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# CRITERION 2 - TEACHING-LEARNING AND EVALUATION

### **KEY INDICATOR 2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES**

Metric No 2.6.2 Attainment of Programme Outcomes and Course Outcomes are evaluated by the Institution.

Sl. No.	Content	Page No.
1.	Program Outcomes (PO) for Computer Science and Engineering	3
2.	Program Specific Outcomes (PSO) for Computer Science and Engineering	5
3.	List of courses for the regulation 2013 ( 2016 – 2020 Batch) for CSE	6 - 8
4.	List of Course Outcomes (Regulation 2013) for CSE	9 - 33
	i) Sample CSE Attainment of Course Outcomes (Internal & Model Examination)	34 - 35
5.	ii) Sample CSE Attainment of Course Outcomes (University Examination)	36 - 38
6.	CO – PO Mapping for CSE (Regulation 2013)	39 - 102
7.	CSE Course attainment for all the subjects ( 2016-2020 Batch )	103 - 105
8.	Flow Chart for PO and PSO Attainment	106
9.	Calculation of PO and PSOs Attainment	107
	Indirect Assessment Tools – Students Exit Survey	108 - 109
10.	Sample Student Exit Survey Google Form	110 - 116
11.	Direct and Indirect Assessment PO Attainment	117 - 119



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# Academic Year 2019 - 20







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# 1. Program Outcomes (PO) for Computer Science and Engineering

PO1	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.







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PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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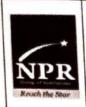
# 2. Program Specific Outcomes (PSO) for Computer Science and Engineering

At the end of the program students will be able to

PSO1	Deal with real time problems by understanding the evolutionary changes in computing, applying standard practices and strategies in software project development using open-ended programming environments.
PSO2	Employ modern computer languages, environments and platforms in creating innovative career paths by inculcating moral values and ethics.
PSO3	Achieve additional expertise through add-on and certificate programs.

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# 3. List of courses for the regulation 2013 (2016 - 2020 Batch)

SL. NO.	COURSE CODE	SUBJECT CODE	TITLE OF THE SUBJECT
		1 <sup>st</sup> :	Semester
۱.	C101	HS6151	Technical English – I
2.	C102	MA6151	Mathematics – I
3.	C103	PH6151	Engineering Physics – I
4.	C104	CY6151	Engineering Chemistry – I
5.	C105	GE6151	Computer Programming
6.	C106	GE6152	Engineering Graphics
7.	C107	GE6161	Computer Practices Laboratory
8.	C108	GE6162	Engineering Practices Laboratory
9.	C109	GE6163	Physics and Chemistry Laboratory – I
		2"	Semester
10		HS6251	Technical English – II
11		MA6251	Mathematics – II
12	en leanne.	PH6251	Engineering Physics – II
13			Engineering Chemistry – II
14			Digital Principles and System Design
102	5. C115	110000000000000000000000000000000000000	Programming and Data Structures I
	6. C116		Physics and Chemistry Laboratory - II
	7. C117		Digital Laboratory
1	8. C118	CS6212	Programming and Data Structures Laboratory





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			3 <sup>rd</sup> Semester
19.	C201	MA6351	Transforms and Partial Differential Equations
20.	C202	CS6301	Programming and Data Structure II
21.	C203	CS6302	Database Management Systems
22.	C204	CS6303	Computer Architecture
23.	C205	CS6304	Analog and Digital Communication
24.	C206	GE6351	Environmental Science and Engineering
25.	C207	CS6311	Programming and Data Structure Laboratory II
26.	C208	CS6312	Database Management Systems Laboratory
			4 <sup>th</sup> Semester
27.	C209	MA6453	
50:2000	1 5310433374		recently and Queding Theory
28.	C210	CS6551	Computer Networks
29.	C211	CS6401	Operating Systems
30.	C212	CS6402	Design and Analysis of Algorithms
31.	C213	EC6504	Microprocessor and Microcontroller
32.	C214	CS6403	Software Engineering
33.	C215	CS6411	Networks Laboratory
34.	C216	CS6412	2 Microprocessor and Microcontroller Laboratory
35.	C217	CS641	Operating Systems Laboratory
			5 <sup>th</sup> Semester
36	. C301	MA656	66 Discrete Mathematics
37	. C302	CS650	Internet Programming
38	. C303	CS650	Object Oriented Analysis and Design
39	C304	CS650	Theory of Computation
40	). C305	CS650	O4 Computer Graphics
41	1. C306	CS65	11 Case Tools Laboratory
42	2. C307	CS65	12 Internet Programming Laboratory
4.	3. C308	CS65	13 Computer Graphics Laboratory







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			6 <sup>th</sup> Semester
44.	C309	CS6601	Distributed Systems
45.	C310	IT6601	Mobile Computing
46.	C311	CS6660	Compiler Design
47.	C312	IT6502	Digital Signal Processing
48.	C313	CS6659	Artificial Intelligence
49.	C314	GE6757	Total Quality Management
50.	C316	CS6611	Mobile Application Development Laboratory
51.	C317	CS6612	Compiler Laboratory
52.	C318	GE6674	Communication and Soft Skills – Laboratory Based
		•	7 <sup>th</sup> Semester
53.	C401	CS6701	Cryptography and Network Security
54.	C402	CS6702	Graph Theory and Applications
55.	C403	CS6703	Grid and Cloud Computing
56.	C404	CS6704	Resource Management Techniques
57.	C405	IT6801	Service Oriented Architecture
58.	C406	CS6007	Information Retrieval
59.	C407	CS6711	Security Laboratory
60.	C408	CS6712	Grid and Cloud Computing Laboratory
			8 <sup>th</sup> Semester
61.	C409	CS6801	Multi - Core Architectures and Programming
62.	C410	CS6008	Human Computer Interaction
63.	C411	GE6075	Professional Ethics In Engineering
64.	C412	CS6811	Project Work



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# 4. List of Course Outcomes (Regulation 2013) for CSE

	Course Code & Name : C101 & HS6151 - Technical English - I	
	CO Statements	Knowledge Level
The stud	ents should be able to	Level
C101.1	Understand clearly, confidently, comprehensibly, and communicate with one or many listeners using appropriate communicative strategies.	K2
C101.2	Construct cohesively and coherently and flawlessly avoiding grammatical errors, using a wide vocabulary range, organizing their ideas logically on a topic.	К6
C101.3	Organize different genres of texts adopting various reading strategies.	K6
C101.4	<b>Distinguish</b> and comprehend different spoken discourses/excerpts in different accents.	K2
C101.5	Listen to different accents, speeches and presentations.	К2

	Course Code & Name : C102 & MA6151 - Mathematics - I		
	CO Statements	Knowledge Level	
The stud	dents should be able to		
C102.1	<b>Learn</b> a clear idea of matrix algebra pertaining eigen values and eigen vectors in addition dealing with quadratic forms.	К2	
C102.2	<b>Learn</b> infinite series and their convergence and acquire the knowledge of with limitations of using infinite series approximations for solutions arising in mathematical modelling.	K2	
C102.3	<b>Understand</b> and characterize phenomena which evolve around circle of curvature and envelope.	К2	
C102.4	<b>Extend</b> the function of a one variable to several variables. Multivariable functions of real variables arise inevitable in engineering.	К2	
C102.5	<b>Exposed</b> to double and triple integration so that they can handle integrals of higher order which are applied in engineering field.	К3	







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<b>第二十二十二</b>	Course Code & Name: C103 & PH6151 - Engineering Physics - I	
	CO Statements	Knowledge Level
The student	ts should be able to	
C103.1	<b>Describe</b> the crystal structures and various crystal growth techniques.	K1
C103.2	<b>Analyze</b> the elastic nature of materials and thermal behaviour of materials.	K4
C103.3	<b>Apply</b> the knowledge of quantum mechanics and classical mechanics in addressing the problems related to science and technology.	К3
C103.4	Apply the knowledge about designing an auditorium with good acoustical properties and make use of Ultrasonics and its applications in various fields.	К3
C103.5	Illustrate the advantages of optical communication using LASER.	K4

	Course Code & Name: C104 & CY6151 - Engineering Chemistry - I		
	CO Statements	Knowledge Level	
The studen	its should be able to		
C104.1	<b>Describe</b> the methods of polymerization, types, Properties and uses of polymers.	K1	
C104.2	<b>Illustrate</b> the concepts of basic thermodynamics and problem solving skills in various disciplines of Engineering.	K4	
C104.3	Discuss the laws of photochemistry in recognizing the interaction of light with matter and its applications in luminescence and spectroscopy	К2	
C104.4	<b>Review</b> the use of phase rule in identifying its applications in metallurgy and alloys.	K4	
C104.5	<b>Summarize</b> the basic knowledge in Nano chemistry and distinguish the existing technology with nanotechnology.	K2	

TO MAKE	Course Code & Name: C105 & GE6151 - Computer Programming		
	CO Statements	Knowledge Level	
The stude	ents should be able to		
C105.1	<b>Elaborate</b> the organization of digital computer and design the solution for simple computing problems using algorithm, flowchart and pseudo code.	K6	
C105.2	<b>Apply</b> the different looping structure to solve simple scientific and statistical problems.	К3	
C105.3	Devise the solutions for simple problems using arrays and strings	K6	
C105.4	<b>Demonstrate</b> the usage of dynamic memory allocation and pointer variables.	К3	







C105.5

Website: www.nprcolleges.org, www.nprcet.org, Email.nprcetprincipal@nprcolleges.org Illustrate the concepts of structure and union with an example programs.

K4

	Course Code and Name : C106 & GE6152 - Engineering Graphics	
	CO Statements	Knowledge Level
The stud	ents should be able to	
C106.1	<b>Sketch</b> the conic sections, special curves, and draw orthographic views from pictorial views and models.	K4
C106.2	<b>Apply</b> the principles of orthographic projections of points in all quadrants, lines and planes in first quadrant.	К3
C106.3	<b>Sketch</b> the projections of simple solids like prisms, pyramids, cylinder and cone and obtain the traces of plane figures.	K4
C106.4	<b>Practice</b> the sectional views of solids like cube, prisms, pyramids, cylinders & cones and extend its lateral surfaces	К3
C106.5	<b>Sketch</b> the perspective projection of simple solids, truncated prisms, pyramids, cone and cylinders and sketch the isometric projection of simple machine parts.	K4

Course Code and Name : C107 & GE6161 - Computer Practices Laboratory		
	CO Statements	Knowledge Level
The stude	ents should be able to	
C107.1	Describe the usage of office automation tools	K1
C107.2	Apply the good programming methods for program development.	К3
C107.3	Design and implement the C program for simple application	K4
C107.4	Develop and implement the recursive programs	K4
C107.5	Implement the C program with the help of Structures and Union	K5

Course Code and Name: C108 & GE6162 - Engineering Practices Laboratory		
	CO Statements	Knowledge Level
The studer	nts should be able to	
C108.1	Construct Electrical and Electronic circuits.	K6
C108.2	Examine different types of electronic circuits and components.	К3
C108.3	Recognize electrical safety rules, grounding, general house wiring.	K6
C108.4	Explore soldering practices.	К3







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No. of Lot	Course Code and Name: C109 & GE6163 - Physics and Chemistry Laboratory	
	CO Statements	Knowledge Level
The stude	ents should be able to	
C109.1	<b>Apply</b> physics principles of optics and thermal physics to evaluate engineering properties of materials.	К3
C109.2	<b>Perform</b> the quantitative chemical analysis of chloride and dissolved oxygen.	K5
C109.3	<b>Determine</b> the amount of acids by using the instruments of conductivity meter and pH meter.	K5



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	Course Code & Name : C110 & HS6251 - Technical English - II	
	CO Statements	Knowledge
The stud	ents should be able to	Level
C110.1	<b>Speak</b> convincingly, express their opinions clearly, initiate a discussion, negotiate, argue using appropriate communications.	K2
C110.2	such as narration description and produce different types of writing	K5
C110.3	analyse and evaluate them for ideas as well as for method of presentation	K1
C110.4	unspoken and implied meanings.	K2
C110.5	Read and write effectively for a variety of professional and social settings	K2

	Course Code & Name : C111 & MA6251 - Mathematics - II	
	CO Statements	Knowledge Level
The stud	ents should be able to	Devel
C111.1	<b>Solve</b> ordinary differential equations that model most of the engineering problems .	К3
C111.2	Acquainted with the concepts of vector calculus-like Gradient, Divergence, Curl, Directional derivative, Irrotational vector and Solenoidal vector. The course gives an understanding of Vector integration, needed for problems in all engineering disciplines.	К2
C111.3	<b>Make</b> to appreciate the purpose of using transforms to create new domain in which it is easier to handle the problem that is being investigated.	K6
C111.4	<b>Develop</b> an understanding of the standard techniques of complex variable and mapping so as to enable the student to apply them with confidence, in application areas such as heat conduction, elasticity, fluid dynamics and flow of electric current.	K4
C111.5	<b>Exposed</b> to the concept of Cauchy's integral theorem, Taylor and Laurent expansions, Singular points, Application of residue theorem to evaluate complex integrals.	К3

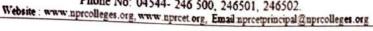




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	Course Code & Name : C112 & PH6251 - Engineering Physics - II	
	CO Statements	Knowledge
The stude	nts should be able to	Level
C112.1	Describe the conducting materials and their properties	K1
C112.2	Analyze the semiconductors and able to differentiate various types of semiconductors.	K4
C112.3	Apply the knowledge of magnetic and superconducting materials for modern day to day applications.	К3
C112.4	Understand the properties and applications of dielectrics.	K6
C112.5	<b>Apply</b> the knowledge about the modern engineering materials for various applications.	K3

	Course Code & Name : C113 & CY6251 - Engineering Chemistry - II	
	CO Statements	Knowledge Level
The stud	ents should be able to	Derei
C113.1	<b>Describe</b> water technology in the purification of water in domestic and industrial applications.	K1
C113.2	<b>Understand</b> the principles of electrochemistry, the factors affecting corrosion and the prevention of corrosion	К6
C113.3	<b>Classify</b> the different alternative sources of energy and the generation processes.	К3
C113.4	Enumerate the different types of engineering materials and their applications	К3
C113.5	<b>Discuss</b> the industrial techniques of petroleum processing and the determination of calorific values and combustion parameters.	К2

Course Code & Name: C114 & CS6201 - Digital Principles and System Design		
	CO Statements	Knowledge Level
The stude	ents should be able to	
C114.1	Analyze different methods used for simplification of Boolean expressions.	K4
C114.2	Use Boolean simplification techniques to design a combinational hardware circuit and write HDL code for circuits.	К3
C114.3	Design and analysis of a given synchronous sequential circuit.	K4
C114.4	Implement an asynchronous sequential circuit design.	K5
C114.5	Design digital circuits using PLD	K4







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Course Code & Name : C115 & CS6202 - Programming and Data Structures I		
	CO Statements	Knowledge Level
The stud	lents should be able to	
C115.1	Summarize the concept of arrays and pointers in C language.	K2
C115.2	Historia de la Cina de la companya data types	K4
C115.3	<b>Discuss</b> about the various Linear Data Structure Operations and applications using ADT	K6
C115.4	Analyze the various algorithms for sorting and searching	К3
C115.5	Demonstrate the indexing techniques in data structures	K4

Course Code & Name: C116 & GE6262 - Physics and Chemistry Laboratory - II		
	CO Statements	Knowledge Level
The stude	nts should be able to	
C116.1	<b>Ability</b> to test materials by using their knowledge of applied physics principles in optics and properties of matter.	K5
C116.2	<b>Determine</b> the hardness, alkalinity and metal ion content in the water samples by volumetric titration.	K5
C116.3	<b>Estimate</b> the water quality parameters by potentiometer conduct meter and flame photometer.	К2

No. of Pak	Course Code & Name : C117 & CS6211 - Digital Laboratory		
	CO Statements	Knowledge Level	
The stud	ents should be able to		
C117.1	Summarize simplified combinational circuits using basic logic gates	К2	
C117.2	Understand combinational circuits using MSI devices	K2	
C117.3	Build sequential circuits like registers and counters	К3	
C117.4	Construct combinational and sequential circuits using HDL	K3	
C117.5	Design and implement simple digital system	K6	







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Course Code & Name : C118 & CS6212 - Programming and Data Structures Laboratory I		Structures
	CO Statements	Knowledge
The stud	ents should be able to	Level
C118.1		
A constitution to the constitution of the cons	Develop simple C Programs using pointers and Functions  Develop C program for Linear data structure operations and its	K4
C118.2	applications and its	КЗ
C118.3	Apply the File Manipulation concepts	N.S
C118.4	Develop programs weight	K3
C118.5	Develop programs using various sorting algorithms	K4
0.10.5	<b>Develop</b> programs using different searching methods	K4

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Course Code & Name: C201 & MA6351 - Transforms and Partial Differential Equations		
	CO Statements	Knowledge Level
The stud	lents should be able to	
C201.1	Solve Linear Partial differential equations of first and second order.	К3
C201.2	<b>Associate</b> the concepts of Fourier series expansion for even and odd functions.	К2
C201.3	<b>Apply</b> the concepts of Fourier series in solving boundary value problems.	КЗ
C201.4	<b>Discuss</b> the Fourier transform, Fourier Sine and Cosine transform techniques.	К2
C201.5	<b>Discuss</b> the concepts of Z-Transform techniques for discrete time systems.	K2

Course Code and Name: C202 & CS6301 - Programming and Data Structures II		
	CO Statements	Knowledge Level
The stud	lents should be able to	
C202.1	Understand the basic concepts of Object Oriented programming.	K2
C202.2	<b>Apply</b> the concepts of polymorphism, inheritance and virtual functions for problem solutions.	К3
C202.3	Outline the concepts of Exception handling and templates	K6
C202.4	Summarize about tree preliminaries and other tree structures	К2
C202.5	<b>Apply</b> the non-linear data structure graph in solving the real world problems.	К3

	Course Code and Name : C203 & CS6302 - Database Management System	
	CO Statements	Knowledge Level
The stud	dents should be able to	
C203.1	Explore the basic concepts of Database Management system.	K6
C203.2	Create database using query languages.	K6
C203.3		K2
C203.4	<b>Explore</b> and gain the knowledge on internal storage Structure and indexing techniques.	K6
C203.5	Relate security concepts to databases.	K6







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Course Code and Name: C205 & CS6304 - Analog and Digital Communication		
	CO Statements	Knowledge Level
The stud	ents should be able to	
C205.1	Apply analog communication techniques.	K2
C205.2		К2
C205.3	Use data and pulse communication techniques.	К3
C205.4	Analyze Source and Error control coding.	К3
C205.5	Utilize multi-user radio communication.	К3

Course Code and Name : C204 & CS6303 - Computer Architecture		ire
	CO Statements	Knowledge Level
The stud	ents should be able to	
C204.1	<b>Describe</b> the computer organization components, instructions and addressing modes	K1
C204.2	<b>Model</b> arithmetic and logic unit including Floating Point Multiplication and Division Algorithms.	K6
C204.3	<b>Develop</b> MIPS architecture by building pipelined data path and control path.	K4
C204.4	Analyze pipelined control units with Instruction Level Parallelism	K4
C204.5	Classify the performance of different Memory and Input-Output systems.	К3

Cour	se Code and Name: C206 & GE6351 - Environmental Science and F	Ingineering
	CO Statements	Knowledge Level
The stud	lents should be able to	
C206.1	Summarize the importance of public awareness on environment and nature of biodiversity	К2
C206.2	Describe the various causes, effect and control measures of environmental pollution.	<b>K</b> 1
C206.3	<b>Discuss</b> the human development that leads to environmental disasters, the value of natural resources and their conservation.	К2
C206.4	sustainable development.	K6
C206.5	<b>Review</b> the problems related to population and their remedial measures.	K5







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C	Course Code and Name : C207 & CS6311 - Programming and Data Structure Laboratory II	
	CO Statements	Knowledge Level
The stud	lents should be able to	
C207.1	<b>Develop</b> C++ programs using the concepts of abstraction, encapsulation, constructor, polymorphism, overloading and inheritance for solving problems.	K4
C207.2	<b>Design</b> and implement C++ programs for manipulating stacks, queues, linked list, tress and graphs.	K4
C207.3	<b>Develop</b> C++ programs for handling exceptions.	K4
C207.4	Apply the different data structures for realizing solutions to practical problems.	К3
C207.5	Develop recursive programs using trees and graphs.	K4

Course Code and Name: C208 & CS6312 - Database Management Systems Laboratory		
	CO Statements	Knowledge Level
The stud	dents should be able to	
C208.1	Infer database language commands to create simple database	K4
C208.2	Analyze the database using queries to retrieve records	K6
C208.3	Applying PL/SQL for processing database	K6
C208.4	Analyze front end tools to design forms, reports and menus	K5
C208.5	<b>Develop</b> solutions using database concepts for real time requirements.	K4



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Course Code and Name: C209 & MA6453 - Probability and Queuing Theory		
	CO Statements	Knowledge Level
The stud	ents should be able to	
C209.1	<b>Identify</b> the functions of discrete and continuous random variables, moments and moment generating function	К1
C209.2	<b>Solve</b> problems in marginal conditional distribution, using the concepts of correlation, regressions and transformation of two dimensional random variables.	КЗ
C209.3	<b>Determine</b> the process is either SSS or WSS, find the TPM of Markov chain and its classifications.	K5
C209.4	Analyze the concepts of queuing models	K4
C209.5	Apply non Markovian queues to open and closed networks.	К3

Course Code and Name : C210 & CS6551 - Computer Networks		
	CO Statements	Knowledge Level
The stuc	lents should be able to	
C210.1	Describe the Network fundamentals and terminology	K1
C210.2	Recognize the different internetworking devices and their functions	K6
C210.3	Demonstrate various types of routing techniques	K6
C210.4	Outline the mechanisms involved in transport layer	K6
C210.5	<b>Analyze</b> the features and operations of various application layer protocols such as HTTP, DNS, and SMTP.	K4

Course Code and Name: C211 & CS6401 - Operating System		THE PARTY OF THE P
	CO Statements	Knowledge Level
The stud	lents should be able to	
C211.1	<b>Summarize</b> the basic concepts, System call, structure and functions of Operating Systems.	К2
C211.2	<b>Design</b> the various Scheduling algorithms, Deadlock prevention, Deadlock avoidance algorithms and apply the principles of concurrency.	K4
C211.3		K3
C211.4	<b>Encapsulate</b> the concepts of Mass Storage Structure, File System Structure and I/O Systems.	K6
C211.5	Implement administrative tasks on Linux servers	K5





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	CO Statements	Knowledge Level
The stud	lents should be able to	
C212.1	<b>Describe</b> the fundamentals of algorithmic problem solving and able to analyse recursive and non-recursive algorithms.	K1
C212.2	<b>Design</b> algorithms for various computing problems using brute force and divide-and conquer technique.	K4
C212.3	<b>Analyze</b> the time and space complexity of various algorithms using dynamic programming and greedy technique.	K4
C212.4	<b>Analyze</b> the different algorithm design techniques for a given problem using iterative improvement.	K4
C212.5	Modify existing algorithms to improve efficiency.	К3

	CO Statements	Knowledge Level
The stud	lents should be able to	
C213.1	Design and implement programs on 8086 microprocessor.	К3
C213.2	Extend system bus structure of 8086 microprocessor.	K2
C213.3	Design I/O circuits.	К3
C213.4	Design Memory Interfacing circuits.	К3
C213.5	Design and implement 8051 microcontroller based systems	К3

	Course Code and Name : C214 & CS6403 - Software Engineerin	the foreign to the state of the
	CO Statements	Knowledge Level
The stud	lents should be able to	
C214.1	<b>Describe</b> the purpose and facts of different software development process models and project management	K1
C214.2	<b>Identify</b> the functional and non-functional requirements for software development by preparing IEEE Software Requirements Document.	K1
C214.3	<b>Express</b> software design activities using data flow diagrams and architectural diagrams.	K6
C214.4	<b>Develop</b> a testing framework by understanding the purposes and stages of software testing and test-driven development.	K4
C214.5	Create the project management activities involved in developing a framework including planning, scheduling, risk assessment/management.	K6





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Course Code and Name : C215 & CS6411 - Networks Laboratory		
	CO Statements	Knowledge Level
The stud	lents should be able to	K1
C215.1	Demonstrate the socket program using TCP & UDP	No.
C215.2	Develop simple applications using TCP & UDP	K5
	Develop the code for Data link layer protocol simulation	K4
C215.3		K5
C215.4	Examine the performances of Routing protocol	
C215.5	Experiment with congestion control algorithm using network simulator	K5

	Course Code and Name: C216 & CS6412 - Microprocessor and Microcontroller Laboratory		
	CO Statements	Knowledge Level	
The stuc	lents should be able to		
C216.1	Develop an ALP for fixed and Floating Point and Arithmetic	К3	
C216.2	Develop an ALP for Interface different I/O s with processor	K3	
C216.3	Develop an ALP to Generate waveforms using Microprocessors	К3	
C216.4	Develop an ALP using 8051 microcontroller	К3	
C216.5	Understand the difference between simulator and Emulator	K2	

	Course Code and Name: C217 & CS6413 - Operating Systems Laboratory	
	CO Statements	Knowledge Level
The stud	dents should be able to	
C217.1	Use the basics of shell programming.	K3
C217.2	Use the System calls and implement in C programming.	K3
C217.3	Apply the file system related system calls.	К3
C217.4	Identify the performance of various page replacement algorithms	K6
C217.5	<b>Develop</b> algorithm for deadlock avoidance, detection and file allocation strategies	K5



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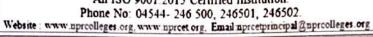
Course Code and Name : C301 & MA6566 - Discrete Mathematics		ics
	CO Statements	Knowledge Level
The stud	lents should be able to	Market Code Street
C301.1	Summarize the concept of elementary mathematical logical arguments.	K2
C301.2	Apply basic counting techniques to solve combinatorial problems.	К3
C301.3	Associate the applications of Graph theory models and data structures.	K2
C301.4	<b>Describe</b> the concepts and properties of algebraic structures such as groups, rings and fields.	K1
C301.5	Extend the concepts of Boolean algebra in the area of lattices.	K2

	Course Code and Name : C302 & CS6501 - Internet Programming	
	CO Statements	Knowledge Level
The stud	dents should be able to	Section Production
C302.1	Implement the concepts of Control Statements, I/O Applet and Threading	K5
C302.2	Create a basic website using HTML and Cascading Style Sheets.	K6
C302.3	<b>Design</b> and implement client side programs using JavaScript and server side programs using Servlets and JSP.	K4
C302.4	<b>Design</b> and implement simple web page in PHP, and to present data in XML format.	K4
C302.5	<b>Design</b> rich client presentation using AJAX and implement web services.	K4

Course Code and Name: C303 & CS6502 - Object Oriented Analysis and Design		
	CO Statements	Knowledge Level
The stud	dents should be able to	Derei
C303.1	Use the OOAD concepts and various UML diagrams	К3
C303.2	<b>Interpret</b> and use the GRASP design patterns and GoF Design patterns.	К2
C303.3	Analyze and design use case modeling and domain modeling.	K4
C303.4	Apply appropriate design patterns.	К3
C303.5	<b>Design</b> and implement projects using Object Oriented concepts and compare various testing techniques	K4









Course Code and Name : C304 & CS6503 - Theory of Computation		
	CO Statements	Knowledge Level
The stud	lents should be able to	
C304.1	Construct a minimized finite automaton to recognize a given regular language.	K6
C304.2	<b>Describe</b> formal relationships among machines, languages and grammars.	K1
C304.3	Construct the pushdown automata for all the context free language.	K6
C304.4	<b>Discuss</b> the basic properties of Turing Machines and Techniques for Turing machine construction.	K2
C304.5	Create the decidability or Un-decidability of various problems.	K6

Course Code and Name : C305 & CS6504 - Computer Graphic		S
	CO Statements	Knowledge Level
The stuc	dents should be able to	
C305.1	<b>Describe</b> the graphics hardware devices, software used and different drawing algorithms.	K1
C305.2	Apply two dimensional transformations and clipping techniques to graphical objects.	КЗ
C305.3	<b>Design</b> three-dimensional graphical objects and apply three-dimensional transformations into graphical objects.	K4
C305.4	Create the illumination and color models.	K6
C305.5	Design an animation sequences.	K4

Course Code and Name: C306 & CS6511 - Case Tools Laboratory		atory
	CO Statements	Knowledge Level
The stud	dents should be able to	and the same of th
C306.1	Design and implement projects using Object Oriented concepts.	K5
C306.2		К3
C306.3	Apply appropriate design patterns	К3
C306.4	Create code from design	K6
C306.5	Compare and contrast various testing techniques.	K5







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	Course Code and Name : C307 & CS6512 Internet Programming Lab CO Statements	Knowledge
The stud	dents should be able to	Level
C307.1		
C307.2	Illustrate web pages using HTML/XML and style sheets	K4
C307.3	Analyze user interfaces using Java frames and applets	K4
	Compare and contrast dynamic web pages using server side scripting  Develop a Client Server and in the server side scripting	K4
C307.4		V2
C307.5		К3
	and web services.	K6

	Course Code and Name : C308 & CS6513 - Computer Graphics Laboratory	
	CO Statements	Knowledge
The stud	lents should be able to	Level
C308.1	Make use of algorithms to draw 2D and 3D objects	1/2
C308.2	Show transformations and projections for 2D and 3D objects	K2
C308.3	<b>Manipulate</b> a graphical object using clipping algorithms and the	K6 K5
C308.4	Use an image editing tool for image manipulation and enhancement	K6
C308.5	Utilize the authoring tool to develop a 3D scene and to perform 2D animation	K6



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Course Code and Name : C309 & CS6601 - Distributed Systems		18
	CO Statements	Knowledge
The stud	lents should be able to	Level
C309.1	Describe the trends and challenges in distributed system	K1
C309.2	Apply network virtualization, remote method invocation and objects.	K3
C309.3	Demonstrate peer-to-peer services and distributed file system	K3
C309.4	Analyze the issues related to scalability, synchronization, transaction processing, concurrency and reliability in distributed system.	K4
C309.5	<b>Design</b> process and resource management systems.	K4

Course Code and Name : C310 & IT6601 - Mobile Computing		
	CO Statements	Knowledge Level
The stud	dents should be able to	Level
C310.1	<b>Describe</b> the basic concepts of mobile computing and MAC protocol.	K1
C310.2	Choose the required functionality at each layer for given application.	K4
C310.3	Classify different types of mobile telecommunication systems	K2
C310.4	Design the Adhoc networks concepts and its routing protocols	K4
C310.5	Make use of mobile operating systems in developing mobile applications	K4

	Course Code and Name: C311 & CS6660 - Compiler Design	
	CO Statements	Knowledge Level
The stu	dents should be able to	Devel
C311.1	Summarize the basic concepts of compiler and its phases.	K6
C311.2	Implement the functionalities of lexical analysis phase like conversion of regular expression to DFA and minimization of DFA.	K5
C311.3	<b>Design</b> the parsing table using different parsing techniques and different compiler construction tools.	K4
C311.4	Use the translation process and run time environment issues.	K6
C311.5	<b>Apply</b> the various optimization techniques for effectively generating machine code.	К3





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	Course Code and Name : C312 & IT6502 - Digital Signal Processing	
	CO Statements	Knowledge
The stud	ents should be able to	Level
	Understand the basics of signals and systems	
C312.2	Perform frequency transforms for the signals.	K1
C312.3	Design IIR filters.	K2
C312.4	Design FIR filters.	K5
C312.5	Analyze the finite word law at account.	K5
	Analyze the finite word length effects in digital filters	K4

	Course Code and Name : C313 & CS6659 - Artificial Intelligence	
	CO Statements	Knowledge
The stuc	lents should be able to	Level
C313.1	<b>Identify</b> appropriate AI methods to solve a problem using search technique.	K1
C313.2	Demonstrate the knowledge in predicate and propositional legis at	K3
C313.3	Formalize a given problem in the language / framework of different	K3
C313.4	<b>Apply</b> the machine learning techniques in solving the real- world problems.	K3
C313.5		K5

	Course Code and Name : C314 & GE6757 - Total Quality Management	
	CO Statements	Knowledge
The stuc	lents should be able to	Level
C314.1	Outline the dimensions and barrier regarding quality.	K1
C314.2	Illustrate the TQM Principles	K4
C314.3	Demonstrate the tools utilization for quality improvement.	K3
C314.4	<b>Build</b> the various types of techniques that are used to measure quality	K2
C314.5	Apply various quality systems and implementation of TQM	K3







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Course Code and Name : C315 & CS6611 - Mobile Application Development Laborator		
	CO Statements	Knowledge Level
The stuc	lents should be able to	Level
C315.1	<b>Build</b> a native application using GUI components and Mobile application development framework	K2
C315.2	Choose the required architecture based upon the mobile application	K4
C315.3	Design mobile applications using various layout and widgets.	K4
C315.4	Implement various mobile applications using emulators	K5
C315.5	Deploy applications to hand-held devices	K3

SLOSS (S	Course Code and Name : C316 & CS6612 - Compiler Laboratory	
	CO Statements	Knowledge Level
The stud	dents should be able to	Level
C316.1	Apply different compiler writing tools to implement the different Phases	К3
C316.2	Implement the different Phases of compiler using tools.	K5
C316.3	Analyze the control flow and data flow of a typical program.	K4
C316.4		K4
C316.5	Generate an assembly language program equivalent to a source language program.	K6

Course Code and Name: C317 & GE6674 - Communication and Soft Skills Laboratory		
	CO Statements	Knowledge Level
The stud	dents should be able to	
C317.1	Apply appropriate communications skills across setting purposes and audiences	K2
C317.2	<b>Demonstrate</b> Knowledge of communication theory and applications.	K6
C317.3	Organize different genres of texts adopting various reading strategies.	K6
C317.4	<b>Distinguish</b> and comprehend different spoken discourses/excerpts in different accents.	K2
C317.5	Listen to different accents, speeches and presentations.	K2



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Course Code and Name: C401 & CS6701 - Cryptography and Network Security		
	CO Statements	Knowledge Level
The stud	lents should be able to	
C401.1	<b>Interpret</b> the basic concepts, OSI security architecture, finite fields and number theory.	K5
C401.2	Compare the various Cryptographic techniques.	K5
C401.3	Determine the usage of hash functions and digital signature	K5
C401.4	<b>Demonstrate</b> different types of security systems and applications.	K4
C401.5	Discuss different levels of security and services.	K6

Course Code and Name: C402 & CS6702 - Graph Theory and Applications								
	CO Statements	Knowledge Level						
The stud	lents should be able to							
C402.1	<b>Define</b> basic concepts & terminologies of Graph, Isomorphism, Trees and its properties	K1						
C402.2	Analyze solution for Konigsberg bridge problem using Euler's graph.	K4						
C402.3	<b>Analyze</b> a solution for a maximum flow in network using Network Flow Graph theory.	K4						
C402.4	<b>Understand</b> the principles of Inclusion and Exclusion, Binomial theorem and traffic problem.	K2						
C402.5	<b>Apply</b> permutation and Combination and solve seating arrangement problem.	К3						

	3. Course Code and Name : C403 & CS6703 - Grid and Cloud Computing								
	CO Statements	Knowledge							
The stud	dents should be able to	Level							
C403.1	Describe the architecture of Grid and Cloud Computing.	K1							
C403.2	Apply the knowledge to solve the large-scale problem in grid computing.	K3							
C403.3	Explore the concepts of Virtualization.	V/							
C403.4		K6							
C403.5	Apply security mechanism in grid and cloud computing.	K4							
	, gra and cloud computing,	K3							







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Course Code and Name: C404 & CS6704 - Resource Management Techniques							
	CO Statements	Knowledge Level					
The stud	dents should be able to						
C404.1	<b>Solve</b> the linear programming problems using Graphical method and Simplex method.	К3					
C404.2	<b>Solve</b> specialized Linear programming problems like transportation and assignment problems.	K3					
C404.3	Using Branch & Bound technique solve real world problems.	K3					
C404.4	<b>Compute</b> critical path analysis to solve real life project schedule time & timely delivery.	К3					
C404.5	<b>Understand</b> the role & applications of PERT/COST/CPM for project scheduling.	K6					

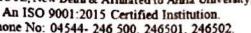
	Course Code and Name : C405 & IT6801 - Service Oriented Architecture							
	CO Statements							
The stu	dents should be able to							
C405.1	Develop a simple XML document coding and XML Schema.	K4						
C405.2	Create an application based on XML and database.	K6						
C405.3	<b>Compare</b> the characteristics and principles of Service oriented architecture with client server and distributed architecture.	K5						
C405.4	Describe the web services using WSDL, SOAP and UDDI.	K1						
C405.5	<b>Build</b> a Service oriented architecture based applications for intra- enterprise and inter- enterprise applications using J2EE.	K6						

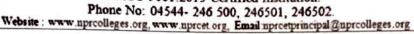
Course Code and Name : C406 & CS6007 - Information Retrieval								
	CO Statements	Knowledge Level						
The stud	dents should be able to							
C406.1	Apply information retrieval models	K3						
C406.2	Design Web Search Engine.	K4						
C406.3	Use Link Analysis	K3						
C406.4	Use Hadoop and Map Reduce	K3						
C406.5	Apply document text mining techniques.	K3						





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Wax and	Course Code and Name : C407 & CS6711 - Security Laboratory								
	CO Statements	Knowledge Level							
The stud	lents should be able to								
C407.1	Apply the cryptographic algorithms for data communication	K5							
C407.2	Compare the performance of various security algorithms	K4							
C407.3	Apply the Digital signature for secure data transmission	K3							
C407.4	Utilize the different open source tools for network security and analysis	K4							
C407.5	<b>Demonstrate</b> intrusion detection system using network security tool.	K4							

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	CO Statements	Knowledge Level
The stud	lents should be able to	
C408.1	Develop application using Globus toolkit.	K4
C408.2	Develop web services/application using Grid framework	K4
C408.3	Run Virtual machine and install software on it.	K5
C408.4	Setup a private cloud using OpenStack / Open Nebula / Eucalyptus	K5
C408.5	Implement applications using MapReduce approach in Hadoop environment.	K5



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	rse Code and Name : C409 & CS6801 - Multicore Architecture ⪻	ogramming
Company of the Company	CO Statements	Knowledge
The stud	ents should be able to	Level
C409.2	Analyze the issues related to various challenges in parallel programming	K1
C409.3		K4
C409.4	Develop parallel programming applications using openMP  Design and develop distributed programming application using openMPI	K4
C409.5	Compare and analysis of	K3

	Course Code and Name: C410 & CS6008 - Human Computer Interact								
NAME OF THE PARTY OF	CO Statements	Knowledge							
The stuc	dents should be able to	Level							
C410.1									
C410.2	Understand the basic foundations of Human Computer Interaction.  Design effective HCL for individual.	K2							
C410.3	Design effective HCI for individuals and persons with disabilities.  Simplify the issues in the HCI Models and assess the importance of user feedback	К3							
C410.4	State the Mobile HCL implications 6	K2							
C410.5		K4							
	The meaning run user interface.	K4							

	ourse Code and Name : C411 & GE6075 - Professional Ethics in Eng	Company of the Compan
	CO Statements	Knowledge
The stud	dents should be able to	Level
C411.1	Apply ethics, morals and human values in society.	
C411.2	Understand about engineering ethics.	K3
C411.3	Describe the responsibilities of engineers as experimenters.	K2
	Recognize the safety, risks, risk benefit analysis and rights of an	K1
C411.4	engineer.	K1
	Discuss the importance of the global issues, moral leadership and	**1
C411.5	code of conduct.	K2







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	Course Code and Name : C412 & CS6811 - Project Work	
	CO Statements	Knowledge Level
The stud	ents should be able to	25,61
C412.1	to a given propiem	К3
C412.2	analyze previous researchers' Work and relate them to the project.	K1
C412.3	<b>Design</b> engineering solutions to complex problems in a systematic approach.	K4
C412.4	<b>Document</b> and present one's own work, for a given target group, with strict requirements on structure, format, and language usage.	K6
C412.5	<b>Present</b> the project outlining the approach and expected results using good oral and written presentation skills.	K6

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# 5.i) Sample CSE Attainment of Course Outcomes (Internal & Model Examination)

Course Code: C405

Subject Code & Name: 1T6801 & Service Oriented Architecture

S.No.	Register Number	Name	Inte	ernal To	Test -l Inter		Internal Test –II			M	lodel Ex	aminat	ion	
		ibet	COI	CO2	Total	CO3	C04	Total	CO1	CO2	CO3	CO4	CO5	Tota
1.	920816104001	ABIRAMI M	43	28	71	36	55	91	27	14	15	14	15	85
2.	920816104002	ARUNA DEVI P	40	27	67	32	48	80	27	15	14	14	14	
3.	920816104003	ASHWIN SARAVANAN R C	17	11	28	11	17	28	18	9	10	9	9	84 55
4.	920816104004	BALAJI J	27	18	45	21	31	52	15	8	9	8	8	48
5.	920816104005	BALAJI R M	15	10	25	24	36	60	15	8	8			
6.	920816104006	CHARUMATHY B	29	19	48	20	29	49	0			8	7	46
7.	920816104008	DIVYA A	47	32	79	27	41	68		0	0	0	0	0
8.	920816104009	DURGADEVIP	46	30	76	24			26	14	14	14	13	81
9.	920816104010	GOMATHI AKILA D	43	28	71	30	36	60	22	12	12	12	12	70
10.	920816104011	GURU PRASATH S	31	20			45	75	26	14	14	14	14	82
11.	920816104012	HARI VIGNESH S	41	27	51	29	44	73	21	11	11	11	11	65
12.		ILAMATHI G	36	24	68	28	43	71	23	13	12	12	12	72
13.	The second secon	KANNAN B	25	17	60	36	54	90	25	13	13	14	13	78
14.		KARTHICK RAJA T	17		42	10	15	25	16	9	7	9	9	50
15.		KARTHIGA S	19	12	29	12	19	31	14	7	7	7	8	43
16.		KEERTHANA M	40		31	30	44	74	26	14	12	14	14	80
17.	920816104018	MADHAN N	28	27 18	67	35	53	88	26	14	14	14	14	82
18.		MADHUMITHA A	47		46	16	23	39	8	4	4	5	4	25
19.		MAHALAKSHMI M	43	32	79	34	50	84	21	11	11	11	11	65
20.		MOINUDEEN S	20	29	72	33	49	82	27	14	14	16	14	85
21.	920816104022	MUTHU T	-	13	33	31	47	78	22	12	12	10	12	68
22.		NANDHINI S	25	16	41	30	45	75	24	13	13	13	11	74
23.		PAVITHRAN M	39	26	65	27	41	68	22	12	12	12	11	69
24.		PRASATH T	22	14	36	22	32	54	21	11	11	11	11	65
25.	920816104026		27	18	45	23	34	57	21	11	11	11	11	65
26.	920816104026	PRAVIN VINO M	17	11	28	14	22	36	20	10	10	10	11	61
27.	920816104027	PREETHA B	47	32	79	28	43	71	29	15	16	15	16	91
28.		PREETHA T	37	24	61	24	36	60	25	13	13	13	14	78
29.	920816104029	SABARI KRISHNAN S K	37	24	61	34	50	84	26	14	13	13	14	00000
30.	920816104030	SANTHOSH KUMAR A	20	13	33	21	31	52	20	11	11	9		80
31.	920816104031	SELVANAYAKI C	48	32	80	35	52	87	32	17	17		11	62
32.	920816104032	SENTHIL N P	36	24	60	23	34	57	27	16		16	17	99
33.	920816104033	SHREEDHAR V	40	26	66	27	41	68	26	14	14	14	14	85
33.	920816104034	SHRI JANANI S	40	27	67	33	50	83	29	15	14	14	14	82





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34. 920816104025		CITIOLOMAN										_		
	920816104035	SHRUTHI M	38	26	64	35	52	87	20	11	10	11	11	63
35.	920816104036	SIVASUBRAMANIAN C	37	25	62		-				1			63
36.	920816104038	SRINITHI P	16	100000		26	38	64	22	12	12	12	11	69
37.			15	10	25	32	49	81	22	11	12	12	12	69
	920816104039	SRIPRIYA P	47	32	79	37	56	93	32	17	17	17	16	99
38.	920816104040	SUNDARAM S K K	31	21	52	22	34	56	17	9	9	9		
39.	920816104041	SURYAS	25	16				_			1		8	52
40.	920816104042	SWETHA A			41	26	39	65	17	10	9	9	9	54
41.			28	19	47	23	35	58	8	4	4	4	4	24
	920816104043	TAMILSELVAN M	33	22	55	33	50	83	29	15	15	16	15	90
42.	920816104044	YOGESH JOHN	22	15	37	20	29	49	23	12	12	12	12	-
43.	920816104301	SHARUKKHAN S	34	23	57	28	42	70						71
44.	920816104701	KISHORE KUMAR D	16						19	10	10	11	10	60
45.	70000			10	26	18	26	44	3	1	2	1	2	9
	920816104901	NAVRIN BHAJILA A	42	28	70	38	56	94	32	16	16	17	16	97
Maximum Mark Co-Wise		60	40	100	40	60	100	32	17	17	17	17	100	
50% of Maximum Marks			30	20	50	20	30	50	16	8.5	8.5	8.5	8.5	50
Number of Threshold above 50%			26	26	26	39	37	37	38	38	38	38	37	38
Level			1	1	1	3	3	3	3	3	3	3	3	3

						C	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSOI	PSO2	PSO3
C405.1	2	- 62	-	-	-	2	2	2	3	3	-	2	1	-	
C405.2	2	2	-	-		2	2	2	3	3	-	2	1	-	-
C405.3	-		2	-	-	2	2	2	3	3	-	2	1	-	
C405.4	- S	-	·	3		1	1	1	3	3	-	2	1	-	
C405.5		- 1	-	-		2	2	2	3	3		2	1	-	
C405	2.00	2.00	2.00	3.00		1.80	1.80	1.80	3.00	3.00	-	2.00	1.00		
PO ATTAINMENT	1.95	1.95	1.95	2.92	-	1.75	1.75	1.75	2.92	2.92	-	1.95	0.97	-	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

Dr. J.SUNDARARAJAN,

B.E., M. Tech., Ph.D.,

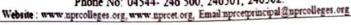
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# ii) Sample CSE Attainment of Course Outcomes ( University Examination)

Course Code: C405

Subject Code & Name: 1T6801 & Service Oriented Architecture

S.No.	Register Number	Name	Grade	Grade Points	
1.	920816104001	ABIRAMI M	В		
2.	920816104002	ARUNA DEVI P	В	8	
3.			U	0	
4.	920816104004	BALAJI J	С	7	
5.	920816104005	BALAJI R M	Е	5	
6.	920816104006	CHARUMATHY B	U	0	
7.	920816104008	DIVYA A	С	7	
8.	920816104009	DURGADEVI P	Е	5	
9.	920816104010	GOMATHI AKILA D	Е	5	
10.	920816104011	GURU PRASATH S	Е	5	
11.	920816104012	HARI VIGNESH S	C	7	
12.	920816104013	ILAMATHI G	В	8	
13.	920816104014	KANNAN B	Е	5	
14.	920816104015	KARTHICK RAJA T	U	0	
15.	920816104016	KARTHIGA S	C	7	
16.	920816104017	KEERTHANA M	В	8	
17.	920816104018	MADHAN N	U	0	
18.	920816104019	MADHUMITHA A	C	7	
19.	920816104020	MAHALAKSHMI M	С	7	
20.	920816104021	MOINUDEEN S	В	8	
21.	920816104022	митни т	Е	5	
22.	920816104023	NANDHINI S	С	7	
23.	920816104024	PAVITHRAN M	Е	5	
24.	920816104025	PRASATH T	D	6	
25.	920816104026	PRAVIN VINO M	D	6	







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920816104027	PREETHA B	Е	5
920816104028	PREETHA T	Е	5
920816104029	SABARI KRISHNAN S K	С	7
920816104030	SANTHOSH KUMAR A	Е	5
920816104031	SELVANAYAKI C	В	8
920816104032	SENTHIL N P	В	8
920816104033	SHREEDHAR V	В	8
920816104034	SHRI JANANI S	C	7
920816104035	SHRUTHI M	В	8
920816104036	SIVASUBRAMANIAN C	D	6
920816104038	SRINITHI P	В	8
920816104039	SRIPRIYA P	В	8
920816104040	SUNDARAM S K K	C	7
920816104041	SURYA S	Е	5
920816104042	SWETHA A	U	0
920816104043	TAMILSELVAN M	В	8
920816104044	YOGESH JOHN	D	6
920816104301	SHARUKKHAN S	D	6
920816104701	KISHORE KUMAR D	U	0
920816104901	NAVRIN BHAJILA A	A	9
			10
			5
Numl			39
	920816104027 920816104028 920816104029 920816104030 920816104031 920816104032 920816104033 920816104034 920816104035 920816104036 920816104039 920816104040 920816104041 920816104041 920816104042 920816104044 920816104044 920816104044 920816104701 920816104901	920816104027 PREETHA B 920816104028 PREETHA T 920816104029 SABARI KRISHNAN S K 920816104030 SANTHOSH KUMAR A 920816104031 SELVANAYAKI C 920816104032 SENTHIL N P 920816104033 SHREEDHAR V 920816104034 SHRI JANANI S 920816104035 SHRUTHI M 920816104036 SIVASUBRAMANIAN C 920816104038 SRINITHI P 920816104039 SRIPRIYA P 920816104040 SUNDARAM S K K 920816104041 SURYA S 920816104042 SWETHA A 920816104043 TAMILSELVAN M 920816104044 YOGESH JOHN 920816104041 SHARUKKHAN S 920816104701 KISHORE KUMAR D	920816104028 PREETHA T





## College of Engineering & Technology

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C101	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	EST1	TEST2	TEST3	INT	UNIV
The state of the s	THE REPORT OF THE PARTY OF THE	1	0	3	2.00	3
COI		1	0	3	2.00	3
CO2	Control of the Contro	1	The state of the s	3	3.00	3
CO3		0	3	3	3.00	3
CO4		0	3	3	3.00	3
CO:		0	0	3	2.60	3.00
INTERNAL	JUNIV ATTA	INMEN'	rs		20%	80%
WEIGHTA	GE				0.52	2.40
CO ATTA	NTMENT FOR	NET FOR	UBJECT R THE SUBJEC	T	120000000000000000000000000000000000000	92

## Internal Examination and University examination:

The 80% of students had scored equal to or more than the 50 marks in Internal Examination, making the attainment level as 3.

The 80% of students had scored E grade and above in university examination, making the attainment level as 3.

## CO Attainment Calculations:

CO Attainment is calculated from the 80% of marks in university examination and 20% of marks in internal examination.

The Internal Examination attainment level for the course Service Oriented Architecture is 2.60 and it is converted into 20% i.e., 0.52.

In the university examination 86.66% of the students scored more than the set attainment level of E grade in the corresponding course so the University Examination attainment level is 3.00 and it is converted into 80% i.e., 2.40.

Internal Examination (20%)	0.52
University Examination (80%)	2.40
Final CO Attainment	2.92

Therefore the CO attainment for the course Service Oriented Architecture is 2.92



Dr. J.SUNDARARAJAN,

B.E., M.Tech., Ph.D.,

Principal

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6. CO - PO Mapping for CSE (Regulation 2013)

The mapping level contribution between CO-PO/PSOs is categorized as follows:

3: High

2: Medium

1: Low

-: No correlation

## SEMESTER 1

Programme: B.E. Computer Science and Engineering					
Year & Sem:	1&1				
Course Code & Name:	C101 & HS6151 - Technical English - I				
Year of Study :	2016-2017				

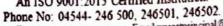
							CO Vs I	PO							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101.1		7.	1.						3	3	•	2	•		•
	37.00	-	-						3	3		2			
C101.2		13.43				0.50	-	-	-	,		2			
C101.3							-		- 2		12.5				
						-			3	3		2		•	
C101.4		-	-		1	- 2.			3	3	0.60	2	-	-	
C101.5					•	-	-	-	2.00	2.00	-	2.00			
C101	-			-		-			2.80	3.00	-	2.00			
PO ATTAINMENT	-	-	-					•	2.80	3.00	•	2.00			1.51

3	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
	L/UNIV ATTA	INMENTS		3.00	3.00
WEIGHTA				20%	80%
COATTA	INTMENT FO	R THE SUBJ	ECT	0.60	2.40
FINAL CO	) ATTAINTM	NET FOR TH	IE SUBJECT	3.	00







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Programme: B.E. Compu	iter Science and Engineering	
Year & Sem:	1&1	
Course Code & Name:	C102 & MA6151 - Mathematics - I	
Year of Study :	2016-2017	Markyets y Charles

						(	O Vs P	0							
COURSE	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
OUTCOME						-			2	2	3	3	1	2	1
C102.1	3	3	2	1	2	3	•	•		2	2	3	1		1
C102.2	3	3	2	1	2	3	-	•	3		,		,	- 1	1
C102.3	3	3	2	1	2	3	1-	1.00	3	2	3		4	- :	
	2	2	2	1	2	3	-		3	2	3	3	1		
C102.4	3	_ 3	- 4			-			2	2	3	3	2	2	1
C102.5	3	3	2	1	2	3	-	•	3	2.00	2.00	2.00	1.40	1.50	1.00
C102	3.00	3.00	2.00	1.00	2.00	3.00	0.00	0.00	3.00	2.00	3.00	3.00	1,40	1.50	
PO ATTAINMENT	3.00	3.00	2.00	1.00	2.00	3.00	-	-	3.00	2.00	3.00	3.00	1.40	1.50	1.00

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	NIV ATTAIN	1 1	3.00	3.00	
WEIGHTAGE		No de la constante de la const		20%	80%
CO ATTAINT		THE SUBJEC	CT	0.60	2.40
FINAL CO A				3.0	0







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Year & Sem:	uter Science and Engineering	
	1&1	A STATE
Course Code & Name:	C103 & PH6151 - Engineering Physics - I	-
Year of Study:	2016-2017	

COURSE	CO V <sub>5</sub> PO														
OUTCOME	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	BOLL	BOLL		120000000000000000000000000000000000000	
C103.1	2	1	,	2	-			100	107	FOIU	POH	PO12	PSO1	PSO2	PSO.
C103.2	1	,	3	2	.,	1						- 1	1	2	1
C103.3	2	2	3	3	3	2	2					1	2	3	3
C103.4	2	3	3	3	2	2	3		•			2	1	3	2
C103.5	3	1	- 4		- 2	1	1			•		-1	3	2	i
C103	2.00	1.80	2.50	2.40			-	-	•				1	1	1
PO		1.00	2.50	2.40	2.50	1.50	2.00		-			1.25	1.60	2.20	1.60
ATTAINMENT	2.00	1.80	2.50	2.40	2.50	1.50	2.00	-				1.25	1.60	2.20	1.60

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
	JNIV ATTAIN	IMENTS		3.00	3.00
WEIGHTAGE	MARKET THE PARTY OF THE PARTY O			20%	80%
	TMENT FOR T			0.60	2.40
FINAL CO A	TTAINTMNE	T FOR THE S	SUBJECT	3.0	00







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	1&1
Course Code & Name:	C104 & CY6151 - Engineering Chemistry - I
Year of Study:	2016-2017

							CO Vs P	O							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POH	PO12	PSO1	PSO2	PSO.
C104.1	3	2	1	1	2	2	1 3	<b>.</b>	1	1 2	3	,	1	1	
C104.2	3	1	2	2	1	1	1	-	+ '-	2		2	1	2	1
C104.3	3	1	3	2	2	1	1	-	-	2	2	2	2	2	3
C104.4	3	2	2	3	2	1	1	1	. 2	2	2	3	3	1	2
C104.5	3	1	2	2	2	-	-	-	2	2	1	!		2	2
C104	3.00	1.40	2.00	2.40	2.20	1.40	1.80	1.00	1.75	2.00	2.00	2.20	2.00	1.75	1.00
PO ATTAINMENT	3.00	1.40	2.00	2.40	2.20	1.40	1.80	1.00	1.75	2.00	2.00	2.20	2.00	1.75	1.80

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNA	AL/UNIV ATT.	AINMENTS		3.00	3.00
WEIGHT	AGE			20%	80%
CO ATTA	INTMENT FO	R THE SUBJE	ECT	0.60	2.40
FINAL CO	ATTAINTM	NET FOR THE	ESUBJECT	3.0	00







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Programme: B.E. Comp	outer Science and Engineering
Year & Sem:	1&1
Course Code & Name:	C105 & GE6151 - Computer Programming
Year of Study:	2016-2017

						C	O Vs PC	)							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POH	PO12	PSO1	PSO2	PSO3
C105.1	3	3	3	3			10		2	3	2	3	3	3	2
C105.2	3	3	3	2					2	8(5)	2	3	3	3	2
C105.3	3	3	3	2	9.00	-			2		2	3	3	3	2
C105.4	3	3	3	2			-		3		2	3	3	3	2
C105.5	3	3	3	2	3.00		- 51	100	2		2	3	3	3	2
C105	3.00	3.00	3.00	2.20	120				2.20	3.00	2.00	3.00	3.00	3.00	2.00
PO ATTAINMENT	3.00	3.00	3.00	2.20	-	-	-	183	2.20	3.00	2.00	3.00	3.00	3.00	2.00

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TESTI	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/UNI	V ATTAINME	NTS	- 5% - al	3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINTMI	ENT FOR THE	SUBJECT	DOLLAR BALL	0.60	2.40
FINAL CO ATT	AINTMNET FO	OR THE SUB	JECT	3.0	0







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Programme: B.E. Comp	outer Science and Engineering	The same of
Year & Sem:	1&1	
Course Code & Name:	C106 & GE6152 - Engineering Graphics	
Year of Study:	2016-2017	

COURCE						C	O Vs PC	)							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO.
C106.1	1	1	2	1		-							V SANTERII		1.500
C106.2	1	1	2	i			-	•	•	2		2	2	1	
C106.3	1	1	2	1	•	•	•	-	-	2		2	2	3	
C106.4	1	1	2		•	•	•	•	•	2	-	2	2	2	
C106.5	1	i	2		•	•	•	•		2		2	2	1	
C106	1.00	1.00		1	•	•	-	/-2/	•	2	-	2	2	2	
PO			2.00	1.00		-	-			2.00	-	2.00	2.00	1.80	
ATTAINMENT	1.00	1.00	2.00	1.00	-	14	_	_		2.00	-	2.00	2.00	1.80	2

B L	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	UNIV
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/UN	IV ATTAINME	NTS	18860	3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINTM	ENT FOR THE	SUBJECT		0.60	2.40
FINAL CO ATT	AINTMNET FO	OR THE SUB.	IECT	44.3	3.00







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Year & Sem:	r Science and Engineering
	1&1
Course Code & Name:	C107 & CE6161 Commut. B
Year of Study:	C107 & GE6161 - Computer Practices Laboratory 2016-2017

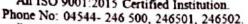
COURSE			CO V <sub>5</sub> PO												
OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	BOLL	Dece.		
C107.1	1	1	3					0.5550		1010	TOIL	PO12	PSO1	PSO2	PSO3
C107.2	3	3	3	3		•			3	-	3	3	2	2	2
C107.3	3	3	-		•	-	•		3		3	3	3	3	2
C107.4	1	1	2	3	•				3		3	3	3	3	2
C107.5	1	1	2		•	٠				2		2	2	1	- 4
C107	1.80	1.80		-	-		•	•		2		2	2	2	
PO		1.00	2.60	2.00		٠			3.00	2.00	3.00	2.60	2.40	_	•
ATTAINMENT	1.80	1.80	2.60	2.00					3.00	2.00	3.00	2.60	2.40	2.20	2.00

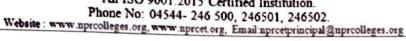
	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U		NMENTS		3.00	3.00
WEIGHTAG	All the second s	Farit	1000	20%	80%
CO ATTAIN				0.60	2.40
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	E	3.00	











Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	1&1
Course Code & Name:	C108 & GE6162 - Engineering Practices Laboratory
Year of Study:	2016-2017

						C	O Vs P	0							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POH	PO12	PSO1	PSO2	PSO3
C108.1	1	1	2	1	-	-		-		2		2	1		
C108.2	1	1	2	1	-	-	-	-	-	2		2	i		-
C108.3	1	1	2	1	-	-	-	-		2	-	2	<u> </u>		-
C108.4	1	1	2	1	-	-	-	-		2	-	2	1		
C108	1.00	1.00	2.00	1.00	-	-	-		-	2.00		2.00	1.00	-	150
PO ATTAINMENT	1.00	1.00	2.00	1.00	-	-		-		2.00	-	2.00	1.00	-	

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
INTERNAL/UN	IV ATTAINMI	ENTS		3.00	3.00
WEIGHTAGE		15 0 15 pp. 1	14年6	20%	80%
CO ATTAINTM		0.60	2.40		
FINAL CO AT	TAINTMNET F	OR THE SUI	BJECT	3.0	0







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Programme: B.E. Compu	iter Science and Engineering
Year & Sem:	1&1
Course Code & Name:	C109 & GE6163 - Physics and Chemistry Laboratory
Year of Study:	2016-2017

						C	O Vs P	O							
COURSE OUTCOME	PO1	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C109.1	2	1	2	2	2	1	1	-	2	2	2	2	2	ı	2
C109.2	2	1	2	2	2	1	1		2	2	2	2	2	1	2
C109.3	2	1	2	2	2	1	1		2	2	2	2	2	1	2
C109	2.00	1.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	1.00	2.00
PO ATTAINMENT	2.00	1.00	2.00	2.00	2.00	1.00	1.00	-	2.00	2.00	2.00	2.00	2.00	1.00	2.00

- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
INTERNAL/UN	IV ATTAINME	NTS		3.00	3.00
WEIGHTAGE	War a street of the			20%	80%
CO ATTAINTM	0.60	2.40			
FINAL CO ATT		3.00			



Dr. J.SUNDARARAJAN,

B.E., MTech., Ph.D., Principal

N.P.R. College of Engineering & Technology Natham, Dindigul (Dt) - 624 401.



NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.

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### **SEMESTER 2**

Programme: B.E. Computer Science and Engineering					
Year & Sem:	1&11				
Course Code & Name:	C110 & HS6251 - Technical English - II				
Year of Study:	2016-2017				

						C	O Vs P	O							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSO1	PSO2	PSO.
C110.1		8.5		•				-	3	3		2	-		_
C110.2	•		0,52						3	3		2	-		-
C110.3	( <b>.</b>	22.0	3.5						3	3		2	-	-	
C110.4	-	12.5				3#3			3	3		2		7.2	
C110.5	-	1174	S.*S			:•:			3	3	(( <b>+</b> ))	2			
C110	•	1.00	-	-					3.00	3.00		2.00	-		
PO ATTAINMENT	•	M.	5.5		-	200		-	3.00	3.00		2.00	(2)		

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/UNIV	ATTAINMEN	TS		3.00	3.00
WEIGHTAGE	T-Share		and the second	20%	80%
CO ATTAINTMEN	0.60	2.40			
FINAL CO ATTAI	NTMNET FO	R THE SUBJEC	CT	3.00	)







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Programme: B.E. Comp	uter Science and Engineering
rear & Sem:	1&11
Course Code & Name:	C111 & MA6251 - Mathematics - II
Year of Study:	2016-2017

						C	O Vs P	0							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C111.1	3	3	2	2	2	1		-			,		,		
C111.2	3	3	1	1	1					•	2	1	- 4	2	2
C111.3	3	3		i	•	- '	•	•	•	•	2	- 1	2	1	1
C111.4	3	3	7	2	-	-	-	•		•	1		2	1	1
C111.5	3	3	2		1	1	•	- 1	-		1	1	2	1	2
		,	2	1			•				1		1	1	1
C111	3.00	3.00	1.75	1.40	1.33	1.00		1.00			1.40	1.00			
PO ATTAINMENT	1.40	1.40	0.82	0.65	0.62	0.47		0.47			0.65	1.00 0.47	1.80 0.84	0.56	0.65

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TESTI	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	1
CO2	3	0	3	3.00	1
CO3	0	3	3	3.00	1
CO4	0	3	3	3.00	1
CO5	0	0	3	3.00	220145
INTERNAL/U		MENTS		3.00	1.00
WEIGHTAGE	the second secon			20%	80%
CO ATTAINT		0.60	0.80		
FINAL CO AT	SUBJECT	1.4			







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	1811
Course Code & Name:	C112 & PH6251 - Engineering Physics - II
Year of Study:	2016-2017

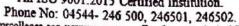
						C	O Vs P	0							
COURSE OUTCOME	POI	PO2	РОЗ	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C112.1	2	1	2	3	3	1			-	-		1	3	1	-
C112.2	3	2	3	3	3	2	2		-	_	-	1	3	2	-
C112.3	3	2	3	3	2	2	3	-				2	3		3
C112.4	2	3	2	2	2	1	1			-	•			1	- 2
C112.5	2	1		ī	-			. <del>.</del>		•	•	- 1	3	2	2
C112	2.40	1.80	2.50	2.40		1.00	2.00		•	•	-	•	1	•	1
PO	10 1000	1.00	2.30	2.40	2.50	1.50	2.00					1.25	2.60	1.75	1.80
ATTAINMENT	1.12	0.84	1.17	1.12	1.17	0.70	0.93			-		0.58	1.21	0.82	0.84

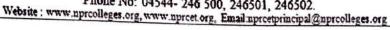
	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
C01	3	0	3	3.00	UNIV
CO2	3	0	3		1
CO3	0	3	3	3.00	1
CO4	0	3	3	3.00	
CO5	0	0	3	3.00	1
INTERNAL/UNIV	ATTAINMENT	rs	3	3.00	1
WEIGHTAGE				3.00	1.00
CO ATTAINTME	NT FOR THE SI	IRIECT		20%	80%
FINAL CO ATTA	T	0.60	0.80		
	III THILL TON	THE SUBJEC	1	1.4	10











Programme: B.E. Compu	iter Science and Engineering
Year & Sem:	I&II
Course Code & Name:	C113 & CY6251 - Engineering Chemistry - II
Year of Study:	2016-2017

71-247-114-001915/415/45						C	O Vs P	)						_	
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C113.1	3	2	1	1	2	2	3	_	1	2	2	2	2		
C113.2	3	1	2	2	1	1	1		- 1			2	3	1	1
C113.3	3	1	2	1	2	1	1	-	-	2	l	2	2	1	3
C113.4	3	2	2	2	-	1	1		2	2	2	3	1	2	1
Access of the Control	-		2	2	2	1	2	-	1	2	1	1	2	3	3
C113.5	3	1	1	3	2	2	2		2	2	1	2	-	-	
C113	3.00	1.40	1.60	1.80	1.80	-				-	1		- 1	2	1
PO	150 15115	1.10	1.00	1.60	1.60	1.40	1.80	•	1.50	2.00	1.40	2.00	1.80	1.80	1.80
ATTAINMENT	1.40	0.65	0.75	0.84	0.84	0.65	0.84		0.70	0.93	0.65	0.93	0.84	0.84	0.84

1000	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TESTI	TEST2	TEST3	INT	UNIV
CO1	.3	0	3	3.00	OIVI V
CO2	3	0	3	3.00	26 34 1 1 2 3 3 3 4 3 3 3 4 3 3 3 3 4 3 3 3 3 3 3
CO3	0	3	3	3.00	1
CO4	0	3	3	3.00	1
CO5	0	0	3	3.00	1
INTERNAL/UN	IV ATTAINME	NTS		3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINTM	0.60	0.80			
FINAL CO AT	FAINTMNET FO	OR THE SUB	JECT	1.4	







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	1&11
Course Code & Name:	C114 & CS6201 - Digital Principles and System Design
Year of Study:	2016-2017

						C	O Vs P	0							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C114.1	3	2	1	1	-	1	1	-			_	-	3	1	1
C114.2	3	2	2	2	-	1	i	-	_	-		-	2	2	1
C114.3	3	2	2	2	-	1	1	-	-			-	3	2	1
C114.4	3	2	2	2	-	1	1	_	_	_		1	2	2	1
C114.5	3	2	2	2	1	1	i	1	_	7/4	-	1	2	2	1
C114	3.00	2.00	1.80	1.80	1.00	1.00	1.00	1.00	_	_	-	1.00	2.40	1.80	1.00
PO ATTAINMENT	1.40	0.93	0.84	0.84	0.47	0.47	0.47	0.47	-	32	1923	0.47	1.12	0.84	1.00 <b>0.4</b> 7

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	1
CO2	3	0	3	3.00	1
CO3	0	3.	3	3.00	i
CO4	0	3	3	3.00	1
CO5	0	7 5 0	3	3.00	1
INTERNAL/UN	IV ATTAINME	NTS	7 m (1 m/t/2 m	3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINTM	THE WHAT	0.60 0.80			
FINAL CO ATT	BJECT	1.40			







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	1&11				
Course Code & Name:	C115 & CS6202 - Programming and Data Structures I				
Year of Study :	2016-2017				

						CC	Vs PO	)							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C115.1	3	2	3	3	1	-		-	-		-	-	3	3	1
C115.2	3	2	2	1	-	-		-	-	-	<u></u>	-	3	2	-
C115.3	3	3	3	2	-	-	-	-	-	-	2	-	3	2	-
C115.4	3	2	1	-	7/2	-	-	-	-	-	-	-	3	1	1
C115.5	3	3	_	-	7/40		-	-	-	-		-	3	1	1
C115	3.00	2.40	2.25	2.00	1.00	-	14	-	-	-	-	7-	3.00	1.80	1.00
PO ATTAINMENT	1.40	1.12	1.05	0.93	0.47	-	-	-	_		-	-	1.40	0.84	0.47

130	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	1
CO2	3	3	3.00	1	
CO3	0	3	3	3.00	1
CO4	0	3	3	3.00	
CO5	0	0	3	3.00	1
INTERNAL/UN	IV ATTAINM	ENTS		3.00	1.00
WEIGHTAGE		Light de la lei		20%	80%
CO ATTAINTM	ENT FOR TH		0.60	0.80	
FINAL CO ATT	AINTMNET	UBJECT	1.40	0	







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	1811				
Course Code & Name:	C116 & GE6262 - Physics and Chemistry Laboratory - II				
Year of Study:	2016-2017				

						C	O Vs P	0							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C116.1	2	2	1	1	2	1	1	1	2	1	1	2	2	2	1
C116.2	2	2	1	1	1	2	2	-	1	1	2	1	2	2	1
C116.3	1	2	2	1	1	2	1	-	2	1	1	2	1	2	2
C116	1.67	2.00	1.33	1.00	1.33	1.67	1.33	1.00	1.67	1.00	1.33	1.67	1.67	2.00	1.33
PO ATTAINMENT	1.67	2.00	1.33	1.00	1.33	1.67	1.33	1.00	1.67	1.00	1.33	1.67	1.67	2.00	1.33

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0.	3	3.00	3
CO3	0	0	3	3.00	3
INTERNAL/UNI	V ATTAINMEN	ITS		3.00	3.00
WEIGHTAGE			TELESCOPE STATE	20%	80%
CO ATTAINTME	0.60	2.40			
FINAL CO ATT	3.0	00			







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	1&11				
Course Code & Name:	C117 & CS6211 - Digital Laboratory				
Year of Study :	2016-2017				

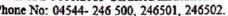
						C	O Vs PC	)							
COURSE OUTCOME	PO1	PO2	РОЗ	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C117.1	3	1	1	1	-	1	1	-		9=0	-	7.5	3	1	1
C117.2	3	2	2	2	7.4	1	1	-	-		-		2	2	I
C117.3	3	1	2	2	-	1	1	-		-	7	-	3	2	1
C117.4	3	2	2	2	-	1	1	-	-	-	-	1	2	2	1
C117.5	3	1	2	2	1	1	1	1	-	-		1	2	2	1
C117	3.00	1.40	1.80	1.80	1.00	1.00	1.00	1.00	-	170	-	1.00	2.40	1.80	1.00
PO ATTAINMENT	3.00	1.40	1.80	1.80	1.00	1.00	1.00	1.00	-	-	=	1.00	2.40	1.80	1.00

	RUBRICS						
26	60% OF STUDENT ABOVE 50% - 1 (LOW)						
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)						
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)						

C101	TESTI	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/UNIV	ATTAINMEN	TS	francis de l'Establis	3.00	3.00
WEIGHTAGE		The second second	ne and the same	20%	80%
CO ATTAINTMEN	0.60	2.40			
FINAL CO ATTAI	CT	3.0	0		







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	1&11
Course Code & Name:	C118 & CS6212 - Programming and Data Structures Laboratory- I
Year of Study:	2016-2017

						C	O Vs PC	)							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C118.1	3	3	3	2	2	2	-	1		-	-	-	3	2	1
C118.2	3	3	2	2	2	:=::	-	1		-	-	-	3	2	1
C118.3	3	3	2	1	2	100	-	1	878	1577.1	-	-	3	2	1
C118.4	3	3	1	-	2		-	-		-	-	-	3	2	1
C118.5	3	3	1	-	2	-	-	-		-		-	3	1	1
C118	3.00	3.00	1.80	1.67	2.00	2.00	-	1.00	-	-	-	-	3.00	1.80	1.00
PO ATTAINMENT	3.00	3.00	1.80	1.67	2.00	2.00	-	1.00		-	-	-	3.00	1.80	1.00

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	.0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3.	3.00	3
INTERNAL/UN	IV ATTAINM	ENTS		3.00	3.00
WEIGHTAGE		PRESENTED		20%	80%
CO ATTAINTM	<b>一个人的</b>	0.60	2.40		
FINAL CO ATT	3.0	0			

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,

Principal \

N.P.R. College of Engineering & Technology Natham, Dindigul (Dt) - 624 401.





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## SEMESTER 3

Programme: B.E. Comp	outer Science and Engineering
Year & Sem:	1&11
Course Code & Name:	C201 & MA6351 - Transforms and Partial differential equations
Year of Study:	2017 - 2018

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C201.1	3	3	2	2	1	1	2	1	2	1	2	-	3	1	1
C201.2	3	3	2	2	1	2	1	-	1	-	2	-	3	2	1
C201.3	3	3	2	2	-	1	2	-	1		2	-	3	1	1
C201.4	3	2	1	2	1		1	-	-	-	3	(2)	2	2	2
C201.5	3	3	2	2	1	-	1	-	2	I	2	-	3	1	2
C201	3.00	2.80	1.80	2.00	1.00	1.33	1.25	1.00	1.50	1.00	2.20	-	2.80	1.40	1.40
PO ATTAINMENT	2.20	2.05	1.32	1.47	0.73	0.98	0.92	0.73	1.10	0.73	1.61	=	2.05	1.03	1.03

	RUBRICS						
27	60% OF STUDENT ABOVE 50% - 1 (LOW)						
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)						
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)						

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0	3	3.00	2
CO3	0	3	0	3.00	2
CO4	0	3	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/UNI	V ATTAINME	NTS	Marie - 2	3.00	2.00
WEIGHTAGE	BALL THE	P. Lettery		20%	80%
CO ATTAINTM		0.60 1.60			
FINAL CO ATT	2.20	E BE			







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	11 & 111				
Course Code & Name:	C202 & CS6301 - Programming and Data Structures II				
Year of Study:	2017 - 2018				

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C202.1	3	3	1	1	2	-	-	-	-	-	-	1	3	1	1
C202.2	3	3	2	2	2	-	-	( <del>+</del> )	-		(5)	1	3	2	1
C202.3	3	3	2	2	2	-	-	-	-	-	-	1	3	2	1
C202.4	3	1	-		-	-	-	-	-	-		-	3	1	-
C202.5	3	1	2	2	2	-	-	-	-	-	-	1	3	2	1
C202	3.00	2.20	1.75	1.75	2.00	-	-	-	-		-	1.00	3.00	1.60	1.00
PO ATTAINMENT	3.00	2.20	1.75	1.75	2.00	5	-	-	-	-	-	1.00	3.00	1.60	1.00

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	.0	3	3.00	3
CO6	0	0	0	0.00	3
INTERNAL/UN	(V ATTAINME)	NTS	3	3.00	3.00
WEIGHTAGE	The same of the sa	20%	80%		
CO ATTAINTM	一口生品基本问题	0.60	2.40		
FINAL CO ATT	JECT	3.0	0		







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Programme: B.E. Compu	iter Science and Engineering
Year & Sem:	11 & 111
Course Code & Name:	C203 & CS6302 - Database Management Systems
Year of Study:	2017 - 2018

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C203.1	3	3	-		-		-		-	1-1	-	-	3	3	-
C203.2	3	3	-	1	-	1	-	-	_	-	-	-	3	2	1
C203.3	3	3	-	10	-	1	-	-	-	-	-	-	3	2	1
C203.4	3	3	-	- 12	-	-	-	-	-		-	-	3	1	-
C203.5	3	3		2	_	2	1		-	-	-	-	3	2	2
C203	3.00	3.00		1.50		1.33	1.00	-	_		-	-	3.00	2.00	1.33
PO ATTAINMENT	3.00	3.00	-	1.50	-	1.33	1.00		-	-	-	-	3.00	2.00	1.33

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV		
CO1	3	0	3	3.00	3		
CO2	3	0	3	3.00	3		
CO3	0	3	3	3.00	3		
CO4	0	3	3	3.00	3		
CO5	0	0	3	3.00	3		
INTERNAL/UNI	V ATTAINME	NTS		3.00	3.00		
WEIGHTAGE	WEIGHTAGE						
CO ATTAINTME	0.60	2.40					
FINAL CO ATT	3.00						







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	11&111				
Course Code & Name:	C204 & CS6303 - Computer Architecture				
Year of Study:	2017 - 2018				

						CO	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C204.1	3	2	1	1	121	-		-	-	-	-	-	3	1	-
C204.2	3	2	1	1	848		2	-	-	_	-	-	3	1	
C204.3	3	3	2	2	-	-	124	<u> 20</u>	-	-	-	_	3	2	-
C204.4	3	3	2	1	-	1		-	-	2		1	3	2	-
C204.5	3	3	2	1	200	-	-	_	-	-	-	-	3	2	1
C204	3.00	2.60	1.60	1.20	3+3	1.00	-	-	-	_	-	1.00	3.00	1.60	1.00
PO ATTAINMENT	2.20	1.91	1.17	0.88	-	0.73	_	-	-	-	-	0.73	2.20	1.17	0.73

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV		
CO1	3	0	3	3.00	2		
CO2	3	0	3	3.00	2		
CO3	0	3	3	3.00	2		
CO4	0	3	3	3.00	2		
C05	0	0	3	3.00	2		
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	2.00		
WEIGHTAGI	3			20%	80%		
manufactured for the for a more than the first	CO ATTAINTMENT FOR THE SUBJECT						
FINAL CO A SUBJECT	TTAINTMN	IE .	2.2	1.60 0			







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	II & III
Course Code & Name:	C205 & CS6304 - Analog and Digital Communication
Year of Study:	2017 - 2018

						C	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C205.1	2	1	1	1	-	-	-	-	-	-	-	-	2	1	-
C205.2	2	1	1	1	-	-	-	-	-	-	-	-	2	1	-
C205.3	2	1	1	1	-	_		-		-	-	-	2	1	-
C205.4	3	2	2	2	121	_	-	_	-	-	-	-	3	2	1
C205.5	3	1	-	-	-	-	-	_	-	-	-	-	3	1	-
C205	2.40	1.20	1.25	1.25	-	-	-		-	-	-	-	2.40	1.20	1.00
PO TTAINMENT	2.40	1.20	1.25	1.25	•		-	-	-	-	_	-	2.40	1.20	1.00

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/L	INIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE	3	Close IS		20%	80%
CO ATTAINT	ECT	0.60	2.40		
FINAL CO A SUBJECT	E	3.0	0		







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	II & III				
Course Code & Name:	C206 & GE6351 - Environmental Science and Engineering				
Year of Study:	2017 - 2018				

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C206.1	<u>.</u>	2	-	-	-	2	3	2	-	-	-	-	-	2	1
C206.2	-	-	3	2	_	2	3	2	-	-	-	-	-	2	1
C206.3	-	2	-	-	2	2	3		-	-	(6)	-	-	2	1
C206.4		-	-	-	<u> =</u>	1	3		-		(20)		12	2	1
C206.5	-	-	-	-	_	3	3	2	-	-	2.7	-		2	2
C206	-	2.00	3.00	2.00	-	2.00	3.00	2.00	-	-	-	740		2.00	1.20
PO ATTAINMENT	40	1.47	2.20	1.47	-	1.47	2.20	1.47	-	-	-	-	-	1.47	0.88

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0	3	3.00	2
CO3	0	3	3	3.00	2
CO4	0	3	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINT	ECT	0.60	1.60		
FINAL CO A SUBJECT	E	n produce n produce	2.20		





NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.

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Programme: B.E. Comp	outer Science and Engineering
Vanu P. Cami	11.8.111
Course Code & Name:	C207 & CS6311 - Programming and Data Structure Laboratory II
Year of Study:	2017 - 2018

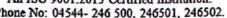
						CC	) Vs PO						1		
COURSE OUTCOME	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C207.1	2			-	-	2	2	2	3	3	-	2	1	-	-
C207.2	2	2	-		-	2	2	2	3	3	-	2	1	-	-
C207.2	-	-	2	-	-	2	2	2	3	3	-	2	1		-
C207.4	-	-	-	3	-	1	1	1	3	3	-	2	1	-	-
	-	-	-	-	-	2	2	2	3	3		2	1	-	-
C207.5	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00		2.00	1.00	-	-
C207	2.00	2.00	2.00	3.00		1.00	1.00	1.00	5.00	0.00					
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	=	2.00	1.00	-	-

RUBRICS					
27	60% OF STUDENT ABOVE 50% - 1 (LOW)				
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)				
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)				

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	0	0	3	3.00	2
CO2	0	0	3	3.00	2
CO3	0	0	3	3.00	2
CO4	0	0	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	2.00
WEIGHTAGE	3			20%	80%
CO ATTAIN	TMENT FOR	THE SUBJ	ECT	0.60	2.40
FINAL CO A SUBJECT	E		3.00		







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Programme: B.E. Comp	Programme: B.E. Computer Science and Engineering						
Year & Sem:	II & III						
Course Code & Name:	C208 & CS6312 - Database Management Systems Laboratory						
Year of Study:	2017 - 2018						

						C	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C208.1	2	-	-		-	2	2	2	3	3	-	2	1	-	-
C208.2	2	2	(-)		-	2	2	2	3	3		2	1	-	177
C208.3	-	74	2	_	-	2	2	2	3	3		2	1	-	-
C208.4	-	()	) =	3	-	1	1	1	3	3	0. <del>0</del> 0	2	1	=	1.5
C208.5	-	N#S	7:50	-	-	2	2	2	3	3	1 T	2	1	-	
C208	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-
CO TTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS	医二二甲基	3.00	3.00
WEIGHTAGI	E III III			20%	80%
CO ATTAIN	ECT	0.60	2.40		
FINAL CO A SUBJECT	Е	3	.00		



Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.

Principal\





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## SEMESTER 4

Programme: B.E. Compa	Programme: B.E. Computer Science and Engineering						
Year & Sem:	H&IV						
Course Code & Name:	C209 & MA6453 - Probability Queuing Theory						
Year of Study:	2017 - 2018						

						CC	Vs PO			411					
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C209.1	2	1		2	-	-	-		-		-	2	2	1	-
C209.2	2	1	-	1	-	_	112	-	-	-	-	-	1	1	
C209.3	2	1	-	1	-	-	7-	2	-	-	-	1	1	1	-
C209.4	2	1	-	1	-	- 1	-	-	-	-	-	1	-	-	-
C209.5	2	1	-	1	V=V	-	_	- 4	-	100	-	1	1	2	-
C209	2.00	1.00		1.20	-	-	-	-	-	12	-	1.25	1.25	1.25	-
PO TTAINMENT	0.93	0.47	-	0.56	-	2	-	-	-	-	-	0.58	0.58	0.58	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV		
CO1	3	0	3	3.00	1		
CO2	3	0	3	3.00	1		
CO3	0	3	0	3.00	1		
CO4	0	3.	3	3.00	1		
CO5	0	0	3	3.00	1		
INTERNAL/U	INIV ATTAI	NMENTS	100	3.00	1.00		
WEIGHTAGE			- 77-148	20%	80%		
CO ATTAINT	0.60	0.80					
FINAL CO A SUBJECT	FINAL CO ATTAINTMNET FOR THE						







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	II & IV
Course Code & Name:	C210 & CS6551 - Computer Networks
Year of Study:	2017 - 2018

	5					CC	Vs PO				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C210.1	3	2	2	1	-	-	-	-	-	-	. <del>77</del>	2	3	1	1
C210.2	3	2	2	2	1	-	-	S <b>=</b> 0	<del></del>		1	2	3	2	1
C210.3	3	3	2	2	1	(C+2	18	8.53	1	1	1	3	3	2	1
C210.4	3	3	2	1	-	-	-		- 5		1	3	3	2	1
C210.5	3	3	3	3	2	2	1	2	2	2	2	3	3	3	2
C210	3.00	2.60	2.20	1.80	1.33	2.00	1.00	2.00	1.50	1.50	1.25	2.60	3.00	2.00	1.20
PO ATTAINMENT	2.20	1.91	1.61	1.32	0.98	1.47	0.73	1.47	1.10	1.10	0.92	1.91	2.20	1.47	0.88

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0	3	3.00	2
CO3	0	3	3	3.00	2
CO4	0	3	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/U	JNIV ATTAI	NMENTS	10, 100	3.00	2.00
WEIGHTAGI	3		17 7/2	20%	80%
CO ATTAIN	MENT FOR	ECT	0.60 1.60		
FINAL CO A SUBJECT	Е	2	.20		







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	II & IV
Course Code & Name:	C211 & CS6401 - Operating Systems
Year of Study:	2017 - 2018

						CO	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C211.1	2	-	-	-	-	2	2	2	3	3	_	2	1	-	_
C211.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C211.3	_	-	2	-	-	2	2	2	3	3		2	1	-	_
C211.4	-	-	-	3	-	1	1	1	3	3	7-	2	1	-	_
C211.5	-	(70)	-	-	-	2	2	2	3	3	02	2	1	-	_
C211	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	- V2	2.00	1.00	-	_
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	(I. <del></del>	2.00	1.00	-	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3.00	3	
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAIN	ECT	0.60	2.40		
FINAL CO A SUBJECT	IE .		3.00		







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Programme: B.E. Compi	iter Science and Engineering
Year & Sem:	II & IV
Course Code & Name:	C212 & CS6402 - Design and Analysis Of Algorithm
Year of Study:	2017 - 2018

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C212.1	2	-	_	-	-	2	2	2	3	3	_	2	1	-	-
C212.2	2	2		-	-	2	2	2	3	3	-	2	1	-	-
C212.3	-	-	2	-	-	2	2	2	3	3	_	2	1	-	
C212.4	-			3	-	1	1	1	3	3	-	2	1	-	-
C212.5	-	-	_ =	-	-	2	2	2	3	3	-	2	1	-	
C212	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	_	2.00	1.00	-	1250
PO ATTAINMENT	1.47	1.47	1.47	2.20	-	1.32	1.32	1.32	2.20	2.20	-	1.47	0.73	-	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0	3	3.00	2
CO3	0	3	3	3.00	2
CO4	0	3	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/U	JNIV ATTAI	NMENTS	1110000	3.00	2.00
WEIGHTAGE			<b>非常特别</b>	20%	80%
CO ATTAIN	0.60	1.60			
FINAL CO A SUBJECT	20,000	2.20			







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	II & IV				
Course Code & Name:	C213 & EC6504 - Microprocessors and Microcontrollers				
Year of Study:	2017 - 2018				

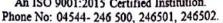
						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSO1	PSO2	PSO3
C213.1	2	_	-	-	=	2	2	2	3	3	-	2	1	-	-
C213.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C213.3	-	-	2	-	-	2	2	2	3	3	-	2	1	-	-
C213.4	-	-	1-1	3	-	1	1	1	3	3	-	2	1	-	_
C213.5	-	-	-	-	-	2	2	2	3	3	745	2	1	-	-
C213	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-
PO ATTAINMENT	1.47	1.47	1.47	2.20	•	1.32	1.32	1.32	2.20	2.20	-	1.47	0.73	-	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0	3	3.00	2
CO3	0	3	3	3.00	2
CO4	0	3	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	2.00
WEIGHTAGE	3	1	8	20%	80%
CO ATTAIN	0.60	1.60			
FINAL CO A SUBJECT	18 - 2 hs	2.20			







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Programme: B.E. Computer Science and Engineering					
Year & Sem:	II & IV				
Course Code & Name:	C214 & CS6403 - Software Engineering				
Year of Study:	2017 - 2018				

						C	O Vs PO							<u> </u>	1
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C214.1	2		-	-	-	2	2	2	3	3	-	2	1	-	-
C214.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C214.3	. н	1	2	-	-	2	2	2	3	3	-	2	1	-	
C214.4	-	1	-	3	-	1	1	-1	3	3	-	2	1	-	
C214.5		1	-	-	-	2	2	2	3	3	-	2	1	-	-
C214	2.00	1.25	2.00	3.00	(#)	1.80	1.80	1.80	3.00	3.00		2.00	1.00	-	
PO ATTAINMENT	0.93	0.58	0.93	1.40	_	0.84	0.84	0.84	1.40	1.40	2	0.93	0.47	-	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	1
CO2	3	0	3	3.00	1 2
CO3	0	3	3	3.00	1
CO4	0	3	3	3.00	1
CO5	0	0	3	3.00	1
INTERNAL/U	INIV ATTAIN	<b>NMENTS</b>		3.00	1.00
WEIGHTAGE	3			20%	80%
CO ATTAINT	MENT FOR	ECT	0.60	0.80	
FINAL CO A SUBJECT	TTAINTMNI	E		1.40	





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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	II & IV
Course Code & Name:	C215 & CS6411 - Networks Laboratory
Year of Study:	2017 - 2018

						CO	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO.
C215.1	2	-	-	-	-	2	2	2	3	3	-	2		-	
C215.2	2	2	-	-	-	2	2	2	3	3	-	2	i	1 12	
C215.3	-	// <u>~</u>	2	-	-	2	2	2	3	3	_	2	i	-	-
C215.4	-	1124	-	3	-	1	1	1	3	3		2	i	-	_
C215.5	-	-	2		-	2	2	2	3	3		2	1	-	_
C215	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00		-
PO TTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	- 0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	(a)	3.00	3.00		
WEIGHTAGE	20%	80%			
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	3	.00			







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	II & IV
Course Code & Name:	C216 & CS6412 - Microprocessors & Microcontrollers Laboratory
Year of Study:	2017 - 2018

						CC	O Vs PO								
COURSE OUTCOME	PO1	PO2	РОЗ	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C216.1	2	-	-	-	-	2	2	2	3	3	-	2	1	-	-
C216.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C216.3	-	-	2		-	2	2	2	3	3	-	2	1	-	170
C216.4	-	-	-	3	=	1	1	1	3	3	-	2	1	-	( <del>**</del> )
C216.5	-	-	-	-	-	2	2	2	3	3	-	2	1	-	-
C216	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0.7	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	2.53	3.00	3.00		
WEIGHTAGE	. 110	20%	80%		
CO ATTAINT	ECT	0.60	2.40		
FINAL CO A SUBJECT	IE	3	.00		







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	II & IV
Course Code & Name:	C217 & CS6413 - Operating Systems Laboratory
Year of Study:	2017 - 2018

						C	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSOI	PSO2	PSO3
C217.1	2	-	-	-	-	2	2	2	3	3		2	1	-	
C217.2	2	2	<u> </u>	-	-	2	2	2	3	3		2	1	-	-
C217.3	-	-	2	-	-	2	2	2	3	3	×.	2	1	S. <del></del>	
C217.4	-	-	-	3	-	1	1	1	3	3	-	2	1		
C217.5	7.	-	-	-	(#X)	2	2	2	3	3	-	2	1	-	•
C217	2.00	2.00	2.00	3.00	. <del>.</del>	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	•
PO TTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-

	RUBRICS
26	60% OF STUDENT ABOVE 50% - 1 (LOW)
30	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
34	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0.	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/L	NIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE			· 100 00 00 00 00 00 00 00 00 00 00 00 00	20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	Е		3.00



Dr. J.SUNDARARAJAN,

B.E., M.Tech., Ph.D.,

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## SEMESTER 5

Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C301 & MA6566 - Discrete Mathematics
Year of Study:	2018 - 2019

						CC	Vs PO			235	91				
COURSE OUTCOME	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	2	-	1	-	3	-	-	-	· .	-	-	-	2	1	3
C301.2	3	3	2	-	1	-	-	-	-	-		-	2	1	1
C301.3	-	3	-	-	2	1	-	_ =	-	S=1	-	-	1	1	1
C301.4	-	-	-	1	141	-	3	2	-	1=1	-	-	1	1	2
C301.5	-	-	-	-	-	-	_	1		2	-	-	3	1	2
C301	2.50	3.00	1.50	1.00	2.00	1.00	3.00	1.50	1079.	2.00	(1 <del>5</del> )	-	1.80	1.00	1.80
PO TTAINMENT	1.17	1.40	0.70	0.47	0.93	0.47	1.40	0.70	-	0.93	-	-	0.84	0.47	0.84

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	1
CO2	3	0	3	3.00	1
CO3	0	3	0	3.00	1
CO4	0	3	3	3.00	-1
CO5	0	0	3	3.00	1
INTERNAL/U	JNIV ATTAI	NMENTS	1.15	3.00	1.00
WEIGHTAGE	3			20%	80%
CO ATTAIN	ECT	0.60	0.80		
FINAL CO A SUBJECT	TTAINTMN	ET FOR TH	Е		1.40







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C302 & CS6501 - Internet Programming
Year of Study :	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	3	1	1	2	1.5	-	-	-	-	-	1	3	1	1
C302.2	3	3	2	2	3	2	3	3	3	3	2	3	3	2	3
C302.3	3	3	2	2	3	2	-		-		2	3	3	2	2
C302.4	3	3	2	2	3	2	2	3	3	3	3	2	3	2	2
C302.5	3	3	2	2	3	-		-	-	-	2	2	3	2	2
C302	3.00	3.00	1.80	1.80	2.80	2.00	2.50	3.00	3.00	3.00	2.25	2.20	3.00	1.80	2.00
PO ATTAINMENT	1.40	1.40	0.84	0.84	1.31	0.93	1.17	1.40	1.40	1.40	1.05	1.03	1.40	0.84	0.93

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COI	3	0	3	3.00	1
CO2	3	0	3	3.00	1
CO3	0	3	3	3.00	1
CO4.	0	3	3	3.00	1
CO5	0	0	3	3.00	1
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	1.00
WEIGHTAGE	3		19	20%	80%
CO ATTAINT	ECT	0.60	0.80		
FINAL CO A SUBJECT	TTAINTMN	ET FOR TH	Е		1.40







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Programme: B.E. Compu	iter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C303 & CS6502 - Object Oriented Analysis and Design
Year of Study:	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSOI	PSO2	PSO3
C303.1	3	3	3	2	2	1	-	-	-	-	-	1	3	2	1
C303.2	3	3	3	2	-	1	1	-	-	-	( <b>=</b> 0	-	3	2	-
C303.3	3	3	3	2	-	-	-	-	-	-	( <b>2</b> )0	-	3	2	-
C303.4	3	3	2	1	_	2	1	-	-	-	-	2	3	1	2
C303.5	3	3	3	2	2	2	1	2	3	3	3	2	3	2	2
C303	3.00	3.00	2.80	1.80	2.00	1.50	1.00	2.00	3.00	3.00	3.00	1.67	3.00	1.80	1.67
PO ATTAINMENT	3.00	3.00	2.80	1.80	2.00	1.50	1.00	2.00	3.00	3.00	3.00	1.67	3.00	1.80	1.67

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	-3
CO5	0	0	3	3.00	3
INTERNAL/U	INIV ATTAI	NMENTS	Part of the	3.00	3.00
WEIGHTAGE		源 为		20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	IE.		3.00







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C304 & CS6503 - Theory of Computation
Year of Study:	2018 - 2019

						CO	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C304.1	3	3	2	1	-	-	-	-	-	-	_	3	1	-	-
C304.2	3	3	3	2	-	-	-	-	_		-	3	1	_	-
C304.3	3	3	3	2	-	-	_	-	_			3	1		
C304.4	3	3	3	3	-	2	-	1	-	-	1	3	i i		
C304.5	3	3	2	3	-	1	-	1	-	-	1	1	-i-	-	H
C304	3.00	3.00	2.60	2.20	-	1.50		1.00	-	-	1.00	2.60	1.00	-	-
PO ATTAINMENT	1.40	1.40	1.21	1.03	-	0.70	-	0.47	-	_	0.47	1.21	0.47	-	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV		
CO1	3	0	3	3.00	1		
CO2	3	0	3	3.00	1		
CO3	0	3	3	3.00	1		
CO4	0	3	3	3.00	1		
CO5	0	0	3	3.00	1		
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	1.00		
WEIGHTAGE			17-17-18	20%	80%		
CO ATTAINT	MENT FOR	THE SUBJ	ECT	0.60	0.80		
FINAL CO A SUBJECT	CO ATTAINTMENT FOR THE SUBJECT FINAL CO ATTAINTMNET FOR THE SUBJECT						





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Programme: B.E. Compi	iter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C305 & CS6504 - Computer Graphics
Year of Study:	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
C305.1	3	3	3	2	1	2	-	-	-		2	-	3	2	2
C305.2	3	3	3	2	2	2	-	-	-	-	1	_	3	2	2
C305.3	3	3	3	2	2	2	-	-	-	_	1	-	3	2	2
C305.4	3	3	3	2	2	2	-	-	2	2	2	1	3	2	
C305.5	3	3	3	2	2	2	-	-	2	2	2	1	3		2
C305	3.00	3.00	3.00	2.00	1.80	2.00			2.00	2.00		1.00	3	2	2
PO ATTAINMENT	3.00	3.00	3.00	2.00	1.80	2.00		-	2.00	2.00	1.60	1.00	3.00 3.00	2.00	2.00

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
COl	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U		MENTS		3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINT	ECT	0.60	2.40		
FINAL CO A SUBJECT	E		3.00		







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C306 & CS6511 - Case Tools Laboratory
Year of Study:	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C306.1	3	3	2	2	2	-	0. <del>=</del> 0	-	-	-	-	1	3	2	1
C306.2	3	3	1	1	3	-	(*)		-	3-3	-	3	3	1	3
C306.3	3	2	2	1	3	-		-	-	2-2	-	2	3	2	2
C306.4	3	3	2	2	3	2	1	3	3	1	1	3	3	2	2
C306.5	3	3	2	1	3	2	2	3	2	3	2	3	3	2	2
C306	3.00	2.80	1.80	1.40	2.80	2.00	1.50	3.00	2.50	2.00	1.50	2.40	3.00	1.80	2.00
PO ATTAINMENT	3.00	2.80	1.80	1.40	2.80	2.00	1.50	3.00	2.50	2.00	1.50	2.40	3.00	1.80	2.00

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE	Ξ	19-7		20%	80%
CO ATTAIN	ECT	0.60	2.40		
FINAL CO A SUBJECT	TTAINTMN	ET FOR TH	IE	3.	00







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Programme: B.E. Comp	outer Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C307 & CS6512 - Internet Programming Laboratory
Year of Study:	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
C307.1	3	3	2	2	2	-		-	-	-	_	1	3	2	1
C307.2	3	3	1	1	3	-	-	-		_	-	3	3	1	3
C307.3	3	2	2	1	3	-	-	-	-	1947	-	2	3	2	2
C307.4	3	3	2	2	3	2	1	3	3	1	1	3	3	2	2
C307.5	3	3	2	1	3	2	2	3	2	3	2	3	3	2	2
C307	3.00	2.80	1.80	1.40	2.80	2.00	1.50	3.00	2.50	2.00	1.50	2.40	3.00	1.80	2.00
PO ATTAINMENT	3.00	2.80	1.80	1.40	2.80	2.00	1.50	3.00	2.50	2.00	1.50	2.40	3.00	1.80	2.00

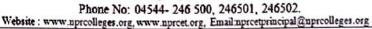
	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	NIV ATTAIN	<b>IMENTS</b>	NAME OF THE OWNER, OF THE OWNER,	3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINT	MENT FOR	ECT	0.60	2.40	
FINAL CO A SUBJECT	TTAINTMNE	T FOR TH	IE .		3.00











Programme: B.E. Comp	iter Science and Engineering
Year & Sem:	III & V
Course Code & Name:	C308 & CS6513 - Computer Graphics Laboratory
Year of Study:	2018 - 2019

						CC	Vs PO	N.							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C308.1	3	3	3	2	1	1	2	2	1	1	1	2	3	2	1
C308.2	3	3	3	2	1	1	2	2	1	1	1	1	3	2	1
C308.3	3	3	3	1	1	2	2	2	1	1	1	1	3	2	1
C308.4	3	3	3	2	2	2	2	2	1	1	I	2	3	2	2
C308.5	3	3	3	2	2	2	2	2	1	1	1	2	3	2	2
C308	3.00	3.00	3.00	1.80	1.40	1.60	2.00	2.00	1.00	1.00	1.00	1.60	3.00	2.00	1.40
PO ATTAINMENT	3.00	3.00	3.00	1.80	1.40	1.60	2.00	2.00	1.00	1.00	1.00	1.60	3.00	2.00	1.40

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV			
CO1	0	0	3	3.00	3			
CO2	0	0	3	3.00	3			
CO3	0	0	3	3.00	3			
CO4	0	0	3	3.00	3			
CO5	0	0	3	3.00	3			
INTERNAL/U	INIV ATTAIN	VMENTS	AL IL	3.00	3.00			
WEIGHTAGE	Balley - King		1 6	20%	80%			
CO ATTAINT	CO ATTAINTMENT FOR THE SUBJECT							
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	IE .		3.00			



Dr. J.SUNDARARAJAN,

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## SEMESTER 6

Programme: B.E. Comp	outer Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C309 & CS6601 - Distributed Systems
Year of Study:	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C309.1	3	3	2	1	1		-	-	-	-		1	3	2	1
C309.2	3	3	2	2	1	-	1	-	-	-	-	1	3	2	1
C309.3	3	3	3	2	2	1	1	1	2	2	2	1	3	2	- 1
C309.4	3	3	3	2	2	1	1	1	2	2	2	1	3	3	2
C309.5	3	3	1	ı	1	1	2	1	2	- 2	-	1	3	3	2
C309	3.00	3.00	2.20	1.60	1.40	1.00	1.25	1.00	2.00	2.00	2.00	1.00	3.00	2.40	1.40
PO ATTAINMENT	3.00	3.00	2.20	1.60	1.40	1.00	1.25	1.00	2.00	2.00	2.00	1.00	3.00	2.40	1.40

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	CO1 3 0 3		3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	0	3.00	3
CO4	0	3	3	3.00	3
CO5	0 0 3		3	3.00	3
CO6	0	0	0	0.00	3
INTERNAL/U	INIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE	3			20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	TTAINTMN	ET FOR TH	IE .		3.00







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Programme: B.E. Comput	ter Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C310 & IT6601 - Mobile Computing
Year of Study:	2018 - 2019

						CC	O Vs PO					7.53			
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C310.1	2	-	-	-	(424)	2	2	2	3	3	12	2	1		-
C310.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C310.3	-	150	2	-	N. T.	2	2	2	3	3	()	2	1	-	-
C310.4	( m.)	-	-	3	-	1	1	1	3	3	-	2	1	-	-
C310.5	-	-	-	141	(4)	2	2	2	3	3	740	2	1	-	-
C310	2.00	2.00	2.00	3.00	4	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	_	27
CO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	.=.	2.00	1.00	-	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	.0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3 6	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	NIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE	3	1015		20%	80%
CO ATTAINT	ECT	0.60	2.40		
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	IE	3	.00







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C311 & CS6660 - Compiler Design
Year of Study:	2018 - 2019

						CC	Vs PO								
COURSE OUTCOME	POI	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSOI	PSO2	PSO.
C311.1	2	•	-	-		2	2	2	3	3	-	2	1	-	-
C311.2	2	2		-	-	2	2	2	3	3	-	2	1	4	-
C311.3	-	-	2	-	-	2	2	2	3	3		2	1	- F	
C311.4	-	•	-	3	-	1	1	1	3	3	-	2	1	-	-
C311.5	-	1 <del>1</del> 1	-	-	-	2	2	2	3	3		2	1	-	-
C311	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	2	-

A AND	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV	
CO1	3	0	3	3.00	3	
CO2	3	0	3	3.00	3	
CO3	0	3	3	3.00	3	
CO4	0	3	3	3.00	- 3	
CO5	0	0	3	3.00	3	
INTERNAL/U	NIV ATTAI	NMENTS	Y	3.00	3.00	
WEIGHTAGE				20%	80%	
CO ATTAINT	ECT	0.60	2.40			
FINAL CO AT SUBJECT	ΓΤΑΙΝΤΜΝΙ	ET FOR TH	IE		3.00	







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C312 & IT6502 - Digital Signal Processing
Year of Study:	2018 - 2019

						C	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C312.1	2	-		-		2	2	2	3	3		2	1		
C312.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C312.3	-	15.77	2	-	-	2	2	2	3	3	7.	2	i	-	-
C312.4	-	-	17.5	3	-	1	1	1	3	3		2	1		
C312.5	-	-	-	-		2	2	2	3	3	-	2	i	-	
C312	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	920	2.00	1.00	-	
PO ATTAINMENT	1.47	1.47	1.47	2.20	-	1.32	1.32	1.32	2.20	2.20	2	1.47	0.73		-

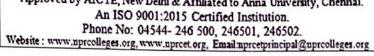
3.4	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0.	3	3.00	2
CO3	0	3	3	3.00	2
CO4	0	3	3	3.00	2
CO5	0	0	3	3.00	-2
INTERNAL/U	INIV ATTAI	NMENTS		3.00	2.00
WEIGHTAGE	20-1-07			20%	80%
CO ATTAINT	ECT	0.60	1.60		
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	Е		2.20





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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C313 & CS6659 - Artificial Intelligence
Year of Study:	2018 - 2019

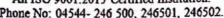
						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C313.1	2	-		-	-	2	2	2	3	3		2	1	-	
C313.2	2	2	-			2	2	2	3	3		2	1		
C313.3	-	-	2	2	-	2	2	2	3	3		2	1	-	-
C313.4	-	-	-	3	2	1	1	1	3	3	<u> </u>	2	1	-	-
C313.5	-	-	-	-	-	2	2	2	3	3		2	1	-	•
C313	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00		2.00	1.00	-	•
PO ATTAINMENT	1.47	1.47	1.47	2.20	-	1.32	1.32	1.32	2.20	2.20	-	1.47	0.73		-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	2
CO2	3	0	3	3.00	2
CO3	0	3	3	3.00	2
CO4	0	3.	3	3.00	2
CO5	0	0	3	3.00	2
INTERNAL/U	INIV ATTAI	NMENTS	3.5	3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINT	0.60	1.60			
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	IE .	2	.20







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Programme: B.E. Compute	er Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C314 & GE6757 - Total Quality Management
Year of Study:	2018 - 2019

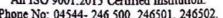
						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	2	-	-	-	-	2	2	2	3	3	-	2	1	-	170
C314.2	2	2	-	-	-	2	2	2	3	3	-	2	1	552	-
C314.3	-	1	2		+	2	2	2	3	3	-	2	1	-	-
C314.4	-	1	-	3	-	1	1	1	3	3		2	1	-	-
C314.5	-	1		-	+:	2	2	2	3	3	1,5	2	1	-	-
C314	2.00	1.25	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-
PO ATTAINMENT	2.00	1.25	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	() <b>=</b>	2.00	1.00		-

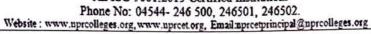
No.	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	3	3.00	3
CO2	3	0	3	3.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS	1000	3.00	3.00
WEIGHTAGE	Basin Charles		the fire	20%	80%
CO ATTAINT	ECT	0.60	2.40		
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	E	3	3.00











Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C315 & CS6611 - Mobile Application Development Laboratory
Year of Study:	2018 - 2019

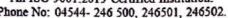
						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C315.1	2	-	-	-	-	2	2	2	3	3	-	2	1	-	-
C315.2	2	2	-		-	2	2	2	3	3	-	2	1	-	
C315.3	) <b>=</b>	-	2	-	-	2	2	2	3	3	-	2	1	-	-
C315.4	-	( ) = (	-	3	-	1	1	1	3	3	-	2	1	-	-
C315.5	() <b>-</b> ()	-	-	-	-	2	2	2	3	3		2	1	170	-
C315	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	- 5
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	20	2.00	1.00	3 <b>±</b> 0	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV	
CO1	0	0	3	3.00	3	
CO2	0	0	3	3.00	3	
CO3	0	0	3	3.00	3	
CO4	0	0	3	3.00	3	
CO5	0	0	3	3.00	3	
INTERNAL/U	JNIV ATTAI	NMENTS	l less	3.00	3.00	
WEIGHTAG	Е			20%	80%	
CO ATTAIN	0.60	2.40				
FINAL CO A SUBJECT	FINAL CO ATTAINTMNET FOR THE					







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Programme: B.E. Compute	r Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C316 & CS6612 - Compiler Laboratory
Year of Study:	2018 - 2019

						CC	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C316.1	2	-	(4.0	-	-	2	2	2	3	3	150	2	1	-	
C316.2	2	2	-	-		2	2	2	3	3	-	2	1	-	-
C316.3	-	2	2	-	-	2	2	2	3	3	-	2	1	-	-
C316.4	2	2	-	3	-	1	1	1	3	3	-	2	1	-	-
C316.5	2	4	-	-	-	2	2	2	3	3	-	2	1	-	-
C316	2.00	2.00	2.00	3.00	_	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00		-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	.0	3	3.00	3
CO4	0	0	3	3,00	3
CO6	0	0	. 0	0.00	3
INTERNAL/L	NIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE		1. 4. H. C.		20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.00			







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	III & VI
Course Code & Name:	C317 & GE6674 - Communication and Soft Skills Laboratory
Year of Study:	2018 - 2019

						CC	O Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C317.1	117.	-	-	-	-	-	-	-	3	3	-	2	1	-	-
C317.2	-	-		-	-	7(-)	-	7-	3	3	-	2	1	-	-
C317.3	-	-	-	-		-	n-		3	3	7-1	2	1	-	-
C317.4		-	-	-	-		-	-	3	3	7.40	2	1	-	-
C317.5	1/4	-		-	-	0.7	-		3	3	-	2	1	-	-
C317	-	-	14	-	-	-	-	-	3.00	3.00	-	2.00	1.00	-	-
PO ATTAINMENT	-	-	-	-		-	-	-	3.00	3.00	-	2.00	1.00	_	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
31	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
35	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TESTI	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS	12.4	3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	3	3.00			



Dr. J.SUNDARARAJAN,

B.E. M.Tech., Ph.D.,

Principal

N.P.R. College of Engineering & Technology Natham, Dindigul (Dt) - 624 401.





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## SEMESTER 7

Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C401 & CS6701 - Cryptography and Network Security
Year of Study:	2019 - 2020

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C401.1	3	3	2	1	1		1=0		-	-	1=0	1	3	2	1
C401.2	3	3	2	2	1		1	(-)		=	(#S)	1	3	2	1
C401.3	3	3	3	2	2	1	1	1	2	2	2	i	3	2	1
C401.4	3	3	3	2	2	1	1	1	2	2	2	1	3	3	2
C401.5	3	3	1	1	1	1	2	1	-	-	-	1	3	3	2
C401	3.00	3.00	2.20	1.60	1.40	1.00	1.25	1.00	2.00	2.00	2.00	1.00	3.00	2.40	1.40
PO ATTAINMENT	1.80	1.80	1.32	0.96	0.84	0.60	0.75	0.60	1.20	1.20	1.20	0.60	1.80	1.44	0.84

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	1	1.00	2
CO2	1	. 0	1	1.00	2
CO3	0	1*	0	1.00	2
CO4	0	1	1	1.00	2
CO5	0	0	1	1.00	2
INTERNAL/U	JNIV ATTAI	NMENTS		1.00	2.00
WEIGHTAGE			1.12	20%	80%
CO ATTAIN	0.20	1.60			
FINAL CO A SUBJECT		1	.80		







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Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C402 & CS6702 - Graph Theory and Applications
Year of Study:	2019 - 2020

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	2	2	3	2	_		_	-	-	_	12	-	3	3	-
C402.1	3	3			-	-					-		3	3	-
C402.2	3	3	2	2	-	- 2	-	3-11	-				_	3	_
C402.3	3	3	2	2	270	-	-	-	7=	-	-	-	3	3	
C402.4	3	3	2	2	-	-	-	-	-	-	-	-	3		
		3	3	3	2	1	1	1	1	1	1	3	3	2	2
C402.5	3			-		1		1.00	1.00	1.00	1.00	3.00	3.00	2.80	2.00
C402	3.00	3.00	2.40	2.20	2.00	1.00	1.00	1.00	1.00	1.00	1.00	3.00	3.00		
PO TTAINMENT	2.12	2.12	1.70	1.55	1.41	0.71	0.71	0.71	0.71	0.71	0.71	2.12	2.12	1.98	1.41

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	2	0	3	2.50	2
CO2	2	0	3	2.50	2
CO3	0	2	3	2.50	2
CO4	0	2	3	2.50	2
CO5	0	0	3	3.00	2
INTERNAL/U	JNIV ATTAI	NMENTS	A May 1	2.60	2.00
WEIGHTAGE	3 4 8 7	H. Walter		20%	80%
CO ATTAINT	MENT FOR	ECT	0.52	1.60	
FINAL CO A SUBJECT	TTAINTMN	Е	2	.12	







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Programme: B.E. Comput	ter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C403 & CS6703 - Grid and Cloud Computing
Year of Study:	2019 - 2020

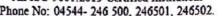
						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	3	3	2	1	-			-		-	-	7 2	3	2	
C403.2	2	3	2	1	-	-	174	070	-	-	-		2	2	
C403.3	3	2	2	1	3	-	-	-		-	-	-	3	2	
C403.4	3	3	3	2	3	3	2	2	1	1	2	2	3	2	
C403.5	3	3	2	2	2	-	-	-	-		-	-	3	2	
C403	2.80	2.80	2.20	1.40	2.67	3.00	2.00	2.00	1.00	1.00	2.00	2.00	2.80	2.00	
PO ATTAINMENT	2.43	2.43	1.91	1.21	2.31	2.60	1.73	1.73	0.87	0.87	1.73	1.73	2.43	1.73	(*)

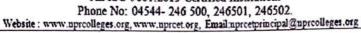
	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	1	1.00	3
CO2	1 1	0	1	1.00	3
CO3	. 0	112	1	1.00	3
CO4	0	1	1	1.00	3
CO5	0	0	1	1.00	3
INTERNAL/U	INIV ATTAIN	VMENTS		1.00	3.00
WEIGHTAGE			-17:1	20%	80%
CO ATTAINT	MENT FOR	ECT	0.20	2.40	
FINAL CO A SUBJECT	TTAINTMNI		2.60		











Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C404 & CS6704 - Resource Management Techniques
Year of Study:	2019 - 2020

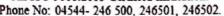
						CC	Vs PO		Alexander and a second						
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C404.1	3	3	3	3	-	2	2	1	1	1	1	3	3	3	2
C404.2	3	3	3	3	1	2	-	-	-	-	/=0		3	3	1
C404.3	3	3	3	2	2	3	-	-	-	-	-	1	3	2	2
C404.4	3	3	-	2	-	1	-	-	-		-	1	3	1	1
C404.5	3	3	3	3	3	2	3	3	2	2	3	3	3	3	3
C404	3.00	3.00	3.00	2.60	2.00	2.00	2.50	2.00	1.50	1.50	2.00	2.00	3.00	2.40	1.80
PO ATTAINMENT	1.92	1.92	1.92	1.66	1.28	1.28	1.60	1.28	0.96	0.96	1.28	1.28	1.92	1.54	1.15

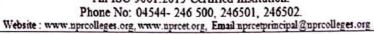
	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	2	1.50	2
CO2	1	0	2	1.50	2
CO3	0	1	2	1.50	2
CO4	0	1	2	1.50	2
CO5	0	0	2	2.00	2
INTERNAL/U	INIV ATTAI	VMENTS	No. of Part	1.60	2.00
WEIGHTAGE				20%	80%
CO ATTAINT	0.32	1.60			
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	E		1.92











Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	IV& VII
Course Code & Name:	C405 & IT6801 - Service Oriented Architecture
Year of Study:	2019 - 2020

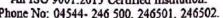
						CC	O Vs PO	X							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C405.1	2	-	-	-	-	2	2	2	3	3	-	2	1	85	-
C405.2	2	2		17.0	-	2	2	2	3	3	-	2	1	950	((2))
C405.3	-	-	2	-		2	2	2	3	3	-	2	1	-	
C405.4	-	-	-	3	-	1	1	1	3	3		2	1	-	-
C405.5	-	-	-	-	-	2	2	2	3	3	-	2	1	-	-
C405	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	
PO ATTAINMENT	1.95	1.95	1.95	2.92	-	1.75	1.75	1.75	2.92	2.92	-	1.95	0.97	-	-

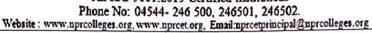
	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	3	2.00	3
CO2	1	0	3	2.00	3
CO3	0	3	3	3.00	3
CO4	0	3	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS		2.60	3.00
WEIGHTAGI	E			20%	80%
CO ATTAIN	ECT	0.52	2.40		
FINAL CO A SUBJECT	TTAINTMNI	ET FOR TH	E		2.92











Programme: B.E. Compa	nter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C406 & CS6007 - Information Retrieval
Year of Study:	2019 - 2020

						C	O Vs PO								
COURSE OUTCOME	PO1	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C406.1	2	-	-	-	-	2	2	2	3	3	-	2	1		-
C406.2	2	2	-	-	-	2	2	2	3	3	-	2	1	-	-
C406.3	-	1	2	-	-	2	2	2	3	3	-	2	1	300	-
C406.4	-	1	( <del>) () (</del>	3	-	1	1	1	3	3	8.40	2	1	-	-
C406.5	-	1	2 <b>-</b>	7.	-	2	2	2	3	3	1(6)	2	1	-	-
C406	2.00	1.25	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	-
PO ATTAINMENT	1.87	1.17	1.87	2.80	=	1.68	1.68	1.68	2.80	2.80		1.87	0.93	-	-

O WE	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TESTI	TEST2	TEST3	INT	UNIV
COI		0	2	1.50	3
CO2	11	0	2	1.50	3
CO3	0	3	2	2.50	3
CO4	0	3	2	2.50	3
CO5	0	0 -	2	2.00	3
INTERNAL/U	JNIV ATTAIN	MENTS	78, 36	2.00	3.00
WEIGHTAGE	E			20%	80%
CO ATTAINT	MENT FOR	ECT	0.40	2.40	
FINAL CO A SUBJECT	TTAINTMNE	T FOR TH	Е	2	2.80







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Programme: B.E. Compu	iter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C407 & CS6711 - Security Laboratory
Year of Study:	2019 - 2020

						CC	Vs PO	M. Mi							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C407.1	3	3	3	2	2	2		2	2	2	-	3	3	2	2
C407.2	3	3	3	3	2	3	-	2	2	2	-	3	3	3	3
C407.3	3	3	3	3	3	3		3	2	2		3	3	3	3
C407.4	3	3	3	3	3	3	- 0	3	3	2	-	3	3	3	3
C407.5	3	3	2	1	3	3	-	2	2	1	-	3	3	2	3
C407	3.00	3.00	2.80	2.40	2.60	2.80	-	2.40	2.20	1.80		3.00	3.00	2.60	2.80
PO ATTAINMENT	3.00	3.00	2.80	2.40	2.60	2.80	15	2.40	2.20	1.80	-	3.00	3.00	2.60	2.80

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0,	. 0	3	3.00	3
CO5	0	, O	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT		3.00			





# NPR College of Engineering & Technology NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India. New York of Activated to Appa University, Chennai.

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Programme: B.E. Compr	iter Science and Engineering
Year & Sem:	IV & VII
Course Code & Name:	C408 & CS6712 - Grid and Cloud Computing Laboratory
Year of Study:	2019 - 2020

						CC	O Vs PO	EV.							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C408.1	3	3	3	3	3	2	1	2	2	2	2	3	3	3	3
C408.2	3	3	3	3	3	2	2	3	3	3	3	3	3	3	3
C408.3	3	3	3	3	3	2	1	2	2	2	2	3	3	3	3
C408.4	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3
C408.5	3	3	3	3	3	3	3	2	2	2	2	3	3	3	3
C408	3.00	3.00	3.00	3.00	3.00	2.20	2.00	2.40	2.40	2.40	2.40	3.00	3.00	3.00	3.00
PO ATTAINMENT	3.00	3.00	3.00	3.00	3.00	2.20	2.00	2.40	2.40	2.40	2.40	3.00	3.00	3.00	3.00

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

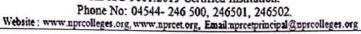
C101	TEST1	TEST2	TEST3	INT	UNIV
COI	0	0	3	3.00	3
CO2	0	0	3	3.00	3
CO3	0	0	3	3.00	3
CO4	0	0	3	3.00	3
CO5	0	0	3	3.00	3
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE	3		(7.5)	20%	80%
CO ATTAINT	0.60	2.40			
FINAL CO A SUBJECT	TTAINTMN	ET FOR TH	E	13	3.00



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## SEMESTER 8

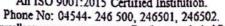
Programme: B.E. Comp	uter Science and Engineering
Year & Sem:	IV & VIII
Course Code & Name:	C409 & CS6801 - Multicore Architecture & Programming
Year of Study:	2019 - 2020

						CC	Vs PO								
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409.1	2	4	-	-	-	2	2	2	3	3	-	2	1	-	-
C409.2	2	2	1-2	-		2	2	2	3	3		2	1	-	-
C409.3	-	-	2		-	2	2	2	3	3		2	1	-	-
C409.4	-		19-11	3	5 <b>-</b> 5	1	1	1	3	3	(2)	2	i		-
C409.5	-	-	-	-	(#2)	2	2	2	3	3		2	1	-	
C409	2.00	2.00	2.00	3.00	0.500	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	_	
PO ATTAINMENT	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80		3.00	-	2.00	1.00	-	

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	0	3.00	3
CO2	3	0	0	3.00	3
CO3	0	3	0	3.00	3
CO4	0	3	0	3.00	3
CO5	0	0	0	0.00	3
INTERNAL/U	JNIV ATTAII	NMENTS		3.00	3.00
WEIGHTAGE	3- 20-			20%	80%
CO ATTAIN	ECT	0.60	2.40		
FINAL CO A SUBJECT	IE	3.0	0		





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Programme: B.E. Compi	uter Science and Engineering
Year & Sem:	IV & VIII
Course Code & Name:	C410 & CS6008 - Human Computer Interaction
Year of Study:	2019 - 2020

						CC	Vs PO	15							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSOS
C410.1	2	- 17		-	-	2	2	2	3	3	_	2	1	-	=
C410.2	2	2	-	93 <del>-</del> 93	-	2	2	2	3	3		2	1	-	
C410.3	-	7.0	2	17.	-	2	2	2	3	3	-	2	i	-	
C410.4	-	-	-	3	-	1	1	1	3	3	-	2	i	-	-
C410.5	12	-	-		-	2	2	2	3	3	-	2	i	-	-
C410	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	
PO ATTAINMENT	2.00	2.00	2.00	3.00		1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	•	-

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	0	3.00	3
CO2	3	0	0	3.00	3
CO3	0	3	0	3.00	3
CO4	0	3	0	3.00	3
CO5	0	0	0	0.00	3
INTERNAL/U	JNIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE	3			20%	80%
CO ATTAIN	MENT FOR	THE SUBJ	ECT	0.60	2.40
FINAL CO A SUBJECT	TTAINTMN	ET FOR TH	IE .	2	3.00







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	IV & VIII
Course Code & Name:	C411 & GE6075 - Professional Ethics in Engineering
Year of Study:	2019 - 2020

						CC	) Vs PO	)							
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO.
C411.1	3	3	-	1	-	-	1	2	3	-	-		3	1	-
C411.2		3	-	3	-	3	1	-	3	3	-	2	_ ,	2	2
C411.3	E	-	2	3	3	-	-	3	3	3	I	2	2	3	2
C411.4	-	-	3	- 1 ·	-	-	3	3	3	3	2	3	-	3	3
C411.5	-		-	3#3		-	100		3	3	-	3	-	-	3
C411	3.00	3.00	2.50	2.33	3.00	3.00	1.67	2.67	3.00	3.00	1.50	2.50	3.00	2.25	2.50
PO ATTAINMENT	3.00	3.00	2.50	2.33	3.00	3.00	1.67	2.67	3.00	3.00	1.50	2.50	3.00	2.25	2.50

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV			
COI	3/4	0.0	0	3.00	3			
CO2	3	0	0	3.00	3			
CO3	0	3	0	3.00	3			
CO4	0	3	0	3.00	3			
CO5	0	0	0	0.00	3			
INTERNAL/U	NIV ATTAI	NMENTS		3.00	3.00			
WEIGHTAGE				20%	80%			
CO ATTAINT	CO ATTAINTMENT FOR THE SUBJECT							
FINAL CO A' SUBJECT	FINAL CO ATTAINTMNET FOR THE							







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Programme: B.E. Compu	ter Science and Engineering
Year & Sem:	IV & VIII
Course Code & Name:	C412 & CS6811 - Project Work
Year of Study:	2019 - 2020

						CC	O Vs PO	(							
COURSE OUTCOME	PO1	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POII	PO12	PSO1	PSO2	PSO3
C412.1	3	3	-	1	-	-	1	2	3	-			3	1	121
C412.2	-	3		3	-	3	1		3	3	-	2	-	2	2
C412.3	-	-	2	3	3	-	-	3	3	3	1	2	-	3	2
C412.4	-	-	3	-	-	-	3	3	3	3	2	3		3	3
C412.5	-	-	-	-	-	-	-	-	3	3		3	-	-	3
C412.6	( <del>-</del>	-	-	)::	-	-	120		-	-		-	3	3	2
C412	3.00	3.00	2.50	2.33	3.00	3.00	1.67	2.67	3.00	3.00	1.50	2.50	3.00	2.40	2.40
PO ATTAINMENT	3.00	3.00	2.50	2.33	3.00	3.00	1.67	2.67	3.00	3.00	1.50	2.50	3.00	2.40	2.40

	RUBRICS
27	60% OF STUDENT ABOVE 50% - 1 (LOW)
32	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
36	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C101	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	0	3	3.00	× 3
CO2	0	0 4	3	3.00	3
CO3	0	0.0	3	3.00	3
CO4	0	0.	3	3.00	3
CO5	0	0	3	3.00	3
CO6	0	0	3	3.00	3
INTERNAL/U	NIV ATTAI	NMENTS		3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINT	ECT	0.60	2.40		
FINAL CO A SUBJECT	Е	3	.00		



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## 7. CSE Course attainment for all the subjects (Regulation 2013)

S. NO.	COURS E CODE	COURSE NAME	INTERNAL EXAMINATI ON ATTAINME NT VALUE	UNIVERSITY EXAMINATIO N ATTAINMEN T VALUE	CO ATTAINM ENT (100%)	PERCENT AGE OF ATTAINM ENT
1.	C101	Technical English - I	0.60	2.40	3.00	100%
2.	C102	Mathematics - I	0.60	2.40	3.00	100%
3.	C103	Engineering Physics - I	0.60	2.40	3.00	100%
4.	C104	Engineering Chemistry - I	0.60	2.40	3.00	100%
5.	C105	Computer Programming	0.60	2.40	3.00	100%
6.	C106	Engineering Graphics	0.60	2.40	3.00	100%
7.	C107	Computer Practices Laboratory	0.60	2.40	3.00	100%
8.	C108	Engineering Practices Laboratory	0.60	2.40	3.00	100%
9.	C109	Physics and Chemistry Laboratory	0.60	2.40	3.00	100%
10.	C110	Technical English - II	0.60	2.40	3.00	100%
11.	C111	Mathematics - II	0.60	0.80	1.40	46.66%
12.	C112	Engineering Physics - II	0.60	0.80	1.40	46.66%
13.	C113	Engineering Chemistry - II	0.60	0.80	1.40	46.66%
14.	C114	Digital Principles and System Design	0.60	0.80	1.40	46.66%
15.	C115	Programming and Data Structures I	0.60	0.80	1.40	46.66%
16.	C116	Physics and Chemistry Laboratory - II	0.60	2.40	3.00	100%
17.	C117	Digital Laboratory	0.60	2.40	3.00	100%
18.	C118	Programming and Data Structures Laboratory I	0.60	2.40	3.00	100%
19.	C201	Transforms and Partial Differential Equations	0.60	1.60	2.20	73.33%
20.	C202	Programming and Data Structures II	0.60	2.40	3.00	100%
21.	C203	Database Management Systems	0.60	2.40	3.00	100%
22.	C204	Computer Architecture	0.60	1.60	2.20	73.33%
23.	C205	Analog And Digital	0.60	2.40	3.00	100%







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		Communication			1.2000	
24.	C206	Environmental Science and Engineering	0.60	1.60	2.20	73.33%
25.	C207	Programming and Data Structure Laboratory	0.60	2.40	3.00	100%
26.	C208	Database Management Systems Laboratory	0.60	2.40	3.00	100%
27.	C209	Probability Queuing Theory	0.60	0.80	1.40	46.66%
28.	C210	Computer Networks	0.60	1.60	2.20	73.33%
29.	C211	Operating Systems	0.60	2.40	3.00	100%
30.	C212	Design and Analysis of Algorithm	0.60	1.60	2.20	73.33%
31.	C213	Microprocessors and Microcontrollers	0.60	1.60	2.20	73.33%
32.	C214	Software Engineering	0.60	0.80	1.40	46.66%
33.	C215	Networks Laboratory	0.60	2.40	3.00	100%
34.	C216	Microprocessors & Microcontrollers Laboratory	0.60	2.40	3.00	100%
35.	C217	Operating Systems Laboratory	0.60	2.40	3.00	100%
36.	C301	Discrete Mathematics	0.60	0.80	1.40	46.66%
37.	C302	Internet Programming	0.60	0.80	1.40	46.66%
38.	C303	Object Oriented Analysis and Design	0.60	2.40	3.00	100%
39.	C304	Theory of Computation	0.60	0.80	1.40	46.66%
40.	C305	Computer Graphics	0.60	2.40	3.00	100%
41.	C306	Case Tools Laboratory	0.60	2.40	3.00	100%
42.	C307	Internet Programming Laboratory	0.60	2.40	3.00	100%
43.	C308	Computer Graphics Laboratory	0.60	2.40	3.00	100%
44.	C309	Distributed Systems	0.60	2.40	3.00	100%
45.	C310	Mobile Computing	0.60	2.40	3.00	100%
46.	C311	Compiler Design	0.60	2.40	3.00	100%
47.	C312	Digital Signal Processing	0.60	1.60	2.20	73.33%
48.	C313	Artificial Intelligence	0.60	1.60	2.20	73.33%
49.	C314	Total Quality Management	0.60	2.40	3.00	100%
50.	C315	Mobile Application Development Laboratory	0.60	2.40	3.00	100%
51.	C316	Compiler Laboratory	0.60	2.40	3.00	100%







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		medane, www.upreducges.org, www.up	CACHAL WIT WOMEN TO A A A A A A A A A A A A A A A A A A			
52.	C317	Communication and Soft Skills Laboratory	0.60	2.40	3.00	100%
53.	C401	Cryptography and Network Security	0.20	1.60	1.80	60%
54.	C402	Graph Theory and Applications	0.52	1.60	2.12	70.66%
55.	C403	Grid and Cloud Computing	0.20	2.40	2.60	86.66%
56.	C404	Resource Management Techniques	0.32	1.60	1.92	64%
57.	C405	Service Oriented Architecture	0.52	2.40	2.92	97.33%
58.	C406	Information Retrieval	0.40	2.40	2.80	93.33%
59.	C407	Security Laboratory	0.60	2.40	3.00	100%
60.	C408	Grid and Cloud Computing Laboratory	0.60	2.40	3.00	100%
61.	C409	Multicore Architecture &Programming	0.60	2.40	3.00	100%
62.	C410	Human Computer Interaction	0.60	2.40	3.00	100%
63.	C411	Professional Ethics in Engineering	0.60	2.40	3.00	100%
64.	C412	Project Work	0.60	2.40	3.00	100%



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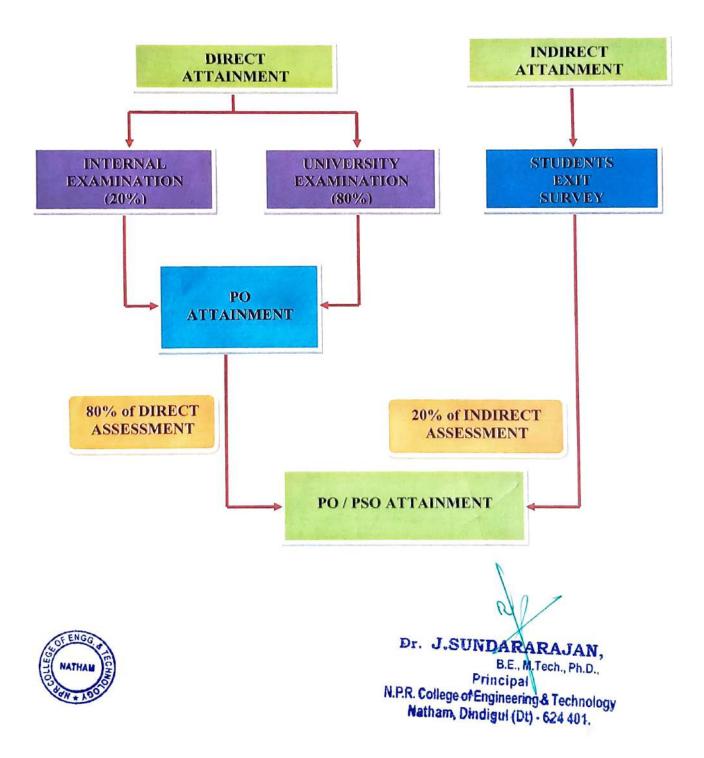
NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai An ISO 9001:2015 Certified Institution.

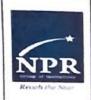


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### 8. Flow Chart for PO and PSO Attainment





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## 9. Calculation of POs and PSOs Attainment

Attainment Level through Direct Assessment	=	(0.8 x Attainment level based on University Examination Marks ) + (0.2 x Attainment level based on Internal Assessment Marks )
Direct Assessment		+ (0.2 x Attainment level based on Internal Assessment Marks)

## PO Attainment Level for a Course

PO Attainment	=	CO Vs PO Average of the course		CO Attainment of the
		Maximum Attainment Value	X	Course

### **Overall PO Attainment**

Overall PO	- (909/ of Divort Assessment) + (200/ of Indiv
Attainment	= (80% of Direct Assessment) + (20% of Indirect Assessment)



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## 10. Indirect Assessment Tools

## Students Exit Survey - Analysis

Program: B.E

Survey Collected: 44

Branch : Computer Science and Engineering

Academic Year : 2019-2020

POs	Questions	Excellent (4)	Good (3)	Satisfactory (2)	Fair (1)	Total Weightage	Maximum Weightage	Weightage based on three scale
PO1	The level of applying the knowledge in mathematics, science and Technology.	30	7	3	3	150	176	2.56
PO2	How much you are able to work effectively as an individual, a team member and team leader in an organization?	38	2	4	82	166	176	2.83
PO3	How was the effectiveness of Teaching Processes?	35	6	3	() <del>-</del>	164	176	2.80
PO4	How you utilize the Computer and Internet Facilities in our college?	35	2	5	2	158	176	2.69
PO5	How was the college infrastructure?	38	6	-		170	176	2.90
PO6	How well your participation in Sports and Extra-Curricular activities in our College?	30	10	4	-	158	176	2.69
PO7	How were the placement facilities in our college?	39	5	-	-	171	176	2.91
PO8	How do you develop the Personality and Communication Skills?	28	10	4	2	152	176	2.59
PO9	How were the Library facilities in our College?	33	7	3		159	176	2.71
PO10	How was your ability to create, select and apply appropriate techniques, resources and modern engineering IT tools to complex engineering activities?	30	6	3	5	149	176	2.54







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PO11	How was your ability to design solutions for complex engineering problems and design system components that meet the specific needs for environmental considerations?	35	6	3		164	176	2.80
PO12	How was your ability to design solutions for complex engineering problems and design system components that meet the specific needs for environmental considerations?	30	6	3	5	149	176	2.54

PSOs	Questions	Excellent (4)	Good (3)	Satisfactory (2)	Fair (1)	Total Weightage	Maximum Weightage	Weightage based on three scale
PSO1	How was your ability to enrich the design and develop software in the field of Higher Studies and Research?	33	7	3	=	159	176	2.71
PSO2	How was your ability to demonstrate knowledge and understanding of engineering and management principles in multidisciplinary environments?	38	2	4	-	166	176	2.83
PSO3	How was your ability to plan, design, analyze and develop computer applications in the field of Cloud Computing / Networking / Internet of Things / Artificial Intelligence / Security to meet Industry requirements?	35	6	3	-	164	176	2.80

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## Student Exit Survey for 2016-2020 Batch

Email address *
csejbalaji004@gmail.com
Name *
BALAJI J
Register Number *
920816104004
Branch *
Computer Science and Engineering
The level of applying the knowledge in mathematics, science and Technology. *
a) Excellent
b) Very Good
C) Satisfactory
O d) Fair



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2. How much you are able to work effectively as an individual, a team member and team leader in an organization? *
a) Excellent
() b) Very Good
C) Satisfactory
d) Fair
O syram
3. How was the effectiveness of Teaching Processes? *
a) Excellent
O b) Very Good
c) Satisfactory
O d) Fair
4. How you utilize the Computer and Internet Facilities in our college? *
a) Excellent
b) Very Good
c) Satisfactory
O d) Fair



5. How was the college infrastructure? *
a) Excellent
O b) Very Good
C) Satisfactory
O d) Fair
6. How well your participation in Sports and Extra-Curricular activities in our College? *
a) Excellent
b) Very Good
c) Satisfactory
O d) Fair
7. How were the placement facilities in our college? *
a) Excellent
b) Very Good
C) Satisfactory
O d) Fair



8. How do you develop the Personality and Communication skills? *
a) Excellent
b) Very Good
c) Satisfactory
O d) Fair
9. How were the Library facilities in our College? *
a) Excellent
b) Very Good
C) Satisfactory
d) Fair
10. How was your ability to create, select and apply appropriate techniques, resources and modern engineering IT tools to complex engineering activities?*
(a) Excellent
b) Very Good
c) Satisfactory
O d) Fair



11. How was your ability to design solutions for complex engineering problems and design system components that meet the specific needs for environmental considerations? *
a) Excellent
b) Very Good
c) Satisfactory
O d) Fair
12.How was your ability to design solutions for complex engineering problems and design system components that meet the specific needs for environmental considerations? *
a) Excellent
b) Very Good
c) Satisfactory
O d) Fair
13. How was your ability to enrich the design and develop software in the field of Higher Studies and Research? *
a) Excellent
b) Very Good
c) Satisfactory
O d) Fair
OF EN



14. How was your ability to demonstrate knowledge and understanding of engineering and management principles in multidisciplinary environments? *
<ul> <li>a) Excellent</li> <li>b) Very Good</li> <li>c) Satisfactory</li> <li>d) Fair</li> </ul>
15. How was your ability to plan, design, analyze and develop computer applications in the field of Cloud Computing / Networking / Internet of Things / Artificial Intelligence / Security to meet Industry requirements? *
<ul> <li>a) Excellent</li> <li>b) Very Good</li> <li>c) Satisfactory</li> <li>d) Fair</li> </ul>
This form was created inside of NPR COLLEGES.

Google Forms



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## 12. Direct and Indirect Assessment PO Attainment

						P	O ATT	AINME	NT						
					su	ВЈЕСТ	WISE	PO ATT	TAINM	ENT					
COURSE CODE	POI	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C101	-		7=	200	<u>=</u>	=	-	-	2.80	3.00		2.00	•		
C102	3.00	3.00	2.00	1.00	2.00	3.00	-	-	3.00	2.00	3.00	3.00	1.40	1.50	1.00
C103	2.00	1.80	2.50	2.40	2.50	1.50	2.00	-	-	( <b>2</b> )		1.25	1.60	2.20	1.60
C104	3.00	1.40	2.00	2.40	2.20	1.40	1.80	1.00	1.75	2.00	2.00	2.20	2.00	1.75	1.80
C105	3.00	3.00	3.00	2.20	-	=	-	2	2.20	3.00	2.00	3.00	3.00	3.00	2.00
C106	1.00	1.00	2.00	1.00	-	-	8		\ <u>\</u>	2.00	2	2.00	2.00	1.80	(40)
C107	1.80	1.80	2.60	2.00	-	=	92E	-	3.00	2.00	3.00	2.60	2.40	2.20	2.00
C108	1.00	1.00	2.00	1.00	-	=	-	-		2.00	=	2.00	1.00	-	<b></b>
C109	2.00	1.00	2.00	2.00	2.00	1.00	1.00	2	2.00	2.00	2.00	2.00	2.00	1.00	2.00
C110	ise.	1993			-	-	======================================	•	3.00	3.00	<u>a</u>	2.00	( <u>4</u> 2)	21	( <b>4</b> 0
C111	1.40	1.40	0.82	0.65	0.62	0.47	551	0.47	E=	-	0.65	0.47	0.84	0.56	0.65
C112	1.12	0.84	1.17	1.12	1.17	0.70	0.93	-	) () <del>=</del> (	S#35	-	0.58	1.21	0.82	0.84
C113	1.40	0.65	0.75	0.84	0.84	0.65	0.84	4:	0.70	0.93	0.65	0.93	0.84	0.84	0.84
C114	1.40	0.93	0.84	0.84	0.47	0.47	0.47	0.47			2	0.47	1.12	0.84	0.47
C115	1.40	1.12	1.05	0.93	0.47	-	-	-		154			1.40	0.84	0.47
C116	1.67	2.00	1.33	1.00	1.33	1.67	1.33	1.00	1.67	1.00	1.33	1.67	1.67	2.00	1.33
C117	3.00	1.40	1.80	1.80	1.00	1.00	1.00	1.00	-	150	12	1.00	2.40	1.80	1.00
C118	3.00	3.00	1.80	1.67	2.00	2.00	-	1.00	-	-	8		3.00	1.80	1.00
C201	2.20	2.05	1.32	1.47	0.73	0.98	0.92	0.73	1.10	0.73	1.61		2.05	1.03	1.03
C202	3.00	2.20	1.75	1.75	2.00		*	-	-	343	9	1.00	3.00	1.60	1.00
C203	3.00	3.00	-	1.50		1.33	1.00	-	-		•	•	3.00	2.00	1.33
C204	2.20	1.91	1.17	0.88		0.73		-	-	184		0.73	2.20	1.17	0.73
C205	2.40	1.20	1.25	1.25	-				-		-	-	2.40	1.20	1.00
C206		1.47	2.20	1.47	-	1.47	2.20	1.47			-		-	1.47	0.88
C207	2.00	2.00	2.00	3.00		1.80	1.80	1.80	3.00	3.00		2.00	1.00	-	13 <b>4</b> 5
C208	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00 OF ENG		2.00	1.00		





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			11 608	HE WIT	nprecue	ges org, v	www.nprc	et org, E	man upre	mprincipal:	Inprollege	1.012			
C209	0.93	0.47	-	0.56		78	-		•			0.58	0.58	0.58	
C210	2.20	1.91	1.61	1.32	0.98	1.47	0.73	1.47	1.10	1.10	0.92	1.91	2.20	1.47	0.88
C211	2.00	2.00	2.00	3.00		1.80	1.80	1.80	3.00	3.00		2.00	1.00	-	-
C212	1.47	1.47	1.47	2.20	-	1.32	1.32	1.32	2.20	2.20	•	1.47	0.73	-	-
C213	1.47	1.47	1.47	2.20		1.32	1.32	1.32	2.20	2.20	-	1.47	0.73		
C214	0.93	0.58	0.93	1.40	•	0.84	0.84	0.84	1.40	1.40		0.93	0.47	-	-
C215	2.00	2.00	2.00	3.00	85	1.80	1.80	1.80	3.00	3.00		2.00	1.00	02	-
C216	2.00	2.00	2.00	3.00	n-	1.80	1.80	1.80	3.00	3.00	•	2.00	1.00		-
C217	2.00	2.00	2.00	3.00	0120	1.80	1.80	1.80	3.00	3.00		2.00	1.00		
C301	1.17	1.40	0.70	0.47	0.93	0.47	1.40	0.70		0.93	( <b>-</b> )	7=1	0.84	0.47	0.84
C302	1.40	1.40	0.84	0.84	1.31	0.93	1.17	1.40	1.40	1.40	1.05	1.03	1.40	0.84	0.93
C303	3.00	3.00	2.80	1.80	2.00	1.50	1.00	2.00	3.00	3.00	3.00	1.67	3.00	1.80	1.67
C304	1.40	1.40	1.21	1.03	-	0.70	-	0.47	-	-	0.47	1.21	0.47	-	
C305	3.00	3.00	3.00	2.00	1.80	2.00	-	-	2.00	2.00	1.60	1.00	3.00	2.00	2.00
C306	3.00	2.80	1.80	1.40	2.80	2.00	1.50	3.00	2.50	2.00	1.50	2.40	3.00	1.80	2.00
C307	3.00	2.80	1.80	1.40	2.80	2.00	1.50	3.00	2.50	2.00	1.50	2.40	3.00	1.80	2.00
C308	3.00	3.00	3.00	1.80	1.40	1.60	2.00	2.00	1.00	1.00	1.00	1.60	3.00	2.00	1.40
C309	3.00	3.00	2.20	1.60	1.40	1.00	1.25	1.00	2.00	2.00	2.00	1.00	3.00	2.40	1.40
C310	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00		
C311	2.00	2.00	2.00	3.00		1.80	1.80	1.80	3.00	3.00	2.00	2.00	1.00		-
C312	1.47	1.47	1.47	2.20	2	1.32	1.32	1.32	2.20	2.20	7-	1.47	0.73	12	
C313	1.47	1.47	1.47	2.20	-	1.32	1.32	1.32	2.20	2.20		1.47	0.73		
C314	2.00	1.25	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	74	2.00	1.00		
C315	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00		2.00	1.00	4	
C316	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00		2.00	1.00		-
C317	-	-	-			-	-	-	3.00	3.00		2.00	1.00		
C401	1.80	1.80	1.32	0.96	0.84	0.60	0.75	0.60	1.20	1.20	1.20	0.60	1.80	1.44	0.84
C402	2.12	2.12	1.70	1.55	1.41	0.71	0.71	0.71	0.71	0.71	0.71	2.12	2.12	1.98	1.41
C403	2.43	2.43	1.91	1.21	2.31	2.60	1.73	1.73	0.87	0.87	1.73	1.73	2.43	1.73	
C404	1.92	1.92	1.92	1.66	1.28	1.28	1.60	1.28	0.96	0.96	1.28	1.28	1.92	1.54	1.15
C405	1.95	1.95	1.95	2.92	-	1.75	1.75	1.75	2.92	2.92		1.95	0.97	2	
C406	1.87	1.17	1.87	2.80	-	1.68	1.68	1.68	2.80	2.80		1.87	0.93		





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C407	3.00	3.00	2.80	2.40	2.60	2.80	-	2.40	2.20	1.80	-	3.00	3.00	2.60	2.80
C408	3.00	3.00	3.00	3.00	3.00	2.20	2.00	2.40	2.40	2.40	2.40	3.00	3.00	3.00	3.00
C409	2.00	2.00	2.00	3.00	2	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	-	
C410	2.00	2.00	2.00	3.00	-	1.80	1.80	1.80	3.00	3.00	-	2.00	1.00	Ť	•
C411	3.00	3.00	2.50	2.33	3.00	3.00	1.67	2.67	3.00	3.00	1.50	2.50	3.00	2.25	2.50
C412	3.00	3.00	2.50	2.33	3.00	3.00	1.67	2.67	3.00	3.00	1.50	2.50	3.00	2.40	2.40
DIRECT	2.10	1.91	1.84	1.90	1.68	1.53	1.46	1.55	2.32	2.22	1.58	1.74	1.70	1.63	1.39
INDIRECT	2.56	2.83	2.80	2.69	2.90	2.69	2.91	2.59	2.71	2.54	2.80	2.54	2.71	2.83	2.80
DIRECT 80%	1.68	1.53	1.47	1.52	1.35	1.23	1.17	1.24	1.85	1.78	1.27	1.39	1.36	1.30	1.12
INDIRECT 20%	0.51	0.57	0.56	0.54	0.58	0.54	0.58	0.52	0.54	0.51	0.56	0.51	0.54	0.57	0.56
PO ATTAINM ENT	2.19	2.09	2.03	2.06	1.93	1.76	1.75	1.75	2.40	2.28	1.83	1.90	1.90	1.87	1.68

## PO ATTAINMENT

