



# NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

An ISO 9001:2015 Certified Institution.

Phone No: 04544- 246 500, 246501, 246502.

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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.

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PRINCIPAL

**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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# **Academic Year 2020 -21**



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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	<b>Conduct investigations of complex problems:</b> 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	<b>The engineer and society:</b> 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	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.





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PO9	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	<b>Communication:</b> 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	<b>Life Long Learning:</b> 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

<p align="center"><b>PSO1</b></p>	<p>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.</p>
<p align="center"><b>PSO2</b></p>	<p>Employ modern computer languages, environments and platforms in creating innovative career paths by inculcating moral values and ethics.</p>
<p align="center"><b>PSO3</b></p>	<p>Achieve additional expertise through add-on and certificate programs.</p>





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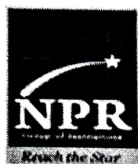
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### 3. List of courses for the regulation 2017 (2017 – 2021 Batch)

SL. NO.	COURSE CODE	SUBJECT CODE	TITLE OF THE SUBJECT
<b>1<sup>st</sup> Semester</b>			
1.	C101	HS8151	COMMUNICATIVE ENGLISH
2.	C102	MA8151	ENGINEERING MATHEMATICS - I
3.	C103	PH8151	ENGINEERING PHYSICS
4.	C104	CY8151	ENGINEERING CHEMISTRY
5.	C105	GE8151	PROBLEM SOLVING AND PYTHON PROGRAMMING
6.	C106	GE8152	ENGINEERING GRAPHICS
7.	C107	GE8161	PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY
8.	C108	BS8161	PHYSICS AND CHEMISTRY LABORATORY
<b>2<sup>nd</sup> Semester</b>			
9.	C109	HS8251	TECHNICAL ENGLISH
10.	C110	MA8251	ENGINEERING MATHEMATICS - II
11.	C111	PH8252	PHYSICS FOR INFORMATION SCIENCE
12.	C112	BE8255	BASIC ELECTRICAL ELECTRONICS AND MEASUREMENT ENGINEERING
13.	C113	GE8291	ENVIRONMENTAL SCIENCE AND ENGINEERING
14.	C114	CS8251	PROGRAMMING IN C
15.	C115	GE8261	ENGINEERING PRACTICES LABORATORY
16.	C116	CS8261	C PROGRAMMING LABORATORY





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3 <sup>rd</sup> Semester			
17.	C201	MA8351	DISCRETE MATHEMATICS
18.	C202	CS8351	DIGITAL PRINCIPLES AND SYSTEM DESIGN
19.	C203	CS8391	DATA STRUCTURES
20.	C204	CS8392	OBJECT ORIENTED PROGRAMMING
21.	C205	EC8395	COMMUNICATION ENGINEERING
22.	C206	CS8381	DATA STRUCTURES LABORATORY
23.	C207	CS8383	OBJECT ORIENTED PROGRAMMING LABORATORY
24.	C208	CS8382	DIGITAL SYSTEMS LABORATORY
25.	C209	HS8381	INTERPERSONAL SKILLS/LISTENING & SPEAKING
4 <sup>th</sup> Semester			
26.	C210	MA8402	PROBABILITY AND QUEUEING THEORY
27.	C211	CS8491	COMPUTER ARCHITECTURE
28.	C212	CS8492	DATABASE MANAGEMENT SYSTEMS
29.	C213	CS8451	DESIGN AND ANALYSIS OF ALGORITHMS
30.	C214	CS8493	OPERATING SYSTEMS
31.	C215	CS8494	SOFTWARE ENGINEERING
32.	C216	CS8481	DATABASE MANAGEMENT SYSTEMS LABORATORY
33.	C217	CS8461	OPERATING SYSTEMS LABORATORY
34.	C218	HS8461	ADVANCED READING AND WRITING LAB
5 <sup>th</sup> Semester			
35.	C301	MA8551	ALGEBRA AND NUMBER THEORY
36.	C302	CS8591	COMPUTER NETWORKS
37.	C303	EC8691	MICROPROCESSORS AND MICROCONTROLLERS
38.	C304	CS8501	THEORY OF COMPUTATION
39.	C305	CS8592	OBJECT ORIENTED ANALYSIS AND DESIGN
40.	C306	OMD551	BASIC OF BIOMEDICAL INSTRUMENTATION
41.	C307	EC8681	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY
42.	C308	CS8582	OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY
43.	C309	CS8581	NETWORKS LABORATORY





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## 6<sup>th</sup> Semester

44.	C310	CS8651	INTERNET PROGRAMMING
45.	C311	CS8691	ARTIFICIAL INTELLIGENCE
46.	C312	CS8601	MOBILE COMPUTING
47.	C313	CS8602	COMPILER DESIGN
48.	C314	CS8603	DISTRIBUTED SYSTEMS
49.	C315	IT8076	SOFTWARE TESTING
50.	C316	CS8661	INTERNET PROGRAMMING LABORATORY
51.	C317	CS8662	MOBILE APPLICATION DEVELOPMENT LABORATORY
52.	C318	CS8611	MINI PROJECT
53.	C319	HS8581	PROFESSIONAL COMMUNICATION

## 7<sup>th</sup> Semester

54.	C401	MG8591	PRINCIPLES OF MANAGEMENT
55.	C402	CS8792	CRYPTOGRAPHY AND NETWORK SECURITY
56.	C403	CS8791	CLOUD COMPUTING
57.	C404	OIE751	ROBOTICS
58.	C405	GE8077	TOTAL QUALITY MANAGEMENT
59.	C406	CS8079	HUMAN COMPUTER INTERACTION
60.	C407	CS8711	CLOUD COMPUTING LABORATORY
61.	C408	IT8761	SECURITY LABORATORY

## 8<sup>th</sup> Semester

62.	C409	GE8076	PROFESSIONAL ETHICS IN ENGINEERING
63.	C410	CS8080	INFORMATION RETRIEVAL TECHNIQUES
64.	C411	CS8811	PROJECT WORK







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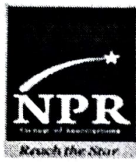
## 4. List of Course Outcomes (Regulation 2017) for CSE

### SEMESTER 1

Course Code & Name : HS8151 - COMMUNICATIVE ENGLISH		
	CO Statements	Knowledge Level
The students should be able to		
C101.1	Communicate clearly both in the written form and orally using appropriate vocabulary and comprehend written texts to make inferences.	K2
C101.2	Speak persuasively in different social contexts and write biographical details and technical documents cohesively, coherently and flawlessly using appropriate words.	K2
C101.3	Speak, read and write effectively for a variety of professional and social settings.	K2
C101.4	Read descriptive, narrative, expository and interpretive texts and write using creative, critical, analytical and evaluative methods.	K6
C101.5	Listen, comprehend and respond to different spoken and written discourses/excerpts in different accents and write different genres of texts adopting various writing strategies.	K6

Course Code & Name : C102 & MA8151 - ENGINEERING MATHEMATICS - I		
	CO Statements	Knowledge Level
The students should be able to		
C102.1	Use both the limit definition and rules of differentiation to differentiate functions.	K3
C102.2	Apply differentiation to solve maxima and minima problems	K3
C102.3	Evaluate integrals both by using Riemann sums and by using the fundamental theorem of convergent improper integrals. Evaluate integrals using techniques of integration, such as substitution, partial Fractions, integration by parts and improper integrals.	K5
C102.4	Apply integration to compute multiple integrals, area, volume, integrals in polar Coordinates, in addition to change of order and change of variables.	K3
C102.5	Apply various techniques in solving differential equations.	K3





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Course Code & Name : C103 & PH8151 - ENGINEERING PHYSICS		
	CO Statements	Knowledge Level
The students should be able to		
C103.1	Discuss the Young's modulus and Rigidity modulus of elasticity of materials and its determination through experimental methods.	K2
C103.2	Describe the characteristics of laser light and their application in semiconductor laser.	K2
C103.3	Discuss the principle behind the propagation of light through an optical fibre and its application in sensors.	K2
C103.4	Summarize the different modes of heat transfer.	K2
C103.5	Describe the unit cell characteristics and the growth of crystals	K2

Course Code & Name : C104 & CY8151 - ENGINEERING CHEMISTRY		
	CO Statements	Knowledge Level
The students should be able to		
C104.1	Summarize the water related problems in boilers and their treatment techniques.	K2
C104.2	Discuss the applications of adsorption in the field of water and air pollution abatement.	K1
C104.3	Discuss the types of catalysis and the mechanism of enzyme catalysis.	K2
C104.4	Associate phase rule in the alloying and the behavior of one component and two component systems using phase diagram.	K2
C104.5	Summarize the principles and generation of energy in batteries, nuclear reactors, solar cells, wind mills and fuel cells.	K2

Course Code & Name : C105 & GE8151- PROBLEM SOLVING AND PYTHON PROGRAMMING		
	CO Statements	Knowledge Level
The students should be able to		
C105.1	Discuss the logical solutions through Flowcharts, Algorithms and Pseudo code	K2
C105.2	Understand the syntax for python programming constructs.	K2
C105.3	Compute the flow of the program to obtain the programmatic solution.	K2
C105.4	Examine the programs with sub problems using 'Python' language	K3
C105.5	Compute the compound data using Python lists, tuples, and dictionaries	K2





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## Course Code and Name : C106 & GE8152- ENGINEERING GRAPHICS

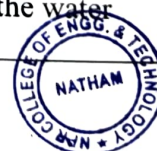
CO Statements		Knowledge Level
The students should be able to		
C106.1	Sketch the conic sections, special curves, and draw orthographic views from pictorial views and models.	K4
C106.2	Apply the principles of orthographic projections of points in all quadrants, lines and planes in first quadrant.	K3
C106.3	Sketch the projections of simple solids like prisms, pyramids, cylinder and cone and obtain the traces of plane figures.	K4
C106.4	Practice the sectional views of solids like cube, prisms, pyramids, cylinders & cones and extend its lateral surfaces	K3
C106.5	Sketch the perspective projection of simple solids, truncated prisms, pyramids, cone and cylinders and sketch the isometric projection of simple machine parts.	K4

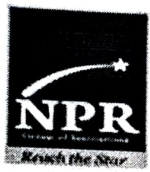
## Course Code and Name : C107 & GE8161- PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C107.1	Write, test, and debug simple Python programs	K1
C107.2	Apply the concept of conditionals and loops in Python programs.	K3
C107.3	Develop the Python programs step-wise by defining functions and calling them.	K4
C107.4	Use Python lists, tuples, dictionaries for representing compound data.	K3
C107.5	Read and write data from/to files in Python.	K2

## Course Code and Name : C108 & BS8161 - PHYSICS AND CHEMISTRY LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C108.1	Apply physics principles of optics and thermal physics to evaluate engineering properties of materials.	K3
C108.2	Ability to test materials by using their knowledge of applied physics principles in optics and properties of matter.	K5
C108.3	Perform the quantitative chemical analysis of chloride and dissolved oxygen.	K5
C108.4	Determine the amount of acids by using the instruments of conductivity meter and pH meter.	K5
C108.5	Determine the hardness, alkalinity and metal ion content in the water samples.	K5





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## SEMESTER 2

Course Code & Name : C109 & HS8251 - TECHNICAL ENGLISH

CO Statements		Knowledge Level
The students should be able to		
C109.1	Read technical texts and write area specific texts effortlessly.	K2
C109.2	Listen and comprehend lectures and talks in their areas of specialization and write effectively for a variety of professional and social settings	K2
C109.3	Speak and write appropriately and effectively in varied formal and informal contexts.	K6
C109.4	Write effectively and persuasively and produce different types of writing such as letters, minutes, reports and winning job applications.	K6
C109.5	Communicate clearly using technical vocabulary in their professional correspondences	K2

Course Code & Name : C110 & MA8251 - ENGINEERING MATHEMATICS - II

CO Statements		Knowledge Level
The students should be able to		
C110.1	Calculate the Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices	K3
C110.2	Evaluate the line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification	K5
C110.3	Determine Analytic functions, Conformal mapping and Bilinear transformation	K3
C110.4	Evaluate the Cauchy's integrals, Taylor's and Laurent's and residue theorem for evaluation for real integrals using circular and semicircular, contour	K5
C110.5	Evaluate Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.	K5
C110.6	Discuss Laplace Transform methods to solve initial value problems for constant coefficient linear ODEs.	K2





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Course Code & Name : C111 & PH8252 - PHYSICS FOR INFORMATION SCIENCE		
	CO Statements	Knowledge Level
The students should be able to		
C111.1	Discuss about Weidman Franz law and the conduction in solids.	K2
C111.2	Associate the concept of quantum electron theories with energy band structures.	K2
C111.3	Discuss the carrier concentration in semiconducting materials.	K2
C111.4	Understand the origin of magnetism and the properties of magnetic materials.	K2
C111.5	Discuss the working of Opto-electronic devices.	K2
C111.6	Summarize the basics of quantum structures and their applications in nano devices.	K2

Course Code & Name : C112 & BE8255 - BASIC ELECTRICAL ELECTRONICS AND MEASUREMENT ENGINEERING		
	CO Statements	Knowledge Level
The students should be able to		
C112.1	Illustrate the behavior of electric circuits using fundamental laws and techniques	K2
C112.2	Understand the operation of DC, AC and Special machines	K2
C112.3	Summarize different energy sources, protective devices and its applications	K2
C112.4	Outline the characteristics and applications of semiconductor diodes.	K2
C112.5	Summarize the characteristics and errors of the instruments	K2

Course Code & Name : C113 & GE8291- ENVIRONMENTAL SCIENCE AND ENGINEERING		
	CO Statements	Knowledge Level
The students should be able to		
C113.1	Summarize the values, threats, conservation of biodiversity and ecosystems.	K2
C113.2	Discuss the sources, effects, control measures of different types of pollution, and solid waste management.	K1
C113.3	Associate the effects of exploitation of Natural resources on environment	K3
C113.4	Summarize the water conservation methods and various environmental acts for environmental sustainability	K2
C113.5	Discuss scientific, technological, economic and social solutions to environmental problems	K1



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Course Code & Name : C114 & CS8251 – PROGRAMMING IN C		
	CO Statements	Knowledge Level
The students should be able to		
C114.1	Understand the syntax for C programming	K2
C114.2	Associate the programs in 'C' for real world situation	K2
C114.3	Apply the concepts of Arrays, Strings in 'C' language for user defined Problems.	K3
C114.4	Apply the concept of functions and pointers.	K3
C114.5	Associate the programs with structure using 'C' language.	K2
C114.6	Discuss to read and write data from/to files in 'C' Programs.	K2

Course Code & Name : C115 & GE261 - ENGINEERING PRACTICES LABORATORY		
	CO Statements	Knowledge Level
The students should be able to		
C115.1	Fabricate carpentry components and pipe connections including plumbing works.	K2
C115.2	Use welding equipment to join the structures.	K2
C115.3	Carry out the basic machining operations	K2
C115.4	Make the models using sheet metal works	K4
C115.5	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundry and fittings	K4
C115.6	Carry out basic home electrical works and appliances	K2

Course Code & Name : C116 & CS8261 – C PROGRAMMING LABORATORY		
	CO Statements	Knowledge Level
The students should be able to		
C116.1	Develop C programs for simple applications making use of basic constructs	K4
C116.2	Apply the concept of conditionals and loops in C programs.	K3
C116.3	Develop the C programs with arrays and strings.	K4
C116.4	Apply the concept of functions, recursion in C programs	K3
C116.5	Analyze the concept of pointers, and structures in C	K4
C116.6	Examine the use of sequential and random access file processing	K3





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## SEMESTER 3

### Course Code & Name : C201 & MA8351 – DISCRETE MATHEMATICS

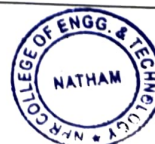
CO Statements		Knowledge Level
The students should be able to		
C201.1	Summarize the concept of elementary mathematical logical arguments.	K2
C201.2	Apply basic counting techniques to solve combinatorial problems.	K2
C201.3	Associate the applications of Graph theory models and data structures.	K3
C201.4	Describe the concepts and properties of algebraic structures such as groups, rings and fields.	K3
C201.5	Extend the concepts of Boolean algebra in the area of lattices.	K3
C201.6	Apply the knowledge of argumental discrete mathematical problems.	K2

### Course Code and Name : C202 & CS8351 – DIGITAL PRINCIPLES AND SYSTEM DESIGN

CO Statements		Knowledge Level
The students should be able to		
C202.1	Apply the Boolean functions using K-Map	K3
C202.2	Interpret Combinational circuits for a given functions using logic gates.	K3
C202.3	Recognize Synchronous Sequential circuits for the given condition	K3
C202.4	Recognize Asynchronous Sequential circuits for the given condition.	K3
C202.5	Apply Programmable Logic towards memory management	K3
C202.6	Solve codes for the design of digital circuits.	K2

### Course Code and Name : C203 & CS8391 – DATA STRUCTURES

CO Statements		Knowledge Level
The students should be able to		
C203.1	Describe linear data structures using array and linked list.	K1
C203.2	Apply data structures like stacks, queues in linear data structure.	K4
C203.3	Discuss non-linear data structures tree and its application.	K6
C203.4	Apply various algorithms in graph.	K2
C203.5	Solve searching, sorting and hashing techniques in data structures.	K3
C203.6	Interpret sorting algorithms for a given problem.	K2





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## Course Code and Name : C204 & CS8392 – OBJECT ORIENTED PROGRAMMING

CO Statements		Knowledge Level
The students should be able to		
C204.1	Develop Java programs using OOP principles	K3
C204.2	Develop Java programs with the concepts inheritance and interfaces	K3
C204.3	Build Java applications using exceptions and I/O streams	K2
C204.4	Relate Java applications with threads and generics classes	K6
C204.5	Develop interactive Java programs using swings	K3
C204.6	Demonstrate simple Graphical User Interfaces	K6

## Course Code and Name : C205 & EC8395 COMMUNICATION ENGINEERING

CO Statements		Knowledge Level
The students should be able to		
C205.1	Describe the concepts of analog modulation systems.	K2
C205.2	Illustrate pulse communication techniques	K2
C205.3	Summarize the concepts of digital modulation systems.	K2
C205.4	Implement the source coding techniques.	K2
C205.5	Understand the basic principles in the generation of spread spectrum signals.	K2
C205.6	Understand the methods of multiple access in communication systems.	K2

## Course Code and Name : C206 & CS8381 – DATA STRUCTURES LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C206.1	Enumerate functions to implement linear and non-linear data structure operations	K2
C206.2	Design and develop appropriate linear / non-linear data structure operations for solving a given problem	K4
C206.3	Apply the linear / non-linear data structure operations for a given problem based on the user needs	K3
C206.4	Design new solutions for programming problems or improve existing code using learned	K4







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## Course Code and Name : C207 & CS8383 - OBJECT ORIENTED PROGRAMMING LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C207.1	Develop and implement Java programs for simple applications that make use of classes	K3
C207.2	Develop and implement Java programs with array list	K3
C207.3	Design applications using file processing	K3
C207.4	Build software development skills using java programming for real-world applications	K3
C207.5	Apply the concepts of classes, packages, interfaces, exception handling	K3
C207.6	Develop applications using generic programming and event handling	K3

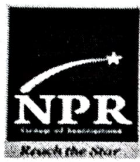
## Course Code and Name : C208 & CS8382 – DIGITAL SYSTEMS LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C208.1	Interpret Combinational circuits Using Logic gates.	K3
C208.2	Illustrate Combinational circuits Using MSI Devices.	K3
C208.3	Practice various counters using Flip-flops.	K3
C208.4	Practice shift registers using Flip-flops	K3
C208.5	Solve codes for the design of digital circuits.	K3
C208.6	Demonstrate simple digital system	K3

## Course Code and Name : C209 & HS8381 - INTERPERSONAL SKILLS/LISTENING & SPEAKING

CO Statements		Knowledge Level
The students should be able to		
C209.1	Speak effectively on various academic topics and respond to questions.	K2
C209.2	Converse effectively with the use of conversation starters and discourse markers.	K6
C209.3	Listen and respond to various academic dialogues and discussions	K2
C209.4	Participate confidently and appropriately in informal and formal conversations and group discussions.	K6
C209.5	Use a range of presentation tools like PPT, Videos, and Charts etc. to make an engaging presentation.	K6
C209.6	Speak effectively on various academic topics and respond to questions.	K2





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## SEMESTER 4

### Course Code and Name : C210 & MA8402 – PROBABILITY AND QUEUEING THEORY

	CO Statements	Knowledge Level
The students should be able to		
C210.1	Identify the functions of discrete and continuous random variables, moments and moment generating function	K2
C210.2	Solve problems in marginal conditional distribution, using the concepts of correlation, regressions and transformation of two dimensional random variables.	K2
C210.3	Determine the process is either SSS or WSS, find the TPM of Markov chain and its classifications.	K2
C210.4	Analyze the concepts of queuing models	K2
C210.5	Apply non Markovian queues to open and closed networks.	K2

### Course Code and Name : C211 & CS8491 – COMPUTER ARCHITECTURE

	CO Statements	Knowledge Level
The students should be able to		
C211.1	Describe the basic structures of a computer system.	K2
C211.2	Understand the various arithmetic operations for computers.	K2
C211.3	Analyze pipelined control units and the different types of hazards in the Instructions.	K3
C211.4	Interpret the concepts of parallel processing architecture	K2
C211.5	Summarize the fundamentals of memory system.	K2
C211.6	Describe the concepts of I/O system	K2

### Course Code and Name : C212 & CS8492 – DATABASE MANAGEMENT SYSTEMS

	CO Statements	Knowledge Level
The students should be able to		
C212.1	Discuss the fundamental concepts of relational database and SQL	K2
C212.2	Use ER model for Relational model mapping to perform database design effectively	K3
C212.3	Summarize the properties of transactions and concurrency control mechanisms	K2
C212.4	Outline the various storage and optimization techniques	K2
C212.5	Compare and contrast various indexing strategies in different	K2





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	database systems	
C212.6	Understand the different advanced databases	K2

## Course Code and Name : C213 & CS8451 – DESIGN AND ANALYSIS OF ALGORITHMS

	CO Statements	Knowledge Level
The students should be able to		
C213.1	Discuss the fundamental concepts problem solving algorithm, its types and the parameters to analyze those algorithms	K2
C213.2	Understand the Brute Force method and Divide and Conquer method to solve computing problems.	K2
C213.3	Understand the dynamic programming and greedy techniques to solve computing problems	K2
C213.4	Describe how scientific problems can be solved using iterative method and how to cope with limitations of algorithm power	K2
C213.5	Critically analyze the different algorithm design techniques for a given problem based on its time and space complexity.	K3
C213.6	Modify existing algorithms to improve efficiency	K3

## Course Code and Name : C214 & CS8493 – OPERATING SYSTEMS

	CO Statements	Knowledge Level
The students should be able to		
C214.1	Understand the overall view of the computer system and operating system	K2
C214.2	Identify various scheduling algorithm and deadlock prevention and avoidance algorithm	K2
C214.3	Compare and contrast various memory management schemes and file system functionalities	K2
C214.4	Discuss the performance of the various page replacement algorithms and interpret the file system implementation, sharing and protection mechanisms.	K2
C214.5	Demonstrate administrative tasks on Linux servers and to be familiar with the basics of Mobile OS.	K3
C214.6	Make use of various algorithms to solve computing problems	K3





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## Course Code and Name : C215 & CS8494 -SOFTWARE ENGINEERING

CO Statements		Knowledge Level
The students should be able to		
C215.1	Identify the key activities in managing a software project and recognize different process model	K2
C215.2	Understand the concepts of requirements engineering and Analysis Modeling	K2
C215.3	Compare various testing and maintenance methods	K2
C215.4	Interpret the project schedule, estimate project cost and effort required.	K2
C215.5	Develop a software using the software engineering principles	K3

## Course Code and Name : C216 & CS8481 - DATABASE MANAGEMENT SYSTEMS LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C216.1	Use typical data definitions and manipulation commands.	K3
C216.2	Design applications to test Nested and Join Queries	K3
C216.3	Implement simple applications that use Views	K3
C216.4	Make use of ER modeling and normalization to design and implement database	K3
C216.5	Implement applications that require a Front-end Too	K3
C216.6	Critically analyze the use of Tables, Views, Functions and Procedures	K4

## Course Code and Name : C217 & CS8461 – OPERATING SYSTEMS LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C217.1	Illustrate the various CPU scheduling algorithms.	K3
C217.2	Implement deadlock avoidance and detection algorithms.	K3
C217.3	Implement semaphore concepts.	K3
C217.4	Create processes and implement IPC.	K3
C217.5	Analyze the performance of the various page replacement algorithms.	K3
C217.6	Implement file organization and file allocation strategies.	K3



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Course Code and Name : C218 & HS8461 ADVANCED READING AND WRITING LAB		
	CO Statements	Knowledge Level
The students should be able to		
C218.1	Strengthen the reading skills	K2
C218.2	Enhance the technical writing skills	K3
C218.3	Develop proposal writing skills	K6
C218.4	Write winning job applications.	K2

**SEMESTER 5**

Course Code and Name : C301 & MA8551 – ALGEBRA AND NUMBER THEORY		
	CO Statements	Knowledge Level
The students should be able to		
C301.1	Summarize the notations and properties of algebraic structures such as groups, rings and fields	K2
C301.2	Understand the concepts of finite fields and polynomials to solve problems in advanced algebra.	K2
C301.3	Associate the applications of divisibility theory and canonical decompositions.	K2
C301.4	Describe the concept of Diophantine equations and congruences and exhibit the efficient use of advanced algebraic techniques in number theory	K2
C301.5	Extend the concepts of multiplicative functions and classical theorems.	K2
C301.6	Associate the knowledge of integrated approach to Number theory and abstract algebra.	K2

Course Code and Name : C302 & CS8591 – COMPUTER NETWORKS		
	CO Statements	Knowledge Level
The students should be able to		
C302.1	Identify various layers of network and discuss the functions of physical layer	K2
C302.2	Discuss how data flows from one node to another node with regard to data link layer	K2
C302.3	Understand the different services of network layer	K2
C302.4	Compare the different transport layer protocols and their applicability based on user requirements	K3





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## Course Code and Name : C218 & HS8461 ADVANCED READING AND WRITING LAB

CO Statements		Knowledge Level
The students should be able to		
C218.1	Strengthen the reading skills	K2
C218.2	Enhance the technical writing skills	K3
C218.3	Develop proposal writing skills	K6
C218.4	Write winning job applications.	K2

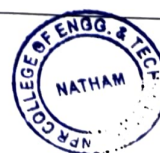
## SEMESTER 5

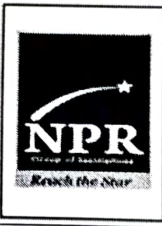
## Course Code and Name : C301 & MA8551 – ALGEBRA AND NUMBER THEORY

CO Statements		Knowledge Level
The students should be able to		
C301.1	Summarize the notations and properties of algebraic structures such as groups, rings and fields	K2
C301.2	Understand the concepts of finite fields and polynomials to solve problems in advanced algebra.	K2
C301.3	Associate the applications of divisibility theory and canonical decompositions.	K2
C301.4	Describe the concept of Diophantine equations and congruences and exhibit the efficient use of advanced algebraic techniques in number theory	K2
C301.5	Extend the concepts of multiplicative functions and classical theorems.	K2
C301.6	Associate the knowledge of integrated approach to Number theory and abstract algebra.	K2

## Course Code and Name : C302 & CS8591 – COMPUTER NETWORKS

CO Statements		Knowledge Level
The students should be able to		
C302.1	Identify various layers of network and discuss the functions of physical layer	K2
C302.2	Discuss how data flows from one node to another node with regard to data link layer	K2
C302.3	Understand the different services of network layer	K2
C302.4	Compare the different transport layer protocols and their applicability based on user requirements	K3





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C302.5	Describe the working of various application layer protocols	K2
C302.6	Evaluate the performance of network and analyze routing algorithms	K3

## Course Code and Name : C303 & EC8691 – MICROPROCESSORS AND MICROCONTROLLERS

CO Statements		Knowledge Level
The students should be able to		
C303.1	Understand the architecture and instruction set of Microprocessor	K2
C303.2	Discuss about System Bus Structure for Multiprocessor Configuration	K2
C303.3	Infer the functions of various interfacing integrated chips	K2
C303.4	Understand the architectures and instruction set of Microcontroller	K2
C303.5	Illustrate the functions of various interfacing devices with Microcontroller	K2
C303.6	Build an assembly language program for interfacing	K3

## Course Code and Name : C304 & CS8501 – THEORY OF COMPUTATION

CO Statements		Knowledge Level
The students should be able to		
C304.1	Define the mathematical principles and design automata for any given pattern.	K3
C304.2	Specify the regular expression of string pattern.	K2
C304.3	Understand the concepts of context free grammar of any language.	K2
C304.4	Design and propose computational solutions for Turing machine.	K4
C304.5	Identify decidable and Undecidable problems.	K1
C304.6	Correlate the different types of automata to real world applications	K5

## Course Code and Name : C305 & CS8592 OBJECT ORIENTED ANALYSIS AND DESIGN

CO Statements		Knowledge Level
The students should be able to		
C305.1	Express the software design concepts with UML diagram.	K2
C305.2	Construct the domain model and design model to various use case scenarios.	K3
C305.3	Identify various scenarios based on software requirements	K3
C305.4	Design software applications using object oriented concepts.	K2
C305.5	Transform UML based software design into pattern based design using design patterns.	K3





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C305.6	Understand the various testing methodologies for object oriented software	K2
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## Course Code and Name : C306 & OMD551 – BASIC OF BIOMEDICAL INSTRUMENTATION

CO Statements		Knowledge Level
The students should be able to		
C306.1	Learn the different bio potential and its propagation	K2
C306.2	Get Familiarize the different electrode placement for various physiological recording	K2
C306.3	Design bio amplifier for various physiological recording	K2
C306.4	Understand various technique non electrical physiological measurements	K2
C306.5	Understand the different biochemical measurements	K2

## Course Code and Name : C307 & EC8681 - MICROPROCESSORS AND MICROCONTROLLERS LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C307.1	Interpret the architecture and operation of microprocessor (8086).	K2
C307.2	Implement simple assembly language programs using instruction sets of microprocessor and microcontroller.	K3
C307.3	Compare instruction sets of 8086 microprocessor and 8051 microcontroller.	K3
C307.4	Implement assembly language programs using instruction sets of microcontroller.	K3
C307.5	Develop applications using instructions of microprocessors and microcontroller.	K3
C307.6	Interpret the architecture and operation of microcontroller(8051)	K2

## Course Code and Name : C308 & CS8582 OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C308.1	Make use of object oriented and design concepts to solve a given problem specifications	K3
C308.2	Identify and map basic software requirements in UML mapping.	K2
C308.3	Apply design patterns to improve the software quality	K3
C308.4	Test the compliance of the software with SRS	K3
C308.5	Map the object oriented design to the developed code	K3







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C308.6	Apply object oriented design to develop a software	K3
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## Course Code and Name : C309 & CS8581 – NETWORKS LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C309.1	Implement various protocols using TCP and UDP	K3
C309.2	Compare the performance of different transport layer protocols	K3
C309.3	Use simulation tools to analyze the performance of various network protocols	K3
C309.4	Analyze various routing algorithms	K3
C309.5	Implement error correction codes	K3
C309.6	Understand Network simulator (NS) and Simulate Congestion Control Algorithms using NS	K3

## SEMESTER 6

## Course Code and Name : C310 & CS8651 – INTERNET PROGRAMMING

CO Statements		Knowledge Level
The students should be able to		
C310.1	Demonstrate simple website using HTML and CSS.	K2
C310.2	Build dynamic web pages with validation using Java Script objects and apply different event handling mechanisms.	K3
C310.3	Illustrate server side programs using Servlet and JSP.	K2
C310.4	Demonstrate simple web pages in PHP and to represent data in XML format.	K2
C310.5	Illustrate AJAX and web services to develop interactive web applications.	K2
C310.6	Develop interactive web applications for real world problems.	K3

## Course Code and Name : C311 & CS8691 – ARTIFICIAL INTELLIGENCE

CO Statements		Knowledge Level
The students should be able to		
C311.1	List the characteristics and types of intelligent agents	K2
C311.2	Interpret search algorithms for any AI problem	K2
C311.3	Illustrate a problem using first order and predicate logic	K2
C311.4	Understand the appropriate agent strategy to solve a given problem	K2
C311.5	Develop software agents to solve a problem	K2





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C308.6	Apply object oriented design to develop a software	K3
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## Course Code and Name : C309 & CS8581 – NETWORKS LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C309.1	Implement various protocols using TCP and UDP	K3
C309.2	Compare the performance of different transport layer protocols	K3
C309.3	Use simulation tools to analyze the performance of various network protocols	K3
C309.4	Analyze various routing algorithms	K3
C309.5	Implement error correction codes	K3
C309.6	Understand Network simulator (NS) and Simulate Congestion Control Algorithms using NS	K3

## SEMESTER 6

## Course Code and Name : C310 & CS8651 – INTERNET PROGRAMMING

CO Statements		Knowledge Level
The students should be able to		
C310.1	Demonstrate simple website using HTML and CSS.	K2
C310.2	Build dynamic web pages with validation using Java Script objects and apply different event handling mechanisms.	K3
C310.3	Illustrate server side programs using Servlet and JSP.	K2
C310.4	Demonstrate simple web pages in PHP and to represent data in XML format.	K2
C310.5	Illustrate AJAX and web services to develop interactive web applications.	K2
C310.6	Develop interactive web applications for real world problems.	K3

## Course Code and Name : C311 & CS8691 – ARTIFICIAL INTELLIGENCE

CO Statements		Knowledge Level
The students should be able to		
C311.1	List the characteristics and types of intelligent agents	K2
C311.2	Interpret search algorithms for any AI problem	K2
C311.3	Illustrate a problem using first order and predicate logic	K2
C311.4	Understand the appropriate agent strategy to solve a given problem	K2
C311.5	Develop software agents to solve a problem	K2





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C311.6	Demonstrate applications for NLP that use Artificial Intelligence	K2
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## Course Code and Name : C312 & CS8601 – MOBILE COMPUTING

CO Statements		Knowledge Level
The students should be able to		
C312.1	Understand the basic concepts of mobile computing	K2
C312.2	Understand the basics of mobile telecommunication systems	K2
C312.3	Illustrate the generations of telecommunication systems in wireless networks	K2
C312.4	Demonstrate the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network	K3
C312.5	Understand the functionality of Transport and Application layers	K2
C312.6		K2

## Course Code and Name : C313 & CS8602 – COMPILER DESIGN

CO Statements		Knowledge Level
The students should be able to		
C313.1	Illustrate a lexical analyzer for a sample language.	K2
C313.2	Understand different parsing algorithms to develop the parsers for a given grammar.	K2
C313.3	Understand syntax-directed translation and run-time environment.	K2
C313.4	Understand intermediate code generation and run-time environment	K2
C313.5	Apply code optimization techniques for programming construct	K3
C313.6	Develop a scanner and a parser using LEX and YACC tools	K3

## Course Code and Name : C314 & CS8603 – DISTRIBUTED SYSTEMS

CO Statements		Knowledge Level
The students should be able to		
C314.1	Elucidate the foundations and issues of distributed systems	K2
C314.2	Understand the various synchronization issues and global state for distributed systems.	K2
C314.3	Comprehend the Mutual Exclusion and Deadlock detection algorithms in distributed systems	K2
C314.4	Show the use of agreement protocols and fault tolerance mechanisms in distributed systems.	K2
C314.5	Relate the features of peer-to-peer and distributed shared memory systems	K2
C314.6	Interpret the real-time distributed system applications	K2





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## Course Code and Name : C315 & IT8076 - SOFTWARE TESTING

CO Statements		Knowledge Level
The students should be able to		
C315.1	Demonstrate knowledge of the fundamentals of software testing and competence in using software designed to assist in the software testing life cycle for given portions of the testing cycle.	K2
C315.2	Evaluate the limitations of a given testing process.	K3
C315.3	Analyze the design of test cases for different testing techniques.	K3
C315.4	Create test strategies and plans, design test cases, prioritize and execute them.	K6
C315.5	Apply a wide variety of software testing activities in an effective and efficient manner.	K3
C315.6	Understand the significance of software testing in web and Object orient techniques.	K2

## Course Code and Name : C316 & CS8661 – INTERNET PROGRAMMING LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C316.1	Construct web pages using HTML/XML and style sheets.	K3
C316.2	Build dynamic web pages with validation using javascript objects and apply different event handling mechanisms.	K3
C316.3	Develop dynamic web pages using server side scripting.	K3
C316.4	Use PHP programming to develop web applications.	K3
C316.5	Construct web applications using AJAX and web services.	K3
C316.6	Develop interactive web applications for real world problems	K3

## Course Code and Name : C317 & CS8662 – MOBILE APPLICATION DEVELOPMENT LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C317.1	Illustrate mobile applications using GUI and Layouts.	K3
C317.2	Demonstrate mobile applications using Event Listener.	K3
C317.3	Experiment with mobile applications using Databases.	K3
C317.4	Make use of mobile applications using RSS Feed, Internal/External Storage, SMS, Multithreading and GPS.	K3
C317.5	Build own mobile app for simple needs.	K3
C317.6	Model various mobile applications using different application development frameworks.	K3





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**Course Code and Name : C318 & CS8611 – MINI PROJECT**

CO Statements		Knowledge Level
The students should be able to		
C318.1	Choose problems with technical importance and societal contribution	K3
C318.2	Identify and survey the relevant literature for getting exposed to related solutions.	K3
C318.3	Build project plans with feasible requirements	K3
C318.4	Analyse, design and develop adaptable and reusable solutions	K4
C318.5	Implement and test solutions to trace against the user requirements	K4
C318.6	Deploy the solutions for better manageability and provide scope for improvability	K4

**Course Code and Name : C317 & HS8581 PROFESSIONAL COMMUNICATION**

CO Statements		Knowledge Level
The students should be able to		
C317.1	Summarize various skills such as Soft Skills, Hard skills, employability and career Skills and demonstrate values such as Time Management and general awareness of current affairs.	K2
C317.2	Demonstrate oneself before the audience by making effective presentations on introducing oneself, answering questions and visual presenting.	K3
C317.3	Demonstrate oneself by participating in group discussions, brainstorming sessions and question sessions. Develop activities to improve GD Skills	K6
C317.4	Develop interview skills so as to be successful in them.	K6
C317.5	Develop adequate Soft Skills required for the workplace and long-term career.	K6

**SEMESTER 7**

**Course Code and Name : C401 & MG8591 – PRINCIPLES OF MANAGEMENT**

CO Statements		Knowledge Level
The students should be able to		
C401.1	Discuss the evolution of management thoughts and the challenges of managerial activities in a global business environment.	K2





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C401.2	Understand the types of Planning and Decision making methodologies in Organizations	K2
C401.3	Summarize various types of Organization structure and associated Human Resources activities for man-power utilization.	K2
C401.4	Understand about motivation theories, behavior, leadership theories and communication for effective directing.	K2
C401.5	Understand various Controlling techniques to maintain standards in Organizations.	K2
C401.6	Associate managerial functions and knowledge on international aspect for Organizational growth	K2

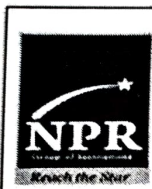
## Course Code and Name : C402 & CS8792 – CRYPTOGRAPHY AND NETWORK SECURITY

	CO Statements	Knowledge Level
The students should be able to		
C402.1	Describe the fundamentals of networks security, security architecture, threats and vulnerabilities	K2
C402.2	Discuss the mathematical support for both symmetric and asymmetric key cryptography	K2
C402.3	Make use of symmetric key cryptographic algorithms to perform cryptographic operations	K3
C402.4	Solve cryptographic operations using public key cryptographic algorithms	K3
C402.5	Apply the various Authentication schemes to simulate different applications.	K3
C402.6	Understand various Security practices and System security standards	K2

## 3.Course Code and Name : C403 & CS8791 – CLOUD COMPUTING

	CO Statements	Knowledge Level
The students should be able to		
C403.1	Articulate the main concepts, key technologies, strengths and limitations of cloud computing	K2
C403.2	Understand the key and enabling technologies that help in the development of cloud.	K2
C403.3	Make use of NIST cloud computing architecture to solve architecture design challenges	K3
C403.4	Understand the core issues of cloud computing such as resource management and security.	K2
C403.5	Install and use current cloud technologies.	K3
C403.6	Illustrate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.	K3





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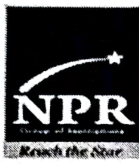


Course Code and Name : C404 & OIE751 - ROBOTICS		
	CO Statements	Knowledge Level
The students should be able to		
C404.1	Understand the functions of the basic components of a Robot.	K2
C404.2	Use of various types of End of Effectors and Sensors	K2
C404.3	Impart knowledge in Robot Kinematics and Programming	K2
C404.4	Learn Robot safety issues and economics.	K2
C404.5	Apply the basic engineering knowledge for the design of robotics	K3

Course Code and Name : C405 & GE8077 – TOTAL QUALITY MANAGEMENT		
	CO Statements	Knowledge Level
The students should be able to		
C405.1	Outline the Dimensions and Barriers regarding with Quality.	K2
C405.2	Illustrate the TQM Principles.	K2
C405.3	Demonstrate Tools utilization for Quality improvement	K2
C405.4	Understand the various types of Techniques are used to measure Quality.	K2
C405.5	Apply various Quality Systems and Auditing on implementation of TQM.	K3
C405.6	Apply the tools and techniques of quality management to manufacturing and services processes	K3

Course Code and Name : C406 & CS8079 – HUMAN COMPUTER INTERACTION		
	CO Statements	Knowledge Level
The students should be able to		
C406.1	Learn the foundations of Human Computer Interaction.	K2
C406.2	Design effective dialog for HCI.	K3
C406.3	Design effective HCI for individuals and persons with disabilities.	K3
C406.4	Assess the importance of user feedback.	K3
C406.5	Understand the HCI implications for designing multimedia / ecommerce / e-learning Web Sites	K2
C406.6	Develop meaningful user interface.	K3





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## Course Code and Name : C407 & CS8711 – CLOUD COMPUTING LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C407.1	Configure various virtualization tools such as Virtual Box, VMware workstation.	K2
C407.2	Design and deploy a web application in a PaaS environment link layer	K2
C407.3	Learn how to simulate a cloud environment to implement new schedulers	K2
C407.4	Demonstrate generic cloud environment that can be used as a private cloud	K2
C407.5	Manipulate large data sets in a parallel environment.	K3
C407.6	Apply Hadoop single node cluster and run simple applications	K2

## Course Code and Name : C408 & IT8761 - SECURITY LABORATORY

CO Statements		Knowledge Level
The students should be able to		
C408.1	Develop code for classical Encryption Techniques to solve the problems.	K3
C408.2	Build cryptosystems by applying symmetric and public key encryption algorithms.	K3
C408.3	Construct code for authentication algorithms	K3
C408.4	Develop a signature scheme using Digital signature standard.	K2
C408.5	Demonstrate the network security system using open source tools	K3
C408.6	Develop code for classical Encryption Techniques to solve the problems.	K3

## SEMESTER 8

## Course Code and Name : C409 & GE8076 - PROFESSIONAL ETHICS IN ENGINEERING

CO Statements		Knowledge Level
The students should be able to		
C409.1	Describe the human values with regard to the individual life style for the society	K2
C409.2	Explain the role of ethics to the engineering field	K2
C409.3	Describe how engineering is applied in association with ethics based	K2







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	on engineering experimentation	
C409.4	Explain the engineering ethics based safety, responsibilities and rights	K2
C409.5	Discuss the global issues of professional ethics in engineering	K2
C409.6	Experiment the professional ethics in engineering based product development	K3

## Course Code and Name : C410 & CS8080 - INFORMATION RETRIEVAL TECHNIQUES

	CO Statements	Knowledge Level
The students should be able to		
C410.1	Interpret open source search engine framework and explore its capabilities	K2
C410.2	Apply appropriate method of classification or clustering	K3
C410.3	Design and implement innovative features in a search engine	K3
C410.4	Design and implement a recommender system	K3
C410.5	Demonstrate an open source search engine framework and explore its capabilities	K2
C410.6	Demonstrate the entire process flow of a search engine	K2

## Course Code and Name : C411 & GE6075 - Professional Ethics in Engineering

	CO Statements	Knowledge Level
The students should be able to		
C411.1	Identify technically and economically feasible problems of social relevance	K3
C411.2	Plan and build the project team with assigned responsibilities	K5
C411.3	Identify and survey the relevant literature for getting exposed to related solutions	K4
C411.4	Analyse, design and develop adaptable and reusable solutions of minimal complexity by using modern tools	K6
C411.5	Implement and test solutions to trace against the user requirements	K4
C411.6	Deploy and support the solutions for better manageability of the solutions and provide scope for improvability	K5



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

Course Code: C403

Subject Code & Name: CS8791 & Cloud Computing

S.No.	Register Number	Name	Internal Test –I			Internal Test –II			Model Examination					
			CO1	CO2	Total	CO3	CO4	Total	CO1	CO2	CO3	CO4	CO5	Total
1.	920817104001	AARTHIR	56	38	94	59	39	98	25	13	27	16	17	98
2.	920817104002	ABIRAMI M	60	40	100	60	40	100	24	13	27	17	16	97
3.	920817104003	AISHWARYA A	54	36	90	56	38	94	24	12	27	16	17	96
4.	920817104004	AISHWARYA R (16-09-1999)	56	38	94	56	37	93	24	12	26	16	16	94
5.	920817104005	AISHWARYA R (12-12-1999)	55	37	92	58	39	97	24	12	27	16	17	96
6.	920817104006	AISHWERYA SRIR	60	40	100	60	40	100	25	13	28	17	17	100
7.	920817104007	AJITH KUMAR P J K	56	38	94	59	39	98	25	13	28	17	17	100
8.	920817104008	ALAGURAJA R	54	36	90	54	36	90	24	12	26	16	16	94
9.	920817104009	AMRUTHAA SHREE R	60	40	100	60	40	100	25	13	28	17	17	100
10.	920817104010	ARUNKUMAR S	55	36	91	55	37	92	20	10	22	13	13	78
11.	920817104011	BONSIYA R	54	36	90	54	36	90	23	12	26	15	16	92
12.	920817104012	CHELLAPANDIAN R	56	37	93	55	37	92	24	12	26	16	16	94
13.	920817104015	DINESH KUMAR C	55	36	91	55	36	91	23	12	25	15	15	90
14.	920817104017	GURUPRABU R	55	37	92	58	38	96	24	12	27	16	17	96
15.	920817104018	GURURAJ B	56	38	94	58	39	97	25	13	28	17	17	100
16.	920817104019	HARI PRASATH T	44	30	74	47	31	78	19	10	21	13	13	76
17.	920817104020	JEGANATHAN R	44	29	73	45	30	75	20	10	22	13	13	78
18.	920817104021	KAVIYA B I	56	38	94	56	38	94	24	12	27	17	16	96
19.	920817104022	KAVIYARASAN A	55	36	91	55	36	91	24	13	27	17	16	97
20.	920817104023	KEERTHANA G	55	37	92	55	37	92	24	12	26	16	16	94
21.	920817104024	KODEESWARAN S	44	30	74	45	30	75	20	10	22	13	13	78
22.	920817104025	KOUSHIK ROMEL J	54	36	90	56	38	94	24	12	26	16	16	94
23.	920817104026	LOGESHWARI S	56	38	94	56	38	94	24	12	27	17	16	96
24.	920817104027	MADHUBALA S	56	38	94	56	38	94	24	12	26	16	16	94
25.	920817104028	MANOJ K	57	38	95	59	39	98	25	13	28	17	17	100
26.	920817104029	MANOJ S	54	36	90	55	37	92	24	12	27	16	17	96
27.	920817104030	MANUSHA M	58	38	96	58	39	97	25	13	28	17	17	100
28.	920817104032	NAGAJOTHI C	59	39	98	59	39	98	25	13	28	17	17	100
29.	920817104034	NATHIPRIYA K	55	37	92	55	37	92	25	13	28	17	17	100
30.	920817104035	NATHISHKUMAR R	44	30	74	45	30	75	19	10	22	13	13	77
31.	920817104036	NAVIN MANIKANDAN S	54	36	90	54	36	90	24	12	27	16	17	96
32.	920817104037	NELSON J	54	36	90	55	37	92	23	12	25	15	15	90
33.	920817104038	NITHIS KANNA G	54	36	90	55	37	92	23	12	26	15	16	92





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34.	920817104039	PARAMESHWARI P	57	38	95	58	39	97	24	12	27	17	16	96
35.	920817104040	POOVARASAN M	54	36	90	56	38	94	23	12	25	16	16	92
36.	920817104041	POOVENDRAN K	56	38	94	58	38	96	24	12	27	17	16	96
37.	920817104042	PRAKASH KUMAR S	44	29	73	45	30	75	19	10	22	13	13	77
38.	920817104043	PREETHI A	55	37	92	59	39	98	25	13	28	17	17	100
39.	920817104044	RAJADURAI R	56	38	94	56	38	94	24	12	26	16	16	94
40.	920817104045	ROFINA BEGAM N	55	37	92	58	38	96	25	13	26	17	17	98
41.	920817104046	SANGEERANI P	59	39	98	59	39	98	25	13	28	17	17	100
42.	920817104047	SASTIANANDHAN M	44	30	74	45	30	75	19	10	22	13	13	77
43.	920817104048	SHARMA A	44	29	73	46	30	76	19	10	21	13	13	76
44.	920817104049	SUBASRI S	56	38	94	56	38	94	24	12	27	17	16	96
45.	920817104051	VARSHA M	59	39	98	59	39	98	25	13	28	17	17	100
46.	920817104052	VIJAYALAKSHMI S	55	37	92	57	38	95	24	12	27	16	17	96
47.	920817104053	VIJAYA SHANTHI M	56	38	94	56	38	94	23	12	26	15	16	92
48.	920817104055	YOGESH KANNA S	55	36	91	55	36	91	24	12	26	16	16	94
<b>Maximum Mark Co-Wise</b>			60	40	100	60	40	100	25	13	28	17	17	100
<b>50% of Maximum Marks</b>			30	20	50	30	20	50	12.5	6.5	14	8.5	8.5	50
<b>Number of Threshold above 50%</b>			48	48	48	48	48	48	48	48	48	48	48	47
<b>Level</b>			3	3	3	3	3	3	3	3	3	3	3	3

## CO Vs PO

COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C405.1	2	1	1	0	2	0	0	0	0	2	2	2	2	2	0
C405.2	2	1	1	0	1	0	0	0	0	2	3	2	2	2	0
C405.3	3	2	2	1	1	0	0	0	0	3	3	2	2	3	0
C405.4	2	1	2	0	2	0	0	0	0	2	3	3	2	2	0
C405.5	3	2	2	1	1	0	0	0	0	2	3	3	2	3	0
C405.6	3	2	1	1	1	0	0	0	0	2	3	3	2	3	0
C405	2.50	1.50	1.50	1.00	1.33	0.00	0.00	0.00	0.00	2.17	2.83	2.50	2.00	2.50	0.00
PO ATTAINMENT	2.50	1.50	1.50	1.00	1.33	-	-	-	-	2.17	2.83	2.50	2.00	2.50	-

## RUBRICS

29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)



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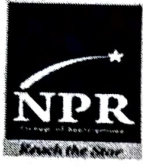
**ii) Sample CSE Attainment of Course Outcomes (University Examination)**

**Course Code:**

**Subject Code & Name:**

S. No.	Register Number	Name	Grade	Grade Points
1.	920817104001	AARTHI R	B+	7
2.	920817104002	ABIRAMI M	A	8
3.	920817104003	AISHWARYA A	B+	7
4.	920817104004	AISHWARYA R (16-09-1999)	B+	7
5.	920817104005	AISHWARYA R (12-12-1999)	A	8
6.	920817104006	AISHWERYA SRI R	B+	7
7.	920817104007	AJITH KUMAR P J K	A	8
8.	920817104008	ALAGURAJA R	B+	7
9.	920817104009	AMRUTHAA SHREE R	B+	7
10.	920817104010	ARUNKUMAR S	B	6
11.	920817104011	BONSIYA R	A	8
12.	920817104012	CHELLAPANDIAN R	B+	7
13.	920817104015	DINESH KUMAR C	A+	9
14.	920817104017	GURUPRABU R	B	6
15.	920817104018	GURURAJ B	B	6
16.	920817104019	HARI PRASATH T	A+	0
17.	920817104020	JEGANATHAN R	B	6
18.	920817104021	KAVIYA B I	B+	7
19.	920817104022	KAVIYARASAN A	B+	7
20.	920817104023	KEERTHANA G	B+	7
21.	920817104024	KODEESWARAN S	B	6
22.	920817104025	KOUSHIK ROMEL J	A	8
23.	920817104026	LOGESHWARI S	B	6
24.	920817104027	MADHUBALA S	B	6
25.	920817104028	MANOJ K	A+	9





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26.	920817104029	MANOJ S	A	8
27.	920817104030	MANUSHA M	A	8
28.	920817104032	NAGAJOTHI C	B	6
29.	920817104034	NATHIPRIYA K	B	6
30.	920817104035	NATHISHKUMAR R	B+	7
31.	920817104036	NAVIN MANIKANDAN S	B+	7
32.	920817104037	NELSON J	B+	7
33.	920817104038	NITHIS KANNA G	B+	7
34.	920817104039	PARAMESHWARI P	A	8
35.	920817104040	POOVARASAN M	B+	7
36.	920817104041	POOVENDRAN K	A	8
37.	920817104042	PRAKASH KUMAR S	B+	7
38.	920817104043	PREETHI A	B+	7
39.	920817104044	RAJADURAI R	B+	7
40.	920817104045	ROFINA BEGAM N	B	6
41.	920817104046	SANGEERANI P	A	8
42.	920817104047	SASTIANANDHAN M	B+	7
43.	920817104048	SHARMA A	B+	7
44.	920817104049	SUBASRI S	B	6
45.	920817104051	VARSHA M	B	6
46.	920817104052	VIJAYALAKSHMI S	B	6
47.	920817104053	VIJAYA SHANTHI M	A	8
48.	920817104055	YOGESH KANNA S	B+	7
<b>Maximum Mark Co-Wise</b>				<b>48</b>
<b>50% of Maximum Marks</b>				<b>10</b>
<b>Number of Threshold above 50% Level</b>				<b>5</b>
				<b>3</b>





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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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	

### 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., 0.60.

In the university examination 97.91% 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%)	0.60
University Examination (80%)	2.40
<b>Final CO Attainment</b>	<b>3.00</b>

Therefore the CO attainment for the course Cloud Computing is **3.00**.







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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C102 &amp; MA8151 - ENGINEERING MATHEMATICS – I</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

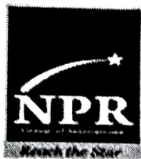
COURSE OUTCOME	CO Vs PO												PSO1	PSO2	PSO3	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12				
C102.1	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C102.2	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C102.3	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C102.4	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C102.5	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
<b>C102</b>	<b>2.00</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	-	-	-	<b>1.00</b>	-	-
<b>PO ATTAINMENT</b>	<b>1.47</b>	<b>0.73</b>	-	-	-	-	-	-	-	-	-	-	-	<b>0.73</b>	-	-

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C102	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>2.20</b>	







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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C103 &amp; PH8151 - ENGINEERING PHYSICS</b>
<b>Year of Study:</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C103.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C103.2	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C103.3	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C103.4	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C103.5	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>C103</b>	<b>2.20</b>	<b>1.20</b>	<b>1.20</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>1.03</b>	<b>0.56</b>	<b>0.56</b>	-	-	-	-	-	-	-	-	-	<b>0.93</b>	<b>0.93</b>	-

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C103	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C104 &amp; CY8151 - ENGINEERING CHEMISTRY</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C104.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C104.2	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C104.3	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C104.4	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C104.5	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>C104</b>	<b>2.20</b>	<b>1.20</b>	<b>1.20</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>1.61</b>	<b>0.88</b>	<b>0.88</b>	-	-	-	-	-	-	-	-	-	<b>1.47</b>	<b>1.47</b>	-

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C104	TEST1	TEST2	TEST3	INT	UNIV
CO1	0	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				2.20	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C105 &amp; GE8151- PROBLEM SOLVING AND PYTHON PROGRAMMING</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

COURSE OUTCOME	CO Vs PO												PSO1	PSO2	PSO3	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12				
C105.1	3	2	1	-	-	-	-	-	-	-	-	-	-	2	1	1
C105.2	3	2	1	-	2	-	-	-	-	-	-	-	-	2	-	-
C105.3	3	2	1	-	2	-	-	-	-	-	-	-	-	2	1	-
C105.4	3	2	1	-	2	-	-	-	-	-	-	-	-	2	-	1
C105.5	3	2	1	1	2	-	-	-	-	-	-	-	-	2	2	1
<b>C105</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>1.33</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>1.33</b>	<b>1.00</b>

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C105	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C106 &amp; GE8152- ENGINEERING GRAPHICS</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C106.1	-	3	-	-	-	-	3	-	-	-	-	-	2	1	-
C106.2	-	-	2	-	-	-	3	-	-	-	-	-	1	1	-
C106.3	-	2	-	-	-	-	2	-	-	-	-	-	1	1	-
C106.4	-	-	3	-	-	-	2	-	-	-	-	-	1	1	-
C106.5	-	3	-	-	-	-	3	-	-	-	-	-	1	1	-
C106	-	2.67	2.50	-	-	-	2.60	-	-	-	-	-	1.20	1.00	-
PO ATTAINMENT	-	2.67	2.50	-	-	-	2.60	-	-	-	-	-	1.20	1.00	-

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C106	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C107 &amp; GE8161- PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C107.1	1	1	3	-	-	-	-	-	3	-	3	3	2	1	1
C107.2	3	3	3	3	-	-	-	-	3	-	3	3	2	1	1
C107.3	3	3	3	3	-	-	-	-	3	-	3	3	3	2	1
C107.4	1	1	2	1	-	-	-	-	-	2	-	2	3	2	1
C107.5	1	1	2	1	-	-	-	-	-	2	-	2	2	1	1
<b>C107</b>	<b>1.80</b>	<b>1.80</b>	<b>2.60</b>	<b>2.00</b>	-	-	-	-	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>2.60</b>	<b>2.40</b>	<b>1.40</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>1.80</b>	<b>1.80</b>	<b>2.60</b>	<b>2.00</b>	-	-	-	-	<b>3.00</b>	<b>2.00</b>	<b>3.00</b>	<b>2.60</b>	<b>2.40</b>	<b>1.40</b>	<b>1.00</b>

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C107	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C108 &amp; BS8161 - PHYSICS AND CHEMISTRY LABORATORY</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C108.1	1	2	-	2	3	2	1	1	1	-	-	2	-	-	-
C108.2	1	2	-	2	3	2	1	1	1	-	-	2	-	-	-
C108.3	1	2	-	2	3	2	1	1	1	-	-	2	-	-	-
C108.4	1	2	-	2	3	2	1	1	1	-	-	2	-	-	-
C108.5	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-
<b>C108</b>	<b>1.00</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>1.00</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>-</b>	<b>-</b>

RUBRICS	
34	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
45	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C108	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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## SEMESTER 2

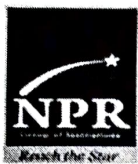
<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; I</b>
<b>Course Code &amp; Name:</b>	<b>C109 &amp; HS8251 - TECHNICAL ENGLISH</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C109.1	-	-	-	-	-	-	-	-	3	3	-	2	-	-	-
C109.2	-	-	-	-	-	-	-	-	3	3	-	2	-	-	-
C109.3	-	-	-	-	-	-	-	-	3	3	-	2	-	-	-
C109.4	-	-	-	-	-	-	-	-	3	3	-	2	-	-	-
C109.5	-	-	-	-	-	-	-	-	3	3	-	2	-	-	-
C109	-	-	-	-	-	-	-	-	3.00	3.00	-	2.00	-	-	-
PO ATTAINMENT	-	-	-	-	-	-	-	-	3.00	3.00	-	2.00	-	-	-

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C109	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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**Programme: B.E. Computer Science and Engineering**

**Year & Sem: I & II**

**Course Code & Name: C110 & MA8251 - ENGINEERING MATHEMATICS - II**

**Year of Study : 2017 - 2018**

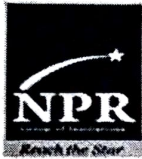
CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C110.1	3	3	2	2	2	1	-	-	-	-	2	1	1	-	-
C110.2	3	3	1	1	1	1	-	-	-	-	2	1	1	-	-
C110.3	3	3	-	1	-	-	-	-	-	-	1	-	1	-	-
C110.4	3	3	2	2	1	1	-	1	-	-	1	1	1	-	-
C110.5	3	3	2	1	-	-	-	-	-	-	1	-	1	-	-
<b>C110</b>	<b>3.00</b>	<b>3.00</b>	<b>1.75</b>	<b>1.40</b>	<b>1.33</b>	<b>1.00</b>	-	<b>1.00</b>	-	-	<b>1.40</b>	<b>1.00</b>	<b>1.00</b>	-	-
<b>PO ATTAINMENT</b>	<b>2.20</b>	<b>2.20</b>	<b>1.28</b>	<b>1.03</b>	<b>0.98</b>	<b>0.73</b>	-	<b>0.73</b>	-	-	<b>1.03</b>	<b>0.73</b>	<b>0.73</b>	-	-

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C110	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				2.20	







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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; II</b>
<b>Course Code &amp; Name:</b>	<b>C111 &amp; PH8252 - PHYSICS FOR INFORMATION SCIENCE</b>
<b>Year of Study :</b>	<b>2016 - 2017</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C111.1	2	1	1	-	-	-	-	-	-	2	-	-	2	2	-
C111.2	2	1	1	-	-	-	-	-	-	2	-	-	2	2	-
C111.3	2	1	1	-	-	-	-	-	-	2	-	-	2	2	-
C111.4	2	1	1	-	-	-	-	-	-	2	-	-	2	2	-
C111.5	3	2	2	-	-	-	-	-	-	2	-	-	2	2	-
<b>C111</b>	<b>2.20</b>	<b>1.20</b>	<b>1.20</b>	-	-	-	-	-	-	<b>2.00</b>	-	-	<b>2.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>1.03</b>	<b>0.56</b>	<b>0.56</b>	-	-	-	-	-	-	<b>0.93</b>	-	-	<b>0.93</b>	<b>0.93</b>	-

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C111	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; II</b>
<b>Course Code &amp; Name:</b>	<b>C112 &amp; BE8255 - BASIC ELECTRICAL ELECTRONICS AND MEASUREMENT ENGINEERING</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C112.1	2	2	1	-	-	-	-	-	-	-	-	-	2	-	1
C112.2	2	2	1	-	2	-	-	-	-	-	-	-	2	1	-
C112.3	2	2	1	-	2	-	-	-	-	-	-	-	1	-	-
C112.4	2	2	1	1	1	-	-	-	-	-	-	-	1	1	1
C112.5	2	2	1	1	1	-	-	-	-	-	-	-	1	-	-
C112.6	2	2	1	-	-	-	-	-	-	-	-	-	1	-	-
<b>C112</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.50</b>	-	-	-	-	-	-	-	<b>1.33</b>	<b>1.00</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>0.93</b>	<b>0.93</b>	<b>0.47</b>	<b>0.47</b>	<b>0.70</b>	-	-	-	-	-	-	-	<b>0.62</b>	<b>0.47</b>	<b>0.47</b>

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C112	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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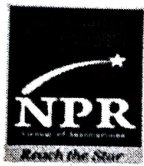
<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; II</b>
<b>Course Code &amp; Name:</b>	<b>C113 &amp; GE8291- ENVIRONMENTAL SCIENCE AND ENGINEERING</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C113.1	3	-	1	-	-	3	3	2	-	-	-	2	-	-	-
C113.2	2	-	1	-	-	3	3	2	-	-	-	2	-	-	-
C113.3	1	-	1	-	-	3	3	2	-	-	-	2	-	-	-
C113.4	3	-	1	-	-	3	3	1	-	-	-	2	-	-	-
C113.5	1	-	1	-	-	3	3	2	-	-	-	2	-	-	-
<b>C113</b>	<b>2.00</b>	<b>-</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>3.00</b>	<b>3.00</b>	<b>1.80</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>1.47</b>	<b>-</b>	<b>0.73</b>	<b>-</b>	<b>-</b>	<b>2.20</b>	<b>2.20</b>	<b>1.32</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.47</b>	<b>-</b>	<b>-</b>	<b>-</b>

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C113	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				2.20	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; II</b>
<b>Course Code &amp; Name:</b>	<b>C114 &amp; CS8251 – PROGRAMMING IN C</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C114.1	2	2	2	1	-	-	-	-	-	1	-	2	2	3	2
C114.2	2	2	2	1	2	-	-	-	-	1	-	2	2	3	2
C114.3	3	3	3	2	3	-	-	-	-	1	1	2	2	3	2
C114.4	3	3	-	-	2	-	-	-	-	1	-	2	3	3	2
C114.5	3	3	-	-	3	-	-	-	-	3	-	3	3	3	3
C114.6	3	3	-	-	3	-	-	-	-	2	-	1	3	3	3
<b>C114</b>	<b>2.67</b>	<b>2.67</b>	<b>2.33</b>	<b>1.33</b>	<b>2.60</b>	-	-	-	-	<b>1.50</b>	<b>1.00</b>	<b>2.00</b>	<b>2.50</b>	<b>3.00</b>	<b>2.33</b>
<b>PO ATTAINMENT</b>	<b>1.24</b>	<b>1.24</b>	<b>1.09</b>	<b>0.62</b>	<b>1.21</b>	-	-	-	-	<b>0.70</b>	<b>0.47</b>	<b>0.93</b>	<b>1.17</b>	<b>1.40</b>	<b>1.09</b>

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C114	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	0	3	3.00	1
CO5	0	0	3	3.00	1
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; II</b>
<b>Course Code &amp; Name:</b>	<b>C115 &amp; GE8261 - ENGINEERING PRACTICES LABORATORY</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C115.1	1	1	2	1	-	-	-	-	-	2	-	2	1	2	-
C115.2	1	1	2	1	-	-	-	-	-	2	-	2	1	-	-
C115.3	1	1	2	1	-	-	-	-	-	2	-	2	1	2	-
C115.4	1	1	2	1	-	-	-	-	-	2	-	2	1	-	-
C115.5	1	1	2	1	-	-	-	-	-	2	-	2	1	-	-
C115.6	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>C115</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.00</b>	-	-	-	-	-	<b>2.00</b>	-	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.00</b>	-	-	-	-	-	<b>2.00</b>	-	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	-

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C115	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>I &amp; II</b>
<b>Course Code &amp; Name:</b>	<b>C116 &amp; CS8261 – C PROGRAMMING LABORATORY</b>
<b>Year of Study :</b>	<b>2017 - 2018</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C116.1	3	3	2	-	-	-	-	-	-	-	-	3	1	-	-
C116.2	3	2	2	1	3	-	-	-	-	-	-	3	2	1	-
C116.3	3	3	3	2	3	-	-	-	-	-	-	3	1	2	-
C116.4	3	2	2	1	3	-	-	-	-	-	-	3	1	2	-
C116.5	3	3	3	2	3	-	-	-	-	-	-	3	1	-	1
C116.6	3	2	2	1	3	-	-	-	-	-	-	3	2	1	-
<b>C116</b>	<b>3.00</b>	<b>2.50</b>	<b>2.33</b>	<b>1.40</b>	<b>3.00</b>	-	-	-	-	-	-	<b>3.00</b>	<b>1.50</b>	<b>1.33</b>	<b>1.50</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>2.50</b>	<b>2.33</b>	<b>1.40</b>	<b>3.00</b>	-	-	-	-	-	-	<b>3.00</b>	<b>1.50</b>	<b>1.33</b>	<b>1.50</b>

RUBRICS	
33	60% OF STUDENT ABOVE 50% - 1 (LOW)
39	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
44	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C116	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	0	0.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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## SEMESTER 3

<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C201 &amp; MA8351 – Discrete Mathematics</b>
<b>Year of Study :</b>	<b>2018 – 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C201.1	2	-	1	-	-	-	-	-	-	-	-	-	2	-	-
C201.2	2	1	1	-	-	-	-	-	-	-	-	-	2	-	-
C201.3	3	2	-	-	-	-	-	-	-	-	-	-	2	-	-
C201.4	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-
C201.5	3	-	2	-	-	-	-	-	-	-	-	-	2	-	-
C201.6	2	-	2	-	-	-	-	-	-	-	-	-	2	-	-
<b>C201</b>	<b>2.50</b>	<b>1.50</b>	<b>1.50</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	-	-
<b>PO ATTAINMENT</b>	<b>1.17</b>	<b>0.70</b>	<b>0.70</b>	-	-	-	-	-	-	-	-	-	<b>0.93</b>	-	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C201	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C202 &amp; CS8351 – Digital Principles and System Design</b>
<b>Year of Study :</b>	<b>2018 – 2019</b>

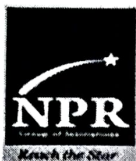
CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C202.1	3	3	1	1	-	1	1	1	-	-	-	-	3	1	-
C202.2	3	3	2	2	1	1	1	1	-	-	-	2	3	2	1
C202.3	3	3	2	2	1	1	1	1	-	-	-	1	3	2	1
C202.4	3	3	2	2	1	1	1	1	-	-	-	1	3	2	1
C202.5	3	3	2	2	-	1	1	1	-	-	-	2	3	2	-
C202.6	3	3	2	2	1	1	1	1	-	-	-	1	3	2	1
<b>C202</b>	<b>3.00</b>	<b>3.00</b>	<b>1.83</b>	<b>1.83</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.40</b>	<b>3.00</b>	<b>1.83</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>3.00</b>	<b>1.83</b>	<b>1.83</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.40</b>	<b>3.00</b>	<b>1.83</b>	<b>1.00</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C202	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	







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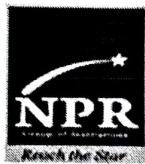
<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C203 &amp; CS8391 – Data Structures</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C203.1	2	2	1	-	-	-	-	-	-	-	-	-	2	2	1
C203.2	2	2	1	-	-	-	-	-	-	-	-	-	2	2	1
C203.3	2	2	1	-	-	-	-	-	-	-	-	-	2	2	1
C203.4	3	2	2	1	-	-	-	-	-	-	-	-	2	2	1
C203.5	3	2	2	1	-	-	-	-	-	-	-	-	2	2	1
C203.6	3	2	2	1	-	-	-	-	-	-	-	-	2	2	1
<b>C203</b>	<b>2.50</b>	<b>2.00</b>	<b>1.50</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>2.50</b>	<b>2.00</b>	<b>1.50</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C203	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C204 &amp; CS8392 – Object Oriented Programming</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C204.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C204.2	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C204.3	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C204.4	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C204.5	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C204.6	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C204	2.00	1.00	1.00	-	-	-	-	-	-	-	-	-	2.00	2.00	-
PO ATTAINMENT	2.00	1.00	1.00	-	-	-	-	-	-	-	-	-	2.00	2.00	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C204	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C205 &amp; EC8395 Communication Engineering</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C205.1	3	2	1	-	-	-	-	-	-	-	-	-	2	1	1
C205.2	3	2	1	-	2	-	-	-	-	-	-	-	2	-	-
C205.3	3	2	1	-	2	-	-	-	-	-	-	-	2	1	-
C205.4	3	2	1	-	2	-	-	-	-	-	-	-	2	-	1
C205.5	3	2	1	1	2	-	-	-	-	-	-	-	2	1	1
<b>C205</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	-	-	-	-	-	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>2.20</b>	<b>1.47</b>	<b>0.73</b>	<b>0.73</b>	<b>1.47</b>	-	-	-	-	-	-	-	<b>1.47</b>	<b>0.73</b>	<b>0.73</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C205	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				2.20	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C206 &amp; CS8381 – Data Structures Laboratory</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C206.1	1	3	1	2	2	-	-	-	1	-	-	-	2	1	1
C206.2	2	2	2	1	2	-	-	-	2	-	-	-	2	2	1
C206.3	2	3	1	2	1	-	-	-	1	-	-	-	3	1	1
C206.4	2	2	2	3	3	-	-	-	1	-	-	-	2	2	2
C206.5	2	3	3	2	3	-	-	-	2	-	-	-	2	2	2
C206.6	3	3	2	2	2	-	-	-	1	-	-	1	2	1	1
<b>C206</b>	<b>2.00</b>	<b>2.67</b>	<b>1.83</b>	<b>2.00</b>	<b>2.17</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.33</b>	<b>-</b>	<b>-</b>	<b>1.00</b>	<b>2.17</b>	<b>1.50</b>	<b>1.33</b>
<b>PO ATTAINMENT</b>	<b>2.00</b>	<b>2.67</b>	<b>1.83</b>	<b>2.00</b>	<b>2.17</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.33</b>	<b>-</b>	<b>-</b>	<b>1.00</b>	<b>2.17</b>	<b>1.50</b>	<b>1.33</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C206	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	0	0.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>3.00</b>	





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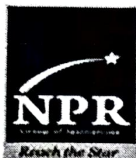
<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C207 &amp; CS8383 - Object Oriented Programming Laboratory</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C207.1	3	3	3	-	-	-	-	-	-	-	-	-	3	2	-
C207.2	3	3	3	-	-	-	-	-	-	-	-	-	3	2	-
C207.3	3	3	3	-	-	-	-	-	-	-	-	-	3	2	-
C207.4	3	3	3	-	-	-	-	-	-	-	-	-	3	2	-
C207.5	3	3	3	-	-	-	-	-	-	-	-	-	3	2	-
C207.6	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-
<b>C207</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	-	-	-	-	-	-	-	-	-	<b>3.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	-	-	-	-	-	-	-	-	-	<b>3.00</b>	<b>2.00</b>	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C207	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C208 &amp; CS8382 – Digital Systems Laboratory</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C208.1	-	3	3	-	-	2	-	1	2	1	-	3	2	3	-
C208.2	3	3	3	-	-	2	-	1	2	1	-	3	2	3	-
C208.3	3	3	3	-	-	2	-	1	2	1	-	3	2	3	-
C208.4	3	2	3	-	-	1	-	1	2	1	-	3	2	3	-
C208.5	3	3	3	-	-	-	-	-	-	-	-	0	2	3	-
C208	3.00	2.80	3.00	-	-	1.75	-	1.00	2.00	1.00	-	3.00	2.00	3.00	-
CO ATTAINMENT	3.00	2.80	3.00	-	-	1.75	-	1.00	2.00	1.00	-	3.00	2.00	3.00	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C208	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





# NPR College of Engineering & Technology

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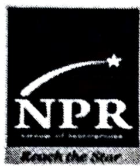
<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C209 &amp; HS8381 - Interpersonal Skills/Listening &amp; Speaking</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C209.1	-	-	-	-	-	-	-	-	2	3	-	3	-	-	-
C209.2	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C209.3	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C209.4	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C209.5	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C209	-	-	-	-	-	-	-	-	2.40	2.20	-	3.00	-	-	-
CO ATTAINMENT	-	-	-	-	-	-	-	-	2.40	2.20	-	3.00	-	-	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C209	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; III</b>
<b>Course Code &amp; Name:</b>	<b>C209 &amp; HS8381 - Interpersonal Skills/Listening &amp; Speaking</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C209.1	-	-	-	-	-	-	-	-	2	3	-	3	-	-	-
C209.2	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C209.3	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C209.4	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C209.5	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C209	-	-	-	-	-	-	-	-	2.40	2.20	-	3.00	-	-	-
CO ATTAINMENT	-	-	-	-	-	-	-	-	2.40	2.20	-	3.00	-	-	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C209	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	







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## SEMESTER 4

<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C210 &amp; MA8402 - Probability and Queuing Theory</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C210.1	2	1	1	-	-	-	-	-	1	1	-	1	2	2	-
C210.2	2	1	1	-	-	-	-	-	1	1	-	1	2	2	-
C210.3	2	1	1	-	-	-	-	-	1	-	-	-	2	2	-
C210.4	2	1	1	-	-	-	-	-	2	1	-	2	2	2	-
C210.5	3	2	2	-	-	-	-	-	1	2	-	2	2	2	-
C210	2.20	1.20	1.20	-	-	-	-	-	1.20	1.25	-	1.50	2.00	2.00	-
PO ATTAINMENT	1.03	0.56	0.56	-	-	-	-	-	0.56	0.58	-	0.70	0.93	0.93	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C210	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C211 &amp; CS8491 – Computer Architecture</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C211.1	2	1	1	-	-	-	-	-	-	-	-	-	2	-	-
C211.2	2	1	1	-	-	-	-	-	-	-	-	-	2	-	-
C211.3	2	2	2	-	-	-	-	-	-	-	-	-	2	2	-
C211.4	2	1	1	-	-	-	-	-	-	-	-	-	2	-	-
C211.5	2	1	1	-	-	-	-	-	-	-	-	-	2	-	-
C211.6	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
<b>C211</b>	<b>2.00</b>	<b>1.17</b>	<b>1.17</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>0.93</b>	<b>0.54</b>	<b>0.54</b>	-	-	-	-	-	-	-	-	-	<b>0.93</b>	<b>0.93</b>	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C211	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C212 &amp; CS8492 – Database Management Systems</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C212.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C212.2	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
C212.3	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C212.4	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C212.5	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C212.6	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C212	2.17	1.17	1.17	-	-	-	-	-	-	-	-	-	2.00	2.00	-
PO ATTAINMENT	1.59	0.86	0.86	-	-	-	-	-	-	-	-	-	1.47	1.47	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C212	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				3.00	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				2.20	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C213 &amp; CS8451 – Design and Analysis Of Algorithms</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C213.2	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C213.3	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C213.4	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C213.5	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
C213.6	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>C213</b>	<b>2.33</b>	<b>1.33</b>	<b>1.33</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>1.09</b>	<b>0.62</b>	<b>0.62</b>	-	-	-	-	-	-	-	-	-	<b>0.93</b>	<b>0.93</b>	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C213	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C214 &amp; CS8493 – Operating Systems</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C214.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C214.2	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C214.3	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C214.4	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C214.5	3	2	2	-	-	-	-	-	-	-	-	-	2	3	-
C214.6	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
C214	2.33	1.33	1.33	-	-	-	-	-	-	-	-	-	2.00	2.17	-
PO ATTAINMENT	1.09	0.62	0.62	-	-	-	-	-	-	-	-	-	0.93	1.01	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C214	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
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				3.00	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.40	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C215 &amp; CS8494 -Software Engineering</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C215.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C215.2	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C215.3	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
C215.4	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
C215.5	3	2	2	-	-	-	-	-	-	-	-	-	2	3	-
C215.6	3	2	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>C215</b>	<b>2.67</b>	<b>1.67</b>	<b>1.67</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.17</b>	-
<b>PO ATTAINMENT</b>	<b>2.67</b>	<b>1.67</b>	<b>1.67</b>	-	-	-	-	-	-	-	-	-	<b>2.00</b>	<b>2.17</b>	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C215	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C216 &amp; CS8481 - Database Management Systems Laboratory</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C216.1	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-
C216.2	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-
C216.3	3	2	3	2	-	-	-	-	-	-	-	-	-	-	-
C216.4	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
C216.5	3	-	3	-	-	-	-	-	-	-	-	-	-	3	-
C216.6	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-
C216	2.83	2.00	3.00	2.00	-	-	-	-	-	-	-	-	2	-	-
PO ATTAINMENT	2.83	2.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	-
													2.00	3.00	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C216	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	3	3	3.00	3
CO2	3	3	3	3.00	3
CO3	3	3	3	3.00	3
CO4	3	3	3	3.00	3
CO5	3	3	3	3.00	3
CO6	0	3	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





# NPR College of Engineering & Technology

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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C217 &amp; CS6413 - Operating Systems Laboratory</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C217.1	1	1	1	-	-	-	-	1	1	1	-	1	1	1	1
C217.2	2	2	2	-	-	-	-	2	2	2	-	2	1	2	2
C217.3	3	3	3	-	-	-	-	3	2	2	-	2	2	2	2
C217.4	3	3	3	-	-	-	-	3	3	3	-	3	3	3	2
C217.5	3	3	3	-	-	-	-	3	3	3	-	3	3	3	3
C217	2.40	2.40	2.40	-	-	-	-	2.40	2.20	2.20	-	2.20	2.00	2.20	2.00
PO ATTAINMENT	2.40	2.40	2.40	-	-	-	-	2.40	2.20	2.20	-	2.20	2.00	2.20	2.00

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C217	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	







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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>II &amp; IV</b>
<b>Course Code &amp; Name:</b>	<b>C218 &amp; HS8461 – Advance Reading &amp; Writing</b>
<b>Year of Study :</b>	<b>2018 - 2019</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C218.1	-	-	-	-	-	-	-	-	2	3	-	3	-	-	-
C218.2	-	-	-	-	-	-	-	-	2	2	-	2	-	-	-
C218.3	-	-	-	-	-	-	-	-	2	3	-	3	-	-	-
C218.4	-	-	-	-	-	-	-	-	2	2	-	3	-	-	-
C218.5	-	-	-	-	-	-	-	-	3	2	-	3	-	-	-
C218	-	-	-	-	-	-	-	-	2.20	2.40	-	2.80	-	-	-
PO ATTAINMENT	-	-	-	-	-	-	-	-	2.20	2.40	-	2.80	-	-	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
42	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C218	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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## SEMESTER 5

<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C301 &amp; MA8551 – Algebra and Number Theory</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	2	1	1	-	-	-	-	-	1	-	-	-	2	1	-
C301.2	1	1	1	-	-	-	-	-	1	-	-	-	2	1	-
C301.3	1	1	1	-	-	-	-	-	1	-	-	-	2	1	-
C301.4	1	1	1	-	-	-	-	-	2	-	-	-	2	2	-
C301.5	1	2	2	-	-	-	-	-	1	-	-	-	2	1	-
<b>C301</b>	<b>1.20</b>	<b>1.20</b>	<b>1.20</b>	-	-	-	-	-	<b>1.20</b>	-	-	-	<b>2.00</b>	<b>1.20</b>	-
<b>PO ATTAINMENT</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	-	-	-	-	-	<b>0.50</b>	-	-	-	<b>0.84</b>	<b>0.50</b>	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C301	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	3	2.00	1
CO2	1	0	3	2.00	1
CO3	0	2	0	2.00	1
CO4	0	2	3	2.50	1
CO5	0	0	3	3.00	1
CO6	0	0	0	0.00	1
<b>INTERNAL/UNIV ATTAINMENTS</b>				<b>2.30</b>	<b>1.00</b>
<b>WEIGHTAGE</b>				<b>20%</b>	<b>80%</b>
<b>CO ATTAINMENT FOR THE SUBJECT</b>				<b>0.46</b>	<b>0.80</b>
<b>FINAL CO ATTAINMENT FOR THE SUBJECT</b>				<b>1.26</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	III & V
<b>Course Code &amp; Name:</b>	C302 & CS8591 – Computer Networks
<b>Year of Study :</b>	2019 - 2020

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	2	-	3	-	-	-	-	-	-	-	-	3	-	2
C302.2	3	1	-	2	-	-	-	-	-	-	-	-	3	-	1
C302.3	3	-	1	2	3	-	-	-	-	-	-	-	3	-	1
C302.4	3	1	-	2	-	-	-	-	-	-	-	-	3	-	2
C302.5	3	1	-	2	-	-	-	-	-	-	-	-	3	-	2
C302.6	3	-	-	2	2	-	-	-	-	-	-	-	3	1	2
<b>C302</b>	<b>3.00</b>	<b>1.25</b>	<b>1.00</b>	<b>2.17</b>	<b>2.50</b>	-	-	-	-	-	-	-	<b>3.00</b>	<b>1.00</b>	<b>1.67</b>
<b>PO ATTAINMENT</b>	<b>1.16</b>	<b>0.48</b>	<b>0.39</b>	<b>0.84</b>	<b>0.97</b>	-	-	-	-	-	-	-	<b>1.16</b>	<b>0.39</b>	<b>0.64</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C302	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	2	1.50	1
CO2	1	0	2	1.50	1
CO3	0	2	2	2.00	1
CO4	0	2	2	2.00	1
CO5	0	0	2	2.00	1
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				1.80	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.36	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>1.16</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C303 &amp; EC8691 – Microprocessors And Microcontrollers</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C303.1	3	2	1	-	-	-	-	-	-	-	-	-	2	1	1
C303.2	3	2	1	-	2	-	-	-	-	-	-	-	2	-	-
C303.3	3	2	1	-	2	-	-	-	-	-	-	-	2	1	-
C303.4	3	2	1	-	2	-	-	-	-	-	-	-	2	1	1
C303.5	3	2	1	1	2	-	-	-	-	-	-	-	2	-	1
<b>C303</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	-	-	-	-	-	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>1.25</b>	<b>0.83</b>	<b>0.42</b>	<b>0.42</b>	<b>0.83</b>	-	-	-	-	-	-	-	<b>0.83</b>	<b>0.42</b>	<b>0.42</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C303	TEST1	TEST2	TEST3	INT	UNIV
CO1	2	0	1	1.50	1
CO2	3	0	2	2.50	1
CO3	0	2	1	1.50	1
CO4	0	2	1	1.50	1
CO5	0	0	1	1.00	1
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				1.60	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.32	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.12	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C304 &amp; CS8501 – Theory of Computation</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C304.1	2	2	1	1	1	-	1	-	-	-	-	-	2	-	-
C304.2	2	2	1	-	-	-	0	-	-	-	-	-	2	-	-
C304.3	3	2	2	1	1	-	0	-	-	-	-	-	2	-	-
C304.4	3	2	3	-	-	-	1	-	-	-	-	-	2	-	-
C304.5	3	2	1	-	1	-	0	-	-	-	-	-	2	-	-
C304.6	3	1	2	1	-	-	1	-	-	-	-	-	2	-	-
<b>C304</b>	<b>2.67</b>	<b>1.83</b>	<b>1.67</b>	<b>1.00</b>	<b>1.00</b>	<b>-</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>1.17</b>	<b>0.81</b>	<b>0.73</b>	<b>0.44</b>	<b>0.44</b>	<b>-</b>	<b>0.44</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.88</b>	<b>-</b>	<b>-</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C304	TEST1	TEST2	TEST3	INT	UNIV
CO1	2	0	3	2.50	1
CO2	2	0	3	2.50	1
CO3	0	2	3	2.50	1
CO4	0	2	3	2.50	1
CO5	0	0	3	3.00	1
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				2.60	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.52	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>1.32</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C305 &amp; CS8592 – Object Oriented Analysis and Design</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

COURSE OUTCOME	CO Vs PO															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
C305.1	2	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-
C305.2	3	2	2	-	-	-	-	-	-	-	-	-	-	1	1	-
C305.3	3	2	2	-	-	-	-	-	-	-	-	-	-	3	3	-
C305.4	2	1	1	-	-	-	-	-	-	-	-	-	-	2	2	-
C305.5	3	2	2	-	-	-	-	-	-	-	-	-	-	2	2	-
C305.6	2	1	1	-	-	-	-	-	-	-	-	-	-	2	2	-
C305	2.50	1.50	1.50	-	-	-	-	-	-	-	-	-	-	3	3	-
PO ATTAINMENT	1.77	1.06	1.06	-	-	-	-	-	-	-	-	-	-	2.00	2.00	-
														1.41	1.41	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C305	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
CO6	0	0	0	0.00	2
INTERNAL/UNIV ATTAINMENTS				2.60	2.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.52	1.60
FINAL CO ATTAINMENT FOR THE SUBJECT				2.12	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C306 &amp; OMD551 – Basics of Biomedical Instrumentation</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C306.1	3	-	-	-	2	-	-	-	-	-	-	-	2	1	-
C306.2	3	-	2	-	-	-	-	-	-	-	-	-	1	1	-
C306.3	3	-	-	-	-	-	-	-	-	-	-	3	1	1	-
C306.4	2	-	-	-	-	-	-	-	-	-	-	2	1	1	-
C306.5	-	2	-	-	-	-	-	-	-	-	-	1	1	1	-
<b>C306</b>	<b>2.75</b>	<b>2.00</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.00</b>	<b>1.20</b>	<b>1.00</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>1.05</b>	<b>0.76</b>	<b>0.76</b>	<b>-</b>	<b>0.76</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.76</b>	<b>0.46</b>	<b>0.38</b>	<b>-</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C306	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	2	1.50	1
CO2	1	0	2	1.50	1
CO3	0	1	2	1.50	1
CO4	0	1	3	2.00	1
CO5	0	0	2	2.00	1
CO6	0	0	0	0.00	1
INTERNAL/UNIV ATTAINMENTS				1.70	1.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.34	0.80
FINAL CO ATTAINMENT FOR THE SUBJECT				1.14	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C307 &amp; EC8691 – Microprocessor and Microcontrollers Laboratory</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C307.1	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C307.2	2	1	1	-	-	-	-	-	-	-	-	-	1	1	-
C307.3	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C307.4	2	1	1	-	-	-	-	-	-	-	-	-	1	1	-
C307.5	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C307.6	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-
<b>C307</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	-	<b>1.00</b>	<b>1.00</b>	-
<b>PO ATTAINMENT</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	-	<b>1.00</b>	<b>1.00</b>	-

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C307	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>3.00</b>	







# NPR College of Engineering & Technology

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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C308 &amp; CS8582 – Object Oriented Analysis and Design Laboratory</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C308.1	3	3	-	-	-	2	-	-	2	-	-	-	3	3	3
C308.2	3	3	3	-	3	3	-	3	-	-	-	3	3	3	3
C308.3	3	3	-	-	-	-	-	-	3	3	-	-	2	3	2
C308.4	3	-	-	-	3	-	-	-	-	-	-	3	3	3	3
C308.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>C308</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>3.00</b>	<b>2.50</b>	<b>-</b>	<b>3.00</b>	<b>2.50</b>	<b>3.00</b>	<b>-</b>	<b>3.00</b>	<b>2.75</b>	<b>3.00</b>	<b>2.75</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>-</b>	<b>3.00</b>	<b>2.50</b>	<b>-</b>	<b>3.00</b>	<b>2.50</b>	<b>3.00</b>	<b>-</b>	<b>3.00</b>	<b>2.75</b>	<b>3.00</b>	<b>2.75</b>

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C308	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; V</b>
<b>Course Code &amp; Name:</b>	<b>C309 &amp; CS8581 – Networks Laboratory</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C309.1	3	3	3	-	-	-	-	3	3	3	-	3	1	1	2
C309.2	3	3	3	-	-	-	-	3	3	3	-	3	2	2	2
C309.3	3	3	3	-	-	-	-	3	3	3	-	3	3	2	2
C309.4	3	3	3	-	-	-	-	3	3	3	-	3	3	2	2
C309.5	3	3	3	-	-	-	-	3	3	3	-	3	2	3	2
C309	3.00	3.00	3.00	-	-	-	-	3.00	3.00	3.00	-	3.00	2.20	2.00	2.00
PO ATTAINMENT	3.00	3.00	3.00	-	-	-	-	3.00	3.00	3.00	-	3.00	2.20	2.00	2.00

RUBRICS	
31	60% OF STUDENT ABOVE 50% - 1 (LOW)
36	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
41	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C309	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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## SEMESTER 6

**Programme: B.E. Computer Science and Engineering**

**Year & Sem: III & VI**

**Course Code & Name: C310 & CS8651 – Internet Programming**

**Year of Study : 2019 - 2020**

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C310.1	3	2	3	-	1	-	1	-	-	-	-	2	2	2	-
C310.2	2	2	3	1	2	-	1	-	1	-	2	1	2	2	-
C310.3	2	2	3	-	1	-	1	-	-	-	-	1	2	2	-
C310.4	2	2	3	-	2	-	1	-	1	-	2	2	2	2	-
C310.5	2	2	3	1	2	-	1	-	-	-	2	2	2	2	-
C310.6	3	2	3	1	2	-	1	-	-	-	2	2	2	2	-
<b>C310</b>	<b>2.33</b>	<b>2.00</b>	<b>3.00</b>	<b>1.00</b>	<b>1.67</b>	<b>-</b>	<b>1.00</b>	<b>-</b>	<b>1.00</b>	<b>-</b>	<b>2.00</b>	<b>1.67</b>	<b>2.00</b>	<b>2.00</b>	<b>-</b>
<b>CO ATTAINMENT</b>	<b>2.02</b>	<b>1.73</b>	<b>2.60</b>	<b>0.87</b>	<b>1.44</b>	<b>-</b>	<b>0.87</b>	<b>-</b>	<b>0.87</b>	<b>-</b>	<b>1.73</b>	<b>1.44</b>	<b>1.73</b>	<b>1.73</b>	<b>-</b>

### RUBRICS

29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C310	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	0	1.00	3
CO2	1	0	0	1.00	3
CO3	0	1	0	1.00	3
CO4	0	1	0	1.00	3
CO5	0	0	0	0.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				1.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.20	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				2.60	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C311 &amp; CS8691 – Artificial Intelligence</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C311.1	3	3	2	-	2	2	-	-	-	-	2	-	2	-	-
C311.2	2	3	4	2	-	-	-	-	-	-	3	3	2	1	-
C311.3	1	3	3	2	-	-	-	-	-	-	-	3	2	-	-
C311.4	1	2	3	-	3	-	-	-	2	2	-	2	2	1	-
C311.5	3	2	3	-	-	-	-	2	2	-	-	-	2	-	-
C311.6	2	1	1	-	-	-	-	2	-	-	2	-	2	1	-
<b>C311</b>	<b>2.00</b>	<b>2.33</b>	<b>2.67</b>	<b>2.00</b>	<b>2.50</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.33</b>	<b>2.67</b>	<b>2.00</b>	<b>1.00</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>1.89</b>	<b>2.21</b>	<b>2.52</b>	<b>1.89</b>	<b>2.37</b>	<b>1.89</b>	<b>-</b>	<b>1.89</b>	<b>1.89</b>	<b>1.89</b>	<b>2.21</b>	<b>2.52</b>	<b>1.89</b>	<b>0.95</b>	<b>-</b>

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C311	TEST1	TEST2	TEST3	INT	UNIV
CO1	1	0	3	2.00	3
CO2	1	0	3	2.00	3
CO3	0	1	3	2.00	3
CO4	0	1	3	2.00	3
CO5	0	0	3	3.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				2.20	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.44	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				2.84	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C312 &amp; CS8601 – Mobile Computing</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

### CO Vs PO

COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C312.1	3	3	2	0	2	2	1	0	0	0	2	0	2	1	0
C312.2	2	1	0	2	0	0	1	0	0	0	3	3	2	1	0
C312.3	2	1	3	3	0	0	0	0	2	0	0	3	2	1	0
C312.4	2	1	3	2	3	0	1	0	2	2	0	2	2	1	0
C312.5	2	3	0	2	0	0	0	2	0	0	0	0	2	1	0
C312.6	3	2	3	2	0	0	1	2	0	0	2	0	1	1	0
<b>C312</b>	<b>2.33</b>	<b>1.83</b>	<b>2.75</b>	<b>2.20</b>	<b>2.50</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.33</b>	<b>2.67</b>	<b>1.83</b>	<b>1.00</b>	<b>0.00</b>
<b>PO ATTAINMENT</b>	<b>2.26</b>	<b>1.77</b>	<b>2.66</b>	<b>2.13</b>	<b>2.42</b>	<b>1.93</b>	<b>0.97</b>	<b>1.93</b>	<b>1.93</b>	<b>1.93</b>	<b>2.26</b>	<b>2.58</b>	<b>1.77</b>	<b>0.97</b>	<b>-</b>

### RUBRICS

29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C312	TEST1	TEST2	TEST3	INT	UNIV
CO1	2	0	0	2.00	3
CO2	2	0	0	2.00	3
CO3	0	3	0	3.00	3
CO4	0	3	0	3.00	3
CO5	0	0	0	0.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				1.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.50	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>2.90</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C313 &amp; CS8602 – Compiler Design</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C313.1	3	3	2	-	2	2	-	-	-	-	2	-	2	-	-
C313.2	2	1	-	3	-	-	-	-	-	-	3	3	2	-	-
C313.3	1	1	3	3	-	-	-	-	-	-	-	3	2	-	-
C313.4	1	1	3	-	3	-	-	-	2	2	-	2	2	-	-
C313.5	2	3	-	-	-	-	-	2	2	-	-	-	2	-	-
C313.6	3	2	3	-	-	-	-	2	-	-	2	-	2	-	-
<b>C313</b>	<b>2.00</b>	<b>1.83</b>	<b>2.75</b>	<b>3.00</b>	<b>2.50</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.33</b>	<b>2.67</b>	<b>2.00</b>	<b>-</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>2.00</b>	<b>1.83</b>	<b>2.75</b>	<b>3.00</b>	<b>2.50</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.33</b>	<b>2.67</b>	<b>2.00</b>	<b>-</b>	<b>-</b>

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C313	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	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C314 &amp; CS8603 – Distributed Systems</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C314.2	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C314.3	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C314.4	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C314.5	2	1	2	-	-	-	-	-	-	-	-	-	1	-	-
C314.6	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
<b>C314</b>	<b>2.00</b>	<b>1.00</b>	<b>1.17</b>	-	-	-	-	-	-	-	-	-	<b>1.00</b>	-	-
<b>PO ATTAINMENT</b>	<b>2.00</b>	<b>1.00</b>	<b>1.17</b>	-	-	-	-	-	-	-	-	-	<b>1.00</b>	-	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C314	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	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	III & VI
<b>Course Code &amp; Name:</b>	C315 & IT8076 – Software Testing
<b>Year of Study :</b>	2019 – 2020

COURSE OUTCOME	CO Vs PO															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
C315.1	2	1	1	-	1	-	-	-	-	-	-	1	1	2	-	-
C315.2	3	2	2	1	-	-	-	-	-	-	1	1	2	-	-	
C315.3	2	1	1	-	1	-	-	-	-	-	1	-	2	-	-	
C315.4	2	1	1	1	-	-	-	-	-	-	-	1	2	-	-	
C315.5	2	1	1	-	1	-	-	-	-	-	1	-	2	-	-	
C315.6	2	1	1	1	-	-	-	-	-	-	-	-	2	-	-	
<b>C315</b>	<b>2.17</b>	<b>1.17</b>	<b>1.17</b>	<b>1.00</b>	<b>1.00</b>	-	-	-	-	-	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	
<b>PO ATTAINMENT</b>	<b>2.17</b>	<b>1.17</b>	<b>1.17</b>	<b>1.00</b>	<b>1.00</b>	-	-	-	-	-	<b>1.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C315	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	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	







# NPR College of Engineering & Technology

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Website : www.nprcolleges.org, www.nprcet.org, Email nprcetprincipal@nprcolleges.org



<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C316 &amp; CS8661 – Internet Programming Laboratory</b>
<b>Year of Study :</b>	<b>2019 – 2020</b>

### CO Vs PO

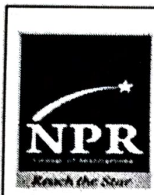
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>C316.1</b>	3	2	2	1	2	-	-	-	-	2	-	1	2	2	-
<b>C316.2</b>	3	2	2	1	-	-	-	-	-	2	-	2	2	2	-
<b>C316.3</b>	3	2	2	1	2	-	-	-	-	2	-	1	2	2	-
<b>C316.4</b>	3	2	2	1	-	-	-	-	-	2	-	2	2	2	-
<b>C316.5</b>	3	2	2	1	2	-	-	-	-	2	-	1	2	2	-
<b>C316.6</b>	3	2	2	1	-	-	-	-	-	2	-	2	2	2	-
<b>C316</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	-	-	<b>2.00</b>	-	<b>1.50</b>	<b>2.00</b>	<b>2.00</b>	-
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.00</b>	-	-	-	-	<b>2.00</b>	-	<b>1.50</b>	<b>2.00</b>	<b>2.00</b>	-

### RUBRICS

29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C316	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>3.00</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C317 &amp; CS8662 – Mobile Application Development Laboratory</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C317.1	3	2	-	-	2	-	-	2	1	-	-	2	3	2	-
C317.2	3	2	-	-	2	-	-	-	-	-	-	2	2	2	-
C317.3	3	2	-	-	2	-	-	2	1	-	-	2	2	2	-
C317.4	3	2	-	-	2	-	-	2	-	-	-	2	2	2	-
C317.5	3	2	-	-	2	-	-	-	1	-	-	2	2	3	-
C317.6	3	2	-	-	2	-	-	2	-	-	-	2	2	3	-
<b>C317</b>	<b>3.00</b>	<b>2.00</b>	-	-	<b>2.00</b>	-	-	<b>2.00</b>	<b>1.00</b>	-	-	<b>2.00</b>	<b>2.17</b>	<b>2.33</b>	-
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>2.00</b>	-	-	<b>2.00</b>	-	-	<b>2.00</b>	<b>1.00</b>	-	-	<b>2.00</b>	<b>2.17</b>	<b>2.33</b>	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C317	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C318 &amp; CS8611 – Mini Project</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C318.1	3	2	2	1	-	2	2	-	2	-	2	3	3	2	1
C318.2	3	2	2	1	-	1	2	-	2	-	1	2	3	2	1
C318.3	3	2	2	1	-	1	2	-	2	-	2	3	3	2	1
C318.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C318.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C318.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>C318</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>-</b>	<b>1.33</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>1.67</b>	<b>2.67</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>-</b>	<b>1.33</b>	<b>2.00</b>	<b>-</b>	<b>2.00</b>	<b>-</b>	<b>1.67</b>	<b>2.67</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C318	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>3.00</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>III &amp; VI</b>
<b>Course Code &amp; Name:</b>	<b>C319 &amp; HS8581 – Professional Communication</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C319.1	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-
C319.2	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-
C319.3	-	-	-	-	-	2	-	-	3	3	3	3	-	-	-
C319.4	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-
C319.5	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-
C319.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C319	-	-	-	-	-	2.00	-	-	3.00	3.00	3.00	3.00	-	-	-
PO ATTAINMENT	-	-	-	-	-	2.00	-	-	3.00	3.00	3.00	3.00	-	-	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
39	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C319	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
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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## SEMESTER 7

Programme: B.E. Computer Science and Engineering	
Year & Sem:	IV & VII
Course Code & Name:	C401 & MG8591-Principles of Management
Year of Study :	2020 – 2021

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C401.1	-	-	-	-	-	-	-	-	2	2	-	-	2	2	-
C401.2	-	-	-	-	-	-	-	-	2	-	2	-	2	1	-
C401.3	-	-	-	-	-	-	-	2	2	-	2	-	2	1	-
C401.4	-	-	-	-	-	-	-	2	2	2	-	3	2	-	-
C401.5	-	-	-	-	-	-	-	-	2	2	2	-	2	2	-
C401.6	-	-	-	-	-	2	-	2	2	2	-	3	2	2	-
C401	-	-	-	-	-	2.00	0.00	2.00	2.00	2.00	2.00	3.00	2.00	1.50	-
PO ATTAINMENT	-	-	-	-	-	2.00	-	2.00	2.00	2.00	2.00	3.00	2.00	1.50	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C401	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	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	3.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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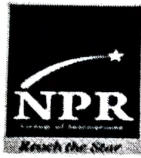
<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VII</b>
<b>Course Code &amp; Name:</b>	<b>C402 &amp; CS8792 – Cryptography and Network Security</b>
<b>Year of Study :</b>	<b>2020 - 2021</b>

COURSE OUTCOME	CO Vs PO													PSO1	PSO2	PSO3
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12				
C402.1	2	1	1	-	-	-	-	-	-	-	-	-	-	3	2	-
C402.2	2	1	1	-	-	-	-	-	-	-	-	-	-	3	2	-
C402.3	3	2	2	1	-	-	-	-	-	-	-	-	-	2	3	-
C402.4	3	2	2	1	-	-	-	-	-	-	-	-	-	2	3	-
C402.5	3	2	2	1	-	-	-	-	-	-	-	-	-	2	3	-
C402.6	2	1	1	-	-	-	-	-	-	-	-	-	-	2	2	-
<b>C402</b>	<b>2.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	-	<b>2.33</b>	<b>2.50</b>	-
<b>PO ATTAINMENT</b>	<b>2.50</b>	<b>1.50</b>	<b>1.50</b>	<b>1.00</b>	-	-	-	-	-	-	-	-	-	<b>2.33</b>	<b>2.50</b>	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C402	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
<b>INTERNAL/UNIV ATTAINMENTS</b>				<b>3.00</b>	<b>3.00</b>
<b>WEIGHTAGE</b>				<b>20%</b>	<b>80%</b>
<b>CO ATTAINMENT FOR THE SUBJECT</b>				<b>0.60</b>	<b>2.40</b>
<b>FINAL CO ATTAINMENT FOR THE SUBJECT</b>				<b>3.00</b>	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VII</b>
<b>Course Code &amp; Name:</b>	<b>C403 &amp; CS8791 - Cloud Computing</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	2	1	1	-	2	-	-	-	-	2	2	2	2	2	-
C403.2	2	1	1	-	1	-	-	-	-	2	3	2	2	2	-
C403.3	3	2	2	1	1	-	-	-	-	3	3	2	2	3	-
C403.4	2	1	2	-	2	-	-	-	-	2	3	3	2	2	-
C403.5	3	2	2	1	1	-	-	-	-	2	3	3	2	3	-
C403.6	3	2	1	1	1	-	-	-	-	2	3	3	2	3	-
C403	2.50	1.50	1.50	1.00	1.33	-	-	-	-	2.17	2.83	2.50	2.00	2.50	-
PO ATTAINMENT	2.50	1.50	1.50	1.00	1.33	-	-	-	-	2.17	2.83	2.50	2.00	2.50	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C403	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	



 <b>NPR</b> <i>Reach the Stars</i>	<h1>NPR College of Engineering &amp; Technology</h1> <p>NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.          Approved by AICTE, New Delhi &amp; Affiliated to Anna University, Chennai.          An ISO 9001:2015 Certified Institution.          Phone No: 04544- 246 500, 246501, 246502.          Website : <a href="http://www.nprcolleges.org">www.nprcolleges.org</a>, <a href="http://www.nprcet.org">www.nprcet.org</a>, Email <a href="mailto:nprcetprincipal@nprcolleges.org">nprcetprincipal@nprcolleges.org</a></p>	
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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VII</b>
<b>Course Code &amp; Name:</b>	<b>C404 &amp; OIE751 – Robotics</b>
<b>Year of Study :</b>	<b>2020 – 2021</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C404.1	3	2	2	-	3	2	-	-	-	-	-	-	2	1	-
C404.2	-	2	2	-	3	-	-	-	-	-	-	-	3	2	-
C404.3	3	2	2	-	3	1	-	-	-	-	-	-	3	-	-
C404.4	3	1	1	-	2	2	-	-	-	-	-	-	2	2	-
C404.5	-	2	1	-	3	1	-	-	-	-	-	-	2	2	-
C404.6	-	1	0	-	3	1	-	-	-	-	-	-	1	2	-
<b>C404</b>	<b>3.00</b>	<b>1.67</b>	<b>1.60</b>	<b>-</b>	<b>2.83</b>	<b>1.40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.17</b>	<b>1.80</b>	<b>-</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>1.67</b>	<b>1.60</b>	<b>-</b>	<b>2.83</b>	<b>1.40</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.17</b>	<b>1.80</b>	<b>-</b>

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C404	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				<b>3.00</b>	







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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VII</b>
<b>Course Code &amp; Name:</b>	<b>C405 &amp; GE8077 – Total Quality Management</b>
<b>Year of Study :</b>	<b>2020 – 2021</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C405.1	-	3	2	-	-	-	-	-	-	-	-	-	1	-	-
C405.2	-	-	-	-	-	3	-	-	-	-	-	-	1	1	-
C405.3	3	3	-	-	-	2	-	-	-	-	-	-	2	1	-
C405.4	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-
C405.5	3	3	3	-	-	3	-	-	-	-	-	-	2	2	-
C405.6	-	-	2	-	-	1	-	-	-	-	-	-	2	-	-
<b>C405</b>	<b>3.00</b>	<b>3.00</b>	<b>2.33</b>	-	-	<b>2.25</b>	-	-	-	-	-	-	<b>1.67</b>	<b>1.33</b>	-
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>3.00</b>	<b>2.33</b>	-	-	<b>2.25</b>	-	-	-	-	-	-	<b>1.67</b>	<b>1.33</b>	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C405	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VII</b>
<b>Course Code &amp; Name:</b>	<b>C406 &amp; CS8079 – Human Computer Interaction</b>
<b>Year of Study :</b>	<b>2019 - 2020</b>

COURSE OUTCOME	CO Vs PO												PSO1	PSO2	PSO3	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12				
C406.1	3	2	3	1	-	-	-	-	-	-	-	-	-	2	1	-
C406.2	3	2	2	1	-	-	-	-	-	-	-	-	-	2	1	-
C406.3	3	2	-	1	-	-	-	-	-	-	-	-	-	2	-	-
C406.4	1	2	-	2	-	-	-	-	-	-	-	-	-	1	-	-
C406.5	1	2	-	2	-	-	-	-	-	-	-	-	-	1	2	-
C406.6	-	2	3	1	-	-	-	-	-	-	-	-	-	2	2	-
C406	2.20	2.00	2.67	1.33	-	-	-	-	-	-	-	-	-	1.67	1.50	-
PO ATTAINMENT	2.20	2.00	2.67	1.33	-	-	-	-	-	-	-	-	-	1.67	1.50	-

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C406	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VII</b>
<b>Course Code &amp; Name:</b>	<b>C407 &amp; CS8711 – Cloud Computing Laboratory</b>
<b>Year of Study :</b>	<b>2020 - 2021</b>

### CO Vs PO

COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C407.1	2	3	2	3	2	-	2	1	2	-	-	2	3	3	2
C407.2	2	2	3	2	2	-	-	-	-	2	1	2	3	3	1
C407.3	2	-	1	1	3	-	2	1	2	-	-	2	3	3	1
C407.4	2	2	3	3	2	-	-	1	2	1	1	2	3	2	1
C407.5	3	3	2	3	3	-	2	-	3	2	1	2	3	1	1
C407.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C407	2.20	2.50	2.20	2.40	2.40	-	2.00	1.00	2.25	1.67	1.00	2.00	3.00	2.40	1.20
PO ATTAINMENT	2.20	2.50	2.20	2.40	2.40	-	2.00	1.00	2.25	1.67	1.00	2.00	3.00	2.40	1.20

### RUBRICS

29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C407	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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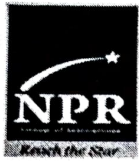
Programme: B.E. Computer Science and Engineering	
Year & Sem:	IV & VII
Course Code & Name:	C408 & IT8761 - Security Laboratory
Year of Study :	2020 - 2021

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C408.1	3	3	3	-	2	-	-	2	1	1	-	2	2	2	3
C408.2	3	3	3	-	2	-	-	2	1	1	-	2	-	2	-
C408.3	3	3	2	-	3	-	-	3	2	2	-	3	3	-	2
C408.4	3	3	2	-	3	-	-	3	2	2	-	3	2	1	2
C408.5	2	3	2	-	3	-	-	2	-	1	-	2	2	2	1
C408.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C408	2.80	3.00	2.40	-	2.60	-	-	2.40	1.50	1.40	-	2.40	2.25	1.75	2.00
PO ATTAINMENT	2.80	3.00	2.40	-	2.60	-	-	2.40	1.50	1.40	-	2.40	2.25	1.75	2.00

RUBRICS	
29	60% OF STUDENT ABOVE 50% - 1 (LOW)
34	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C408	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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## SEMESTER 8

Programme: B.E. Computer Science and Engineering	
Year & Sem:	IV & VIII
Course Code & Name:	C409 & GE6075 - Professional Ethics in Engineering
Year of Study :	2020 - 2021

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409.1	-	-	-	-	-	1	-	3	3	-	-	3	1	-	-
C409.2	-	-	-	-	-	-	2	3	2	1	-	1	-	-	-
C409.3	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-
C409.4	-	-	-	-	-	3	1	3	2	1	-	3	-	-	-
C409.5	-	-	-	-	-	2	2	3	1	2	-	2	1	-	-
C409.6	-	-	-	-	-	2	2	3	3	3	-	2	-	-	-
C409	-	-	-	-	-	2.00	1.75	3.00	2.20	1.75	-	2.20	1.00	-	-
PO ATTAINMENT	-	-	-	-	-	2.00	1.75	3.00	2.20	1.75	-	2.20	1.00	-	-

RUBRICS	
28	60% OF STUDENT ABOVE 50% - 1 (LOW)
33	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C409	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/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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Programme: B.E. Computer Science and Engineering	
Year & Sem:	IV & VIII
Course Code & Name:	C410 & CS8080 – Information Retrieval Techniques
Year of Study :	2020 - 2021

COURSE OUTCOME	CO Vs PO														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C410.1	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C410.2	3	2	2	1	-	-	-	-	-	-	-	-	2	3	-
C410.3	3	2	2	1	-	-	-	-	-	-	-	-	2	3	-
C410.4	3	2	2	1	-	-	-	-	-	-	-	-	2	3	-
C410.5	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C410.6	2	1	1	-	-	-	-	-	-	-	-	-	2	2	-
C410	2.50	1.50	1.50	1.00	-	-	-	-	-	-	-	-	2.00	2.50	-
PO ATTAINMENT	2.50	1.50	1.50	1.00	-	-	-	-	-	-	-	-	2.00	2.50	-

RUBRICS	
28	60% OF STUDENT ABOVE 50% - 1 (LOW)
33	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C410	TEST1	TEST2	TEST3	INT	UNIV
CO1	3	0	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	3.00	3
CO6	0	0	0	0.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	





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<b>Programme: B.E. Computer Science and Engineering</b>	
<b>Year &amp; Sem:</b>	<b>IV &amp; VIII</b>
<b>Course Code &amp; Name:</b>	<b>C411 &amp; CS8811 - Project Work</b>
<b>Year of Study :</b>	<b>2020 - 2021</b>

CO Vs PO															
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C411.1	3	2	2	1	-	-	-	-	2	2	2	1	3	2	1
C411.2	3	3	3	3	2	2	-	1	2	2	2	1	2	2	2
C411.3	3	3	3	2	2	-	-	-	2	2	2	1	2	2	1
C411.4	3	3	3	3	2	2	-	1	2	2	2	1	2	2	2
C411.5	3	3	3	2	2	-	-	1	2	2	2	1	2	2	2
C411.6	3	3	3	3	2	2	-	-	2	2	2	1	2	2	1
<b>C411</b>	<b>3.00</b>	<b>2.83</b>	<b>2.83</b>	<b>2.33</b>	<b>2.00</b>	<b>2.00</b>	<b>-</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.17</b>	<b>2.00</b>	<b>1.50</b>
<b>PO ATTAINMENT</b>	<b>3.00</b>	<b>2.83</b>	<b>2.83</b>	<b>2.33</b>	<b>2.00</b>	<b>2.00</b>	<b>-</b>	<b>1.00</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>1.00</b>	<b>2.17</b>	<b>2.00</b>	<b>1.50</b>

RUBRICS	
28	60% OF STUDENT ABOVE 50% - 1 (LOW)
33	70% OF STUDENT ABOVE 50% - 2 (MEDIUM)
38	80% OF STUDENT ABOVE 50% - 3 (HIGH)

C412	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
CO6	0	0	3	3.00	3
INTERNAL/UNIV ATTAINMENTS				3.00	3.00
WEIGHTAGE				20%	80%
CO ATTAINMENT FOR THE SUBJECT				0.60	2.40
FINAL CO ATTAINMENT FOR THE SUBJECT				3.00	



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**7. CSE Course attainment for all the subjects (Regulation 2017)**

S. NO.	COURSE CODE	COURSE NAME	INTERNAL EXAMINATION ATTAINMENT VALUE	UNIVERSITY EXAMINATION ATTAINMENT VALUE	CO ATTAINMENT	PERCENTAGE OF ATTAINMENT
1.	C101	HS8151- COMMUNICATIVE ENGLISH	0.60	2.40	3.00	100%
2.	C102	MA8151- ENGINEERING MATHEMATICS - I	0.60	1.60	2.20	73.33
3.	C103	PH8151- ENGINEERING PHYSICS	0.60	0.80	1.40	
4.	C104	CY8151-ENGINEERING CHEMISTRY	0.60	1.60	2.20	73.33
5.	C105	GE8151-PROBLEM SOLVING AND PYTHON PROGRAMMING	0.60	2.40	3.00	100%
6.	C106	GE8152- ENGINEERING GRAPHICS	0.60	2.40	3.00	100%
7.	C107	GE8161- PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	0.60	2.40	3.00	100%
8.	C108	BS8161- PHYSICS AND CHEMISTRY LABORATORY	0.60	2.40	3.00	100%
9.	C109	HS8251- TECHNICAL ENGLISH	0.60	2.40	3.00	100%
10.	C110	MA8251- ENGINEERING MATHEMATICS - II	0.60	1.60	2.20	73.33
11.	C111	PH8252- PHYSICS FOR INFORMATION SCIENCE	0.60	0.80	1.40	46.66%
12.	C112	BE8255- BASIC ELECTRICAL ELECTRONICS AND MEASUREMENT ENGINEERING	0.60	0.80	1.40	46.66%
13.	C113	GE8291- ENVIRONMENTAL SCIENCE AND ENGINEERING	0.60	1.60	2.20	73.33
14.	C114	CS8251- PROGRAMMING IN C	0.60	0.80	1.40	46.66%
15.	C115	GE8261- ENGINEERING PRACTICES LABORATORY	0.60	2.40	3.00	100%
16.	C116	CS8261- C PROGRAMMING LABORATORY	0.60	2.40	3.00	100%
17.	C201	MA8351- DISCRETE MATHEMATICS	0.60	0.80	1.40	46.66%
18.	C202	CS8351- DIGITAL PRINCIPLES AND SYSTEM DESIGN	0.60	2.40	3.00	100%
19.	C203	CS8391- DATA STRUCTURES	0.60	2.40	3.00	100%
20.	C204	CS8392- OBJECT ORIENTED PROGRAMMING	0.60	2.40	3.00	100%
21.	C205	EC8395-COMMUNICATION ENGINEERING	0.60	1.60	2.20	73.33
22.	C206	CS8381- DATA STRUCTURES LABORATORY	0.60	2.40	3.00	100%
23.	C207	CS8383- OBJECT ORIENTED PROGRAMMING LABORATORY	0.60	2.40	3.00	100%







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24.	C208	CS8382- DIGITAL SYSTEMS LABORATORY	0.60	2.40	3.00	100%
25.	C209	HS8381- INTERPERSONAL SKILLS/LISTENING & SPEAKING	0.60	2.40	3.00	100%
26.	C210	MA8402- PROBABILITY AND QUEUEING THEORY	0.60	0.80	1.40	46.66%
27.	C211	CS8491-COMPUTER ARCHITECTURE	0.60	0.80	1.40	46.66%
28.	C212	CS8492- DATABASE MANAGEMENT SYSTEMS	0.60	1.60	2.20	73.33
29.	C213	CS8451- DESIGN AND ANALYSIS OF ALGORITHMS	0.60	0.80	1.40	46.66%
30.	C214	CS8493- OPERATING SYSTEMS	0.60	0.80	1.40	46.66%
31.	C215	CS8494- SOFTWARE ENGINEERING	0.60	2.40	3.00	100%
32.	C216	CS8481- DATABASE MANAGEMENT SYSTEMS LABORATORY	0.60	2.40	3.00	100%
33.	C217	CS8461- OPERATING SYSTEMS LABORATORY	0.60	2.40	3.00	100%
34.	C218	HS8461- ADVANCED READING AND WRITING LAB	0.60	2.40	3.00	100%
35.	C301	MA8551- ALGEBRA AND NUMBER THEORY	0.46	0.80	1.26	42%
36.	C302	CS8591- COMPUTER NETWORKS	0.36	0.80	1.16	38.66
37.	C303	EC8691- MICROPROCESSORS AND MICROCONTROLLERS	0.32	0.80	1.12	37.33
38.	C304	CS8501-THEORY OF COMPUTATION	0.52	0.80	1.32	44%
39.	C305	CS8592-OBJECT ORIENTED ANALYSIS AND DESIGN	0.52	1.60	2.12	70.66
40.	C306	OMD551-BASIC OF BIOMEDICAL INSTRUMENTATION	0.34	0.80	1.14	38%
41.	C307	EC8681-MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	0.60	2.40	3.00	100%
42.	C308	CS8582-OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY	0.60	2.40	3.00	100%
43.	C309	CS8581-NETWORKS LABORATORY	0.60	2.40	3.00	100%
44.	C310	CS8651-INTERNET PROGRAMMING	0.20	2.40	2.60	86.66%





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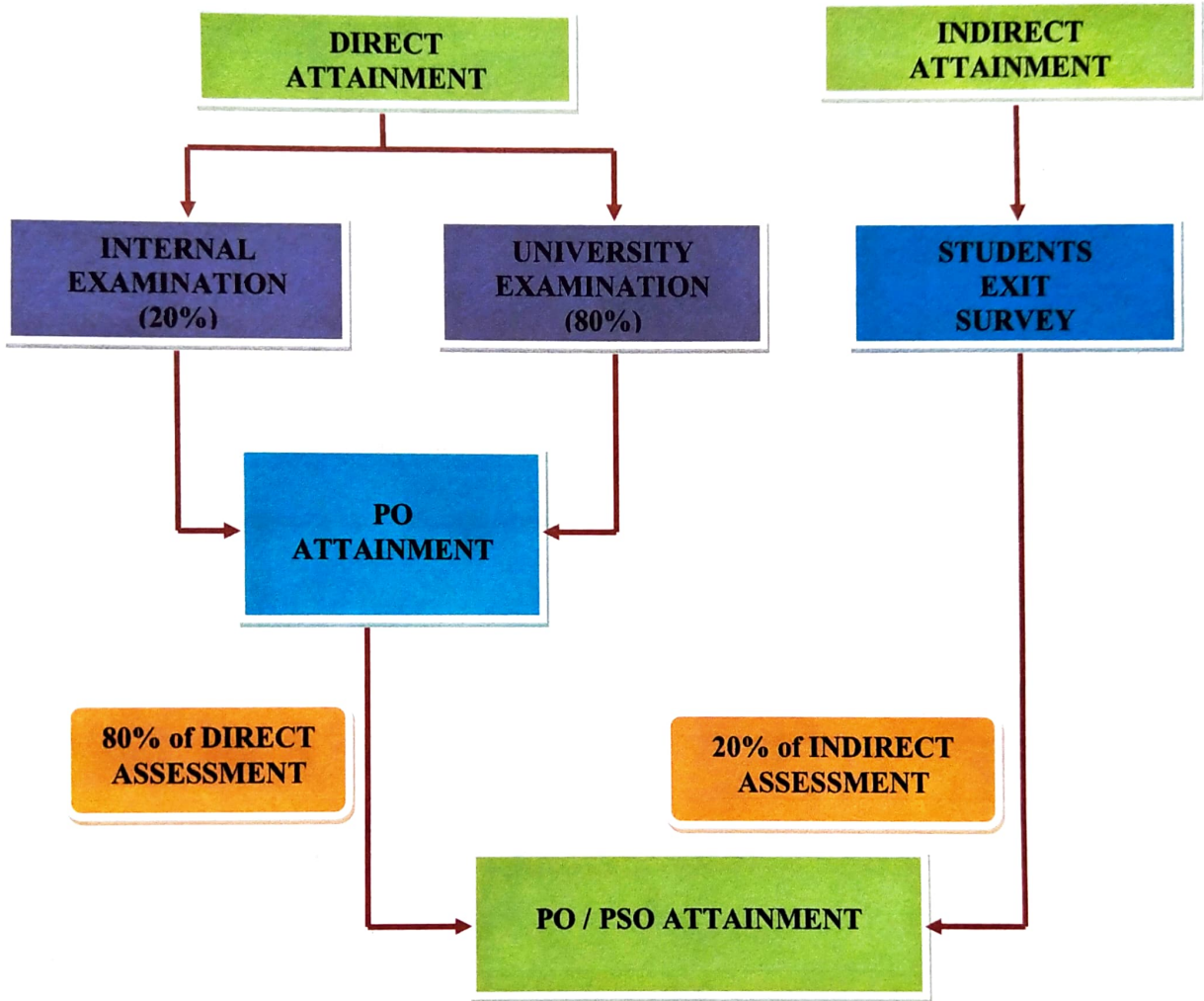
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45.	C311	CS8691-ARTIFICIAL INTELLIGENCE	0.44	2.40	2.84	94.66%
46.	C312	CS8601-MOBILE COMPUTING	0.50	2.40	2.90	96.66%
47.	C313	CS8602-COMPILER DESIGN	0.60	2.40	3.00	100%
48.	C314	CS8603-DISTRIBUTED SYSTEMS	0.60	2.40	3.00	100%
49.	C315	IT8076-SOFTWARE TESTING	0.60	2.40	3.00	100%
50.	C316	CS8661-INTERNET PROGRAMMING LABORATORY	0.60	2.40	3.00	100%
51.	C317	CS8662-MOBILE APPLICATION DEVELOPMENT LABORATORY	0.60	2.40	3.00	100%
52.	C318	CS8611-MINI PROJECT	0.60	2.40	3.00	100%
53.	C319	HS8581-PROFESSIONAL COMMUNICATION	0.60	2.40	3.00	100%
54.	C401	MG8581-PRINCIPLES OF MANAGEMENT	0.60	2.40	3.00	100%
55.	C402	CS8792-CRYPTOGRAPHY AND NETWORK SECURITY	0.60	2.40	3.00	100%
56.	C403	CS8791-CLOUD COMPUTING	0.60	2.40	3.00	100%
57.	C404	OIE751-ROBOTICS	0.60	2.40	3.00	100%
58.	C405	GE8077-TOTAL QUALITY MANAGEMENT	0.60	2.40	3.00	100%
59.	C406	CS8079-HUMAN COMPUTER INTERACTION	0.60	2.40	3.00	100%
60.	C407	CS8711-CLOUD COMPUTING LABORATORY	0.60	2.40	3.00	100%
61.	C408	IT8761-SECURITY LABORATORY	0.60	2.40	3.00	100%
62.	C409	GE8076-PROFESSIONAL ETHICS IN ENGINEERING	0.60	2.40	3.00	100%
63.	C410	CS8080-INFORMATION RETRIEVAL TECHNIQUES	0.60	2.40	3.00	100%
64.	C411	CS8811-PROJECT WORK	0.60	2.40	3.00	100%



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





## 9. Calculation of POs and PSOs Attainment

$$\begin{array}{l} \text{Attainment Level} \\ \text{through} \\ \text{Direct Assessment} \end{array} = (0.8 \times \text{Attainment level based on University Examination Marks}) + (0.2 \times \text{Attainment level based on Internal Assessment Marks})$$

### PO Attainment Level for a Course

$$\text{PO Attainment} = \frac{\text{CO Vs PO Average of the course}}{\text{Maximum Attainment Value}} \times \text{CO Attainment of the Course}$$

### Overall PO Attainment

$$\text{Overall PO Attainment} = (80\% \text{ of Direct Assessment}) + (20\% \text{ of Indirect Assessment})$$



## 10. Indirect Assessment Tools

### Students Exit Survey - Analysis

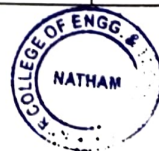
**Program : B.E**

**Survey Collected : 47**

**Branch : Computer Science and Engineering**

**Academic Year : 2020 - 2021**

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.	33	5	5	4	161	188	2.57
PO2	How much you are able to work effectively as an individual, a team member and team leader in an organization?	34	7	4	2	167	188	2.66
PO3	How was the effectiveness of Teaching Processes?	39	5	2	1	176	188	2.81
PO4	How you utilize the Computer and Internet Facilities in our college?	36	4	3	4	166	188	2.65
PO5	How was the college infrastructure?	45	1	1	0	185	188	2.95
PO6	How well your participation in Sports and Extra-Curricular activities in our College?	45	1	1	0	185	188	2.95
PO7	How were the placement facilities in our college?	36	6	2	3	169	188	2.7
PO8	How do you develop the Personality and Communication Skills?	39	4	2	2	174	188	2.78
PO9	How were the Library facilities in our College?	34	8	4	1	169	188	2.7
PO10	How was your ability to create, select and apply appropriate techniques, resources and modern engineering IT tools to complex engineering activities?	37	7	2	1	174	188	2.78





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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?	34	9	1	3	168	188	2.68
PO12	How was your ability to design solutions for complex engineering problems and design system components that meet the specific needs for environmental considerations?	39	2	5	1	173	188	2.76

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?	35	8	2	2	170	188	2.71
PSO2	How was your ability to demonstrate knowledge and understanding of engineering and management principles in multidisciplinary environments?	34	7	4	2	167	188	2.66
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?	40	3	2	2	175	188	2.79



# NPR College of Engineering and Technology

CSE Student Exit Survey for 2017-2021 Batch

Email \*

ajithkumarpjk@gmail.com

Name \*

ajithkumarp.j.k

Register Number \*

920817104007

Branch \*

cs

1. The level of applying the knowledge in mathematics, science and Technology. \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair



2. How much you are able to work effectively as an individual, a team member and team leader in an organization? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

3. How was the effectiveness of Teaching Processes? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

4. How you utilize the Computer and Internet Facilities in our college? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair





5. How was the college infrastructure? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

6. How well your participation in Sports and Extra-Curricular activities in our College? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

7. How were the placement facilities in our college? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair



8. How do you develop the Personality and Communication skills? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

9. How were the Library facilities in our College? \*

- a) Excellent
- b) 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) Good
- c) Satisfactory
- 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) Good
- c) Satisfactory
- 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) Good
- c) Satisfactory
- 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) Good
- c) Satisfactory
- d) Fair



14. How was your ability to demonstrate knowledge and understanding of engineering and management principles in multidisciplinary environments? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

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? \*

- a) Excellent
- b) Good
- c) Satisfactory
- d) Fair

This form was created inside of NPR COLLEGES.

Google Forms

*Handwritten signature and date: 5/5/22*

**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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## 11. Direct and Indirect Assessment PO Attainment

### PO ATTAINMENT

#### SUBJECTWISE PO ATTAINMENT

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C101	-	-	-	-	-	-	-	-	2.80	3.00	-	2.00	-	-	-
C102	2.00	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-
C103	2.20	1.20	1.20	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C104	2.20	1.20	1.20	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C105	3.00	2.00	1.00	1.00	2.00	-	-	-	-	-	-	-	2.00	1.33	1.00
C106	-	2.67	2.50	-	-	-	2.60	-	-	-	-	-	1.20	1.00	-
C107	1.80	1.80	2.60	2.00	-	-	-	-	3.00	2.00	3.00	2.60	2.40	1.40	1.00
C108	1.00	2.00	-	2.00	3.00	2.00	1.00	1.00	1.00	-	-	2.00	-	-	-
C109	-	-	-	-	-	-	-	-	3.00	3.00	-	2.00	-	-	-
C110	3.00	3.00	1.75	1.40	1.33	1.00	-	1.00	-	-	1.40	1.00	1.00	-	-
C111	2.20	1.20	1.20	-	-	-	-	-	-	2.00	-	-	2.00	2.00	-
C112	2.00	2.00	1.00	1.00	1.50	-	-	-	-	-	-	-	1.33	1.00	1.00
C113	2.00	-	1.00	-	-	3.00	3.00	1.80	-	-	-	2.00	-	-	-
C114	2.67	2.67	2.33	1.33	2.60	-	-	-	-	1.50	1.00	2.00	2.50	3.00	2.33
C115	1.00	1.00	2.00	1.00	-	-	-	-	-	2.00	-	2.00	1.00	2.00	-
C116	3.00	2.50	2.33	1.40	3.00	-	-	-	-	-	-	3.00	1.50	1.33	1.50
C201	2.50	1.50	1.50	-	-	-	-	-	-	-	-	-	2.00	-	-
C202	3.00	3.00	1.83	1.83	1.00	1.00	1.00	1.00	-	-	-	1.40	3.00	1.83	1.00
C203	2.50	2.00	1.50	1.00	-	-	-	-	-	-	-	-	2.00	2.00	1.00
C204	2.00	1.00	1.00	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C205	3.00	2.00	1.00	1.00	2.00	-	-	-	-	-	-	-	2.00	1.00	1.00
C206	2.00	2.67	1.83	2.00	2.17	-	-	-	1.33	-	-	1.00	2.17	1.50	1.33
C207	3.00	3.00	3.00	-	-	-	-	-	-	-	-	-	3.00	2.00	-
C208	3.00	2.80	3.00	-	-	1.75	-	1.00	2.00	1.00	-	3.00	2.00	3.00	-
C209	-	-	-	-	-	-	-	-	2.40	2.20	-	3.00	-	-	-
C210	2.20	1.20	1.20	-	-	-	-	-	1.20	1.25	-	1.50	2.00	2.00	-





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C211	2.00	1.17	1.17	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C212	2.17	1.17	1.17	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C213	2.33	1.33	1.33	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C214	2.33	1.33	1.33	-	-	-	-	-	-	-	-	-	2.00	2.17	-
C215	2.67	1.67	1.67	-	-	-	-	-	-	-	-	-	2.00	2.17	-
C216	2.83	2.00	3.00	2.00	-	-	-	-	-	-	-	-	2.00	3.00	-
C217	2.40	2.40	2.40	-	-	-	-	2.40	2.20	2.20	-	2.20	2.00	2.20	2.00
C218	-	-	-	-	-	-	-	-	2.20	2.40	-	2.80	-	-	-
C301	1.20	1.20	1.20	-	-	-	-	-	1.20	-	-	-	2.00	1.20	-
C302	3.00	1.25	1.00	2.17	2.50	-	-	-	-	-	-	-	3.00	1.00	1.67
C303	3.00	2.00	1.00	1.00	2.00	-	-	-	-	-	-	-	2.00	1.00	1.00
C304	2.67	1.83	1.67	1.00	1.00	-	1.00	-	-	-	-	-	2.00	-	-
C305	2.50	1.50	1.50	-	-	-	-	-	-	-	-	-	2.00	2.00	-
C306	2.75	2.00	2.00	-	2.00	-	-	-	-	-	-	2.00	1.20	1.00	-
C307	2.00	1.00	1.00	-	-	-	-	-	-	-	-	-	1.00	1.00	-
C308	3.00	3.00	3.00	-	3.00	2.50	-	3.00	2.50	3.00	-	3.00	2.75	3.00	2.75
C309	3.00	3.00	3.00	-	-	-	-	3.00	3.00	3.00	-	3.00	2.20	2.00	2.00
C310	2.33	2.00	3.00	1.00	1.67	-	1.00	-	1.00	-	2.00	1.67	2.00	2.00	-
C311	2.00	2.33	2.67	2.00	2.50	2.00	-	2.00	2.00	2.00	2.33	2.67	2.00	1.00	-
C312	2.26	1.77	2.66	2.13	2.42	1.93	0.97	1.93	1.93	1.93	2.26	2.58	1.77	0.97	-
C313	2.00	1.83	2.75	3.00	2.50	2.00	-	2.00	2.00	2.00	2.33	2.67	2.00	-	-
C314	2.00	1.00	1.17	-	-	-	-	-	-	-	-	-	1.00	-	-
C315	2.17	1.17	1.17	1.00	1.00	-	-	-	-	-	1.00	1.00	2.00	-	-
C316	3.00	2.00	2.00	1.00	2.00	-	-	-	-	2.00	-	1.50	2.00	2.00	-
C317	3.00	2.00	-	-	2.00	-	-	2.00	1.00	-	-	2.00	2.17	2.33	-
C318	3.00	2.00	2.00	1.00	-	1.33	2.00	-	2.00	-	1.67	2.67	3.00	2.00	1.00
C319	-	-	-	-	-	2.00	-	-	3.00	3.00	3.00	3.00	-	-	-
C401	-	-	-	-	-	2.00	-	2.00	2.00	2.00	2.00	3.00	2.00	1.50	-
C402	2.50	1.50	1.50	1.00	-	-	-	-	-	-	-	-	2.33	2.50	-
C403	2.50	1.50	1.50	1.00	1.33	-	-	-	-	2.17	2.83	2.50	2.00	2.50	-
C404	3.00	1.67	1.60	-	2.83	1.40	-	-	-	-	-	-	2.17	1.80	-
C405	3.00	3.00	2.33	-	-	2.25	-	-	-	-	-	-	1.67	1.33	-





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C406	2.20	2.00	2.67	1.33	-	-	-	-	-	-	-	-	1.67	1.50	-
C407	2.20	2.50	2.20	2.40	2.40	-	2.00	1.00	2.25	1.67	1.00	2.00	3.00	2.40	1.20
C408	2.80	3.00	2.40	-	2.60	-	-	2.40	1.50	1.40	-	2.40	2.25	1.75	2.00
C409	-	-	-	-	-	2.00	1.75	3.00	2.20	1.75	-	2.20	1.00	-	-
C410	2.50	1.50	1.50	1.00	-	-	-	-	-	-	-	-	2.00	2.50	-
C411	3.00	2.83	2.83	2.33	2.00	2.00	-	1.00	2.00	2.00	2.00	1.00	2.17	2.00	1.50
DIRECT	2.02	1.63	1.59	1.33	1.78	1.81	1.48	1.80	1.97	1.99	1.89	2.06	1.64	1.57	1.26
INDIRECT	2.57	2.66	2.81	2.65	2.95	2.95	2.70	2.78	2.70	2.78	2.68	2.76	2.71	2.66	2.79
DIRECT 80%	1.62	1.31	1.28	1.07	1.43	1.45	1.19	1.44	1.57	1.59	1.52	1.65	1.32	1.25	1.00
INDIRECT 20%	0.51	0.53	0.56	0.53	0.59	0.59	0.54	0.56	0.54	0.56	0.54	0.55	0.54	0.53	0.56
PO ATTAINMENT	2.13	1.84	1.84	1.60	2.02	2.04	1.73	2.00	2.11	2.15	2.05	2.20	1.86	1.79	1.56

## PO ATTAINMENT

