		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO1 1	PO 12	PSO 1	PSO 2	PSO 3		
C217.1	2	1	1	1	1	-	-	-	1	3	3	3	2	1	3		
C217.2	3	3	2	2	2	-	-	-	3	2	1	1	3	1	2		
C217.3	3	3	2	1	2	-	-	-	3	3	1	2	2	2	2		
C217.4	2	2	2	1	2	-	-	-	3	1	3	1	1	2	1		
C217.5	2	2	1	1	3	-	-	-	1	2	2	3	1	3	3		
C217.6	3	3	2	1	2	-	-	-	3	3	1	2	2	2	2		
C217	2.5	2.3	1.7	1.2	2.0	-	-	-	2.3	2.3	1.8	2.0	1.8	2.3	2.3		

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

## COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C218.1: Investigate databases with different types of key constraints.
	DATABASE	C218.2: Illustrate simple and complex SQL queries using DML and DCL commands.
CS3481	MANAGEMENT	C218.3: Classify advanced features such as stored procedures and triggers and incorporate in GUI based application
(C218)	SYSTEMS	development C218.4:
	LABORATORY	Examine an XML database and validate with meta-data (XML schema).
		C218.5: Create and manipulate data using NOSQL database.
		C218.6: Create nested and joint queries.

#### **CO-PO MAPPING**

		PROGRAM OUTCOMES													PSO		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO1 1	PO 12	PSO 1	PSO 2	PSO 3		
C218.1	3	3	3	3	-	-	-	-	3	1	3	2	2	3	2		
C218.2	2	2	2	2	2	-	-	-	1	2	3	3	2	1	2		
C218.3	3	3	2	1	1	-	-	-	1	1	1	3	2	3	3		
C218.4	2	2	2	1	1	-	-	-	1	1	3	2	3	1	3		
C218.5	3	2	1	1	1	-	-	-	2	2	3	1	3	1	2		
C218.6	3	3	2	1	1	-	-	-	1	1	1	3	2	3	3		
C218	2.7	2.5	2.0	1.5	1.2	-	-	-	1.5	1.3	2.3	2.3	2.3	1.5	1.3		



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

Kaikkurichi, Pudukkottai – 622 303

# V SEMESTER

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to							
		C301.1: Discuss the basic layers and its functions in computer networks  C301.2: Determine the basics of how data flows from one node to another							
CS3591 (C301)	COMPUTER NETWORKS	C301.3: Explain the protocol for congestion avoidance and QOS  C301.4:							
		Analyze routing algorithms  C301.5:  Classify protocols for various functions in the Network for routing the packets.							
		C301.6: Analyze the working of various application layer protocols.							

						PROC	GRAM	OUTC	COME	S			PSO			
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C301.1	2	2	1	1	-	-	-	_	-	-	-	-	3	_	_	
C301.2	2	1	1	1	2	-	-	-	-	-	-	2	-	2	-	
C301.3	2	1	1	1	2	-	-	-	-	-	-	2	-	2	-	
C301.4	2	2	1	1	3	-	-	-	-	-	-	-	-	3	-	
C301.5	3	3	2	1	2	-	-	-	-	3	-	-	-	-	-	
C301.6	3	3	2	1	-	-	-	-	-	-	-	-	-	-	3	
C301	2.3	2	1.3	1	2.3	-	-	-	-	3	•	2	3	2.3	3	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3501 (C302)	COMPILER DESIGN	Investigate the techniques in different phases of a compiler.  C302.2:  Determine a lexical analyser for a sample language and learn to use the LEX tool.  C302.3:  Classify different parsing algorithms to develop a Parser and learn to use YACC tool  C302.4:  Discuss semantics rules (SDT), intermediate code generation and run  C302.5:  Develop code generation  C302.6:  Design code optimization techniques.

СО	PROGRAM OUTCOMES												PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C302.1	3	3	3	3	-	-	-	-	3	3	1	3	2	3	2	
C302.2	3	3	3	3	3	-	-	-	3	2	3	2	2	1	2	
C302.3	3	3	2	2	3	-	-	-	3	1	1	1	2	2	3	
C302.4	3	2	2	1	1	-	-	-	2	3	2	3	1	2	1	
C302.5	3	3	3	1	1	-	-	-	2	1	1	3	2	1	2	
C302.6	3	3	3	1	1	-	-	-	2	1	1	3	2	1	2	
C302	3	2.8	2.7	1.8	1.8	-	-	-	2.5	1.8	1.5	2.5	1.8	1.7	2	

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		C303.1: Illustrate the fundamentals of networks security, security architecture, threats and vulnerabilities  C303.2: Compare the different cryptographic operations of symmetric cryptographic algorithms
CS3491 (C303)	CRYPTOGRAPHY AND CYBER SECURITY	C303.3: Investigate the different cryptographic operations of public key cryptography
		C303.4: Apply the various Authentication schemes to simulate different applications.
		C303.5: Examine various cyber crimes and cyber security
		C303.6: Classify various cyber security.

#### **CO-PO MAPPING**

СО						PRO	GRAN	1 OUT	COM	ES			PSO			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	
C303.1	3	2	2	2	2		-	-	1	-	-	1	2	3	3	
C303.2	3	3	3	3	3		-	ı	2	1	ı	1	3	3	3	
C303.3	3	3	3	3	3		-	-	2	-	-	1	3	3	3	
C303.4	3	3	3	3	3		-	-	2	-	-	1	3	3	3	
C303.5	3	2	2	2	3		-	-	3	-	-	2	3	2	3	
C303.6	3	2	2	2	3		-	-	3	-	-	2	3	2	-	
C303	3	2.5	2.5	2.5	2.8		-	ı	2.2	•	•	1.3	2.8	2.7	3	

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3551 (C304)	DISTRIBUTED COMPUTING	C304.1:  Determine the foundations of distributed systems  C304.2: Classifysynchronization problems  C304.3: Analyse consistency problems  C304.4: Investigate resource sharing techniques in distributed systems  C304.5: Compare working model of consensus and reliability of distributed systems  C304.6: Explain the fundamentals of cloud computing

#### **CO-PO MAPPING**

СО			PSO												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C304.1	3	3	3	3	1	-	-	-	2	1	3	3	2	1	1
C304.2	3	3	2	1	2	-	-	-	2	2	2	2	1	3	2
C304.3	3	3	2	1	2	-	-	-	2	2	2	2	1	3	2
C304.4	3	3	3	3	3	-	-	-	3	2	1	1	1	2	1
C304.5	3	3	3	3	1	-	-	-	3	3	2	1	3	1	1
C304.6	3	3	2	1	3	-	-	-	3	3	3	1	3	2	3
C304	3	3	2.5	2	2	-	-	-	2.5	2.2	2.2	1.7	1.8	2	1.7

(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

## COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CCS375 (C305)	WEB TECHNOLOGIES	C305.1: Determine a basic website using HTML and Cascading Style Sheets  C305.2: Discuss dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.  C305.3: Develop server side programs using Servlets and JSP.  C305.4: Construct simple web pages in PHP and to represent data in XML format.  C305.5: Develop interactive web applications using Angular JS  C305.6: Design web application using different framework and tools.

СО						PRO	GRAM	OUT	COME	ES				PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C305.1	3	3	3	3	3	-	-	-	1	3	3	1	3	2	3
C305.2	2	2	2	1	2	1	-	-	2	2	1	3	2	2	2
C305.3	3	3	3	2	3	-	-	-	1	2	1	1	1	2	1
C305.4	3	3	3	1	2	-	-	-	3	1	2	2	2	2	2
C305.5	3	3	3	2	2	-	-	-	2	1	3	1	1	2	2
C305.6	3	3	3	2	2	-	-	-	2	1	2	1	1	1	2
C305	2.8	2.8	2.8	1.8	2.3	-	-	-	1.8	1.7	2.0	1.5	1.7	1.8	2.0

<sup>\*3-</sup>High Correlation; 2-Medium Correlation; 1-Low Correlation; '-' - No Correlation



(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021

#### COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
CCS367 (C306)	STORAGE TECHNOLOGIES	C306.1: Demonstrate the fundamentals of information storage management  C306.2: Explain various models of Cloud infrastructure services and deployment  C306.3: Illustrate the usage of advanced intelligent storage systems and RAID  C306.4:
		Interpret various storage networking architectures - SAN, including storage subsystems and virtualization  C306.5:  Examine the different role in providing disaster recovery and remote replication technologies  C306.6:  Infer the security needs and security measures to be employed in information storage management

#### **CO-PO MAPPING**

СО		PROGRAM OUTCOMES													PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3		
C306.1	1	2	1	3	3	-	-	-	1	1	1	3	1	2	1		
C306.2	1	2	1	3	3	-	-	-	1	1	1	3	1	2	1		
C306.3	3	1	2	3	3	-	-	-	3	2	3	2	2	3	1		
C306.4	1	1	3	2	2	-	-	-	3	1	1	2	2	3	3		
C306.5	3	2	1	2	2	-	-	-	1	1	3	1	2	2	1		
C306.6	1	3	2	1	2	-	-	-	1	2	3	1	3	2	1		
C306	1.7	1.8	1.7	2.3	2.5	-	-	-	1.7	1.3	2.0	2.0	1.8	2.3	1.3		



(Approved by AICTE, Affiliated to Anna University, Chennai, India) Kaikkurichi, Pudukkottai – 622 303

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING REGULATION 2021 COURSE OUTCOMES (CO) & CO-PO MAPPING

Course Code	Course Name	Course Outcome (CO) Students will be able to
		<b>C307.1:</b> Exhibit the fundamental concepts of gender studies.
		C307.2: Illustrate about the types of feminist theory.
MX3081 (C307)	Introduction to Women and Gender Studies	C307.3: Analyze the history of women's movements.
	Gender Studies	C307.4: Distinguish between the gender based on linguistic forms.
		<b>C307.5:</b> Explain the role of media in gender equality.
		C307.6: Discuss the representation of women in media.

СО					I	PROG	RAM (	OUTC	OMES	5			PSO				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3		
C307.1		-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.2	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.3	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.4	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.5	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307.6	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		
C307	-	-	-	-	-	1	1	1	3	2	-	2	-	-	-		

<sup>\*3-</sup>High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation