



JEPPIAAR INSTITUTE OF TECHNOLOGY

"Self Belief | Self Discipline | Self Respect"

REGULATION - 2017



DEPARTMENT OF INFORMATION TECHNOLOGY

I - VIII SEMESTERS CURRICULUM & SYLLABUS

SEMESTER 1						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	HS8151	communicative english	4	0	0	4
2	MA8151	Engineering Mathematics – I	4	0	0	4
3	PH8151	Engineering Physics	3	0	0	3
4	CY8151	Engineering Chemistry	3	0	0	3
5	GE8151	problem solving and python programming	3	0	0	3
6	GE8152	Engineering Graphics	6	0	4	4
PRACTICALS						
7	GE8161	Problem solving and python programming laboratory	0	0	4	2
8	BS8161	Physics and chemistry laboratory	0	0	4	2
SEMESTER 2						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	HS8251	Technical English	4	0	0	4
2	MA8251	Engineering Mathematics – II	3	0	0	3
3	PH8252	Physics for Information Science	3	0	0	3
4	BE8254	Basic Electrical, Electronics and Measurement Engineering	3	0	0	3
5	IT8201	Information Technology Essentials	3	0	0	3
6	CS8251	Programming in C	3	0	0	3
PRACTICALS						
7	GE8261	Engineering Practices laboratory	0	0	4	2
8	CS8261	C Programming Laboratory	0	0	4	2

9	IT8211	Information Technology Essentials	0	0	4	1
SEMESTER 3						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA8351	Discrete Mathematics	4	0	0	4
2	CS8351	Digital Principle and system design	4	0	0	4
3	CS8391	Data Structures	3	0	0	3
4	CS8392	Object Oriented Programming	3	0	0	3
5	EC8394	Analog and Digital Communication	3	0	0	3
PRACTICALS						
6	CS8381	Data structures Laboratory	0	0	4	2
7	CS8383	Object Oriented Programming	0	0	4	2
8	CS8382	Digital Systems Laboratory	0	0	2	1
9	HS8381	Interpersonal Skills/listening and speaking	0	0	2	1
SEMESTER 4						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA8391	Probability and Statistics	4	0	0	4
2	CS8491	Computer Architecture	3	0	0	3
3	CS8492	Database Management System	3	0	0	3
4	CS8451	Design and Analysis of Algorithms	3	0	0	3
5	CS8493	Operating System	3	0	0	3
6	GE8291	Environmental science and engineering	3	0	0	3
PRACTICALS						
7	CS8481	Database Management System Laboratory	0	0	4	2
8	CS8461	Operating Systems Laboratory	0	0	4	2
9	HS8461	Advanced Reading and Writing Laboratory	0	0	2	1
SEMESTER 5						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C

THEORY						
1	MA8551	Algebra and Number Theory	4	0	0	4
2	CS8591	Computer Networks	3	0	0	3
3	EC8691	Microprocessor and Microcontroller	3	0	0	3
4	IT8501	Web Technology	3	0	0	3
5	CS8494	Software Engineering	3	0	0	3
6	OMD551	Basics of biomedical instrumentation	3	0	0	3
PRACTICALS						
7	EC8681	Microprocessor and Microcontroller Laboratory	0	0	4	2
8	CS8581	Networks Laboratory	0	0	4	2
9	IT8511	Web Technology Laboratory	0	0	4	2
SEMESTER 6						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	IT8601	Computational Intelligence	3	0	0	3
2	CS8592	Object Oriented Analysis and Design	3	0	0	3
3	IT8602	Mobile communication	3	0	0	3
4	CS8091	Bigdata Analytics	3	0	0	3
5	CS8092	Computer Graphics and Multimedia	3	0	0	3
6	IT6004	Software Testing	3	0	0	3
PRACTICALS						
7	CS8662	Mobile Application Development Laboratory	0	0	4	2
8	CS8582	Object oriented Analysis and Design Laboratory	0	0	4	2
9	IT8611	Mini Project	0	0	2	1
SEMESTER 7						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MG8591	Principles of Management	3	0	0	3

2	CS8792	Cryptography and Network Security	3	0	0	3
3	CS8791	Cloud Computing	3	0	0	3
4		Open Elective -II	3	0	0	3
5		Professional elective-II	3	0	0	3
6		Professional elective-III	3	0	0	3
PRACTICALS						
7	IT8711	FOSS and Cloud Computing Laboratory	0	0	4	2
8	IT8761	Security laboratory	0	0	4	2
SEMESTER 8						
S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	GE8076	Professional elective-IV Professional Ethics in Engineering	3	0	0	3
2	IT8005	Professional Elective-V Electronic Commerce	3	0	0	3
PRACTICALS						
5	IT8811	Project Work	0	0	20	10

SEMESTER 1
CO101

Subject Code & Name : H8151 - Communicative English Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO101.1	Enable the development in sharing information about family and friends.	K3
CO101.2	Strengthen general comprehending skills and present lucid skills in free writing.	K2
CO101.3	Gain the basic grammar techniques and utilize it in enhancing language development.	K3
CO101.4	Foster an environment for reading and develop good language skills	K2
CO101.5	Develop flair for any kind of writing with rich vocabulary and proper syntax.	K2
CO101.6	Proficiency in writing technical articles and presenting papers on any topic of any genre.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes				
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3		
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12					
C101.1	K3	3	2	2	2	-	-	-	-	-	-	-	-	-	-	1	-	-
C101.2	K2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-
C101.3	K3	3	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
C101.4	K2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
C101.5	K2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-
C101.6	K3	3	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-

CO102

Subject Code & Name : MA8151 - Engineering Mathematics - I Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO102.1	Diagonalize symmetric matrices and similar matrices using Eigen values and Eigen vectors.	K2
CO102.2	Explain gradients, potential functions, and directional derivatives of functions of several variables	K2
CO102.3	Compute line, surface and volume integral using Gauss divergence, Green's and stoke's theorem.	K2
CO102.4	Discuss analytic functions in heat and fluid flow.	K2
CO102.5	Extend the concept of contour integrals in evaluating Real integra	K2
CO102.6	Discuss Laplace Transform methods to solve initial value problems for constant coefficient linear ODEs.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes				
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3		
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12					
C102.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C102.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
C102.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C102.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C102.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C102.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CO103

Subject Code & Name :PH8151 - Engineering Physics Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO103.1	Explain the basics of properties of matter and its applications.	K2
CO103.2	Identify the concepts of waves and optical devices and their applications in fibre optics	K2
CO103.3	Demonstrate the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers	K3
CO103.4	Describe advanced physics concepts of quantum theory and its applications in tunneling microscopes	K2
CO103.5	Summarize the basics of crystals and their structures and different crystal growth techniques	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes				
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3		
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12					
CO103.1	K2	2	2	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-
CO103.2	K2	2	3	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-
CO103.3	K3	3	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-
CO103.4	K2	2	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-
CO103.5	K2	2	1	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-

CO104

Subject Code & Name :CY8151-Engineering Chemistry Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO104.1	Predict the type of troubles present in boilers and the methods used to treat hard water.	K2
CO104.2	Identify the factors affecting the rate of adsorption and catalytic activity.	K3
CO104.3	Interpret the Concept of phase rule, its various phase diagrams and predict the low melting alloys	K2

CO104.4	Enumerate various solid, liquid and gaseous fuels, manufacturing methods and basic reactions involved in combustion reactions	K2
CO104.5	Classify the types of batteries, their reactions and the significance of storage renewable energy resources.	K1

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO104.1	K2	2	2	-	-	-	-	2	-	-	-	-	-	1	-	-
CO104.2	K3	3	3	-	-	-	-	3	-	-	-	-	-	-	1	-
CO104.3	K2	2	2	2	-	-	-	2	-	-	-	-	-	-	-	-
CO104.4	K2	2	2	2	-	-	-	2	-	-	-	-	-	-	-	-
CO104.5	K1	1	1	1	-	-	-	1	-	-	-	-	-	1	-	-

CO105

Subject Code & Name : GE8151-problem solving and python programming Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO105.1	Discuss the logical solutions through Flowcharts, Algorithms and Pseudo code.	K2
CO105.2	Explain the syntax for python programming constructs.	K2
CO105.3	Compute the flow of the program to obtain the programmatic solution.	K2
CO105.4	Examine the programs with sub problems using 'Python' language	K3
CO105.5	Compute the compound data using Python lists, tuples, and dictionaries	K2
CO105.6	Apply python programs to read and write data from/to files	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO105.1	K2	2	1	1	1	-	-	-	-	-	-	-	-	2	-	-
CO105.2	K2	2	1	1	1	2	-	-	-	-	-	-	-	2	-	-
CO105.3	K2	2	1	1	1	2	-	-	-	-	-	-	-	2	-	-
CO105.4	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	-	-
CO105.5	K2	2	1	1	1	2	-	-	-	-	-	-	-	2	-	-
CO105.6	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	-	-

CO106

Subject Code & Name : GE8152 - Engineering Graphics Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO106.1	Discuss about conics and orthographic views of engineering components.	K2
CO106.2	Draw the projection of points, lines and planes.	K1
CO106.3	Classify solids and projection of solids at different positions.	K3
CO106.4	Show sectioned view of solids and development of surface.	K3
CO106.5	Draw isometric projection and perspective views of an object/solid.	K1
CO106.6	Apply the concept of drawing in practical applications.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO106.1	K2	2	-	-	-	-	-	-	-	-	2	-	-	1	-	-
CO106.2	K1	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-
CO106.3	K3	3	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO106.4	K3	3	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO106.5	K1	1	-	-	-	-	-	-	-	-	1	-	-	1	-	-
CO106.6	K3	3	-	2	-	-	-	-	-	-	3	-	-	-	-	-

CO107

Subject Code & Name : GE8161- Problem solving and python programming labora/Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO107.1	Write, test, and debug simple Python programs.	K1
CO107.2	Apply the concept of conditionals and loops in Python programs.	K3
CO107.3	Develop the Python programs step-wise by defining functions and calling them.	K3
CO107.4	Use Python lists, tuples, dictionaries for representing compound data.	K3
CO107.5	Read and write data from/to files in Python.	K1
CO107.6	Apply the concept of Pygame.	K3
CO107.7	Exhibit ethical principles in engineering practices.	K3
CO107.8	Perform task as an individual and / or team member to manage the task in time.	K3
CO107.9	Express the Engineering activities with effective presentation and report.	K3
CO107.10	Interpret the findings with appropriate technological / research citation.	K1
CO107.11	Exhibit ethical principles in engineering practices.	A3
CO107.12	Perform task as an individual and / or team member to manage the task in time.	A3

CO107.13	Express the Engineering activities with effective presentation and report.	A3
CO107.14	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C107.1	K1	1	1	1	1	-	-	-	-	-	-	-	-	2	-	-
C107.2	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	-	-
C107.3	K3	3	3	3	2	3	-	-	-	-	-	-	-	2	-	-
C107.4	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	-	-
C107.5	K1	1	1	1	1	1	-	-	-	-	-	-	-	2	-	-
C107.6	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	-	-
C107.7	K3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C107.8	K3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C107.9	K3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
C107.10	K1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
C107.11	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
C107.12	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C107.13	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C107.14	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

CO108

Subject Code & Name :BS8161 -Physics and chemistry laboratory

Department: IT

Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO108.1	Determine the Modulus of elasticity of materials and Coefficient of Viscosity of liquids.	K2
CO108.2	Determine the Thermal Conductivity of bad conductor using Lee's disc method	K2
CO108.3	Calculate the Compressibility of liquids and velocity of ultrasonic waves in liquids.	K2
CO108.4	Measure the wavelength of prominent spectral lines of Mercury Spectrum and particle size of powder using diffraction phenomenon and thickness of thin materials using interference phenomenon.	K2
CO108.5	Determine the band gap energy of a semiconductor.	K2
CO108.6	Calculate water quality parameters such as hardness, alkalinity of the given water sample.	K2
CO108.7	Estimate the amount of the given acids using conductometric titrations.	K2
CO108.8	Estimate the amount of the given acids using pH titrations.	K2
CO108.9	Determine the amount of iron content in the given substance using potentiometric titration.	K2
CO108.10	Determine the amount of chloride content in the given water sample.	K2
CO108.11	Exhibit ethical principles in engineering practices.	K3
CO108.12	Perform task as an individual and / or team member to manage the task in time.	K3
CO108.13	Express the Engineering activities with effective presentation and report.	K3
CO108.14	Interpret the findings with appropriate technological / research citation.	K2
CO108.15	Exhibit ethical principles in engineering practices.	A3
CO108.16	Perform task as an individual and / or team member to manage the task in time.	A3
CO108.17	Express the Engineering activities with effective presentation and report.	A3
CO108.18	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO108.1	K2	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-
CO108.2	K2	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-
CO108.3	K2	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-
CO108.4	K2	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-
CO108.5	K2	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-
CO108.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-
CO108.7	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO108.8	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO108.9	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO108.10	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO108.11	K3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO108.12	K3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO108.13	K3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO108.14	K2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
CO108.15	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
CO108.16	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO108.17	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO108.18	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

SEMESTER-2

CO109

Subject Code & Name : HS8251 -Technical English

Department: IT

Year/Sem: I/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO109.1	Breakdown the ideas in to its elementary constituents, analyze and act after a meaning full thought process.	K2
CO109.2	Analyze the phrase and passage and explicitly pass on the ideas meaning fully.	K3
CO109.3	Manage to interpret the given phrase or the graphical rendering and review the contents well individually or as a group	K3
CO109.4	Concentrate on the communication aspect of complicated ideas and respond positively.	K2
CO109.5	Debate the issues and find the rudiments of the problem individually and as a group.	K3
CO109.6	Respond intelligently and seek clarification and Gain completely.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C109.1	K2	-	-	-	-	-	-	-	-	-	2	-	3	1	-	-
C109.2	K3	-	-	-	-	-	-	-	-	2	2	-	3	-	-	1
C109.3	K3	-	-	-	-	-	-	-	-	-	2	-	3	-	2	-
C109.4	K2	-	-	-	-	-	-	-	-	-	2	-	3	-	-	-
C109.5	K3	-	-	-	-	-	-	-	-	3	3	-	2	-	-	2
C109.6	K2	-	-	-	-	-	-	-	-	-	2	-	3	-	-	-

CO110

Subject Code & Name : MA8251 - Engineering Mathematics – II

Department: IT

Year/Sem: I/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO110.1	Compute Eigen values and Eigen vectors of a matrix, diagonalize symmetric matrices and similar matrices	K2
CO110.2	Explain gradients, potential functions, and directional derivatives of functions of several variables	K2
CO110.3	Compute line, surface and volume integral using Gauss divergence, Green's and stoke's theorem.	K2
CO110.4	Discuss analytic functions in heat and fluid flow.	K2
CO110.5	Extend the concept of contour integrals in evaluating Real integrals.	K2
CO110.6	Discuss Laplace Transform methods to solve initial value problems for constant coefficient linear ODEs.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO110.1	K2	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-
CO110.2	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1
CO110.3	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	2	-
CO110.4	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO110.5	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	2
CO110.6	K2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-

CO111

Subject Code & Name : PH8252-Physics for Information Science

Department: IT

Year/Sem: I/II

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO111.1	Discuss about Wiedemann Franz law and the conduction in solids	K2
CO111.2	Associate the concept of quantum electron theories with energy band structures	K2
CO111.3	Discuss the carrier concentration in semiconducting materials.	K2
CO111.4	Explain the origin of magnetism and the properties of magnetic materials	K2
CO111.5	Discuss the working of Opto-electronic devices..	K2
CO111.6	Summarize the basics of quantum structures and their applications in nano devices.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C111.1	K2	2	1	-	-	-	-	-	-	-	2	-	-	1	-	-
C111.2	K2	2	1	-	-	-	-	-	-	-	2	-	-	-	-	1
C111.3	K2	2	1	-	-	-	-	-	-	-	2	-	-	-	2	-
C111.4	K2	2	1	-	-	-	-	-	-	-	2	-	-	-	-	-

C111.5	K2	2	1	-	-	-	-	-	-	-	2	-	-	-	-	2
C111.6	K2	2	1	-	-	-	-	-	-	-	2	-	-	-	-	-

CO112

Subject Code & Name : BE8254 & Basic Electrical and Electronics Measureme Department: IT

Year/Sem: I/II

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO112.1	Illustrate the behavior of electric circuits using fundamental laws and techniques	K2
CO112.2	Explain the operation of DC, AC and Special machines	K2
CO112.3	Summarize different energy sources, protective devices and its applications	K2
CO112.4	Outline the characteristics and applications of semiconductor diodes.	K2
CO112.5	Summarize the characteristics and errors of the instruments	K2
CO112.6	Explain the working of different types of Analog Instruments and transducers.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11				PO-12
C112.1	K2	2	1	-	-	-	-	-	-	-	1	-	-	1	-	-
C112.2	K2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	1
C112.3	K2	2	1	-	-	-	2	-	-	-	1	-	-	-	2	-
C112.4	K2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-
C112.5	K2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	2
C112.6	K2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-

CO113

Subject Code & Name : IT8201 & Information Technology Essentials

Department: IT

Year/Sem: I/II

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO113.1	Design and deploy web-sites	K3
CO113.2	Design and deploy web-applications	K3
CO113.3	Create simple database application	K3
CO113.4	Develop information system	K3
CO113.5	Describe the basic of networking and mobile communication	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11				PO-12
CO113.1	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO113.2	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO113.3	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO113.4	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO113.5	K2	2	1	1	1	-	-	-	-	-	-	-	-	1	-	-

CO114

Subject Code & Name : CS8251 & Programming in C

Department: IT

Year/Sem: I/II

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO114.1	Explain the syntaxes for C programming.	K2
CO114.2	Associate the programs in 'C' for real world situation	K2
CO114.3	Apply the concepts of Arrays, Strings in 'C' language for user defined problems	K2
CO114.4	Apply the concept of functions and pointers	K2
CO114.5	Associate the programs with structure using 'C' language.	K2
CO114.6	Discuss to read and write data from/to files in 'C' Programs	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11				PO-12

C114.1	K2	2	1	1	1	-	-	-	-	-	-	-	-	3	-	-
C114.2	K2	2	1	1	1	2	-	-	-	-	-	-	-	3	-	-
C114.3	K2	3	2	2	1	3	-	-	-	-	-	-	-	3	-	-
C114.4	K2	3	2	2	1	3	-	-	-	-	-	-	-	3	-	-
C114.5	K2	2	1	1	1	2	-	-	-	-	-	-	-	3	-	-
C114.6	K2	2	1	1	1	2	-	-	-	-	-	-	-	3	-	-

CO115

Subject Code & Name : **GE8261 Engineering Practices laboratory** Department: **IT** Year/Sem: **I/II**

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO115.1	Identify Tools and Techniques used for Sheet Metal Fabrication	K1
CO115.2	Use welding equipment to join the structures	K3
CO115.3	Demonstrate Plumbing requirements of domestic buildings.	K3
CO115.4	Apply the skills of basic electrical engineering for house wiring practice	K3
CO115.5	Measure various electrical quantities	K2
CO115.6	Explain the working of electronic components and its utilization	K3
CO115.7	Apply electronic principles to develop circuits for primitive application	K4
CO115.8	Exhibit ethical principles in engineering practices	K3
CO115.9	Perform task as an individual and / or team member to manage the task in time	K3
CO115.10	Express the Engineering activities with effective presentation and report.	K3
CO115.11	Interpret the findings with appropriate technological / research citation.	K1
CO115.12	Exhibit ethical principles in engineering practices.	A3
CO115.13	Perform task as an individual and / or team member to manage the task in time.	A3
CO115.14	Express the Engineering activities with effective presentation and report.	A3
CO115.15	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C115.1	K1	1	-	1	-	1	-	-	-	-	-	-	-	1	-	-
C115.2	K3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	1
C115.3	K3	3	2	-	-	-	-	-	-	-	-	-	-	-	2	-
C115.4	K3	3	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C115.5	K2	3	2	2	1	3	-	-	-	-	-	-	-	-	-	2
C115.6	K3	2	1	-	1	2	-	-	-	2	2	2	-	-	-	-
C115.7	K4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C115.8	K3	3	2	2	1	3	-	-	-	3	3	3	-	-	-	-
C115.9	K3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C115.10	K3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C115.11	K1	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C115.12	A3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C115.13	A3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C115.14	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C115.15	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

CO116

Subject Code & Name : **CS8261 Programming in C Laboratory** Department: **IT** Year/Sem: **I/II**

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO116.1	Develop C programs for simple applications making use of basic constructs	K3
CO116.2	Apply the concept of conditionals and loops in C programs.	K3
CO116.3	Develop the C programs with arrays and strings	K3
CO116.4	Apply the concept of functions, recursion in C programs	K3
CO116.5	Analyze the concept of pointers, and structures in C	K3
CO116.6	Examine the use of sequential and random access file processing.	K3
CO116.7	Exhibit ethical principles in engineering practices	K3
CO116.8	Perform task as an individual and / or team member to manage the task in time	K3

CO116.9	Express the Engineering activities with effective presentation and report.	K3
CO116.10	Interpret the findings with appropriate technological / research citation	K2
CO116.11	Exhibit ethical principles in engineering practices.	A3
CO116.12	Perform task as an individual and / or team member to manage the task in time.	A3
CO116.13	Express the Engineering activities with effective presentation and report.	A3
CO116.14	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C116.1	K3	3	3	3	2		-	-	-	-	-	-	-	1	-	-
C116.2	K3	3	2	2	1	3	-	-	-	-	-	-	-	-	-	1
C116.3	K3	3	3	3	2	3	-	-	-	-	-	-	-	-	2	-
C116.4	K3	3	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C116.5	K3	3	3	3	2	3	-	-	-	-	-	-	-	-	-	2
C116.6	K3	3	2	2	1	3	-	-	-	-	-	-	-	-	-	-
C116.7	K3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C116.8	K3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C116.9	K3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
C116.10	K2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
C116.11	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
C116.12	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C116.13	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C116.14	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO117																

Subject Code & Name : **IT8211 & Information Technology Essentials labora** Department: **IT** Year/Sem: **I/II**

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO117.1	Design an interactive websites using basic HTML tags, different style,links.	K3
CO117.2	Create client side and server side script using PHP	K3
CO117.3	Design dynamic websites and handle multimedia components	K3
CO117.4	Create applications with PHP connected to MYSQL	K3
CO117.5	Implement the technologies behind computer networks and mobile communication	K2
CO117.6	Exhibit ethical principles in engineering practices	K3
CO117.7	Perform task as an individual and / or team member to manage the task in time	K3
CO117.8	Express the Engineering activities with effective presentation and report.	K3
CO117.9	Interpret the findings with appropriate technological / research citation	K2
CO117.10	Exhibit ethical principles in engineering practices.	A3
CO117.11	Perform task as an individual and / or team member to manage the task in time.	A3
CO117.12	Express the Engineering activities with effective presentation and report.	A3
CO117.13	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO117.1	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO117.2	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO117.3	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO117.4	K3	3	2	2	2	-	-	-	-	-	-	-	-	1	-	-
CO117.5	K2	2	1	1	1	-	-	-	-	-	-	-	-	1	-	-
CO117.6	K3	2	1	1	1	-	-	-	-	-	-	-	-	1	-	-
CO117.7	K3	2	1	1	1	-	-	-	-	-	-	-	-	1	-	-
CO117.8	K3	2	1	1	1	-	-	-	-	-	-	-	-	1	-	-
CO117.9	K2	2	1	1	1	-	-	-	-	-	-	-	-	1	-	-
CO117.10	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
CO117.11	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO117.12	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO117.13	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

SEMESTER 3

CO201

Subject Code & Name : MA8351 & Discrete Mathematics

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO201.1	Summarize the concepts needed to test the logic of a program.	K2
CO201.2	Classify structures on many levels.	K2
CO201.3	Cite the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.	K2
CO201.4	Develop the knowledge of the counting principles.	K2
CO201.5	Interpret the concepts and properties of algebraic structures such as groups, rings and fields.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C201.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	-	-
C201.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1
C201.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	2	-
C201.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-
C201.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2

CO202

Subject Code & Name : CS8351 & Digital System Principles and Design

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO202.1	Solve Boolean functions using K - Map	K3
CO202.2	Design and Analyze Combinational Circuits	K4
CO202.3	Design and Analyze Synchronous Sequential Circuits	K4
CO202.4	Design and Analyze Asynchronous Sequential Circuits	K4
CO202.5	Complete designs using Programmable Logic Devices	K3
CO202.6	Articulate HDL code for combinational and Sequential Circuits	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C202.1	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
C202.2	K4		3	3	2		-	-	-	-	-	-	-	-	-	1
C202.3	K4		3	3	2		-	-	-	-	-	-	-	-	2	-
C202.4	K4		3	3	2		-	-	-	-	-	-	-	-	-	-
C202.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	2
C202.6	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	-

C0203

Subject Code & Name : CS8391 & Data Structures

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO203.1	Summarize abstract data types for linear data structures	K2
CO203.2	Interpret the various linear data structures concepts Lists, Stack, & Queue	K2
CO203.3	Interpret how trees & heaps are used in various applications	K2
CO203.4	Solve and implement Graph structures and algorithm	K3
CO203.5	Complete various searching, sorting, & Hashing techniques.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			

C203.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
C203.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
C203.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
C203.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	-	-
C203.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	-	-

CO204

Subject Code & Name : CS8392& Object Oriented Programming

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO204.1	Summarize the Object Oriented Programming concepts and basic features of Java	K2
CO204.2	Interpret the OOPS principles with packages, inheritance and interfaces	K2
CO204.3	Interpret exceptions and use I/O streams	K2
CO204.4	Develop a java application with threads and generics classes	K3
CO204.5	Articulate and build simple Graphical User Interfaces	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C204.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
C204.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
C204.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
C204.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	-	-
C204.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	-	-

CO205

Subject Code & Name : EC8394 & Analog and Digital Communication

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO205.1	Summarize various analog communication techniques.	K2
CO205.2	Use various pulse and data communication techniques.	K3
CO205.3	Classify different digital modulation schemes in communication.	K3
CO205.4	Categorize source and error control coding schemes.	K4
CO205.5	Articulate about multi user radio communication.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C205.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	-	-
C205.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	1
C205.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	2	-
C205.4	K4		3	3	2		-	-	-	-	-	-	-	-	-	-
C205.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	2

CO206

Subject Code & Name : CS8381 &Data Structures Lab

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO206.1	Summarize functions to implement linear and non-linear data structure operations.	K2
CO206.2	Devise practical applications of data structures.	K3
CO206.3	Design and develop appropriate linear / non-linear data structure operations for solving a given problem.	K3
CO206.4	Design new solutions for programming problems or improve existing code using learned algorithms and data structures.	K3
CO206.5	Complete the linear / non-linear data structure operations for a given problem based on the user needs.	K3
CO206.6	Complete appropriate hash functions that result in a collision free scenario for data storage and retrieval	K3

CO206.7	Exhibit ethical principles in engineering practices	A3
CO206.8	Perform task as an individual and / or team member to manage the task in time	A3
CO206.9	Express the Engineering activities with effective presentation and report	A3
CO206.10	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C206.1	K2	2	2	2	-	-	2	1	1	-	-	-	-	2	-	-
C206.2	K3	2	2	2	1	-	1	1	1	-	-	-	-	2	-	-
C206.3	K3	1	3	2	-	-	2	1	1	-	-	-	-	2	-	-
C206.4	K3	2	2	2	2	-	2	2	1	-	-	-	-	2	-	-
C206.5	K3	3	2	1	1	-	2	1	1	-	-	-	-	2	-	-
C206.6	K3	2	1	1	1	-	1	2	1	-	-	-	-	2	-	-
C206.7	K3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
C206.8	K3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C206.9	K3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C206.10	K2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

CO207

Subject Code & Name : CS8383 & Object Oriented Programming Lab

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO207.1	Develop and implement Java programs for simple applications that make use of classes.	K3□
CO207.2	Develop and implement Java programs with array list.	K3
CO207.3	Design applications using file processing.	K3
CO207.4	Build software development skills using java programming for real-world applications.	K3
CO207.5	Apply the concepts of classes, packages, interfaces, exception handling .	K3
CO207.6	Develop applications using generic programming and event handling.	K3
CO207.7	Exhibit ethical principles in engineering practices.	A3
CO207.8	Perform task as an individual and / or team member to manage the task in time.	A3
CO207.9	Express the Engineering activities with effective presentation and report.	A3
CO207.10	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C207.1	K3□	3	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C207.2	K3	3	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C207.3	K3	3	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C207.4	K3	3	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C207.5	K3	3	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C207.6	K3	3	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C207.7	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
C207.8	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C207.9	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C207.10	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

CO208

Subject Code & Name : CS8382 & Digital Systems laboratory

Department: IT

Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO208.1	Solve the functional characteristics of basic logic gates	K3

CO208.2	Complete the various combinational circuits and Sequential circuits	K3
CO208.3	connect various combinational circuits using MSI devices	K4
CO208.4	Discover the various code with HDL programming	K3
CO208.5	Solve Verilog codes for the design of Digital Circuits	K3
CO208.6	Interpret Simple Digital System	K3
CO208.7	Exhibit ethical principles in Engineering Practices	A3
CO208.8	Perform Task as an Individual and/or team member to manage the task in time	A3
CO208.9	Express the Engineering activities with effective presentation and report	A3
CO208.10	Interpret the findings with appropriate technological / research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO208.1	K3	3	2	2	-	3	-	-	-	-	-	-	-	2	2	2
CO208.2	K3	3	2	2	-	3	-	-	-	-	-	-	-	2	2	2
CO208.3	K4	3	2	2	-	2	-	-	-	-	-	-	-	2	2	2
CO208.4	K3	3	2	2	-	3	-	-	-	-	-	-	-	2	2	2
CO208.5	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CO208.6	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CO208.7	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
CO208.8	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO208.9	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO208.10	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

C0209

Subject Code & Name : HS8381& Interpersonal skill/Listening &speaking Department: IT Year/Sem: II/III

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO209.1	Listen and react by giving verbal and non verbal feedback.	A2
CO209.2	To make effective contribution in Group Discussions.	K2,A3
CO209.3	Compare and Contrast the ideas from multiple choices and summarize.	K2,A3
CO209.4	Respond confidently in both Formal and Informal conversations.	A2
CO209.5	To Greet and to respond to Greetings.	A2
CO209.6	Apply stress and intonation while speaking to make the presentation effective.	K3
CO209.7	Exhibit ethical principles in engineering practices.	A3
CO209.8	Perform task as an individual and / or team member to manage the task in time.	A3
CO209.9	Express the Engineering activities with effective presentation and report.	A3
CO209.10	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C209.1	A2	-	-	-	-	-	-	-	-	2	3	-	3	-	-	-
C209.2	K2,A3	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C209.3	K2,A3	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C209.4	A2	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C209.5	A2	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C209.6	K3	-	-	-	-	-	-	-	-	2	3	-	2	-	-	-
C209.7	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
C209.8	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C209.9	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C209.10	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

SEMESTER 4

CO210

Subject Code & Name :MA8391 Probability and Statistics

Department: IT

Year/Sem: II/IV

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO210.1	Summarize the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon.	K2
CO210.2	Interpret the basic concepts of one and two dimensional random variables and apply in engineering applications.	K2
CO210.3	Apply the concept of testing of hypothesis for small and large samples in real life problems.	K3
CO210.4	Apply the basic concepts of classifications of design of experiments in the field of agriculture and statistical quality control.	K3
CO210.5	Relate the notion of sampling distributions and statistical techniques used in engineering and management problems.	K4

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO210.1	K2	2	2	2	1	2	-	-	-	-	-	-	1	1	-	-
CO210.2	K2	2	2	2	1	2	-	-	-	-	-	-	1	1	-	-
CO210.3	K3	3	2	2	2	3	-	-	-	-	-	-	1	1	-	-
CO210.4	K3	3	2	2	2	3	-	-	-	-	-	-	1	1	-	-
CO210.5	K4		3	3	2	-	-	-	-	-	-	-	1	1	-	-

CO211

Subject Code & Name : CS8491 - Computer Architecture

Department: IT

Year/Sem: II/IV

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO211.1	Summarize the basic structures of a computer system	K2
CO211.2	Interpret the various arithmetic operations for computers	K2
CO211.3	Analyze pipelined control units and the different types of hazards in the instructions	K3
CO211.4	Interpret the concepts of parallel processing architecture	K2
CO211.5	Summarize the fundamentals of memory system	K2
CO211.6	Summarize the concepts of I/O system.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C211.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	-	-
C211.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1
C211.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	2	-
C211.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-
C211.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2
C211.6	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-

CO212

Subject Code & Name : CS8492-Database Management System

Department: IT

Year/Sem: II/IV

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO212.1	Cite the fundamental concepts of relational database and SQL	K2
CO212.2	Use ER Model for Relational model mapping to perform database design effectively	K3
CO212.3	Summarize the properties of Transactions and concurrency control mechanisms	K2
CO212.4	Summarize the various storage and optimization techniques	K2
CO212.5	Compare and contrast various indexing strategies in different database systems	K2
CO212.6	Summarize the different advanced databases	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO212.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
CO212.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	-	-
CO212.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
CO212.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
CO212.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-
CO212.6	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	-	-

CO213

Subject Code & Name : CS8451 - DESIGN AND ANALYSIS OF ALGORITHMS Department: IT

Year/Sem: III/IV

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO213.1	Interpret the Fundamental needs of algorithms in problem solving and Analyze the time and space complexity of algorithms.	K3
CO213.2	Analyze Critically the Brute Force and divide and conquer techniques for the given real time problems	K4
CO213.3	Apply Critically the Dynamic programming and Greedy Techniques for the given real time problems.	K3
CO213.4	Relate an Iterative Improvement technique for various computing problems.	K2
CO213.5	Apply the Approximation Algorithms and Design of Branch and Bound and Back Tracking techniques for the given real time problems.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO213.1	K3	3	2	2	2	3	-	-	-	-	-	-	3	2	-	-
CO213.2	K4		3	3	2	-	-	-	-	-	-	-	2	2	-	-
CO213.3	K3	3	2	2	2	3	-	-	-	-	-	-	2	2	-	-
CO213.4	K2	2	2	2	1	2	-	-	-	-	-	-	2	2	-	-
CO213.5	K3	3	2	2	2	3	-	-	-	-	-	-	3	2	-	-

CO214

Subject Code & Name : CS8493 & Operating Systems

Department: IT

Year/Sem: II/IV

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO214.1	Infer knowledge in various concepts, structure and functions of operating system.	K2
CO214.2	Apply the principles of process management and concurrency to design various scheduling algorithms	K3
CO214.3	Design deadlock detection and avoidance algorithms.	K6
CO214.4	Compare and contrast various memory management schemes.	K4
CO214.5	Design various disk systems, file systems and I/O sub systems.	K6
CO214.6	Complete administrative tasks on Linux Servers.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO214.1	K2	2	-	-	2	-	-	-	-	-	-	-	-	-	1	1
CO214.2	K3	3	3	3	3	2	-	-	-	-	-	-	-	-	1	1
CO214.3	K6		3	3	-	0	-	-	-	-	-	-	-	-	1	1
CO214.4	K4		3	3	3	2	-	-	-	-	-	-	-	-	1	1
CO214.5	K6		2	3	-	-	-	-	-	-	-	-	-	-	1	1
CO214.6	K3	3	-	-	-	-	-	-	-	-	-	-	-	-	1	1

CO215

Subject Code & Name : GE8291 Environmental science and engineering

Department: IT

Year/Sem: II/IV

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO215.1	Interpret the basic concept of Ecosystems and Biodiversity.	K2
CO215.2	Compare the types of pollution and its control measures.	K2
CO215.3	Summarize the importance of natural resources and Disaster management.	K2
CO215.4	Infer the importance of environment by assessing its impact on the human world.	K2
CO215.5	Summarize the population related issues and types of welfare programmes in the society.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5,K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO215.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	-	-
CO215.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1
CO215.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	2	-
CO215.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-
CO215.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2

CO216

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO216.1	Use typical data definitions and manipulation commands.	K3
CO216.2	Design applications to test Nested and Join Queries	K3
CO216.3	Solve simple applications that use Views	K3
CO216.4	Use ER modeling and normalization to design and implement database	K3
CO216.4	Complete applications that require a Front-end Tool	K3
CO216.4	Critically analyze the use of Tables, Views, Functions and Procedures	K3
CO216.4	Exhibit ethical principles in engineering practices	A3
CO216.4	Perform task as an individual and / or team member to manage the task in time	A3
CO216.4	Express the Engineering activities with effective presentation and report.	A3
CO216.4	Interpret the findings with appropriate technological / research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C216.1	K3	3	2	2	2	-	-	-	-	-	-	-	-	2	-	-
C216.2	K3	3	2	2	2	-	-	-	-	-	-	-	-	2	-	-
C216.3	K3	3	2	2	2	-	-	-	-	-	-	-	-	2	-	-
C216.4	K3	3	2	2	2	-	-	-	-	-	-	-	-	2	-	-
C216.5	K3	3	2	2	2	-	-	-	-	-	-	-	-	2	-	-
C216.6	K3	3	3	3	2	-	-	-	-	-	-	-	-	2	-	-
C216.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
C216.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
C216.9	A3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
C216.10	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

CO217

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO217.1	Illustrate the various CPU scheduling algorithms.	K3
CO217.2	Complete deadlock avoidance and detection algorithms.	K3
CO217.3	Use semaphore concepts.	K3
CO217.4	Design processes and implement IPC	K3
CO217.5	Analyze the performance of the various page replacement algorithms	K3
CO217.6	Summarize file organization and file allocation strategies	K3
CO217.7	Exhibit ethical principles in engineering practices	A3
CO217.8	Perform task as an individual and / or team member to manage the task in time	A3
CO217.9	Express the Engineering activities with effective presentation and report.	A3
CO217.10	Interpret the findings with appropriate technological / research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO217.1	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1
CO217.2	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1
CO217.3	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1
CO217.4	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1
CO217.5	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1
CO217.6	K3	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1
CO217.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO217.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO217.9	A3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO217.10	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

SEMESTER 5
C0301

Subject Code & Name : MA8551& Algebra and Number Theory Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO301.1	Apply the basic notions of groups, rings, fields which will then be used to solve related problems.	K3
CO301.2	Relate the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.	K3
CO301.3	Compare accurate and efficient use of advanced algebraic techniques.	K2
CO301.4	Solve non - trivial problems related to the concepts, and by proving simple theorems about the, statements proven by the text.	K3
CO301.5	Apply integrated approach to number theory and abstract algebra, and provide a firm basis for further reading and study in the subject.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO301.1	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
CO301.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	-
CO301.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	2	-
CO301.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	-
CO301.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-

C0302

Subject Code & Name : CS8591 & Computer Networks Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO302.1	Cite various layers of network and discuss the functions of physical layer	K2
CO302.2	Summarize how data flows from one node to another node with regard to data link layer	K2
CO302.3	Cite the different services of network layer	K2
CO302.4	Compare the different transport layer protocols and their applicability based on user requirements	K3
CO302.5	Summarize the working of various application layer protocols	K2
CO302.6	Analyze the performance of network and analyze routing algorithms	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C302.1	K2	2	1	1	2	2	-	-	-	-	-	-	-	1	-	-
C302.2	K2	2	1	1	1	2	-	-	-	-	-	-	-	-	-	-
C302.3	K2	2	1	1	1	2	-	-	-	-	-	-	-	-	2	-
C302.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	-
C302.5	K2	2	1	1	1	2	-	-	-	-	-	-	-	1	-	-
C302.6	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	2	2

CO303

Subject Code & Name : EC8691& Microprocessor and Microcontroller Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO303.1	Summarize about internal architecture of 8086 Microprocessor	K2
CO303.2	Summarize about system bus structure of 8086 Microprocessor	K2
CO303.3	Relate the various interfacing modules with 8086 Microprocessor	K2
CO303.4	Illustrate the architecture of 8051 microcontroller	K3
CO303.5	Illustrate about various interfacing modules with 8051 microcontroller	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C303.1	K2	2	1	1	1	2	-	-	-	-	-	-	-	1	1	1
C303.2	K2	2	1	1	1	2	-	-	-	-	-	-	-	1	1	1
C303.3	K2	2	1	1	1	2	-	-	-	-	-	-	-	1	1	1
C303.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	2	2
C303.5	K2	2	1	1	1	2	-	-	-	-	-	-	-	1	1	1

CO304

Subject Code & Name : IT8501&Web Technology Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO304.1	Design Simple web Pages using Markup Language like HTML and XHTML	K3
CO304.2	Design Dynamic web pages using CSS and Javascript	K3
CO304.3	Develop Server side web pages that have to process request from client side using Servlets and JDBC	K3
CO304.4	Illustrate the Web data using XML and develop server side web pages using JSP	K3
CO304.5	Develop web services and how these web services interact with web service Technologies	K3
CO304.6	Develop Interactive Web Applications for real world problems	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3

		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO304.1	K3	2	1	1	2	3	-	-	-	-	-	-	-	1	-	-
CO304.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
CO304.3	K3	2	1	1	2	3	-	-	-	-	-	-	-	1	-	-
CO304.4	K3	2	1	1	2	3	-	-	-	-	-	-	-	1	-	-
CO304.5	K2	2	1	1	1	2	-	-	-	-	-	-	-	1	-	-
CO304.6	K3	3	2	2	1	3	-	-	-	-	-	-	-	1	-	-

CO305

Subject Code & Name : CS8494 &Software Engineering Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO305.1	Identify the key activities in managing a software project and recognize different process model	K2
CO305.2	Cite the concepts of requirements engineering and Analysis Modeling.	K2
CO305.3	Summarize the systematic procedures for software design and deployment	K2
CO305.4	Compare various testing and maintenance methods	K2
CO305.5	Interpret the project schedule, estimate project cost and effort required	K2
CO305.6	Develop a software using the software engineering principles	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO305.1	K2	2	2	1	1	2	-	-	-	-	-	-	-	-	1	1	1
CO305.2	K2	2	2	1	1	2	-	-	-	-	-	-	-	-	1	1	1
CO305.3	K2	3	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1
CO305.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	2	2	2
CO305.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1
CO305.6	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	1	1	1

CO306

Subject Code & Name : OMD551 &Basics of biomedical instrumentation Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO306.1	Summarize different biopotential electrodes and its propagation mechanism	K2
CO306.2	Illustrate different types of electrodes and its placement for various recording	K2
CO306.3	Summarize the concepts of bio amplifiers for various physiological recording	K2
CO306.4	Summarize the different measurement techniques for non-physiological parameters	K2
CO306.5	Categorize the different types of biochemical measurement	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO306.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1
CO306.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1
CO306.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1
CO306.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	2	2	2
CO306.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1

CO307

Subject Code & Name : EC8681 & Microprocessor and Microcontroller Laborator Department: IT Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO307.1	Interpret the Architecture and operation of Microprocessor(8086)	K2
CO307.2	Devise simple Assembly Language programs using instruction sets of microprocessor and microcontroller	K3
CO307.3	Compare instruction sets of 8086 microprocessor and 8051 microcontroller	K3
CO307.4	Devise Assembly language programs using instruction set of microprocessor	K3
CO307.5	Develop applications using instructions of microprocessors and microcontroller	K3
CO307.6	Interpret the Architecture and operation of Microcontroller(8051)	K2
CO307.7	Exhibit Ethical principles in engineering practices	A3
CO307.8	Perform task as an individual and /or a team member to manage the task in time	A3
CO307.9	Express the engineering activities with effective presentation and report	A3
CO307.10	Interpret the findings with appropriate technological/research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO307.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	1	1	1
CO307.2	K3	2	2	2	2	3	-	-	-	-	-	-	-	-	1	1	1
CO307.3	K3	3	2	2	1	3	-	-	-	-	-	-	-	-	1	1	1
CO307.4	K3	3	2	2	1	3	-	-	-	-	-	-	-	-	2	2	2

CO307.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	1	1
CO307.6	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-
CO307.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO307.8	A3	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-
CO307.9	A3	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
CO307.10	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

CO308

Subject Code & Name : CS8581& Networks Laboratory

Department: IT

Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO308.1	Devise various protocols using TCP and UDP	K3
CO308.2	Compare the performance of different transport layer protocols	K3
CO308.3	Use simulation tools to analyze the performance of various network protocols	K3
CO308.4	Analyze various routing algorithms	K3
CO308.5	Implement error correction codes	K3
CO308.6	Illustrate Network simulator (NS) and Simulate Congestion Control Algorithms using NS	A3
CO308.7	Exhibit ethical principles in engineering practices	A3
CO308.8	Perform task as an individual and / or team member to manage the task in time	A3
CO308.9	Express the Engineering activities with effective presentation and report.	A3
CO308.10	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO308.1	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	1
CO308.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	1
CO308.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	1
CO308.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	1
CO308.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	1
CO308.6	A3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	1
CO308.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO308.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO308.9	A3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO308.10	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

CO309

Subject Code & Name : IT8511& Web Technology Laboratory

Department: IT

Year/Sem: III/V

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO309.1	Construct web pages using HTML and stylesheet	K3
CO309.2	Design dynamic web pages with validation using Javascript and apply different event handling mechanisms	K3
CO309.3	Develop dynamic web pages using server side scripting	K3
CO309.4	Develop Complete web application using Three tier architecture(JDBC)	K3
CO309.5	Construct web application using AJAX and web services	K3
CO309.6	Develop interactive web applications for real world problems	K3
CO309.7	Exhibit ethical principles in engineering practices	A3
CO309.8	Perform task as an individual and / or team member to manage the task in time	A3
CO309.9	Express the Engineering activities with effective presentation and report.	A3
CO309.10	Interpret the findings with appropriate technological / research citation.	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO309.1	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	1	1
CO309.2	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	1	1
CO309.3	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	1	1
CO309.4	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	1	1
CO309.5	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	1	1
CO309.6	K3	3	2	2	1	3	-	-	-	-	-	-	-	2	1	1
CO309.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO309.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO309.9	A3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO309.10	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

SEMESTER 6

CO310

Subject Code & Name : IT8601& Computational Intelligence

Department: IT

Year/Sem: III/VI

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO310.1	Interpret Search algorithms for any AI Problem	K2
CO310.2	Illustrate a problem using first order and predicate first order logics	K2
CO310.3	Improve problem solving skills using the acquired knowledge in the areas of Fuzzy set and Neural Networks	K2
CO310.4	Improve problem solving skills using the acquired knowledge in the areas of Machine learning and statistics	K2
CO310.5	Interpret applications for NLP that uses Artificial Intelligence	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO310.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO310.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO310.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO310.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO310.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2

CO311

Subject Code & Name : CS8592 & Object Oriented Analysis and Design

Department: IT

Year/Sem: III/VI

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO311.1	Describe the fundamentals of object modeling	K1
CO311.2	Describe and differentiate Unified Process from other approaches.	K1
CO311.3	Design with static UML diagrams.	K2
CO311.4	Design with the UML dynamic and implementation diagrams.	K2
CO311.5	Interpret the software design with design patterns.	K3
CO311.6	Compare software against its requirements specification	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO311.1	K1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	1	1
CO311.2	K1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	1	1
CO311.3	K2	3	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1
CO311.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1
CO311.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	1	1
CO311.6	K3	2	2	1	2	3	-	-	-	-	-	-	-	-	-	1	1

CO312

Subject Code & Name : IT8602 & Mobile Communication

Department: IT

Year/Sem: III/VI

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO312.1	Illustrate the basic concepts of mobile computing	K2
CO312.2	Infer the basics of mobile telecommunication system	K2
CO312.3	Illustrate the generations of telecommunication systems in wireless networks	K2
CO312.4	Summarize the functionality of MAC, network Layer and Identify a routing protocol for a given adhoc network	K2
CO312.5	Infer the functionality of transport and application layer	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO312.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1
CO312.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1
CO312.3	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1
CO312.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1
CO312.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	1	1

CO313

Subject Code & Name : CS8092& Graphics and Multimedia

Department: IT

Year/Sem: III/VI

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO313.1	Summarize the various output primitives ,color models	K2
CO313.2	Summarize various 2D Transformations,Viewing and clipping algorithms	K2
CO313.3	Analyze the 3D Objects and Projections	K3
CO313.4	Interpret Multimedia System design and File Handling	K2
CO313.5	Summarize Hypermedia and blender Graphics	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO313.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO313.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO313.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	2	2
CO313.4	K2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	2	2
CO313.5	K2	2	2	1	1	2	-	-	-	-	-	-	-	-	-	2	2

CO314

Subject Code & Name : CS8091 & Big data Analytics

Department: IT

Year/Sem: III/VI

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO314.1	Summarize the working of bigdata tools and it's Analysis techniques	K1
CO314.2	Summarize the data analysis by utilizing clustering and classification algorithms	K2
CO314.3	Apply different mining algorithms and recommendation system for large volume of data	K3
CO314.4	Analyze Data Streams	K3
CO314.5	Summarize the NoSQL Databases and Management	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes			
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3	
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12				
CO314.1	K1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	2	2
CO314.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2
CO314.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	2	2
CO314.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-
CO314.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	2	2

CO315

CO316.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	1	1
CO316.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	1	1
CO316.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	1	1
CO316.6	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO316.7	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO316.8	A3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO316.9	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

CO317

Subject Code & Name : IT8611&Mini Project

Department: IT

Year/Sem: III/VI

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO317.1	Choose problems with technical importance and societal contribution	K3
CO317.2	Identify and survey the relevant literature for getting exposed to related solutions	K3
CO317.3	Build project plans with feasible requirements	K3
CO317.4	Analyse, design and develop adaptable and reusable solutions	K4
CO317.5	Implement and test solutions to trace against the user requirements	K4
CO317.6	Deploy the solutions for better manageability and provide scope for improvability	K4
CO317.7	Exhibit Ethical principles in engineering practices	A3
CO317.8	Perform task as an individual and /or a team member to manage the task in time	A3
CO317.9	Express the engineering activities with effective presentation and report	A3
CO317.10	Interpret the findings with appropriate technological/research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO317.1	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
CO317.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
CO317.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
CO317.4	K4	-	3	3	2	-	-	-	-	-	-	-	-	1	-	-
CO317.5	K4	-	3	3	2	-	-	-	-	-	-	-	-	1	-	-
CO317.6	K4	-	3	3	2	-	-	-	-	-	-	-	-	1	-	-
CO317.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO317.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO317.9	A3	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
CO317.10	A2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-

C403.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	-	2	-
C403.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	-	-	-
C403.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	-	-
C403.6	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	-	-

CO404

Subject Code & Name : OME752-Supply Chain Management

Department: IT

Year/Sem: IV/VII

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO404.1	Illustrate the basic concepts of decision phases, drivers and apply competitive supply chain strategies.	K2
CO404.2	Analyze factors influencing network design.	K3
CO404.3	Apply the design, routing and scheduling principles of transportation network in supply chain.	K3
CO404.4	Summarize Sourcing and Coordination Effects of Supply Chain	K3
CO404.5	Summarize the role of Information Technology and analyse the Customer, Supplier Relationship Coordination in a supply chain.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO404.1	K2	2	2	2	1	2	2	2	2	1	1	1	2	1	2	-
CO404.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	2	-
CO404.3	K3	3	2	2	2	3	2	2	2	1	1	1	2	1	2	2
CO404.4	K3	3	2	2	2	3	2	2	2	1	1	1	2	1	2	-
CO404.5	K2	2	2	2	1	2	2	2	2	1	1	1	2	1	2	2

CO405

Subject Code & Name : IT8075-Software Project Management

Department: IT

Year/Sem: IV/VII

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO405.1	Summarize the software project evaluation techniques and planning	K2
CO405.2	Compare different software process models and cost estimation techniques.	K3
CO405.3	Illustrate the risk management process.	K3
CO405.4	Explain the need for Software Project Management and control.	K2
CO405.5	Summarize the organizational behavior and working in teams.	K2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO405.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	2	-
CO405.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	2	-
CO405.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	2	2
CO405.4	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	2	-
CO405.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	2	2

CO406

Subject Code & Name : CS8079-Human Computer Interaction

Department: IT

Year/Sem: IV/07

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO406.1	Interpret the computer devices and HCI models.	K2
CO406.2	Summarize the interactive design basics and HCI software process.	K2
CO406.3	Analyze the stake holders requirements and choose the appropriate models.	K3
CO406.4	Develop mobile HCI using mobile elements and tools by considering mobile eco system.	K3
CO406.5	Design meaningful user interface.	K3

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
C0406.1	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	1	1
C0406.2	K2	2	2	2	1	2	-	-	-	-	-	-	-	1	2	-

C0406.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	1	-
C0406.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	2	-
C0406.5	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	1	-

CO407

Subject Code & Name : IT8711 - FOSS and Cloud Computing Laboratory Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO407.1	Configure various virtualization tools such as Virtual Box,Vmware workstation	K2
CO407.2	Design and deploy a web application in a Paas Environment link layer	K2
CO407.3	Use cloud environment to implement new schedulers	K2
CO407.4	Develop generic cloud environment that can be used as private cloud	K3
CO407.5	Modify large data sets in a parallel environment.	K2
CO407.6	Exhibit Ethical principles in engineering practices	A3
CO407.7	Perform task as an individual and /or a team member to manage the task in time	A3
CO407.8	Express the engineering activities with effective presentation and report	A3
CO407.9	Interpret the findings with appropriate technological/research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO407.1	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	1	1
CO407.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	1	1
CO407.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	2	-
CO407.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	2	-
CO407.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	1	2
CO407.6	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
CO407.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO407.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO407.9	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

C0408

Subject Code & Name : IT8761-Security laboratory Department: IT Year/Sem: I/I

After successful completion of the course, the students should be able to

Course Outcome No.	Course Outcome	Highest Cognitive Level
CO408.1	Develop code for classical Encryption techniques to solve the problems.	K3
CO408.2	Build cryptosystems by applying symmetric and public key generation algorithms	K3
CO408.3	Construct code for authentication algorithms	K3
CO408.4	Develop a signature scheme using Digital Signature standard.	K3
CO408.5	Demonstrate the network security system using open source tools	K2
CO408.6	Exhibit Ethical principles in engineering practices	A3
CO408.7	Perform task as an individual and /or a team member to manage the task in time	A3
CO408.8	Express the engineering activities with effective presentation and report	A3
CO408.9	Interpret the findings with appropriate technological/research citation	A2

CO & PO and PSO Mapping

Course No.	Level of CO	Program Outcomes												Program Specific Outcomes		
		K3	K4	K4	K5	K3,K5, K6	A3	A2	A3	A3	A3	A3	A2	PSO-1	PSO-2	PSO-3
		PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12			
CO408.1	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	1	1
CO408.2	K3	3	2	2	2	3	-	-	-	-	-	-	-	1	1	1
CO408.3	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	2	-
CO408.4	K3	3	2	2	2	3	-	-	-	-	-	-	-	2	2	-
CO408.5	K2	2	2	2	1	2	-	-	-	-	-	-	-	2	1	2
CO408.6	A3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
CO408.7	A3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
CO408.8	A3	-	-	-	-	-	-	-	-	3	-	3	-	-	-	-
CO408.9	A2	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

