			BUDGE	BUDGE	INSTITU	TE OF TE	CHNOLO	GY										
		NISC	HINTAP	UR, BUD	GE BUDG	E,KOLKA	TA,70013	37,INDIA										
	Cours	e Outco	me of B.	Tech Co	mputer S	cience a	nd Engine	eering (2	022 23)				-					
со	Subject Code : BS PHIOI Subject Name : Physics I	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	#R         #R<
	At the End of the Semester students should be able to												-		1		1	
C01	Apply the differential equation for modeling of vibrating system	3	3	2	3	1							1	3	3	2	1	#D #D #D #D #D
C02	Understand the principal of holography and LASER light using wave properties of light.	3	3	2	3	2		1					1	3	3	2	1	3.00 3.00 2.00 3.00 2.20 IV/ 1.75 IV/ IV/ IV/ 1V/ 1.00 3.00 3.00 2.00 1.00 0! 0! 0! 0! 0!
соз	Analyze the behavior subatomic particles through Quantum Mechanical approach	3	3	2	3	3		2					1	3	3	2	1	#D #D #D #D 3.00 3.00 2.00 2.50 1.00 IV/ IV/ IV/ 1.00 1.00 IV/ 2.00 3.00 2.33 2.67 1.00 0! 0! 0!
C04	Understand the principle of material behaviour with respect to its magnetic and dielectric properties.	3	3	2	3	2		2					1	3	3	2	1	#D #D #D #D #D #D 3.00 3.00 1.33 IV/ 1.00 2.00 1.00 1.00 IV/ IV/ IV/ 2.00 2.00 IV/ 1.00 2.00 01 01 01 01
C05	Compute statistical average and uncertainty of physical parameters for Boson and Fermion	3	3	2	3	3		2					1	3	3	2	1	
	Average	3.00	3.00	2.00	3.00	2.20	#DIV/ 0!	1.75	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	1.00	3.00	3.00	2.00	1.00	
со	Subject Code : BS M101 Subject Name : Mathematics IA	P01	PO2	P03	PO4	PO5	PO6	P07	P08	P09	P010	P011	P012	PSO1	PSO2	PSO3	PSO4	
	At the End of the Semester students should be able to																	
C01	Apply the concept and techniques of differential and integral calculus to determine curvature and evaluation of different types of improper integrals.	3		2		1							2	3		3		
CO2	Understand the domain of applications of mean value theorems to engineering problems.	3			3								2		2	3		
соз	Learn different types of matrices, concept of rank, methods of matrix inversion and their applications.	3	3		2						1		2	3	3	2	1	
C04	Understand linear spaces, its basis and dimension with corresponding applications in the field of computer science. Learn and apply the concept of eigen values, eigen vectors, diagonalisation of matrices and orthogonalization in inner product spaces for understanding physical and engineering problems			2						1				3	2			
	Average	3.00	3.00	2.00	2.50	1.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	1.00	1.00	#DIV/ 0!	2.00	3.00	2.33	2.67	1.00	
со	Subject Code: ES EE101 Subject Name: Basic Electrical Engineering	P01	P02	P03	PO4	PO5	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	
<u></u>	At the End of the Semester students should be able to	3	3	1	1	1	1 2	1	1	r –	1	1	1 2	2	1	1	2	
C01	Draw phasor diagram of series and parallel AC circuits and thereby calculate p.f. and resonance frequency from it.	3	3	1		1	2	1	1				2	2		1	2	
соз	Illustrate the working principles of electrical machines and power converters.	3	3	2		1	2	1	1				2	2		1	2	
C04	Identify the components of low voltage electrical installations.	3	3	2		1	2	1	1				3	2		1	2	
	Average	3.00	3.00	1.33	#DIV/ 0!	1.00	2.00	1.00	1.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.00	2.00	#DIV/0!	1.00	2.00	
со	Subject Code : BS PH 191 Subject Name : Physics -I Laboratory	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	
	At the End of the Semester students should be able to		-										-					
C01	Testing and verification of Physical Laws; Planck's law, Stefan's Law, Hook's Law. Dispersion of light.	1	2	3	3		1			2		1	1	2	1	1	2	
C02	Determine fundamental constant; Planck's constant, e/m, Stefan's	1	2	3	3		1			2		1	1	2	1	1	2	
C03	Testing and Verifying Characteristic of Photo diode & Solar cell	1	2	3	3	<u> </u>	1	<u> </u>	-	2	<u> </u>	1	1	2	1	1	2	
C04	Measurement of wavelength of light using Grating, Newton's Ring	1	2	3	3		1			2		1	1	2	1	1	2	
C05	Measurement band gap and hall coefficient using four probe methods.	1	2	3	3		1			2		1	1	2	1	1	2	
	Average	1.00	2.00	3.00	3.00	#DIV/ 0!	1.00	#DIV/ 0!	#DIV/ 0!	2.00	#DIV/ 0!	1.00	1.00	2.00	1.00	1.00	2.00	
со	Subject Code : E3 EE 191 Subject Name : Basic Electrical Engineering Laboratory At the End of the Semester students should be able to	P01	P02	P03	PO4	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	
C01	Demonstrate the type, process identification, safety precautions, working principle and applications of measuring instruments as well as electrical mechanics	3	3	3			3		1				3	2		1	2	
C02	Analyze and solve R L C circuits by determining resonant frequency and steady state response.	2	2	1	1		1						2	2				
соз	Realize the need and necessity of calibrating different measuring instruments.	3	3	3	1		3	2	2				3	2		1	2	
C04	Perform the connection of three phase transformer as well as compute the losses and equivalent circuit parameters of single phase transformer.	2	2	1			2		1				2	2				
C05	Identify the important components of the LT switchgear and perform two wattmeter connections for three phase power measurement.	3	2	1		1	2		1				3	2			2	
	Average	2.60	2.40	1.80	1.00	1.00	2.20	2.00	1.25	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.60	2.00	#DIV/0!	1.00	2.00	
со	Subject Code : ES ME192 Subject Name : Workshop/ManufacturingPractices At the End of the Semester students should be able to	P01	P02	P03	PO4	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	

CO1	Fabricate components with their own hands & make use of their skill to	3	2						1	2		3	3		2	1	
	Apply and Analyze knowledge of the dimensional accuracies and									_						<u> </u>	<u> </u>
C02	amensional tolerances possible with different manufacturing processes.	3		1	1		1		1	3			2			1	
СО3	Assemble different components, and develop small devices of their interest.	3				1	1		1		1		2		2		
CO4	Compare between various basic manufacturing processes & choose the suitable one.	3	2						2				2		2		
	Average	3.00	2.00	1.00	1.00	1.00	1.00	#DIV/	1.25	2.50	1.00	3.00	2.25	#DIV/0!	2.00	1.00	#DIV/0
	Subject Code: BS CH291	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
co	At the End of the Semester students should be able to																
C01	Instrumentation techniques like pH metry and Conductometry.	2	1		2		1	1		2	1		2	3			
CO2	Determination of parameters like hardness, dissolve oxygen and chloride content in water.	1			1			1						2			
CO3	Determination of physical properties like adsorption, surface tension viscosity and rate constant.	2	1	1			1	2	2	3	1	2	2	3			
CO4	Determination of partition coefficient of organic acid in immiscible	1	2	1	2	1	1	1			2	1	2	3			
	Average	1.50	1.33	1.00	1.67	1.00	1.00	1.25	2.00	2.50	1.33	1.50	2.00	2.75	#DIV/0!	#DIV/0!	#DIV/0
60	Subject Code: BS M201 Subject Name: Mathematics IIA	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PSO1	PSO2	PS03	PSO4
	At the End of the Semester students should be able to																
C01	The students will have a thorough understanding of Probability and Statistics. They will identify a random variable as discrete and various discrete probability distributions, its mean and variance. They will be able to identify a random variable as continuous and various continuous probability distributions, its mean and variance.	3						1					3	3		3	1
CO2	Students will determine the joint probability distribution, its mean, variance and covariance.	3		2	2									2		2	
CO3	Students will learn about Measures of Central tendency, Moments, Students will learn about Measures of Central tendency, Moments, Skewness and Kurtosis, Binomial, Poisson and Normal and evaluation of statistical parameters for these three distributions, Correlation and regression – Rank correlation.	3	3	3	2	3	2	1					3	3		1	
CO4	The students will learn to fit a straight line, different types of curves by method of least squares. They will be able to small sample test for single mean, difference of means, tests for standard deviation.	3	3	3	2	3	2	1					2	2	2		
	Average	3.00	3.00	2.67	2.00	3.00	2.00	1.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.67	2.50	2.00	2.00	1.00
~~~~	Subject Code : ES CS201 Subject Name : Programming for Problem Solving	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to																
C01	Learn about basics of Computation & principles of Computer Programming.	3				1					1		3	1			1
CO2	impart the basic concepts of digital computers.	2	2		2		3					2		2			
CO3	Impart the basic concepts of C programming language through C character set, expression, operators.							2		3				2			
CO4	Fundamentals of C through Standard input and output Flow of Control and Program Structures.	3			3								3	2			
C05	Impart the basic knowledge on C array, function, pointers and file handling.										3			2			
CO6	Impart the knowledge of real life projects on programming language.	2		3			2		2				3	3	2	2	
	Average	2.50	2.00	3.00	2.50	1.00	2.50	2.00	2.00	3.00	2.00	2.00	3.00	2.00	2.00	2.00	1.00
со	Subject Loge : HM_HU201 Subject Name : English	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PS03	PSO4
	At the End of the Semester students should be able to																
C01	and a knowledge of synonyms, and nonyms etc. in order to enhance their communication skills. Accuire the importance of syntax for cultivation effective language		1		1						2				1		3
CO2	skills.	1	2		1		1			2	3				1		1
соз	Review of grammar – verbs and its different forms and application of the different forms of advanced grammar.									1	2				1		1
CO4	Imbibing the knowledge of effective writing skills like describing, defining, classifying and writing introduction and conclusion.	1	2	1	3		1	1		2	3	1	1		2	1	2
C05	understand the basics of oral communication skills like pronunciation, intonation, stress etc. through listening comprehension, regular conversation practice, dialogue writing and interview sessions.				2		1			3	3	1		1	1	1	3
	Average	1.00	1.67	1.00	1.75	#DIV/ 0!	1.00	1.00	#DIV/ 0!	2.00	2.60	1.00	1.00	1.00	1.20	1.00	2.00
со	Subject Code : BS CH201 Subject Name : Chemistry –I	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PS03	PSO4
	At the End of the Semester students should be able to																
C01	Analyze microscopic chemistry in terms of atomic and molecular orbitals and intermolecular forces.	2	3	1							2		2	3			
CO2	Rationalize bulk properties and processes using thermodynamic and electrochemical considerations.	2	2	1	1			1			2		2	2			
соз	Distinguish the ranges of the electromagnetic spectrum used for exciting different molecular energy levels in various spectroscopic techniques.	3	1		2	3					1		1	3			

	Rationalize periodic properties such as ionization potential, electron	1	1	i i	1	1	1		1	i i	1	i	1		1	1	1	
C04	affinity, oxidation states, electronegativity and concepts on acid bases.	2	2	1	1		2	1	1		1	1	2	3				
	Average	2.25	2.00	1.00	1.33	3.00	2.00	1.00	1.00	#DIV/	1.50	1.00	1.75	2.75	#DIV/0!	#DIV/0!	#DIV/0!	
	Subject Code - ES_ME291									0!								
со	Subject Name : Engineering Graphics & Design	P01	PO2	PO3	PO4	PO5	PO6	P07	P08	P09	P010	P011	P012	PS01	PSO2	PS03	PSO4	
	At the End of the Semester students should be able to																	
C01	Understand the introduction to Engineering Drawing and its place in	3		1			1						3	3	1		3	
602	Have exposure to visual aspects of design and define the scale learn to	-			2						-	-						
C02	draw geometric constructions and curves.	3	1		3		1		1		2	2	1	1				
соз	Apply the Engineering Graphic standards and basic concepts of projections including point, line lamina and solids.	2	2				1		1				1	1	2	1		
604	Apply the basics of isometric projections, sectional views and computer			1		-							-					
C04	graphics.	1	1	3		3	1	1	1	1	1	1	2	1	1			
	Average	2.25	1.33	2.00	3.00	3.00	1.00	1.00	1.00	1.00	1.50	1.50	1.75	1.50	1.33	1.00	3.00	
со	Subject Code : ES_CS291 Subject Name : :Programming for Problem Solving	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PSO1	PSO2	PSO3	PSO4	
	At the End of the Semester students should be able to					·	·								•			
CO1	To formulate the algorithms for simple problems.	2	3	3	1	2	1					1	2	1	1	2		
CO2	To translate given algorithms to a working and correct program.	2	3	3	2	3						1	1	2	2	3		
CO3	To be able to correct syntax errors as reported by the compilers.	2	3	3	2	3	1					1		2	2	3		
CO4	To be able to identify and correct logical errors encountered at run time.	2	3	2	3	2	2					1	2	2	2	2		
	To be able to write iterative as well as recursive programs and		1															
C05	represent data in arrays, strings and structures and manipulate them through a program	2	3	3	2	2	1							2	1	3		
	To be able to declare pointers of different types and use them in	-					<u> </u>			<u> </u>			<u> </u>	-	1.	-		
06	defining self referential structures and create, read and write.	2	1	1	1	1								2	1	2		
	Average	2.00	2.67	2.50	1.83	2.17	1.25	#DIV/ 0!	#DIV/ 0!	#DIV/	#DIV/ 0!	1.00	1.67	1.83	1.50	2.50	#DIV/0!	
	Subject Code : HM HU291	PO1	POD	802	<b>P</b> 04	DOE	POS	PO7	PO9	PC9	PO10	POIL	P012	DS01	BEOD	DE02	<b>PS04</b>	
со	Subject Name : Language Laboratory	POI	P02	PUS	P04	PUS	P06	P07	P08	PU9	POID	POII	P012	P301	P502	PS03	P304	
	At the End of the Semester students should be able to							-								-		
CO1	apply their listening, speaking, conversing, reading and writing skill.	2	2	1	2	1	1			3	3	2	1		1		3	
	The audio devices help the students to understand and master																	
C02	Linguistic/Paralinguistic features Pronunciation/Phonetics/Grammar/Voice/Modulation/Stress/Intonati	1	1	1	1					2	3	1	1		1		1	
	on/Pitch & Accent).																	
603	It helps in instilling a high professionalism in students and also helps them be active individually as well as through teamwork in	,	,	1	1	1	,	,	,	3	2	3	<b>,</b>		1		,	
	multidisciplinary areas.		Ĺ							Ľ		Ĺ						
C04	To hone the speaking skill of students through various activities which	1	1	1	1	1	1			2	3	3	1		2	1	2	
	To hone their presentation skill and help them become more proficient						<u> </u>				-							
CO 5	and lose any inhibitions while speaking in public.	1	1	1	1	1				1	3	2	1	1	1	1	3	
	Personality development of students and grooming them for Personal																	
CO 6	problems by using SWOT Analysis, Group Discussions, JAM Sessions	1	2	1	1	1	1	1	1	3	3	2	2	2	0	1	2	
	etc.	1.22	1.50	1.00	1.17	1.00	1.25	1.50	1.50	2.22	2.02	2.17	1.22	1.50	1.00	1.00	2.00	
	Average Subject Code :FSC 301	1.33	1.50	1.00	1.17	1.00	1.25	1.50	1.50	2.33	2.83	2.17	1.33	1.50	1.00	1.00	2.00	
со	Subject Name : Analog and Digital Electronics	P01	PO2	PO3	P04	PO5	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	
	At the End of the Semester students should be able to																	
C01	Realize the basic operations of different analog components.	3		3									3	1	2	1		
C02	Realize basic gate operations and laws Boolean algebra.		2	3	2		<b> </b>			I	ļ		2	2	2	1		
CO3	understand basic structure of digital computer, stored program concept and different arithmetic and control unit operations.	3	3		3							2		2	2	1		
	Average	3.00	2.50	3.00	2.50	#DIV/	#DIV/	#DIV/	#DIV/	#DIV/	#DIV/	2,00	2,50	1.67	2.00	1.00	#DIV/01	
		5.00	2.50	5.00	2.50	0!	0!	0!	0!	0!	0!	2.00	2.50	1.07	2.00	1.00	#D14/0!	
со	Subject Code :PCC_CS301 Subject Name : Data Structure & Algorithms	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	
	At the End of the Semester students should be able to																	
C01	To differentiate how the choices of Data Structure & Algorithm methods	3	3	2					3	3	3	3	2	2	3			
	Impact the performance of a program.	<u> </u>	<u> </u>	<u> </u>					-	-	-	-	<u> </u>	_				
CO2	programs.	3	2	2	2	2	3	1	1	1	2	1	2		3	3		
CO3	Identify appropriate Data Structure and Algorithmic methods in solving	3	2	3	3	3	3	3	2	3	2	3	3		3		2	
	programs.	-	<u> </u>	<u> </u>	-	-	-			<u> </u>	<u> </u>	-	<u> </u>		-			
CO4	Sorting, Searching and Hashing.	3	3	2					3	3	3	3	2		3		2	
C05	Compare and contrast the benefits of dynamic and static data	3	3	2					3	3	3	3	2		3		2	
	structures implementations.	2.00	2 50	2.25	2.50	2.50	2.00	2.00	2.25	2 50	2 50	2 50	2.25	2.00	2.00	2.00	2.00	
	Subject Code : BSC 301	3.00	2.50	2.25	2.50	2.50	3.00	2.00	2.25	2.50	2.50	2.50	2.25	2.00	3.00	3.00	2.00	
со	Subject Name : Mathematics III(Differential Calculus)	P01	PO2	PO3	P04	PO5	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4	
	At the End of the Semester students should be able to																	

C01	The students will be able to understand the basic of convergence of sequence and series. The use of Limit, continuity and partial derivatives of the courses. They will solve problems related to Gradient, Curl	3		3		2		1					2	3	2		1
C02	and Divergence. They will solve problems on double and triple integrals. They will know the various uses of Green. Gauss and Stokes Theorems.	3	2			2							2	2		3	
соз	They will know the use of Bernoulli's equations in real life problems. They will solve problems on D operators method, method of variation	3				3							2	2			
	of parameters, Cauchy Euler equation. The students will carefully define the meaning of Euler and Hamiltonian																
C04	graph and its properties. They will learn to use KrusKal and Prim's algorithm to find minimal spanning tree.			3	2		#DTV/		#DIV/	#DTV/	#DIV/	#DTV/		3	3		
	Average	3.00	2.00	3.00	2.00	2.33	#DIV/ 0!	1.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.00	2.50	2.50	3.00	1.00
со	Subject Code :PCCCS302 Subject Name : Computer Organization	P01	PO2	PO3	P04	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to											-					
<b>CO1</b>	Understand basic structure of digital computer, stored program concept	2												-			
	and different arithmetic and control unit operations.	3	3	2					2	1	1	2		2			
C02	multiplexer, decoder, encoder etc.	3	2	2	3	1	3		3	3	2	3	2		3	3	2
C03	Perform different operations with sequential circuits.	3	2	3	3	2	3	3	2	3	2	3	3	-	3	_	2
CU4	Average	3.00	2,50	2.50	3.00	1.50	3.00	2.50	2.25	2.25	3	2.67	2.50	2.00	3.00	3.00	2.00
	Subject Code :HSMC 301	Por	0.00	2.00	0.00	005	0.00	2.00	000	000	0.00	0.07	0012	DC01	0.00	0.00	DCO C
со	Subject Name :Economics for Engineers (Humanities II) At the End of the Semester students should be able to	100	102	P03	P04	POS	206	107	208	PO9	2010	2011	2012	PS01	PS02	PS03	PS04
C01	Explicating the fundamentals of Economics, Accounting, Engineering costs & estimations to the students.	3	2			1	1						1	2	1		1
CO2	Describing the concept of Break Even Point Analysis, Time Value of Money and its real time application considering inflation in multidisciplinary areas including the banking and financial sectors.	2		2		2	2	2	2		1	2			2	2	
соз	Demonstrating the reasons and the time of replacing the old technology with the help of Replacement Analysis.		2	2	2		1		1			2					
C04	Comparing the decision making activities under the conditions of Certainty and Uncertainty.	1				3		1		1	2	1				1	
CO5	Evaluating alternative courses of action by applying different financial accounting tools and justifying the decision			2		3						2				2	1
	Joolo ana jaon jing the accision.	1	1			1						l			I		<u> </u>
C06	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries		2	2	3	2	2	3	3	1	2	3	3			2	2
C06	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from industries. Average	2.00	2	2	3 2.50	2	2	3	3	1	2 1.67	3	3	2.00	1.50	2	2 1.33
CO6	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Code : PCC CS393 IT	2.00 PO1	2 2.00	2 2.00	3 2.50	2 2.20	2 1.50	3 2.00	3 2.00	1 1.00	2 1.67 PO10	3 2.00	3 2.00 P012	2.00 PS01	1.50 PS02	2 1.75 PS03	2 1.33
со6 со	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Code : PCC CS393 IT Subject Name : Workshop (SciLab/MATLAB/Python/R)	2.00 PO1	2 2.00 PO2	2 2.00 PO3	3 2.50 PO4	2 2.20 PO5	2 1.50 PO6	3 2.00 P07	3 2.00 P08	1 1.00 P09	2 1.67 PO10	3 2.00 PO11	3 2.00 P012	2.00 PSO1	1.50 PSO2	2 1.75 PSO3	2 1.33 PSO4
coe co	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Code : PCC CS393 IT Subject Name : Workshop (Scilab/MATLAB/Python/R) At the End of the Semester students should be able to De master an understanding of scripting & the carticity for science	2.00 PO1	2 2.00 PO2	2 2.00 PO3	3 2.50 PO4	2 2.20 PO5	2 1.50 P06	3 2.00 P07	3 2.00 P08	1 1.00 PO9	2 1.67 P010	3 2.00 P011	3 2.00 P012	2.00 PSO1	1.50 PSO2	2 1.75 PSO3	2 1.33 PSO4
CO6 CO CO1	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (Scilab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages	2.00 PO1	2 2.00 PO2 3	2 2.00 PO3 3	3 2.50 PO4 2	2 2.20 PO5	2 1.50 PO6	3 2.00 PO7	3 2.00 P08	1 1.00 P09	2 1.67 P010	3 2.00 PO11	3 2.00 P012 2	2.00 PSO1 2	1.50 PSO2	2 1.75 PS03 3	2 1.33 PSO4 3
CO6 CO CO1 CO2	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Subject Code : PCC CS393 IT Subject Name : Workshop (SCilab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions	2.00 PO1 2 3	2 2.00 PO2 3 3 3	2 2.00 PO3 3 3	3 2.50 PO4 2 3	2 2.20 PO5	2 1.50 PO6	3 2.00 PO7	3 2.00 P08	1 1.00 P09	2 1.67 P010	3 2.00 PO11	3 2.00 PO12 2 1	2.00 PSO1 2 1	1.50 PSO2 3 2	2 1.75 PS03 3 3	2 1.33 PSO4 3 3
CO6 CO CO1 CO2 CO3	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from industries. Average Subject Code : PCC CS393 IT Subject Name : Workshop (SciLab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python.	2.00 PO1 2 3 3	2 2.00 PO2 3 3 3 3	2 2.00 PO3 3 3 3 3	3 2.50 PO4 2 3 3	2 2.20 PO5	2 1.50 PO6	3 2.00 PO7	3 2.00 P08	1 1.00 P09	2 1.67 P010	3 2.00 P011	3 2.00 PO12 2 1 2	2.00 PSO1 2 1 1	1.50 PSO2 3 2 2	2 1.75 PSO3 3 3 3	2 1.33 PSO4 3 3 2
C06 C01 C02 C03 C04	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Code : PCC CS393 IT Subject Name : Workshop (SciLab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems.	2.00 PO1 2 3 3 3 3	2 2.00 PO2 3 3 3 3 3 3	2 2.00 PO3 3 3 3 3 3 3	3 2.50 PO4 2 3 3 3 3	2 2.20 P05	2 1.50 P06	3 2.00 PO7	3 2.00 PO8	1 1.00 P09	2 1.67 P010	3 2.00 P011	3 2.00 P012 2 1 2 1	2.00 PSO1 2 1 1 1	1.50 PSO2 3 2 2 2	2 1.75 PSO3 3 3 3 1	2 1.33 PSO4 3 3 2 1
C06 C01 C02 C03 C04	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. <b>Average</b> Subject Code : PCC CS393 IT Subject Name : Workshop (SciLab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. <b>Average</b>	2.00 PO1 2 3 3 3 3 2.75	2 2.00 PO2 3 3 3 3 3 3 3 3	2 2.00 PO3 3 3 3 3 3 3 3.00	3 2.50 PO4 2 3 3 3 2.75	2 2.20 PO5 1	2 1.50 PO6 * UV/ 0!	3 2.00 PO7 *	3 2.00 PO8 	1 1.00 PO9 * UV/ 0!	2 1.67 PO10 ////////////////////////////////////	3 2.00 P011 	3 2.00 PO12 2 1 2 1 1 .50	2.00 <b>PS01</b> 2 1 1 1 1.25	1.50 PSO2 3 2 2 2 2.25	2 1.75 PS03 3 3 3 1 2.50	2 1.33 <b>P504</b> 3 3 2 1 2.25
CO6 CO1 CO2 CO3 CO4 CO4	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (SGLiab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Code :ESC 391	2.00 PO1 2 3 3 3 3 2.75 PO1	2 2.00 PO2 3 3 3 3 3 3 3 3 0 9 02	2 2.00 PO3 3 3 3 3 3 3 3 0 9 03	3 2.50 PO4 2 3 3 3 3 2.75 PO4	2 2.20 PO5 1 1.00 PO5	2 1.50 PO6 #DIV/ 0! PO6	3 2.00 PO7 #DIV/ 0! PO7	3 2.00 PO8 #DIV/ 0! PO8	1 1.00 PO9 #DIV/ 0!	2 1.67 P010 * UV/ 0!	3 2.00 P011 #DIV/ 0! P011	3 2.00 P012 2 1 2 1 1.50 P012	2.00 PSO1 2 1 1 1.25 PSO1	1.50 PS02 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.75 PS03 3 3 3 1 2.50 PS03	2 1.33 PS04 3 3 2 1 2.25 PS04
CO6 CO1 CO2 CO3 CO4 CO4	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Subject Code : PCC CS393 IT Subject Name : Workshop (SCiLab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to	2.00 PO1 2 3 3 3 3 2.75 PO1	2 2.00 PO2 3 3 3 3 3 3 0 PO2 2 2	2 2.00 PO3 3 3 3 3 3 3 3 0 PO3	3 2.50 PO4 2 3 3 3 2.75 PO4	2 2.20 PO5 1 1.00 PO5	2 1.50 PO6 #DIV/ 0! PO6	3 2.00 PO7 #DIV/ 0! PO7	3 2.00 PO8 #DIV/ 0! PO8	1 1.00 P09 #DIV/ 0! P09	2 1.67 P010 #DIV/ 0! P010	3 2.00 P011 	3 2.00 P012 2 1 1.50 P012	2.00 PSO1 2 1 1 1.25 PSO1	1.50 PS02 3 2 2 2.25 PS02	2 1.75 PS03 3 3 3 1 2.50 PS03	2 1.33 PS04 3 3 2 1 2.25 PS04
CO6 CO1 CO2 CO3 CO4 CO4 CO1 CO1 CO1 CO1	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. <b>Average</b> Subject Code : PCC CS393 IT Subject Name : Workshop (SciLab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. <b>Average</b> Subject Code : ESC 391 Subject Code : ESC 391 Subject Code : ESC 391 Subject Ide : Analog and Digital Electronics At the End of the Semester students should be able to Familarity with the basic gates.	2.00 PO1 2 3 3 3 3 2.75 PO1 3 2.75	2 2.00 PO2 3 3 3 3 3 3 0 PO2 V 2 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO3 3 3 3 3 3.00 PO3	3 2.50 PO4 2 3 3 3 3 2.75 PO4 1	2 2.20 PO5 	2 1.50 PO6 #DIV/ 0! PO6	3 2.00 PO7 #DIV/ 0! PO7	3 2.00 PO8 #DIV/ 0! PO8	1 1.00 PO9 #DIV/ 0! PO9 1 1	2 1.67 P010 #DIV/ 0! P010 1 1	3 2.00 P011 	3 2.00 P012 2 1 2 1 1.50 P012 	2.00 PS01 2 1 1 1.25 PS01 2 2 2	1.50 PS02 3 2 2 2.25 PS02	2 1.75 PS03 3 3 3 1 2.50 PS03 2 2	2 1.33 PS04 3 3 2 1 2.25 PS04 1
CO6 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO1 CO2 CO3	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (Scilab/MATLAB/Python/R) At the End of the Semester students should be able to fo master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to Familarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concent building about how to design registers and counters	2.00 PO1 2 3 3 3 2.75 PO1 3 3 3 3 3	2 2.00 PO2 3 3 3 3 3 3 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.00 PO3 3 3 3 3 3.00 PO3	3 2.50 PO4 2 3 3 3 2.75 PO4 1 1 2	2 2.20 PO5 	2 1.50 PO6 #DIV/ 0! PO6	3 2.00 PO7 #DIV/ 0! PO7	3 2.00 PO8 #DIV/ 0! PO8	1 1.00 PO9 #DIV/ 0! PO9 1 1 2	2 1.67 P010 #DIV/ 0! P010 1 2 2	3 2.00 PO11 #DIV/ 0! PO11 1 1 2	3 2.00 PO12 2 1 1.50 PO12 1 1.50 1 3	2.00 PS01 2 1 1 1.25 PS01 2 2 3	1.50 PS02 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.75 PS03 3 3 3 1 2.50 PS03 2 3 2 3 2	2 1.33 PS04 3 3 2 1 2.25 PS04 1
CO6 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO1 CO2 CO3 CO4	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (Scilab/MATLAB/Python/R) At the End of the Semester students should be able to Fo master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Code :ESC 391 Subject Code :ESC 391 Subject Code :ESC 391 Concept building about how to design registers and sequential circuits. Concept building about how to design registers and counters.	2.00 PO1 2 3 3 3 2.75 PO1 3 3 3 3 3 3 3 3 3	2 2.00 PO2 3 3 3 3 3 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.00 PO3 3 3 3 3 3 3 0 PO3	3 2.50 PO4 2 3 3 2.75 PO4 1 1 2 3	2 2.20 PO5 1 1.00 PO5 3 2 2 2 2	2 1.50 PO6 #DIV/ 0! PO6	3 2.00 PO7 #DIV/ 0! PO7	3 2.00 PO8 	1 1.00 PO9 #DIV/ 0! PO9 1 1 2 3	2 1.67 PO10 #DIV/ 0! PO10 1 2 2 3	3 2.00 PO11 #DIV/ 0! PO11 1 1 2 3	3 2.00 PO12 2 1 1 1.50 PO12 1 1 3 3	2.00 PS01 2 1 1 1.25 PS01 2 3 3	1.50 PS02 3 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.75 PS03 3 3 3 1 2.50 PS03 2 3 2 2 2	2 1.33 PS04 3 3 2 1 2.25 PS04 1 1
C06 C01 C02 C03 C04 C04 C01 C02 C01 C02 C03 C04	Developing financial reports in techno economic environment and manyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (SciLab/MATLAB/Python/R) At the End of the Semester students should be able to Fo master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to Familarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concept building about how to design registers and counters. Live long learning about how to design memory and processor. Average	2.00 PO1 2 3 3 3 2.75 PO1 3 3 3 3 3 3 3 3 3 0 0	2 2.00 PO2 3 3 3 3 3 3 0 PO2	2 2.00 PO3 3 3 3 3 3 0 PO3 #DIV/	3 2.50 PO4 2 3 3 3 3 2.75 PO4 1 1 1 2 3 3 1.75	2 2.20 PO5 1 1 1.00 PO5 3 2 2 2 2 2 2	2 1.50 PO6 #DIV/ PO6 #DIV/	3 2.00 PO7 #DIV/ 0! PO7 #DIV/	3 2.00 PO8 #DIV/ 0! PO8 #DIV/	1 1.00 PO9 #DIV/ 0! PO9 1 1 2 3 1.75	2 1.67 PO10 * DIV/ 0! PO10 1 2 2 3 3 2.00	3 2.00 PO11 #DIV/ 0! PO11 1 2 3 2.00	3 2.00 PO12 2 1 2 1 1.50 PO12 1 1 3 3 2.00	2.00 PS01 2 1 1 1 1.25 PS01 2 3 3	1.50 PS02 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 3 3 2 2 50	2 1.75 PS03 3 3 3 1 2.50 PS03 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.33 PSO4 3 3 2 1 2.25 PSO4 1 1 1.00
CO6 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Code : PCC CS393 IT Subject Name : Workshop (SGLiab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Code :ESC 391 S	2.00 PO1 2 3 3 3 2.75 PO1 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO2 3 3 3 3 3 3 3 4 2 3 3 3 3 3 3 3 3 3 3	2 2.00 PO3 3 3 3.00 PO3 *DUV/ 0!	3 2.50 PO4 2 3 3 3 3 3 2.75 PO4 1 1 1 1 2 3 1.75	2 2.20 PO5 1 1.00 PO5 3 2 2 2 2 2.25	2 1.50 PO6 #DIV/ 0! PO6 #DIV/ 0! #DIV/ 0!	3 2.00 PO7 #DIV/ 0!	3 2.00 PO8 #DIV/ 0! PO8 #DIV/ 0! #DIV/ 0!	1 1.00 PO9 *DIV/ 0! PO9 1 1 1 2 3 1.75	2 1.67 PO10 #DIV/ 0! PO10 1 2 3 3 2.00	3 2.00 PO11 	3 2.00 PO12 2 1 1.50 PO12 PO12 1 1.3 3 3 3.00	2.00 PS01 2 1 1 1 1.25 PS01 2 2 3	1.50 PS02 3 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 5 0 2 3	2 PS03 3 3 1 2.50 PS03 2 3 2 2 2.25	2 1.33 PSO4 3 3 2 1 2.25 PSO4 1 1 1.00
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO4 CO4 CO1 CO2 CO3 CO4 CO4 CO4 CO4 CO4 CO4 CO4 CO4 CO4 CO4	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Code : PCC CS393 IT Subject Name : Data Structure & Algorithms At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code : ESC 391 Subject Name : Data Structure & Algorithms Live long learning about how to design registers and counters. Live long learning about how to design memory and processor. Average Subject Code : PCC CS391 Subject Name : Data Structure & Algorithms	2.00 P01 2 3 3 3 3 2.75 P01 3 3 3 3 3 3 3 3 00 P01	2 2.00 PO2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO3 3 3 3 3 3.00 PO3 *DIV/ 0! PO3	3 2.50 2 3 3 3 3 2.75 PO4 1 1 1 2 3 3 1.75 PO4	2 2.20 PO5 1 1.00 PO5 3 2 2 2 2 2 2.25 PO5	2 1.50 PO6 #DIV/ 0! PO6 #DIV/ 0! PO6	3 2.00 PO7 #DIV/ 0! PO7	3 2.00 PO8 *DIV/ 0! PO8 *DIV/ 0! *DIV/ 0! PO8	1 1.00 PO9 *DIV/ 0! PO9 1 1 2 3 1.75 PO9	2 1.67 PO10 *DIV/ 0! PO10 1 2 2 3 3 2.00 PO10	3 2.00 PO11 *DIV/ 0! PO11 *DIV/ 0! 2.00 PO11 2.00 PO11	3 2.00 PO12 2 1 2 1 1.50 PO12 1 1 3 3 2.00 PO12	2.00 PS01 2 1 1 1 1.25 PS01 2.50 2.50 PS01	1.50 PSO2 3 2 2 2.25 PSO2 3 3 2 2 3 3 2.50 PSO2	2 1.75 PS03 3 3 1 2.50 PS03 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.33 9504 3 3 2 1 1 2.25 PS04 1 1 0 1.00 PS04
C05 C01 C02 C03 C04 C04 C01 C02 C03 C04 C01 C03 C04 C04	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. <b>Average</b> Subject Code : PCC CS393 IT Subject Name : Workshop (SCiLab/MATLAB/Python/R) At the End of the Semester students should be able to To master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. <b>Average</b> Subject Code :ESC 391 Subject Code : ESC 391 Subject Code : Analog and Digital Electronics At the End of the Semester students should be able to Tamilarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concept building about how to design memory and processor. <b>Average</b> Subject Code : DCC CS391 Subject Code : Data Structure & Algorithms At the End of the Semester students should be able to The series and the semester students should be able to Concept building about how to design memory and processor. <b>Average</b> Subject Code : Data Structure & Algorithms At the End of the Semester students should be able to	2.00 P01 2 3 3 3 3 2.75 P01 3 3 3 3 3 3 0 P01	2 2.00 PO2 3 3 3 3 3 3 3 2 3 0 2 2 2 2 2 2 2 2 2	2 2.00 PO3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 9 03 8 4 01 7 01 9 03	3 2.50 PO4 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1 2.75 9 04 1 1 1 2 3 3 1.75 9 04	2 2.20 PO5 1.00 PO5 3.2 2.25 2.25 PO5	2 1.50 PO6 #DIV/ PO6 #DIV/ 0! PO6	3 2.00 PO7 *DIV/ 0! PO7 *DIV/ 0! PO7	3 2.00 PO8 *DIV/ 0! PO8 *DIV/ 0! PO8	1 1.00 PO9 *DIV/ 0! PO9 1 1 2 3 1.75 PO9	2 1.67 P010 "DIV/ 0! P010 1 2 2 3 2.00 P010	3 2.00 PO11 	3 2.00 P012 2 1 2 1 1.50 P012 7 1 1 1 3 3 2.00 P012	2.00 PS01 2 1 1 1.25 PS01 2 2 3 3 2.50 PS01	1.50 PS02 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.75 PS03 3 3 1 2.50 PS03 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.33 PSO4 3 3 2 1 2.25 PSO4 1 1 1.00 PSO4
C01 C02 C03 C04 C04 C01 C01 C02 C03 C04 C01 C03 C04 C01 C03 C04 C01 C03 C04 C01 C03 C04 C04 C04 C04 C04 C04 C04 C04 C04 C04	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (Scilab/MATLAB/Python/R) At the End of the Semester students should be able to fo master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Mattab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program using R/Mattab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to Familarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concept building about how to design registers and counters. Live long learning about how to design registers and counters. Live long learning about how to design memory and processor. Average Subject Code :PCC CS391 Subject Name : Data Structure & Algorithms At the End of the Semester students should be able to Implement various basic data structures and its operations.	2.00 P01 2 3 3 3 3 2.75 P01 3 3 3 3 3 3 3 3 0 P01 2 2 2 2	2 2.00 PO2 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2.50 PO4 3 3 3 3 3 3 3 2.75 PO4 1 1 1 2 3 3 1.75 PO4 3 3 2.75	2 2.20 PO5 1 1.00 PO5 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.50 PO6 #DIV/ 0! PO6 #DIV/ 0!	3 2.00 PO7 #DIV/ 01 PO7 #DIV/ 01 PO7 2 2	3 2.00 PO8 #DIV/ 0! PO8 #DIV/ 0! PO8	1 1.00 PO9 **DIV/ 0! PO9 1 1 2 3 1.75 PO9 3 3	2 1.67 P010 *DIV/ P010 P010 1 2 2 3 3 2.00 P010 P010	3 2.00 P011 *DIV/ 0! P011 1 2 3 3 2.00 P011	3 2.00 P012 2 1 2 1 1.50 P012 7 1 3 3 3 2.00 P012 2 2 2	2.00 PS01 2 1 1 1 1.25 PS01 2 3 	1.50 PS02 3 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 2 3 2 2 3 2 2 3 2 2 5 0 PS02	2 1.75 PS03 3 3 3 1 2.50 PS03 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.33 PSO4 3 3 2 1 2.25 PSO4 1 1.00 PSO4
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. Average Subject Name : Workshop (SciLab/MATLAB/Python/R) At the End of the Semester students should be able to fo master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. Average Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to Familarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concept building about how to design registers and counters. 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To be exposed to advanced applications of mathematics, engineering and natural sciences to program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. <b>Average</b> Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to Familarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concept building about how to design registers and counters. Live long learning about how to design memory and processor. <b>Average</b> Subject Code :PCC CS391 Subject Code :PCC CS391	2.00 P01 3 3 3 3 2.75 2.75 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO2 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 P03 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2.50 PO4 3 3 3 3 2.75 2.75 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2.20 PO5 7 1 1 1 0 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1.50 PO6 *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ *DIV/ 0! *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/ *DIV/	3 2.00 PO7 4 4 4 4 4 4 4 4 4 4 4 4 4	3 2.00 POS 4 2 4 2 4 2 4 2 4 2 4 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5	1 	2 1.67 P010 **DIV/ 0! 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CO CO CO CO CO CO CO CO CO CO CO CO CO C	Developing financial reports in techno economic environment and analyzing financial viability of the organisation and also designing a Project Report considering the actual information collected from Industries. <b>Average</b> Subject Name : Workshop (Scilab/MATLB/Python/R) At the End of the Semester students should be able to Fo master an understanding of scripting & the contributions of scripting anguages Design real life problems and think creatively about solutions Apply a solution in a program using R/Matlab/Python. To be exposed to advanced applications of mathematics, engineering and natural sciences to program real life problems. <b>Average</b> Subject Code :ESC 391 Subject Name : Analog and Digital Electronics At the End of the Semester students should be able to amilarity with the basic gates. Engineering knowledge about combinational and sequential circuits. Concept building about how to design registers and counters. <b>Average</b> Subject Code :PCC CS391 Subject Name : Data Structure & Algorithms At the End of the Semester students should be able to Implement various storting and asching algorithms. Implement various storting and acching algorithms. Implement various storting and acching algorithms. Implement various storting and asching algorithms. Implement various graphs algorithms. Develop simple applications using various data structures. Develop algorithms using various data structures. Develop algorithms using various start computer Organization Lab	2.00 P01 3 3 3 2.75 P01 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO2 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2.50 PO4 3 3 3 3 3 2.75 PO4 1 1 1 2 3 1.75 PO4 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.20 PO5 1 1 1 1 0 1 1 0 2 2 2 2 2 2 2 2 2 2 2	2 1.50 PO6 *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0! *DIV/ 0!	3 2.00 PO7 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ 01 *DIV/ *DIV/ 01 *DIV/ *DIV/ *DIV/ 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	At the End of the Semester students should be able to	· · · ·														-	
C01	Analyze the designing process of Basic IC and Combinational Circuits			2		3				2		2	2	2	3	2	3
CO2	Express arithmetic, logic and shift micro operations in symbolic form and		2	2	2	2				2		2	2	3	2	3	2
602	their corresponding circuits at a register transfer LEVEL. Also apply it for the design and implementation of ALU.		<u> </u>	_	_	_						_			_	-	
CO4	Tesigning Auger Circuits and their application	<u> </u>	-	2	2	3				<u> </u>		<u> </u>	2	3	2	3	2
C04	LUGRICHY ALL CRIP and their application.			2	2	3						3	3	1	3	2	3
005		#DIV/		-	3		#DIV/	#DIV/	#DIV/		#DIV/			-	-	-	-
	Average Subject Code :PCC CS401	0!	1.50	2.40	2.25	2.80	0!	0!	0!	2.00	0!	2.33	2.40	2.40	2.40	2.40	2.20
со	Subject Name : Discrete Mathematics	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04
	At the End of the Semester students should be able to																
CO1	They will be able to classify its algebraic structure for a given a mathematical problem. They will learn to evaluate Boolean functions and simplify expressions using the properties of Boolean algebra.	3	2	1	2	1			1	1	1		2	2			1
CO2	The students will be able to solve many numerical problems on number theory. They will learn about many real life applications of prime numbers.	2	2	1		2	1			1			1	3	1		
<b>CO3</b>	The students will be able to Express a logic sentence in terms of predicates, quantifiers, and logical connectives.	,	3	2	з	,	1	1	2		1	1	1	3	,	1	2
205	Also to derive the solution for a given problem using deductive logic and prove the solution based on logical inference.		Ľ					Ļ	-			Ľ	Ľ				
CO4	The students will be able to Develop the given problem as graph networks and solve with techniques of graph theory.	1	1	2	2	1.67	1	1.00	1.50	1	1.00	1.00	1	2	1	1.00	1 50
	Average	2.00	2.00	1.50	2.33	1.07	1.00	1.00	1.50	1.00	1.00	1.00	1.25	2.50	1.55	1.00	1.50
со	Subject Name : Computer Architecture At the End of the Semester students should be able to	P01	P02	P03	P04	PO5	P06	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4
C01	Learn pipelining concepts with a prior knowledge of stored program methods	3	3	2	2	3	2	1	1	2	1	3	2	3	2	3	1
CO2	Learn about memory hierarchy and mapping techniques	3	3	1	2	3	2	1	1	3	2	3	2	3	2	3	
C03	Study of parallel architecture and interconnection network	3	3	2	2	3	2	1	1	3	2	3	3	2	3	2	
	Average	3.00	3.00	1.67	2.00	3.00	2.00	1.00	1.00	2.67	1.67	3.00	2.33	2.67	2.33	2.67	1.00
	Subject Code:PCC CS403	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PSO1	PS02	PSO3	PSO4
со	Subject Name : Formal Language & Automata Theory																
	The student will be able to understand the basic properties of formal									T							
CO1	languages and grammars.	3	3	2	3			1				1	2	2	3	2	
CO2	recursively enumerable languages.	3						2					2	2	1	3	
CO3	specific language.	3		3	2			1					2	3			
CO4	computation and computational models including decidability and intractability.	3	2	2	3	3	1	1					2	3	3	3	
	Average	3.00	2.50	2.33	2.67	3.00	1.00	1.25	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	1.00	2.00	2.50	2.33	2.67	#DIV/0!
со	Subject Code :PCC CS404 Subject Name : Design &Analysis of Algorithms	P01	PO2	РОЗ	P04	PO5	PO6	P07	PO8	P09	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to																
CO1	Analyze worst case running times of algorithms based on asymptotic	2	3	1	1									1	2		
CO2	anarysis and justify the correctness of algorithms. Describe the Greedy paradigm and explain when an algorithm design situation calls for it. For a given problem develop Greedv Algorithm.	2	3	3	3	3							2	2	3	2	
соз	Describe Divide n –Conquer paradigm and explain when an algorithm design situation calls for it. Synthesize Divide n Conquer algorithms. Derive and solve Recurrence relations	2	3	3	3	3							2	1	2	3	
CO4	Describe the Dynamic Programming paradigm and explain when an algorithm design situation calls for it for a given problem.	2	3	3	3	3							2	1	2	2	
CO5	Develop the Dynamic Programming algorithms and analyze to determine its computational complexity.	2	3	3	3	3							2	2	3	2	
	Average	2.00	3.00	2.60	2.60	3.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.00	1.40	2.40	2.25	#DIV/0!
со	Subject Code : BSC 401 Subject Name : Biology	P01	PO2	PO3	P04	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to																
CO1	Understanding the fundamental difference between Biology and Engineering	2	2	2		<u> </u>	3	2		<u> </u>	<u> </u>		2	1		2	3
CO2	Develop knowledge on Taxonomy and Hierarchy of Life, using different model organism.		1		3	2				3			2	1		2	2
соз	Appryous the concept of Genetics and Molecular basis of cooing and decoding genetic information and its application in Genetic Engineering.	1	2		3	3	2		2	3	2	2	3	2	2	3	3
CO4	Apply thermodynamics and enzymology principles to Biological system.	3	2		1	2				1	2		2	3		1	2
C05	Identify and classify Microorganisms.	1	1		2	2		2		2			2	1		2	
	Average Subject Code + MC - 401	1.75	1.60	2.00	2.25	2.25	2.50	2.00	2.00	2.25	2.00	2.00	2.20	1.60	2.00	2.00	2.50
со	Subject Volde : Hit 401 Subject Name : Environmental Sciences	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PS01	PS02	PS03	PSO4

	At the End of the Semester students should be able to			-							•						-
C01	Ability to understand the natural environment and its relationships	3					2	3					2	2	1	1	,
	with human activities						<u> </u>	<u> </u>					<u> </u>	<u> </u>	<u>⊢ ·</u>	<u> </u>	<u> </u>
CO2	to assess environmental and health risk.	3	2	2	1	2	2	3					1	3	2	2	3
CO3	Ability to understand environmental laws and regulations to develop quidelines and procedures for health and safety issues.	2					3	3	2		2		2	1	1		3
CO4	Ability to solve scientific problem -solving related to air , water, noise	2	3	3	2	2	1	2					2	3	2	3	1
	and land pollution	_	-	-	_	_	-	-		#DTV/		#DIV/	_	-	-	-	-
	Average	2.50	2.50	2.50	1.50	2.00	2.00	2.75	2.00	0!	2.00	0!	1.75	2.25	1.50	2.00	2.25
со	Subject Code :PCC_CS 492 Subject Name : Computer Architecture	P01	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	P010	P011	P012	PSO1	PSO2	PS03	PSO4
	At the End of the Semester students should be able to														•		•
CO1	Able to design 8 bit adder, multiplier and divider.	3	3	2	2	3	2	1	1	2	1	3	2	3	2	3	
C02	Able to design 8 bit Register.	3	3	1	2	3	2	1	1	3	2	3	2	3	2	2	<u> </u>
CO3	Able to design Memory unit and perform memory operations.	3	3	2	2	3	2	1	1	3	2	3	3	3	2	2	1
04	Average	3.00	3.00	1.75	2.00	3.00	2.00	1.00	1.00	2.75	1.75	3.00	2.50	2.75	2.25	2.50	1.00
	Subject Code :PCC CS494	B01	802	802	B04	BOE	POE	807	DO9	BOB	P010	P011	<b>PO12</b>	DEO1	DE02	8602	DE04
со	Subject Name : Design &Analysis of Algorithms	101	102	103	P04	105	100	10/	108	109	1010	1011	1012	-301	-302	-303	-504
C01	At the End of the Semester students should be able to	2	3	1	2		1	-	1		2	1	2	2	3	2	
C02	Analyze efficient of various algorithms	2	2	1	1		-	1	<u> </u>		2	<u> </u>	2	3	3	1	
C03	Apply techniques of stack and queues solved problems	3	1	-	2	3		<u> </u>			1	-	1	2	2	1	
CO4	Solve a program of many ways using different techniques	2	2	1	1		2	1	1		1	1	2	3	3	3	1
C05	Identify and evalute complex problems using mathematics and	2	2	2	1	1	1		3	2		1	1	3	3	3	1
	engineering science	2 20	2.00	1 25	1 40	3.00	1 3 2	1.00	1.67	2.00	1.50	1.00	1.60	2.60	2.80	2.00	1.00
	Subject Code :ESC501	2.20	2.00	1.25	1.40	5.00	1.55	1.00	1.07	2.00	1.50	1.00	1.00	2.00	2.80	2.00	1.00
со	Subject Name : Software Engineering	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2	PS03	PSO4
	At the End of the Semester students should be able to								_			_					
C01	Evaluate and analyze the SDLC and basic architecture SRS documents.	2	3	1	-			<u> </u>			2		2	2	3	2	1
CO2	Help to understand the software design and coding technique	2	2	1	1	-		1			2	<u> </u>	2	2	2	1	<u> </u>
C04	Understand the concept project management	2	2	1	1	<u> </u>	2	1	1		1	1	2	3	3	2	
C05	Identify various concepts of Advanced UML techniques.	2	2	2	1		1	<u> </u>	3	2	<u> </u>	1	1	3	3	3	2
	Average	2.20	2.00	1.25	1.25	3.00	1.50	1.00	2.00	2.00	1.50	1.00	1.60	2.60	2.80	2.20	1.50
	Subject Code :PCC CS501	PO1	PO2	PO3	P04	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PS03	PSO4
со	At the End of the Semester students should be able to																
	To understand and list the different stages in the process of	-				6					1			-	-		
C01	compilation.	2	3	3	1	2	1		L			1	2	2	3		
CO2	To identify different methods of lexical analysis.	2	3	3	2	3						1	1	2	3	3	I
CO3	To design top down and bottom up parsers	2	3	3	2		1						<u> </u>	3	2	2	l
C04	To develop syntax directed translation schemes	2	3	2	2	2	1					<u> </u>	<u> </u>	2	3	3	<u> </u>
C06	To develop algorithms to generate code for a target machine	2	1	1	1	1	<u> </u>	<u> </u>				<u> </u>		3	3	2	1
	Average	2.00	2.67	2 50	1.87	2.17	1.25	#DIV/	#DIV/	#DIV/	#DIV/	1.00	1.67	2 50	2.83	2.67	1.00
	Average	2.00	2.07	2.50	1.85	2.17	1.25	0!	0!	0!	0!	1.00	1.07	2.50	2.83	2.07	1.00
со	Subject Code : MC CS501 Subject Name : Constitution of India	P01	PO2	PO3	P04	PO5	PO6	P07	P08	P09	P010	P011	P012	PS01	PSO2	PS03	PSO4
	At the End of the Semester students should be able to																
CO1	Acclimatizing the students with the general concepts of Indian	1					1		2			1				3	3
CO2	Understanding the concept of Fundamental Rights & Duties, Directive Principles, State and Central policies, Electoral Process, Powers and			2			2	1	1		1	1		3	2		2
C03	functions of Municipalities, Panchayats and Co operative Societies. Demonstrating the special provisions for SC, ST, Women, Children &			2			2								3		3
C04	Community of backward classes. Analysing the roles of Governor, Chief Minister, Prime Minister & Descients in the sectors of the sector of the		1	-			2							3		2	2
	President in the context of our constitution.																
CO5	Engineers.	2			1		1	2	3	1		3	1		3		3
CO6	Creating a solid base of Indian Constitution to take up competitive examinations.					1	2		2		1	2	2	3		3	2
	Average	1.50	1.00	2.00	1.00	1.00	1.67	1.50	2.00	1.00	1.00	1.75	1.50	3.00	2.67	2.67	2.50
	Subject Code :PCC CS502	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PS03	PSO4
CO	Summer and the Constant of System																
	At the End of the Semester students should be able to																
-	At the End of the Semester students should be able to							1				<u> </u>					
C01	At the End of the Senestics students should be able to Create Processes and Threads Develop alongithms for process scheduling for a given excellence of	1	2	2	1	1			2	3			3	3	3		1

										-							
соз	For a given specification of memory organization develop the techniques for optimally allocating memory to processes by increasing memory utilization and for improving the access time. Design and implement file management system.	2	3	2	3	1			2	2		2	1	2	3	2	1
CO4	For a given I/O devices and OS (specify) develop the I/O management functions in OS as part of a uniform device abstraction by performing operations for synchronization between CPU and I/O controllers.	2	3	1	2					1		1	2	2	3		
	Average	2.00	2.75	1.75	2.00	1.33	#DIV/ 0!	#DIV/ 0!	2.33	2.00	2.00	1.67	2.25	2.50	3.00	2.50	1.00
со	Subject Code :PCCCS503 Subject Name : Object Oriented Programming	P01	PO2	PO3	P04	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to		_					_									
CO1	Understand basic structure of object oriented programming	3	2	2	2	2			1	2			2	3	2	2	
CO2	Understand basic structure of writing the program in object oriented programming language	3	2	2	2	2	2	2	2	3	2	2	3	2	3	2	
CO3	Write the code using class and object concept by Java.	3	2	3			2		2	2	2	2	3	2	2		
CO4	Understand utility of object oriented programming	3	3	2	3			1					3	3			1
	Average	3.00	2.25	2.25	2.33	2.00	2.00	1.50	1.67	2.33	2.00	2.00	2.75	2.50	2.33	2.00	1.00
со	Subject Code :HSMC 501 Subject Name : Introduction to Industrial Management(Humanities III)	P01	PO2	РОЗ	P04	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PSO1	PS02	PS03	PSO4
	At the End of the Semester students should be able to																
C01	Defining the basic concepts of Management, Organization Structure, Culture & Important provisions of Factory Act and Labour Laws.	1		3			2	1	3	2	2	3	2	1		1	3
CO2	Explaining material requirement planning, purchasing systems, Inventory control & store keeping procedure followed by Manufacturing Industry.	1	1	1	2			2	2		2	2	2			2	
соз	Apply the techniques of CPM & PERT & implementing the network diagram for a real life project containing different activities.		3	2		2	2			2			3		2		
CO4	Analyse Scheduling, Critical ratio, Gantt Chart etc. in the context of Production, Planning & Control		2		2						1			2			1
C05	Evaluate the recent trends in Enterprise Resource Planning, Logistic & Supply Chain Management				2	3	2	3		2	2	2		1		2	
CO6	Designing a Value Analysis Flow diagram and develop ways to reduce wastage.			2	1	2			2		3	2	1				2
	Average	1.00	2.00	2.00	1.75	2.33	2.00	2.00	2.33	2.00	2.00	2.25	2.00	1.33	2.00	1.67	2.00
	Subject Code :PEC IT 501B	DOI	POR	002	POC	POF	POC	807	DOG	POO	POIC	POLC	0012	DCO1	DC02	DC02	DCO 1
со	Subject Name : Artificial Intelligence	201	P02	P03	P04	205	P06	107	208	209	P010	2011	2012	PS01	PS02	PS03	PS04
	At the End of the Semester students should be able to																
C01	Identify the scope and limits of the artificial intelligence (AI) field	3	3	3	3									2		3	
CO2	Assess the applicability, strengths, and weaknesses of the basic knowledge representation	2		2	2		2								2	3	
соз	Interpret the role of knowledge representation, problem solving, and learning	2		2	2		2							2		2	1
CO4	Explain various search algorithms (uninformed, informed, and heuristic) for problem solving	2	2	2										3		2	
CO5	Comprehend the fundamentals of Natural Language Processing		2	2	2		2						2		2	2	
	Average	2.25	2.33	2.20	2.25	#DIV/ 0!	2.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.00	2.33	2.00	2.40	1.00
со	Subject Code :ESC591 Subject Name : Software Engineering	P01	PO2	PO3	P04	P05	PO6	P07	P08	P09	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to										_	_				_	
C01	Understand the software engineering methodologies involved in the phases for project development.	2	2			1	1	1	1	2	2	1	1	3	3	2	
CO2	Gain knowledge about open source tools used for implementing software engineering methods.	1	1	2	1	1	1	1		3	2		1	3		2	3
соз	Exercise developing product startups implementing software engineering.	3	2	2		2	1	1	1	2	2	2	1	3		2	3
CO4	Prepare and analyze CPM and PERT for given activities	3	1	2	2	2		1	1	2	2	2	1		3	3	
C05	Learn simple optimization techni	2	2	3	2	3	1	1		2	1	2	3	3	2	3	
	Average	2.20	1.60	2.25	1.67	1.80	1.00	1.00	1.00	2.20	1.80	1.75	1.40	3.00	2.67	2.40	3.00
со	Subject Code :PCC C5592 Subject Name : Operating System	P01	PO2	РОЗ	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to					_											
CO1	Managing Unix/Linux Operating System using shell Script programing.	3	2	1	1	3				2			1	3			
CO2	Implement and examine the Process	3	3	2	3	3				3			2		3	2	
CO3	Implement and examine the Signal	2	3	2	3	3				3			2	3			
CO4	Implement and examine the Semaphore	2	3	2	3	3				3			2	3	3		
C05	Implement and examine the POSIXThreads	2	3	2	3	3	1			3	1		2	3	3	2	
CO6	Implement and examine the Inter processcommunication	2	3	2	3	3	İ			3	İ	İ	2	3	3	2	1
	Average	2.33	2.83	1.83	2.67	3.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.83	#DIV/ 0!	#DIV/ 0!	1.83	3.00	3.00	2.00	1.00
со	Subject Code :PCC CS593 Subject Name : Object Oriented Programming	P01	PO2	РОЗ	PO4	PO5	PO6	P07	PO8	P09	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to																
CO1	Understand the methodologies involved in class, constructor,	2	2			1	1	1	1	2	2	1	1	1	2	3	
C07	overloading, inheritance, overriding Gain knowledge about wrapper class, arrays	1	1	2	1	1	1	1	<u> </u>	3	2	<u>⊢                                    </u>		2	,	3	
	and about mapper class, anays	1 *	ı *	1 <b>*</b>	- ·	ı *	ı *	ı *	1			1		· •	i *		

СОЗ	Developing interfaces multiple inheritance, extending interfaces	3	2	2	1	2	1	1	1	2	2	2	1	1	3	2	l – – – – – – – – – – – – – – – – – – –
C04	Creating and accessing packages	3	1	2	2	2	1	1	1	2	2	2	1	2	3	3	
C05	Assignments on multithreaded programming	2	2	3	2	3	1			2	1	2	3	3	1	3	
C06	Learn applet programming	1	2	1	3	1		2	3	1	2		2		3	1	1
	Average Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Contro	2.00	1.67	2.00	2.00	1.67	1.00	1.20	1.50	2.00	1.83	1.75	1.50	1.80	2.50	2.50	1.00
60	Subject Code :PCC CS601 Subject Name : Database Management Systems	P01	PO2	PO3	PO4	PO5	PO6	P07	P08	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to																
CO1	Understand a given query, write relational algebra expressions for that	3	2	3		3			2	1				3	2	2	
	query, and optimize the developed expressions.	-	-	-		-	-		-	-				-		-	
CO2	databases using E R method and normalization.	3	2	2	3	2			3				1	3	3	2	2
CO3	Construct the SQL queries for Open source and Commercial DBMS	2	3	3					2	3		3		3	3	3	2
	MTSQL, URACLE, and DB		+	<u> </u>		<u> </u>							<u> </u>		<u> </u>		
C04	optimization algorithms.	2	1	3		2								3	2		
CO5	Analyze a given transaction processing system, determine the transaction atomicity consistency isolation, and durability.	2	2	1	1			2	3					3	2	3	2
<b>CO</b> 6	Implement the isolation property, including locking, time stamping	2		<u> </u>	-								<u> </u>	2	-		
00	based on concurrency control and Serializability of scheduling.	4	-	4										3	4		
	Average	2.33	1.83	2.33	2.00	2.33	#DIV/	2.00	2.50	2.00	#DIV/ 0!	3.00	1.00	3.00	2.33	2.50	2.00
	Subject Code :PCC CS602	PO1	PO2	PO3	P04	POS	P06	POZ	POS	PO9	P010	P011	P012	PSO1	PSO2	PS03	PSO4
со	Subject Name : Computer Networks	1.01	1.02	1.03	104	1.03	100		100		1010	1011	1012	1301	1302	1303	1304
C01	At the End of the Semester students should be able to	3	1 1	1 1	1 2	1 2	1	-	1	2	1	3	1 2	2	3		
C01	Identify different components required to build up the actively	3	1		1						<u> </u>	3	2		3		
C02	Choose the required functionality at each layer for given application	2	1 2	1 2	2	3	1			2		3	2	2	3	2	
C04	Identify solution for each functionality for each layer	2	1 2	2	2	3				3		3	3		3	2	2
	Trace the flow of information from one node to another node in the		+:			<u>ا</u>	1			<u>ا</u>	1	۲, T	<u> </u>		+ Ť		
C05	network.	2	2	1	3	3				3		3	3	3	2	2	2
CO6	Design and develop client server network application.	2	2	2	3	3				3		3	2	3	3	2	3
	Average	2.17	1.83	1.50	2.17	2.83	#DIV/	#DIV/	#DIV/	2.67	#DIV/	3.00	2.50	2.50	2.83	2.00	2.33
	Subject Code :PEC_IT_601D						01	0!	01		01						
со	Subject Name :Image Processing	P01	PO2	PO3	PO4	PO5	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PSO3	PSO4
	At the End of the Semester students should be able to																
C01	Understand the different aspects of Image Processing	2	2			1	1	1	1	2	2	1	1	2		3	1
CO2	Explain Its component and mathemetical knowledge	1	1	2	1	1	1	1	2	3	2	2	1		2	3	2
CO3	Identify the technique for image enhancement ,restoration knowledge	3	2	2	2	2	1	1	1	2	2	2	1	2		2	3
C04	Analyze & Improve Image processing problems	3	1	2	2	<b>,</b>	1	1	1	<b>,</b>	2	2	1	3		2	2
C05	Implement Image processing projects	2	2	3	2	3	1	<u> </u>	<u> </u>	2	1	2	3	۲, T	2	2	<u> </u>
	Average	2.20	1.60	2.25	1.75	1.80	1.00	1.00	1.25	2.20	1.80	1.80	1.40	2.33	2.00	2.40	2.00
	Subject Code: Distributed DBMS	POI	Rea	800	PO4	POF	Por	007	PCS	DO0	DOLO	POIL	DO12	DCO1	DC02	DC02	BCOX
со	Subject Name: PEC IT601B	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	2011	P012	PS01	PSO2	PS03	PS04
	At the End of the Semester students should be able to	_		_									_			_	
CO1	Understand theoretical and practical aspects of distributed database systems.	2		3	1	2	2		3		2	2	2	2	2		
C02	Study and identify various issues related to the development of	2	1,	3			1	2			3		,	2	1 3	3	
02	distributed database system.	<b>_</b>	ļ ź	<b>_</b> ^		L					3		Ľ	<u> </u>	<u> </u>		
CO3	Understand the design aspects of object oriented database system and related development.	2		3				2	3	2			2	2		3	
	Understand Transaction Management & Compare various approaches	+	+		-	<u> </u>				<u> </u>			<u> </u>		+	<u> </u>	
CO4	to concurrency control in		2				2					3	2	2	3		
	Distributed database		+			+									+		
C05	and related development.	2	3	3	3		2		1	3	1		2		3	3	
	Average	2.00	2.00	3.00	#DIV/	2.00	2.00	2.00	3.00	2.00	2.50	2.50	2.00	2.00	2.67	3.00	#DIV/0
	Subject Code (JEC, IT, 602P	2.00			0!		2.00	2.00	0.00		2.50			2.00	2.07	0.00	
60	Subject Code :PEC_IT_602B Subject Name :Data Warehousing & Data Mining	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to	_						_				_					
CO1	Understand the functionality of the various data mining and data	2	3	1	T	1								2	1	2	
	warehousing component		<b>_</b>	I	<b>I</b>	<b> </b>					<b> </b>	<b>—</b>	I	Ļ'	<b>I</b>	<b></b>	
C02	Appreciate the strengths and limitations of various data mining and data warehousing models	1	2		1				1		1				3	2	
<b></b>		1	-	+	1 .	+	1	1	1	<u> </u>	1	t		2	2	t	
CO3	Explain the analyzing techniques of various data			2	د ا							I				1	
C03	Explain the analyzing techniques of various data Describe different methodologies used in data mining and data ware			2	3											2	1
CO3 CO4	Explain the analyzing techniques of various data Describe different methodologies used in data mining and data ware housing.			2	3									2		3	
CO3 CO4 CO5	Explain the analyzing techniques of various data Describe different methodologies used in data mining and data ware housing. Identifying the computing framework for Big Data	2	2	2	3									2	3	3	
C03 C04 C05	Explain the analyzing techniques of various data Describe different methodologies used in data mining and data ware housing. Identifying the computing framework for Big Data Average	2 2.50	2	2	3 3 3.00	#DIV/	#DIV/	#DIV/	#DIV/	#DIV/	#DIV/	#DIV/	#DIV/	2 2.00	3 2.67	3 2.33	#DIV/0
C03 C04 C05	Explain the analyzing techniques of various data Describe different methodologies used in data mining and data ware housing. Identifying the computing framework for Big Data Average Subject Code :OEC 1T601A	2 2.50	2 2.33	2	3 3 3.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2	3 2.67	3 2.33	#DIV/0
C03 C04 C05 C05	Explain the analyzing techniques of various data Describe different methodologies used in data mining and data ware housing. Identifying the computing framework for Big Data Average Subject Code :0EC IT601A Subject Name :Numerical Methods	2 2.50 PO1	2 2.33 PO2	2 2.00 PO3	3 3 3.00 PO4	#DIV/ 0! PO5	#DIV/ 0! PO6	#DIV/ 0! P07	#DIV/ 0! PO8	#DIV/ 0! PO9	#DIV/ 0! PO10	#DIV/ 0! PO11	#DIV/ 0! PO12	2 2.00 PSO1	3 2.67 PS02	3 2.33 PSO3	#DIV/0

<u> </u>	Apply numerical methods to obtain approximate solutions to		1	1		<b></b>	<b></b>	I	<u> </u>				- 1			1	
C01	mathematical problems.	2	3	1							2		2	1	2	3	
CO2	Understand and examine the accuracy of these methods	2	2	1	1			1			2		2		2	2	
соз	Demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems.	3	1		2	3					1		1	2	2	3	1
C04	Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations.	2	2	1	1		2	1	1		1	1	2	2	3	3	2
	Average	2.25	2.00	1.00	1.33	3.00	2.00	1.00	1.00	#DIV/ 0!	1.50	1.00	1.75	1.67	2.25	2.75	1.50
со	Subject Code :PROJC5601 Subject Name :Research Methodology	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to		1 -					1		-				-	-		
C01	Formulate the research problem.	2	3	3		<b> </b>							3	3	3		3
CO2	objectives.		2	3	2								2	2	2	2	
CO3	Identify the need of ethics in research.		3		3							2		2	2		3
CO4	Identify the need of IPR of research projects for economic growth and social benefits.	3	2		2	2							2	3			2
C05	Apply basic data analytics techniques: probability distribution, linear regression, ANOVA	2	3	2		2				2			3	2	3		3
CO6	Gain experience with instrument development and data collection methods	3	2		2						3			3	2	2	2
	Average	2.50	2.50	2.67	2.25	2.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.00	3.00	2.00	2.50	2.50	2.40	2.00	2.60
	Subject Code:Human Resource Development and Organizational												201				
со	Subject Name: OEC IT601B	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04
	At the End of the Semester students should be able to																
C01	Define and explain the basic concepts of organizational behaviour and motivation	2		3		2	2		3		2	2	2	2	2		2
CO2	Explain the essential concepts of organizational conflicts, resolution of conflicts through negotiation, change management, and organizational development.	2	2	3				2			3		2	2	3	3	
соз	Familiarize the various aspects of HR, to deal effectively with people resourcing and talent management and HR functions in an organization.	2	3	3	3		2			3			2		3	3	2
CO4	Understand the concepts of HRD, its role and importance in the success of organization	2		3				2	3	2			2	2		3	3
CO5	Develop an understanding towards compensation management and		2				2					3	2	2	3		2
C05	Develop an understanding towards compensation management and industrial relations.	2.00	2	3.00	3.00	2.00	2	2.00	3.00	2.50	2.50	3	2	2	3	3.00	2
C05	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691	2.00	2	3.00	3.00	2.00	2	2.00	3.00	2.50	2.50	3 2.50	2	2	3	3.00	2
со5 со	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691 Subject Name : Database Management Systems	2.00 PO1	2 2.33 PO2	3.00 PO3	3.00 PO4	2.00 PO5	2 2.00 PO6	2.00 P07	3.00 PO8	2.50 PO9	2.50 PO10	3 2.50 PO11	2 2.00 PO12	2 2.00 PSO1	3 2.75 PSO2	3.00 PSO3	2 2.25 PSO4
cos co	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to	2.00 PO1	2 2.33 PO2	3.00 PO3	3.00 PO4	2.00 PO5	2 2.00 PO6	2.00 PO7	3.00 PO8	2.50 PO9	2.50 PO10	3 2.50 P011	2 2.00 PO12	2 2.00 PSO1	3 2.75 PSO2	3.00 PSO3	2 2.25 PSO4
со5 со со1	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems.	2.00 PO1	2 2.33 PO2 3	3.00 PO3	3.00 PO4 2	2.00 PO5	2 2.00 PO6 1	2.00 PO7	3.00 PO8	2.50 PO9	2.50 PO10 2	3 2.50 P011 1	2 2.00 PO12 2	2 2.00 PS01 2	3 2.75 PSO2 2	3.00 PSO3	2 2.25 PSO4
C05 C0 C01 C02	Develop an understanding towards compensation management and industrial relations.  Average Subject Code :PCC CS691 Subject Code :PCC CS691 At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedde SQL.	2.00 PO1 2 2	2 2.33 PO2 3 2	3.00 PO3 1	3.00 PO4 2 1	2.00 PO5	2 2.00 PO6	2.00 PO7	3.00 PO8	2.50 PO9	2.50 P010 2 2	3 2.50 P011 1	2 2.00 PO12 2 2	2 2.00 PSO1 2 2 2	3 2.75 PSO2 2 2	3.00 PSO3 3	2 2.25 PSO4
CO5 CO CO1 CO2 CO3	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems.	2.00 PO1 2 2 3	2 2.33 PO2 3 3 2 1	3.00 PO3	3.00 PO4 2 1 2	2.00 PO5	2 2.00 PO6 1	2.00 PO7	3.00 PO8	2.50 PO9	2.50 P010 2 2 1	3 2.50 P011 1	2 2.00 PO12 2 2 2 1	2 2.00 PSO1 2 2	3 2.75 PSO2 2 2	3.00 PSO3 3 2	2 2.25 PSO4
C05 C0 C01 C02 C03 C04	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow	2.00 PO1 2 2 3 3	2 2.33 PO2 3 3 2 1 1 2	3.00 PO3 1 1 1	3.00 PO4 2 1 2 1	2.00 PO5	2 2.00 PO6 1 2	2.00 PO7 1	3.00 PO8 1	2.50 PO9	2.50 PO10 2 2 1 1	3 2.50 P011 1	2 2.00 PO12 2 2 2 1 2	2 2.00 PSO1 2 2 3	3 2.75 PSO2 2 2 3	3.00 PSO3 3 2	2 2.25 P504
C05 C01 C02 C03 C04	Develop an understanding towards compensation management and industrial relations. <u>Average</u> Subject Code :PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow	2.00 PO1 2 2 3 3 2 2.25	2 2.33 PO2 3 2 1 2 2.00	3.00 PO3 1 1 1 1 1 1	3.00 PO4 2 1 2 1 1.50	2.00 PO5	2 2.00 PO6 1 2 2	2.00 PO7 1 1 1.00	3.00 PO8 1 1 1	2.50 PO9 #DIV/ 0!	2.50 PO10 2 2 1 1 1.50	3 2.50 PO11 1 1 1	2 2.00 PO12 2 2 1 1 2 1.75	2 2.00 PS01 2 2 2 3 3 2.33	3 2.75 PS02 2 2 2 3 3 2.33	3.00 P503 3 2 2.50	2 2.25 PSO4 #DIV/0
CO5 CO1 CO2 CO3 CO4 CO4	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Kome : Computer Networks	2.00 PO1 2 2 2 3 3 2 2.25 PO1	2 2.33 PO2 3 2 1 1 2 2.00 PO2	3.00 PO3 1 1 1 1 1 1 9 0 9 03	3.00 PO4 2 1 2 1 1.50 PO4	2.00 PO5 3 3.00 PO5	2 2.00 PO6 1 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1 1.00 PO8	2.50 PO9 #DIV/ 0! PO9	2.50 P010 2 2 1 1 1.50 P010	3 2.50 PO11 1 1 1.00 PO11	2 2.00 PO12 2 2 1 2 1 2 1.75 PO12	2 2.00 PS01 2 2 3 3 2.33 PS01	3 2.75 PSO2 2 2 2 3 3 2.33 PSO2	3.00 PS03 3 2 2.50 PS03	2 2.25 PSO4 #DIV/0 PSO4
CO5 CO1 CO2 CO3 CO4 CO4	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC CS691 Subject Code : PCC CS691 At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC CS692 Subject Name : Computer Networks At the End of the Semester students should be able to	2.00 PO1 2 2 2 3 3 2 2.25 PO1	2 2.33 PO2 3 2 1 1 2 2.00 PO2	3.00 PO3 1 1 1 1 1 1 0 PO3	3.00 PO4 2 1 2 1 1.50 PO4	2.00 PO5 3 3.00 PO5	2 2.00 PO6 1 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1 1.00 PO8	2.50 PO9 #DIV/ 0! PO9	2.50 P010 2 2 1 1 1.50 P010	3 2.50 PO11 1 1 1.00 PO11	2 2.00 PO12 2 2 1 2 1.75 PO12	2 2.00 PS01 2 2 2 3 3 2.33 PS01	3 2.75 PS02 2 2 2 3 3 2.33 PS02	3.00 PS03 3 2 2.50 PS03	2 PSO4 #DIV/0 PSO4
COS CO1 CO2 CO3 CO4 CO4 CO1	Develop an understanding towards compensation management and industrial relations.  Average Subject Code :PCC CS691 Subject Code :PCC CS691 Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow  Average Subject Code :PCC CS692 Subject Code :PCC CS692 Subject Rame : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux)	2.00 PO1 2 2 3 2 2.25 PO1 3	2 2.33 PO2 3 2 1 2 2.00 PO2 1	3.00 PO3 1 1 1 1 1 1 0 9 03	3.00 PO4 2 1 2 1 1.50 PO4 2	2.00 PO5 3 3.00 PO5 3	2 2.00 P06 1 2 1.50 P06	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1.00 PO8	2.50 PO9 #DIV/ 0! PO9 3	2.50 P010 2 2 1 1 1.50 P010	3 2.50 PO11 1 1 1.00 PO11	2 2.00 PO12 2 2 1 1 2 1.75 PO12 1	2 2.00 PS01 2 2 2 3 3 2.33 2.33 PS01	3 2.75 PSO2 2 2 3 3 2.33 PSO2 2	3.00 P503 3 2 2.50 P503	2 PSO4 #DIV/0 PSO4 1
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO1	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational database systems. Understand various advanced queries execution such as relational database systems. Understand various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC CS692 Subject Code : CCC CS692 Subject Source in the semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet etc.	2.00 PO1 2 2 3 2 2.25 PO1 3 3 2	2 2.33 PO2 3 2 1 2 2.00 PO2 1 2	3.00 PO3 1 1 1 1 1 1 0 9 03 1 1	3.00 PO4 2 1 2 1 2 1 1.50 PO4 2 1	2.00 PO5 3 3.00 PO5 3 3.3	2 2.00 PO6 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1.00 PO8	2.50 P09 #DIV/ 0! P09 3 2	2.50 P010 2 2 1 1 1.50 P010	3 2.50 P011 1 1 1.00 P011	2 2.00 PO12 2 2 1 1 2 1.75 PO12 1 1 2	2 2.00 PSO1 2 2 3 3 2.33 PSO1 3 3	3 2.75 PSO2 2 2 2 3 3 2.33 PSO2 2 2 2	3.00 PSO3 3 2 2.50 PSO3	2 2.25 PSO4 #DIV/0 PSO4
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO1 CO2	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Name : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet tc. Implement and examine the TCP/UDP Socket Programming.	2.00 PO1 2 2 2 3 3 2 2 2.25 PO1 3 3 2 2 2	2 2.33 PO2 3 2 1 2 2.00 PO2 1 2 2 2	3.00 PO3 1 1 1 1 1 1 0 PO3	3.00 PO4 2 1 2 1 2 1 50 PO4 2 1 2	2.00 PO5 3 3.00 PO5 3 3 3 3	2 2.00 PO6 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1.00 PO8	2.50 P09 #DIV/ 0! P09 3 2 2	2.50 P010 2 2 1 1 1.50 P010	3 2.50 P011 1 1 1.00 P011	2 2.00 PO12 2 2 1 2 1.75 PO12 1.75 1.75 2 1.75 2 1.75 2 3 3	2 2.00 PSO1 2 2 3 2.33 PSO1 3 3 3	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 2 3	3.00 PS03 3 2 2.50 PS03	2 2.25 PSO4 #DIV/0 PSO4
CO5 CO1 CO2 CO3 CO3 CO4 CO4 CO1 CO2 CO3 CO3	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code :PCC C5692 Subject Code : CCC C5692 Subject Code : Comfiguration (Windows/Linux) Understanding IP address, subnet tc. Implement and examine the TCP/UDP Socket Programming. Implementation of Datalink layer flow control, Error detection and Error control mechanism.	2.00 PO1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 2 1 2 2.00 PO2 PO2 1 2 2 2	3.00 PO3 1 1 1 1 1 1 0 PO3 PO3	3.00 PO4 2 1 2 1 2 1 1.50 PO4 2 1 2 2 1 2 2	2.00 PO5 3 3.00 PO5 3 3 3 3 3 3 3	2 2.00 PO6 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1.00 PO8	2.50 PO9 #DIV/ 0! PO9 3 2 2 3	2.50 PO10 2 2 1 1 1.50 PO10	3 2.50 P011 1 1.00 P011	2 2.00 PO12 2 2 1 2 1.75 PO12 PO12 1 2 3 3 3	2 2.00 PSO1 2 2 3 3 2.33 PSO1 3 3 3 3	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 2 2 3 3	3.00 PS03 3 2 2.50 PS03 	2 2.25 PSO4 #DIV/0 PSO4
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO3 CO4 CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code :PCC C5692 Subject Code : CCC C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : COT C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject Code : CCC C5692 Subject	2.00 P01 2 2 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 2 1 2 2.00 PO2 PO2 1 2 2 2 2 2 2	3.00 PO3 1 1 1 1 1.00 PO3 1 1 1 2 2 2 1	3.00 PO4 2 1 2 1 1.50 PO4 2 1 2 2 1 2 2 3	2.00 PO5	2 2.00 PO6 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7	3.00 PO8 1 1 1 1.00 PO8	2.50 PO9 #DIV/ 0! PO9 3 2 2 2 3 3 3	2.50 P010 2 1 1 1.50 P010	3 2.50 PO11 1 1.00 PO11	2 2.00 PO12 2 2 1 2 1.75 PO12 1 2 2 1.75 PO12 3 3 3 3 3	2 2.00 PS01 2 2 3 3 2.33 PS01 3 3 3 3	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 2 3 3 3 3	3.00 PS03 3 2 2.50 PS03 - 2 2 2 2	2 2.25 PSO4 #DIV/0 PSO4
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4 CO3 CO4 CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow <b>Average</b> Subject Code :PCC CS692 Subject Code : CCC CS692 Subject Code : Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, JNS, Firewall) <b>Average</b>	2.00 PO1 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 3 2 1 2 2 2.00 PO2 PO2 2 2 2 2 2 2	3.00 PO3 1 1 1 1 1 1 1 2 2 2 1	3.00 PO4 2 1 2 1 1.50 PO4 2 1 2 2 3 3	2.00 PO5 3 3.00 PO5 3.3 3.3 3.3 3.3 3.3 3.3	2 2.00 PO6 1 2 1.50 PO6 PO6	2.00 PO7 1 1 1.00 PO7 #DIV/	3.00 PO8 1 1 1.00 PO8 ***********************************	2.50 PO9 #DIV/ 0! PO9 3 2 2 2 3 3 3	2.50 PO10 2 1 1 1.50 PO10 #DIV/	3 2.50 PO11 1 1 1.00 PO11 **********************************	2 2.00 PO12 2 2 1 2 1.75 PO12 7 3 3 3 3 3	2 2.00 PS01 2 2 3 3 2.33 PS01 3 3 3 3 3 3	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 3 3 3 3 3	3.00 PS03 3 2 2.50 PS03 2 2 2 2 2 2 2	2 2.25 PSO4 #DIV/0 PSO4 1
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4 CO5 CO4	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC CS691 Subject Code : PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC CS692 Subject Name : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average	2.00 PO1 2 2 3 3 2 2.25 PO1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 2 1 1 2 2.00 PO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.00 PO3 1 1 1 1 1 1 0 PO3 PO3 1 1 1 2 2 2 1 1.40	3.00 2 1 2 1 1.50 PO4 2 1 2 2 2 3 2.00	2.00 PO5 3 3.00 PO5 7 3.00 S 3.00 3.3 3 3.3 3.3 3.3	2 2.00 PO6 1 2 1.50 PO6 ***********************************	2.00 PO7 1 1 1.00 PO7 *DIV/ 01	3.00 POS 1 1 1.00 POS ***********************************	2.50 P09 *DIV/ P09 3 2 2 3 3 3 2 2.60	2.50 P010 2 2 1 1 1.50 P010 P010 *DIV/ 0!	3 2.50 P011 1 1 .00 P011 P011 *DIV/ 0!	2 2.00 PO12 2 2 1 2 1 1 2 PO12 1 2 3 3 3 3 3 3 3 2,400	2 2.00 PS01 2 2 3 3 2.33 PS01 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 2 3 3 3 3 3 3 2.60	3.00 PS03 3 2 2.50 PS03 2 2 2 2 2 2	2 2.25 PSO4 #DIV/01 PSO4 1 1.00
CO5 CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4 CO3 CO4 CO5 CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC CS691 Subject Code :PCC CS691 At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code :PCC CS692 Subject Name : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average Subject Code :PEC CS701B Subject Code :PEC CS7018	2.00 PO1 2 2 3 2 2.25 PO1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 3 2 2 2.00 PO2 2 2 2 2 2 2 1.80 PO2	3.00 PO3 1 1 1 1 1 1 1 1 1 2 2 2 1 1 4 0 9 03	3.00 PO4 2 1 2 1 1.50 PO4 2 1 1 2 2 3 3 2.00 PO4	2.00 PO5 3.00 PO5 3.00 PO5 3.00 PO5	2 2.00 PO6 1 2 1.50 PO6	2.00 PO7 1 1 1.00 PO7 *DIV/ 0!	3.00 POS 1 1 1.00 POS #DIV/ 0!	2.50 PO9 *DIV/ 01 PO9 3 2 2 3 3 3 2.60 PO9	2.50 P010 2 2 1 1 1.50 P010 * UIV/ 0!/	3 2.50 P011 1 1 1 0 P011 *DIV/ 0!	2 2.00 PO12 2 2 1 1 2 1 2 2 1 2 3 3 3 3 3 2.40 PO12	2 2.00 PS01 2 2 3 3 2.33 PS01 3 3 3 3 3 3 3 3 3 0 0 PS01	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 2 3 3 3 3 3 3 2.60 PS02	3.00 PS03 3 2 2.50 PS03 2 2 2 2 2 2 2.00 PS03	2 2.25 PS04 #DIV/0 PS04 1 1.00 PS04
COS CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4 CO5 CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC C5692 Subject Code : PCC C5692 Subject Code : PCC C5692 Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implementation of Datalink layer flow control, Error detection and Error control mechanism. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average Subject Code : PEC C5701B Subject Code : PEC C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code : C5701B Subject Code	2.00 PO1 2 2 3 3 2 2.25 PO1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 3 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.00 PO3 1 1 1 1 1 1 1 2 2 2 1 1 1.40 PO3	3.00 PO4 2 1 1 2. 1 1 .50 PO4 2 1 1 2. 2 3 3 2.00 PO4	2.00 PO5 3 3.00 PO5 3 3.3 3.3 3.3 3.3 3.00 PO5	2 2.00 PO6 1 2 1.50 PO6	2.00 PO7 1 1 1 0 PO7 *DIV/ 0!	3.00 PO8 1 1 1.00 PO8 	2.50 P09 #DIV/ 0! P09 3 2 2 2 3 3 2.60 P09	2.50 P010 2 2 1 1 1.50 P010 *DIV/ 0! P010	3 2.50 P011 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2.00 PO12 2 2 1 2 1 2 3 3 3 3 2.40 PO12 2 3	2 2.00 PS01 2 2 3 2.33 PS01 3 3 3 3 3 3 3 0 9 501	3 2.75 PSO2 2 2 3 3 2.33 PSO2 2 2 2 2 3 3 3 3 3 2.60 PSO2	3.00 PS03 3 2 2.50 PS03 	2 2.25 PS04 #DIV/0 PS04 1 1 1.00 PS04
COS CO1 CO2 CO3 CO4 CO4 CO1 CO2 CO3 CO4 CO3 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code :PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code :PCC C5692 Subject Code :PCC C5692 Subject Code : Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average Subject Code :PEC C57018 Subject Code :PEC C57018 Subject Code inthe Semester students should be able to At the End of the Semester students should be able to Average Subject Code :PEC C57018 Subject Code :PEC C57018 Subject Code inthe Semester students should be able to Understand the working and significance of the Cloud Computing	2.00 PO1 2 2 3 3 2 2.25 PO1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 2 1 2 2.00 PO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.00 PO3 1 1 1 1 1 1 1 1 2 2 2 1 1 1.40 PO3	3.00 PO4 2 1 1 2 2 1 1 .50 PO4 2 2 1 2 2 3 3 2.00 PO4	2.00 POS 3 3.00 POS 3.3 3.3 3.3 3.3 3.00 POS	2 2.00 PO6 1 2 1.50 PO6 * * DIV/ 0! PO6	2.00 PO7 1 1 1 1.00 PO7 \$DIV/ 0!	3.00 PO8 1 1 1.00 PO8 #DIV/ 0! PO8	2.50 P09 *DIV/ 0! P09 3 3 2 2 3 3 3 2.60 P09	2.50 P010 2 1 1 1.50 P010 *DIV/ 0!	3 2.50 P011 1 1 	2 2.00 P012 2 2 1 2 1 2 1 2 1 2 3 3 3 3 3 2.40 P012 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PS01 2 2 3 2.33 PS01 3 3 3 3 3 3 0 PS01 3 0 PS01	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 3 3 3 3 3 2.60 PS02	3.00 PS03 3 2 2.50 PS03 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.25 P504 #D1V/07 P504 1.00 P504
COS           CO           CO1           CO2           CO3           CO4           CO5           CO4           CO5           CO4           CO5           CO4           CO5           CO4           CO5           CO5           CO5           CO5           CO5           CO5           CO5           CO5           CO5           CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC CS692 Subject Code : PCC CS692 Subject Code : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average Subject Code : PEC CS7018 Subject Code : PEC CS7018 Subject Code : PEC CS7018 Subject Code into the Semester students should be able to Understand the working and significance of the Cloud Computing Discuss the architecture, operation, and benefits of Cloud solutions	2.00 PO1 2 2 3 3 2 2.25 PO1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 2 2 2.00 PO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.00 P03 1 1 1 1 1 1 1 1 2 2 2 1 1 1.40 P03 3	3.00 PO4 2 1 2 1 1.50 PO4 2 2 2 2 3 3 2.00 PO4 2 2	2.00 POS 3.00 POS 3.00 POS 3.00 3.00 9.05 9.05	2 2.00 PO6 1 2 1.50 PO6 * * DIV/ 0! PO6	2.00 PO7 1 1 1 1.00 PO7 \$DIV/ 0!	3.00 PO8 1 1 1.00 PO8 #DIV/ 01 PO8	2.50 PO9 *DIV/ 0! PO9 3 2 2 3 3 3 2.60 PO9	2.50 P010 2 2 1 1 1.50 P010 *DIV/ 0! P010	3 2.50 P011 1 1 1.00 P011 *DIV/ 0!	2 2.00 PO12 2 1 1 2 1 2 1 2 1 2 1 2 1 2 3 3 3 3 3 3 3 2.40 PO12 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.00 PS01 2 2 3 3 2.33 PS01 3 3 3 3 3 3 0 PS01 3 3 0 PS01	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 3 3 3 3 3 2.60 PS02	3.00 PSO3 3 2 2.50 PSO3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.25 PS04 #DIV/0/0 PS04 1 1.00 PS04
COS CO CO1 CO2 CO3 CO4 CO3 CO3 CO4 CO3 CO3 CO3 CO3 CO3 CO3 CO3 CO3 CO3 CO3	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC CS691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC CS692 Subject Name : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average Subject Code : PEC CS701B Subject Code : PEC CS701B Subject Code : CS701B Subject Code : CS701B Subject Name : Cloud Computing Discuss the architecture, operation, and benefits of Cloud solutions Examine the different Deployment of Cloud Platforms	2.00 PO1 2 2 3 2 2.25 PO1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 3 3 2 2 2 2 2 2 1.80 PO2 2 2 2 2 1.80 PO2 3 3	3.00 PO3 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1.40 PO3 2 3 3	3.00 PO4 2 1 2 1 1.50 PO4 2 1 2 2 3 3 2.00 PO4 2 2 2	2.00 POS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO6 1 2 1.50 PO6 * * UV/ 0! PO6	2.00 PO7 1 1 1 1 1.00 PO7 #DIV/ 0! PO7 2	3.00 POS 1 1 1.00 POS * * * * * * * * * * *	2.50 PO9 #DIV/ 01 PO9 3 3 2 2 3 3 3 2.60 PO9	2.50 P010 2 2 1 1 1.50 P010 *DIV/ 0! P010	3 2.50 P011 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	2 2.00 PO12 2 2 1 2 2 3 1.75 PO12 7 3 3 3 3 3 3 3 3 3 2.40 PO12 2 3 3 3 3 3 3 3 3 2 2 4 2 2 2 2 2 2 2	2 2.00 PS01 2 3 3 2.33 PS01 3 3 3 3 3 3 3 3 0 PS01 3 0 PS01	3 2.75 PS02 2 2 3 3 2.33 PS02 2 2 2 3 3 3 3 3 2.60 PS02	3.00 PS03 3 2 2.50 PS03 2 2 2 2 2 2 2 2 0 PS03 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.25 PSO4 #DIV/0 PSO4 1 1.00 PSO4
CO5 CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4 CO5 CO5 CO5 CO5 CO2 CO3 CO4 CO2 CO3 CO4 CO2 CO3 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5	Develop an understanding towards compensation management and industrial relations. Average Subject Code : PCC C5691 Subject Name : Database Management Systems At the End of the Semester students should be able to Students get practical knowledge on designing and creating relational database systems. Understand various advanced queries execution such as relational constraints, joins, set Operations, aggregate functions, trigger, views and embedded SQL. Use of various software to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and build ER Diagrams, UML, Flow chart for related database systems. Students will be able to design and implement database applications on their ow Average Subject Code : PCC C5692 Subject Code : PCC C5692 Subject Name : Computer Networks At the End of the Semester students should be able to NIC Installation & Configuration (Windows/Linux) Understanding IP address, subnet etc. Implement and examine the TCP/UDP Socket Programming. Implement and examine the Server Setup/Configuration (FTP, Telnet, NFS, DNS, Firewall) Average Subject Code : PEC C5701B Subject	2.00 PO1 2 2 3 3 2 2.25 PO1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.33 PO2 2 1 2 2.00 PO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.00 PO3 1 1 1 1 1 1 1 1 1 2 2 2 2 1 1 1.40 2 2 2 1 1 1.40 2 3 3 3 3	3.00 PO4 2 1 1 2 1 1.50 PO4 2 1 2 2 3 3 2.00 PO4 2 2 2 2	2.00 PO5 3 3 3.00 PO5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PO6 1 2 1.50 PO6 * * DV/ 0 PO6	2.00 PO7 1 1 1.00 PO7 \$ UIV 01 PO7 2	3.00 POS 1 1 1.00 POS #DIV/ 0 POS	2.50 PO9 #DIV/ 0! PO9 3 2 2 2 3 3 3 2.60 PO9	2.50 P010 2 1 1 1.50 P010 *DIV/ 0! P010	3 2.50 P011 1 1 1 0 P011 P011 P011	2 2.00 PO12 2 1 2 1 2 1 2 2 3 3 3 3 3 3 3 3 2.40 PO12 3 3 3 3 3 3 3 2.40 2 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2.00 PS01 2 2 3 3 2.33 PS01 3 3 3 3 3 3 3 0 9 501 2 7 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 2.75 PSO2 2 2 3 3 2.33 PSO2 2 2 2 3 3 3 3 2.60 PSO2	3.00 PS03 3 2 2.50 PS03 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2.25 PSO4 #DIV/01 PSO4 1.00 PSO4
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	Subject Code :PEC_CS701E	P01	PO2	PO3	P04	PO5	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PSO3	PSO4
со	At the End of the Semester students should be able to																
C01	Develop an appreciation for what is involved in learning from data	3	2	2			0					1	2	2	2	2	1
CO2	Understand the wide variety of learning algorithms	3	2	2								1	1	2	2	3	
CO3	Understand how to evaluate models generated from data	2	2	2								1		3	3	2	
CO4	report on the expected accuracy that can be aclieved by applying the models	2	1	3		2						1	2	2	1	2	
C05	Learn algorithmic techniques of Machine Learning and Mathematically deep enough to introduce the required theory.	2	2	2							1			2	2	2	
CO6	Illustrate and apply clustering algorithms and identify its applicability in real life probelms	2	1	2						2				2	3	3	
	Average	2.33	1.67	2.17	#DIV/ 0!	2.00	0.00	#DIV/ 0!	#DIV/ 0!	2.00	1.00	1.00	1.67	2.17	2.17	2.33	1.00
со	Subject Code : PEC CS/02B Subject Name : Soft Computing	P01	PO2	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO1	PS02	PS03	PSO4
CO1	The student will learn soft computing, various types of soft computing	,		1	,			1				1		2			1
201	techniques, and applications of soft computing.	, ,		<u> </u>				-				-	<u> </u>				<u> </u>
CO2	architecture, functions and various algorithms involved.	3						2					2		2		
соз	The student will get introduced with the idea behind Fuzzy Logic, Various fuzzy systems and their functions.	3		3	2			1					2				3
CO4	The student will get introduced with the idea behind Genetic algorithms, its applications and advances.	3	2	2	3	3	1	1	#D11/	#DIV(	#DTV/		2		2		
	Average	3.00	2.50	2.33	2.67	3.00	1.00	1.25	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	1.00	2.00	2.00	2.00	#DIV/0!	2.00
со	Subject Code CS/DB Subject Name : Multimedia Systems At the Fund of the Semantar students should be able to	P01	PO2	P03	P04	PO5	P06	P07	P08	P09	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
C01	Understand the different aspects of Multimedia Technology	3	2	2	2	2		1	1	1	1	1	2	3	2		1
CO2	Understand the components` of Multimedia technology.	2	2	2	2				1	1			3	2	3	2	1
CO3	Analyze and apply the Multimedia concept in visualization & animation		2	2	2								3	2	2		1
CO4	Analyze and apply the knowledge of Multimedia Technology for solutions to real world problem	3	2	2	3			1					3	3			
	Average	2.67	2.00	2.00	2.25	2.00	#DIV/ 0!	1.00	1.00	1.00	#DIV/ 0!	#DIV/ 0!	2.75	2.50	2.33	2.00	1.00
со	Subject Code :PROJ CS781 Subject Name: Project I	P01	PO2	P03	P04	PO5	PO6	P07	P08	PO9	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to		-	-				-			-				1		
CO1	rien, analyze, uesign and implement a sortware project or gather knowledge over the field of research and design or plan about the proposed work.	3		3		2	2		3		2	2	2	2	3		2
CO2	Demonstrate the ability to locate and use technical information from multiple sources.	3	3	3				2			3		3	2	3	3	
соз	Demonstrate the ability to communicate effectively in speech and writing	2	3	3	3		2			3			3		3	3	2
CO4	Learn to work as a team and to focus on getting a working project done on time with each student being held accountable for their part of the project.	2		3				2	3	2			2	2		3	
C05	Learn about and go through the software development cycle with emphasis on different processes requirements, design, and implementation phases.		2				2					3	2	2	3		2
	Average	2.50	2.67	3.00	3.00	2.00	2.00	2.00	3.00	2.50	2.50	2.50	2.40	2.00	3.00	3.00	2.00
60	Subject Code :HSMC701 Subject Name : Project Management and Entrepreneurship	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	P011	P012	PSO1	PS02	PSO3	PSO4
	At the End of the Semester students should be able to																
CO1	Entrepreneurship and Innovation minors will be able to sell themselves and their ideas	2	2	2	1		1		3	2		1	1	3	2		2
CO2	Key concepts underpinning entrepreneurship and its application in the recognition and exploitation of product/ service/ process	2	2	1	2				2	1		1	1	2	2	2	
соз	Analyze the learning and understand techniques for Project planning, schedulingand Execution Control.	2	2	2	2				2	1		1	1	2	2	2	2
CO4	Understand project characteristics and various stages of a project.	3	3	2	2		1		1	2		1	1	3	2		2
C05	Understand the conceptual clarity about project organization and feasibility analysesMarket, Technical, Financial and Economic.	2	2		2		2						3	2	2	2	
CO6	Understand the contract management, Project Procurement, Service level Agreements and productivity.	2	2		2	2								2	2		2
	Average	2.17	2.17	1.75	1.83	2.00	1.33	#DIV/ 0!	2.00	1.50	#DIV/ 0!	1.00	1.40	2.33	2.00	2.00	2.00
со	Subject Code :PEC CS702E Subject Name : Cyber Security	P01	PO2	PO3	P04	PO5	PO6	P07	P08	P09	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to																

	Understand the concent Cyber Security Importance and challenges in		I		1	<u> </u>	<u> </u>	1			<u> </u>					1	<u> </u>
C01	Cyber Security	2	2			1	1	1	1	2	2		2	3	2		
CO2	Cyber Crimes: Types of Hackers, Type of Cyber Attacks Worms, Trojans, Viruses, Backdoors	1	1	2	1	1	1	1	2	3	2		1	3	2		
CO3	Ethical Hacking Concepts and Scopes. Types of Social Engineering, Insider Attack, Preventing Insider Threats, Targets and Defence	3	2	2	2	2	1	1	1	2	2				3	2	
CO4	Strategies Cyber Forensics and Auditing	3	1	2	2	2	1	1	1	2	2		1	3	3	2	
C05	Knoledge on Cyber Laws, Certifying Authority and Controller, Offences under IT Act, and its penalty under IT Act 2000, Intellectual Property	2	2	3	2	3	1			2	1		3	3	3	2	3
	Rights in Cyberspace	2.20	1.60	2.25	1.75	1.90	1.00	1.00	1.25	2 20	1 90	#DIV/	1.75	3.00	2 60	2.00	3.00
	Subject Code (DEC, CS901C	2.20	1.00	2.25	1.75	1.00	1.00	1.00	1.25	2.20	1.00	0!	1.75	5.00	2.00	2.00	5.00
со	Subject Name : Mobile Computing	P01	PO2	PO3	PO4	PO5	PO6	P07	P08	PO9	P010	P011	P012	PS01	PSO2	PSO3	PSO4
	At the End of the Semester students should be able to															1	
C01	Understand the working and significance of the Mobile Computing	2	2			1	1	1		1		_	1	2	3	1	ļ
CO2 CO3	Discuss the architecture, operation, and benefits of an Mobile solution	2	2	2	1	1	1	1	,	1	1	2	1		2	2	<u> </u>
C03	Explore the relationship between different Mobile schemes	3	1	1	2	1	1	1	1	2	2	1	1	3	2	2	<u> </u>
C05	Identify how Mobile Communication changes over.	1	1	<u> </u>	1	3	2	2	1	1	1	1	1		3	3	1
	Average	2.20	1.40	1.33	1.33	1.40	1.60	1.40	1.33	1.40	1.25	1.25	1.00	2.50	2.60	2.25	1.00
	Subject Code :OEC_CS802A	P01	PO2	PO3	P04	POS	P06	POZ	P08	P09	P010	P011	P012	PSO1	PS02	PS03	PSO4
со	Subject Name : E Commerce and ERP																
CO1	Understand the foundations and importance of F commerce	2	2	2	1		1		3	2		1	,	3	3	1	
	Demonstrate an understanding of retailing in E commerce by:	-	<u> </u>	-	-	<u> </u>	<u> </u>		<u> </u>	-		-	<u> </u>		<u> </u>	<u> </u>	<u> </u>
CO2	analyzing branding and pricing strategies, using and determining the effectiveness of market research assessing the effects of disintermediation.	2	2	1	2				2	1		1	1		1	3	
CO3	Analyze the impact of E commerce on business models and strategy	2	2	2	2			1	2	1		1	1	2	3		
CO4	Understand Internet trading relationships including Business to	3	3	2	2		1		1	,		1			2	2	
004	Consumer, Business to Business, Intra organizational			<u> </u>	-				<u> </u>	<u> </u>		<u> </u>			<u> </u>	<u> </u>	<u> </u>
C05	Understand the infrastructure for E commerce.		2		2		2						3	1			<u> </u>
200					2	#DIV/	- 2	#DIV/			#DIV/		3	1			
	Average	2.25	2.17	1.75	1.83	0!	1.50	0!	2.00	1.50	0!	1.00	1.67	2.00	2.25	2.50	#DIV/0
60	Subject Code :PEC CS801B Subject Name : Cryptography and Network Security	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
0	At the End of the Semester students should be able to																
C01	Understand Cryptography: Concepts & Techniques.	3	1	1	2	2		1		2		3	2	2	3		
CO2	Understand Symmetric Key Algorithm Introduction.	2	2	1	1	3		1		2	1	3	3	2	3	2	
CO3	Analyze Asymmetric Key Algorithm, Digital Signature Introduction.	2	2	2	2	3				3		3	2	2	3	2	
CO4	Learn Internet Security Protocols User Authentication Basic.	2	2	2	2	3				3		3	3	3	3	2	
CO5	Demonstrate Electronic Mail Security Basics.	2	2	2	2	3				3		3	3	3	3	2	
C06	Understand Introduction to Firewall.	2	2	1	3	3				3		3	3	3	2	2	
	Average	2.17	1.83	1.50	2.00	2.83	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	2.67	#DIV/ 0!	3.00	2.67	2.50	2.83	2.00	#DIV/0
со	Subject Code : PEC CS801E Subject Name :Internet of Things(IoT)	P01	PO2	PO3	PO4	PO5	PO6	<b>P07</b>	PO8	PO9	P010	P011	P012	PSO1	PSO2	PS03	PSO4
	At the End of the Semester students should be able to		_				_										
C01	Interpret the impact and challenges posed by IoT networks leading to new architectural models.	2						2						1	2		
607	Illustrate the smart objects and the technologies to connect them to		-	-	-	<u> </u>		1	<u> </u>					2	-	-	<u> </u>
02	network.		2	3	2			2						2	2	2	L
C03	Compare different Application protocols for IoT.	<u> </u>	2	2				<u> </u>						1		_	
CO4	Inter the role of Data Analytics and Security in IoT.	1	2	3		<b> </b>		2						1	2	3	<b> </b>
C05	of IoT in various domains of Industry.			3										2			
	Average	1.50	2.00	2.75	2.00	#DIV/ 0!	#DIV/ 0!	2.00	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	#DIV/ 0!	1.40	2.00	2.50	#DIV/0
60	Subject Code: OEC CS801B Subject Name :Cyber Law & Ethics	P01	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	P010	P011	P012	PSO1	PSO2	PSO3	PSO4
0	At the End of the Semester students should be able to											-					
C01	Understand the importance of professional practice, Law, and Ethics in their personal lives and professional careers.	2			2									1	1		2
C02	Learn the rights and responsibilities as an employee, team member, and a global citizen	2		2	2		2							2			
607	Explore The Legal And Policy Developments In Various			1	1			1	l		<u> </u>					t	l
103	Countries To Regulate Cyberspace	L	L	<sup>د</sup>		L <sup>2</sup>	L	I	I		l				- 1	L	<b> </b>
CO4	Develop The Understanding Of Relationship Between Commerce And Cyberspace	3			2		2							2			
C05	issues		#DTV/	2				#DTV/	#DTV/	#DTV/	#DTV/	#DIV/	#DTV/				2
	Average	2.33	0!	2.33	2.00	2.00	2.00	0!	0!	0!	0!	0!	0!	1.67	1.50	#DIV/0!	2.00

со	Subject Code :PROJ CS881 Subject Name: Project II	P01	P02	PO3	P04	PO5	P06	P07	PO8	PO9	P010	P011	P012	PSO1	PS02	PSO3	PSO4					
	At the End of the Semester students should be able to																					
C01	Understand programming language concepts, particularly Java or C# along with object oriented concepts as well as software engineering principles or go through the research work and gather knowledge over the field and develop an ability to apply them to software design of real life problems in an industry/ commercial environment or propose methodology in the field of research.	3		3		2	2		3		2	2	2	2	3		2					
CO2	Plan, analyze, design a software project and demonstrate the ability to communicate effectively in speech and writing.	3	3	3				2			3		3	2	3	3						
соз	Introduce with major software engineering topics and position them to lead medium sized software projects in industry or propose any new model over the selected field of research that will be useful for future activities.	2	3	3	3		2			3			3		3	3	2					
CO4	Learn about different software development process models and how to choose an appropriate one for a project.	2		3				2	3	2			2	2		3						
C05	Gain confidence at having conceptualized, designed, and implemented a working, medium sized project with their team		2				2					3	2	2	3		2					
	Average	2.50	2.67	3.00	3.00	2.00	2.00	2.00	3.00	2.50	2.50	2.50	2.40	2.00	3.00	3.00	2.00					