



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



Approved by All India Council for Technical Education, New Delhi
Affiliated to Anna University, Chennai

NAAC Accredited Institution & NBA Accredited Courses (Mech. Engg., ECE, CSE, IT)
"Nizara Educational Campus" Muthapudupet, Avadi-IAF, Chennai - 55.

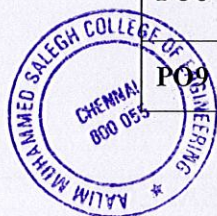
Programme Educational Objectives (PEO's)

| | |
|------|---|
| PEO1 | To ensure graduates will be proficient in utilizing the fundamental knowledge of basic sciences, mathematics and Information Technology for the applications relevant to various streams of Engineering and Technology. |
| PEO2 | To enrich graduates with the core competencies necessary for applying knowledge of computers and telecommunications equipment to store, retrieve, transmit, manipulate and analyze data in the context of business enterprise. |
| PEO3 | To enable the graduates to improve logical thinking, pursue lifelong learning and understand technical issues related to computing systems and optimal design solutions. |
| PEO4 | To enable the graduates in gaining employment in industry and stabilize themselves as competent professionals in applying their technical skills in real time problems and meet the diversified needs of industry, academia and research. |

1. Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) for the Institute

Programme Outcomes (Pos) Engineering Graduates will be able to:

| | |
|-----|--|
| PO1 | Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. |
| PO2 | Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. |
| PO3 | Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| PO4 | Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. |
| PO5 | Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| PO6 | The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. |
| PO7 | Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. |
| PO8 | Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| PO9 | Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |



PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

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

2. Programme Specific Outcomes (PSOs) for Information Technology

| | |
|-------------|--|
| PSO1 | To create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. |
| PSO2 | To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications. |

3. Assessment tools and process used for measuring the attainment of each of the program outcomes and program specific outcomes

Overall attainment including direct and indirect survey:

- Weightage to direct assessment : 80%
- Weightage to indirect assessment: 20%

4. List of Courses for Regulation 2017

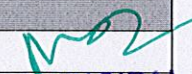
| S.No | Course | Subject | Course |
|--------------------|--------|---------|---|
| SEMESTER I | | | |
| 1 | C101 | HS8151 | Communicative English |
| 2 | C102 | MA8151 | Engineering Mathematics – I |
| 3 | C103 | PH8151 | Engineering Physics |
| 4 | C104 | CY8151 | Engineering Chemistry |
| 5 | C105 | 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 |
| SEMESTER II | | | |
| 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 | IT8201 | Information Technology Essentials |
| 14 | C114 | CS8251 | Programming in C |
| 15 | C115 | GE8261 | Engineering Practices Laboratory |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

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|---------------------|------|--------|---|
| 16 | C116 | CS8261 | C Programming Laboratory |
| 17 | C117 | IT8211 | Information Technology Essentials Laboratory |
| SEMESTER III | | | |
| 18 | C201 | MA8351 | Discrete Mathematics |
| 19 | C202 | CS8351 | Digital Principles and System Design |
| 20 | C203 | CS8391 | Data Structures |
| 21 | C204 | CS8392 | Object Oriented Programming |
| 22 | C205 | EC8394 | Analog and Digital Communication |
| 23 | C206 | CS8381 | Data Structures Laboratory |
| 24 | C207 | CS8383 | Object Oriented Programming Laboratory |
| 25 | C208 | CS8382 | Digital Systems Laboratory |
| 26 | C209 | HS8381 | Interpersonal Skills/Listening & Speaking |
| SEMESTER IV | | | |
| 27 | C210 | MA8391 | Probability and Statistics |
| 28 | C211 | CS8491 | Computer Architecture |
| 29 | C212 | CS8492 | Database Management Systems |
| 30 | C213 | CS8451 | Design and Analysis of Algorithms |
| 31 | C214 | CS8493 | Operating Systems |
| 32 | C215 | GE8291 | Environmental Science and Engineering |
| 33 | C216 | CS8481 | Database Management Systems Laboratory |
| 34 | C217 | CS8461 | Operating Systems Laboratory |
| 35 | C218 | HS8461 | Advanced Reading and Writing |
| SEMESTER V | | | |
| 36 | C301 | MA8551 | Algebra and Number Theory |
| 37 | C302 | CS8591 | Computer Networks |
| 38 | C303 | EC8691 | Microprocessors and Microcontrollers |
| 39 | C304 | IT8501 | Web Technology |
| 40 | C305 | CS8494 | Software Engineering |
| 41 | C306 | OMD551 | Open Elective I Basic of Biomedical Instrumentation |
| 42 | C307 | EC8681 | Microprocessors and Microcontrollers Laboratory |
| 43 | C308 | CS8581 | Networks Laboratory |
| 44 | C309 | IT8511 | Web Technology Laboratory |
| SEMESTER VI | | | |
| 45 | C310 | IT8601 | Computational Intelligence |
| 46 | C311 | CS8592 | Object Oriented Analysis and Design |
| 47 | C312 | IT8602 | Mobile Communication |
| 48 | C313 | CS8091 | Big Data Analytics |
| 49 | C314 | CS8092 | Computer Graphics and Multimedia |
| 50 | C315 | IT8076 | Professional Elective I :Software Testing |
| 51 | C316 | CS8662 | Mobile Application Development Laboratory |
| 52 | C317 | CS8582 | Object Oriented Analysis and Design Laboratory |
| 53 | C318 | IT8611 | Mini Project |
| 54 | C319 | HS8581 | Professional Communication |
| SEMESTER VII | | | |
| 55 | C401 | MG8591 | Principles of Management |
| 56 | C402 | CS8792 | Cryptography and Network Security |




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AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

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|----------------------|------|--------|---|
| 57 | C403 | CS8791 | Cloud Computing |
| 58 | C404 | OME752 | Open Elective II : Supply Chain Management |
| 59 | C405 | IT8075 | Professional Elective II : Software Project Management |
| 60 | C406 | HX8001 | Professional Readiness for Industry Employability Enhancement |
| 61 | C407 | IT8711 | FOSS and Cloud Computing Laboratory |
| 62 | C408 | IT8761 | Security Laboratory |
| SEMESTER VIII | | | |
| 63 | C409 | GE8076 | Professional Elective IV: Professional Ethics in Engineering |
| 64 | C410 | CS8080 | Professional Elective V : Information Retrieval Techniques |
| 65 | C411 | IT8811 | Project Work |

5. CO PO MAPPING EACH COURSE FOR REGULATION 2017

| CO | Program Outcomes | Program Specific Outcomes |
|----|------------------|---------------------------|
|----|------------------|---------------------------|

C101 / HS8151 - COMMUNICATIVE ENGLISH

| C101 | PO1 | PO2 | PO3 | PO 4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO1 2 | PSO 1 | PSO 2 |
|--------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-------|-------|-------|
| C101.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 |
| C101.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 |
| C101.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 |
| C101.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 |
| C101.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 |

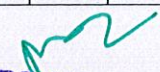
C102 / MA 8151- ENGINEERING MATHEMATICS-I

| C102 | PO1 | PO2 | PO3 | PO 4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|------|------|------|
| C102.1 | 3 | 3 | 3 | 3 | - | - | - | - | 2 | - | - | 2 | 2 | 2 |
| C102.2 | 3 | 3 | 3 | 3 | - | - | - | - | 2 | - | - | 2 | 2 | 2 |
| C102.3 | 3 | 3 | 3 | 3 | - | - | - | - | 2 | - | - | 2 | 2 | 2 |
| C102.4 | 3 | 3 | 3 | 3 | - | - | - | - | 2 | - | - | 2 | 2 | 2 |
| C102.5 | 3 | 3 | 3 | 3 | - | - | - | - | 2 | - | - | 2 | 2 | 2 |
| AVG | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 2 |

C103 / PH 8151- ENGINEERING PHYSICS

| C103 | PO1 | PO2 | PO3 | PO 4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO1 2 | PSO 1 | PSO 2 |
|--------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-------|-------|-------|
| C103.1 | 3 | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | 2 | 2 |
| C103.2 | 3 | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | 2 | 2 |
| C103.3 | 3 | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | 2 | 2 |
| C103.4 | 3 | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | 2 | 2 |
| C103.5 | 3 | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | 2 | 2 |
| AVG | 3 | 3 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 2 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C104 / CY8151 - ENGINEERING CHEMISTRY

| C104 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C104.1 | 3 | 2 | 2 | - | - | - | 3 | - | - | - | - | - | - | 1 |
| C104.2 | 3 | 2 | 2 | - | - | - | 3 | - | - | - | - | - | - | 1 |
| C104.3 | 3 | 2 | 2 | - | - | - | 3 | - | - | - | - | - | - | 1 |
| C104.4 | 3 | 2 | 2 | - | - | - | 3 | - | - | - | - | - | - | 1 |
| C104.5 | 3 | 2 | 2 | - | - | - | 3 | - | - | - | - | - | - | 1 |
| AVG | 3 | 2 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

C105 / GE8151 - PROBLEM SOLVING AND PYTHON PROGRAMMING

| C105 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C105.1 | 3 | 2 | 2 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C105.2 | 3 | 2 | 2 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C105.3 | 3 | 2 | 2 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C105.4 | 3 | 2 | 2 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C105.5 | 3 | 2 | 2 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| AVG | 3 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 |

C106 / GE-8152 ENGINEERING GRAPHICS

| C106 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C106.1 | 3 | 3 | - | - | - | 2 | - | - | - | - | - | 2 | 2 | - |
| C106.2 | 3 | 3 | - | - | - | 2 | - | - | - | - | - | 2 | 2 | - |
| C106.3 | 3 | 3 | - | - | - | 2 | - | - | - | - | - | 2 | 2 | - |
| C106.4 | 3 | 3 | - | - | - | 2 | - | - | - | - | - | 2 | 2 | - |
| C106.5 | 3 | 3 | - | - | - | 2 | - | - | - | - | - | 2 | 2 | - |
| AVG | 3 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |

C107 / GE8161-PYTHON PROGRAMMING LABORATORY

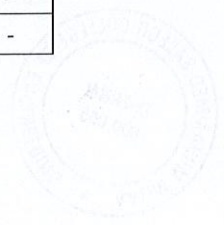
| C107 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C107.1 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C107.2 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C107.3 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C107.4 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| C107.5 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 3 | - |
| AVG | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 |

C108 / BS 8161 - PHYSICS AND CHEMISTRY LAB

| C108 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C108.1 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| C108.2 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



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|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C108.3 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| C108.4 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| C108.5 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C109 / HS8251-TECHNICAL ENGLISH

| C109 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C109.1 | - | - | - | - | - | - | - | - | 3 | 3 | 2 | 2 | 2 | 1 |
| C109.2 | - | - | - | - | - | - | - | - | 3 | 3 | 2 | 2 | 2 | 1 |
| C109.3 | - | - | - | - | - | - | - | - | 3 | 3 | 2 | 2 | 2 | 1 |
| C109.4 | - | - | - | - | - | - | - | - | 3 | 3 | 2 | 2 | 2 | 1 |
| C109.5 | - | - | - | - | - | - | - | - | 3 | 3 | 2 | 2 | 2 | 1 |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 1 |

C110 / MA 8251- ENGINEERING MATHEMATICS-II

| C110 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C110.1 | 3 | 3 | 3 | - | - | - | - | - | 2 | - | - | 2 | 2 | 1 |
| C110.2 | 3 | 3 | 3 | - | - | - | - | - | 2 | - | - | 2 | 2 | 1 |
| C110.3 | 3 | 3 | 3 | - | - | - | - | - | 2 | - | - | 2 | 2 | 1 |
| C110.4 | 3 | 3 | 3 | - | - | - | - | - | 2 | - | - | 2 | 2 | 1 |
| C110.5 | 3 | 3 | 3 | - | - | - | - | - | 2 | - | - | 2 | 2 | 1 |
| AVG | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 1 |

C111 / PH 8252- PHYSICS FOR INFORMATION SCIENCE

| C111 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C111.1 | 3 | 3 | 2 | - | - | - | 2 | - | - | - | - | 2 | 2 | 1 |
| C111.2 | 3 | 3 | 2 | - | - | - | 2 | - | - | - | - | 2 | 2 | 1 |
| C111.3 | 3 | 3 | 2 | - | - | - | 2 | - | - | - | - | 2 | 2 | 1 |
| C111.4 | 3 | 3 | 2 | - | - | - | 2 | - | - | - | - | 2 | 2 | 1 |
| C111.5 | 3 | 3 | 2 | - | - | - | 2 | - | - | - | - | 2 | 2 | 1 |
| AVG | 3 | 3 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 1 |

C112 / BE8255-BASIC ELECTRICAL AND MEASUREMENT ENGINEERING

| C112 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C112.1 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| C112.2 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| C112.3 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| C112.4 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| C112.5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| AVG | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C113 / IT8201-INFORMATION TECHNOLOGY ESSENTIALS

| C113 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C113.1 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 1 | 2 | 2 | 1 |
| C113.2 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 1 | 2 | 2 | 1 |
| C113.3 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 1 | 2 | 2 | 1 |
| C113.4 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 1 | 2 | 2 | 1 |
| C113.5 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 1 | 2 | 2 | 1 |
| AVG | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 1 |

C114 / CS 8251- PROGRAMMING IN C

| C114 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C114.1 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C114.2 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C114.3 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C114.4 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C114.5 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| AVG | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |

C115 / GE8261-ENGINEERING PRACTICES LABORATORY

| C115 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C115.1 | 3 | 3 | - | - | - | 3 | - | - | - | - | - | 1 | 2 | - |
| C115.2 | 3 | 3 | - | - | - | 3 | - | - | - | - | - | 1 | 2 | - |
| C115.3 | 3 | 3 | - | - | - | 3 | - | - | - | - | - | 1 | 2 | - |
| C115.4 | 3 | 3 | - | - | - | 3 | - | - | - | - | - | 1 | 2 | - |
| C115.5 | 3 | 3 | - | - | - | 3 | - | - | - | - | - | 1 | 2 | - |
| AVG | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |

C116 / CS8261-C-PROGRAMMING LABORATORY

| C116 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C116.1 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C116.2 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C116.3 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C116.4 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| C116.5 | 3 | 3 | 3 | - | 3 | - | - | - | - | - | - | 2 | 2 | - |
| AVG | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



C117 / IT8211- INFORMATION TECHNOLOGY ESSENTIALS LABORATORY

| C117 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C117.1 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 2 | 2 | 2 | 1 |
| C117.2 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 2 | 2 | 2 | 1 |
| C117.3 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 2 | 2 | 2 | 1 |
| C117.4 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 2 | 2 | 2 | 1 |
| C117.5 | 3 | 3 | 3 | - | 3 | - | - | - | - | 2 | 2 | 2 | 2 | 1 |
| AVG | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 |

C201 / MA8351- Discrete Mathematics

| C201 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C201.1 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | 3 | - |
| C201.2 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | 3 | - |
| C201.3 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | 3 | - |
| C201.4 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | 3 | - |
| C201.5 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | 3 | - |
| AVG | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |

C202 / CS8351- Digital Principles and system Design

| C202 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C202.1 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C202.2 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C202.3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C202.4 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C202.5 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C203 / CS8391- Data Structures

| C203 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C203.1 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C203.2 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C203.3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C203.4 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C204 / CS8392- Object Oriented Programming

| C204 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C204.1 | 2 | 2 | 3 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C204.2 | 2 | 2 | 3 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C204.3 | 2 | 2 | 3 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C204.4 | 2 | 2 | 3 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C204.5 | 2 | 2 | 3 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| AVG | 2 | 2 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C205 / EC8394- Analog and Digital Communications

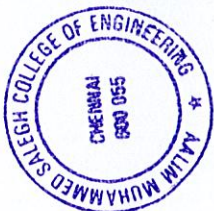
| C205 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C205.1 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C205.2 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C205.3 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C205.4 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C205.5 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C206 / CS8381 DATA STRUCTURES LABORATORY

| C206 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C206.1 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C206.2 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C206.3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C206.4 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C206.5 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| AVG | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |

C207 / CS8383 Object Oriented Programming Laboratory

| C207 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C207.1 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C207.2 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C207.3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C207.4 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C207.5 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C208 / CS8382 Digital Systems Laboratory

| C208 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C208.1 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C208.2 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C208.3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C208.4 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| C208.5 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | - | 3 | - |
| AVG | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |

C209 / HS8381 INTERPERSONAL SKILLS/LISTENING & SPEAKING

| C209 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C209.1 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 3 | 2 | 2 |
| C209.2 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 3 | 2 | 2 |
| C209.3 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 2 |
| C209.4 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 2 |
| C209.5 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 2 |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 2.4 | 2 | 2 |

C210 / MA8391 PROBABILITY AND STATISTICS

| C210 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C210.1 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C210.2 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C210.3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C210.4 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C210.5 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C211 / CS8491 COMPUTER ARCHITECTURE

| C211 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C211.1 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C211.2 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C211.3 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C211.4 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C211.5 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C212 / CS8492 Database Management systems

| C212 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C212.1 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C212.2 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C212.3 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C212.4 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C212.5 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C213 / CS8451 DESIGN AND ANALYSIS OF ALGORITHMS

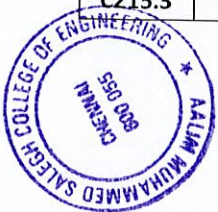
| C213 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C213.1 | 3 | 3 | 2 | 2 | - | - | - | - | - | - | - | - | 2 | - |
| C213.2 | 3 | 3 | 2 | 2 | - | - | - | - | - | - | - | - | 2 | - |
| C213.3 | 3 | 3 | 2 | 2 | - | - | - | - | - | - | - | - | 2 | - |
| C213.4 | 3 | 3 | 2 | 2 | - | - | - | - | - | - | - | - | 2 | - |
| C213.5 | 3 | 3 | 2 | 2 | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C214 / CS8493 OPERATING SYSTEMS

| C214 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C214.1 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C214.2 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C214.3 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C214.4 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C214.5 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C215 / GE8291 ENVIRONMENT SCIENCE AND ENGINEERING

| C215 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C215.1 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 2 |
| C215.2 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 2 |
| C215.3 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 2 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

| | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C215.4 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 2 |
| C215.5 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 2 |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

C216 / CS8481 DATABASE MANAGEMENT SYSTEM LABORATORY

| C216 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C216.1 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C216.2 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C216.3 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C216.4 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C216.5 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 2 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C217 / CS8461 OPERATING SYSTEM LABORATORY

| C217 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C217.1 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C217.2 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C217.3 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C217.4 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C217.5 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C218 / HS8461 ADVANCE READING AND WRITING

| C218 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C218.1 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 1 |
| C218.2 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 1 |
| C218.3 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 1 |
| C218.4 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 1 |
| C218.5 | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 2 | 2 | 1 |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 2 | 2 | 1 |

C301 / MA8551- ALGEBRA AND NUMBER THEORY

| C301 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C301.1 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C301.2 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C301.3 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C301.4 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C301.5 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C302 / CS8591 COMPUTER NETWORKS

| C302 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C302.1 | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C302.2 | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C302.3 | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C302.4 | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| C302.5 | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C303 / EC8691-MICROPROCESSORS AND MICRO CONTROLLERS

| C303 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C303.1 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C303.2 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C303.3 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C303.4 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C303.5 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C304 / IT8501- WEB TECHNOLOGY

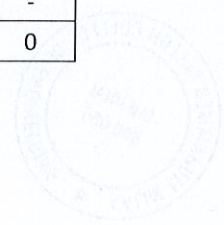
| C304 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C304.1 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C304.2 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C304.3 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C304.4 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C304.5 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C305 / CS8494 SOFTWARE ENGINEERING

| C305 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C305.1 | 3 | 1 | 2 | - | - | - | - | - | - | 3 | - | - | 2 | - |
| C305.2 | 3 | 1 | 2 | - | - | - | - | - | - | 3 | - | - | 2 | - |
| C305.3 | 3 | 1 | 2 | - | - | - | - | - | - | 3 | - | - | 2 | - |
| C305.4 | 3 | 1 | 2 | - | - | - | - | - | - | 3 | - | - | 2 | - |
| C305.5 | 3 | 1 | 2 | - | - | - | - | - | - | 3 | - | - | 2 | - |
| AVG | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



C306 / OMD 551 BASICS OF BIOMEDICAL INSTRUMENTATION

| C306 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C306.1 | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | 1 |
| C306.2 | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | 1 |
| C306.3 | 3 | 2 | 2 | 2 | 2 | 1 | - | - | - | - | - | - | 2 | 1 |
| C306.4 | - | - | 2 | 2 | 2 | 1 | - | - | - | - | - | - | 2 | 1 |
| C306.5 | - | - | 2 | 2 | 2 | 1 | - | - | - | - | - | - | 2 | 1 |
| AVG | 3 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

C307 / EC8681 MICROPROCESSOR AND MICROCONTROLLER LABORATORY

| C307 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C307.1 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C307.2 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C307.3 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C307.4 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C307.5 | 3 | 2 | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 2 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C308 / CS8581-NETWORKS LABORATORY

| C308 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C308.1 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C308.2 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C308.3 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C308.4 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C308.5 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C309 / IT8511 WEB TECHNOLOGY LABORATORY

| C309 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C309.1 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 1 | 2 |
| C309.2 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 1 | 2 |
| C309.3 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 1 | 2 |
| C309.4 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 1 | 2 |
| C309.5 | 3 | 1 | 1 | - | 3 | - | - | - | - | - | - | - | 1 | 2 |
| AVG | 3 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |




PRINCIPAL
ALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C310 / IT8601 COMPUTATIONAL INTELLIGENCE

| C310 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C310.1 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C310.2 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C310.3 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C310.4 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C310.5 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| AVG | 3 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

C311 / CS8592 OBJECT ORIENTED ANALYSIS AND DESIGN

| C311 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C311.1 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 2 | 1 |
| C311.2 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 2 | 1 |
| C311.3 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 2 | 1 |
| C311.4 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 2 | 1 |
| C311.5 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | 2 | 1 |
| AVG | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

C312 / IT8602 MOBILE COMMUNICATION

| C312 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C312.1 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C312.2 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C312.3 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C312.4 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C312.5 | 3 | 2 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C313 / CS8091-Big Data Analytics

| C313 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C313.1 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C313.2 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C313.3 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C313.4 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C313.5 | 3 | 3 | 3 | 3 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| AVG | 3 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C314 / Subject Code and Name: CS8092 - Computer Graphics and Multimedia

| C314 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C314.1 | 3 | - | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C314.2 | 3 | - | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C314.3 | 3 | - | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C314.4 | 3 | - | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| C314.5 | 3 | - | 3 | - | 2 | - | - | - | - | - | - | - | 2 | - |
| AVG | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C315 / IT8076-Software Testing

| C315 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C315.1 | 2 | 2 | - | 3 | - | - | - | - | - | - | - | - | 1 | 1 |
| C315.2 | 2 | 2 | - | 3 | - | - | - | - | - | - | - | - | 1 | 1 |
| C315.3 | 2 | 2 | - | 3 | - | - | - | - | - | - | - | - | 1 | 1 |
| C315.4 | 2 | 2 | - | 3 | - | - | - | - | - | - | - | - | 1 | 1 |
| C315.5 | 2 | 2 | - | 3 | - | - | - | - | - | - | - | - | 1 | 1 |
| AVG | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |

C316 / CS8662 - Mobile Application Development Laboratory

| C316 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C316.1 | 1 | - | 2 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C316.2 | 1 | - | 2 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C316.3 | 1 | - | 2 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C316.4 | 1 | - | 2 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| C316.5 | 1 | - | 2 | - | 3 | - | - | - | - | - | - | - | 2 | - |
| AVG | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |

C317 / CS8582 - Object Oriented Analysis and Design Laboratory

| C317 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C317.1 | 3 | 3 | 3 | 2 | 3 | - | - | - | - | - | - | - | 2 | 1 |
| C317.2 | 3 | 3 | 3 | 2 | 3 | - | - | - | - | - | - | - | 2 | 1 |
| C317.3 | 3 | 3 | 3 | 2 | 3 | - | - | - | - | - | - | - | 2 | 1 |
| C317.4 | 3 | 3 | 3 | 2 | 3 | - | - | - | - | - | - | - | 2 | 1 |
| C317.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 3 | 3 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |




PRINCIPAL
AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING

C318 / IT8611 MINI PROJECT

| C318 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C318.1 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | - | - | - | - | - | 2 | 2 |
| C318.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C318.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C318.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C318.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |

C319 / HS8581 Professional Communication

| C319 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C319.1 | - | - | - | - | - | - | - | - | - | 3 | - | - | 1 | - |
| C319.2 | - | - | - | - | - | - | - | - | 3 | - | - | - | 1 | - |
| C319.3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| C319.4 | - | - | 2 | - | 1 | - | - | - | - | - | - | - | 1 | - |
| C319.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 3 | 0 | 1 | 1 | 0 |

C401 / MG8591 Principles of Management

| C401 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C401.1 | - | - | - | - | - | - | - | 2 | 2 | 3 | 3 | 2 | 1 | 2 |
| C401.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C401.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C401.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C401.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 2 | 1 | 2 |

C402 / CS8792 Cryptography and Network Security

| C402 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C402.1 | 3 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C402.2 | 3 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C402.3 | 3 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C402.4 | 3 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C402.5 | 3 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| AVG | 3 | 3 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |




PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING.



C403 / CS8791 Cloud Computing

| C403 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C403.1 | 2 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C403.2 | 2 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C403.3 | 2 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C403.4 | 2 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| C403.5 | 2 | 3 | 3 | 2 | - | 2 | - | - | - | - | - | - | 2 | 1 |
| AVG | 2 | 3 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

C404 / OME752 Supply Chain Management

| C404 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C404.1 | - | - | 1 | - | - | - | 2 | - | 1 | 2 | 3 | - | 1 | 2 |
| C404.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C404.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C404.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C404.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 3 | 0 | 1 | 2 |

C405 / IT8075 Software Project Management

| C405 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C405.1 | - | - | - | - | - | - | - | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| C405.2 | - | - | - | - | - | - | - | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| C405.3 | - | - | - | - | - | - | - | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| C405.4 | - | - | - | - | - | - | - | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| C405.5 | - | - | - | - | - | - | - | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |

C406 / HX8001 - Professional Readiness for Industry Employability Enhancement

| C406 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C406.1 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2 |
| C406.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C406.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C406.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C406.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2 |




PRINCIPAL
AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING

C407 / IT8711 FOSS and Cloud Computing Laboratory

| C407 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C407.1 | 2 | 3 | 3 | 2 | 3 | 2 | - | - | - | - | - | - | 2 | 1 |
| C407.2 | 2 | 3 | 3 | 2 | 3 | 2 | - | - | - | - | - | - | 2 | 1 |
| C407.3 | 2 | 3 | 3 | 2 | 3 | 2 | - | - | - | - | - | - | 2 | 1 |
| C407.4 | 2 | 3 | 3 | 2 | 3 | 2 | - | - | - | - | - | - | 2 | 1 |
| C407.5 | 2 | 3 | 3 | 2 | 3 | 2 | - | - | - | - | - | - | 2 | 1 |
| AVG | 2 | 3 | 3 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

C408 / IT8761 Security Laboratory

| C408 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C408.1 | 3 | 3 | 3 | 2 | - | 3 | - | - | - | - | - | - | 2 | 1 |
| C408.2 | 3 | 3 | 3 | 2 | - | 3 | - | - | - | - | - | - | 2 | 1 |
| C408.3 | 3 | 3 | 3 | 2 | - | 3 | - | - | - | - | - | - | 2 | 1 |
| C408.4 | 3 | 3 | 3 | 2 | - | 3 | - | - | - | - | - | - | 2 | 1 |
| C408.5 | 3 | 3 | 3 | 2 | - | 3 | - | - | - | - | - | - | 2 | 1 |
| AVG | 3 | 3 | 3 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 |

C409 / GE8076 Professional Ethics in Engineering

| C409 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C409.1 | - | - | - | - | - | - | - | 3 | - | - | - | 3 | - | 1 |
| C409.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C409.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C409.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C409.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 1 |

C410 / CS8080 Information Retrieval Techniques

| C410 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C410.1 | 3 | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - |
| C410.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C410.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C410.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C410.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |




PRINCIPAL
AALIM MUHAMMAD SALEGH
COLLEGE OF ENGINEERING

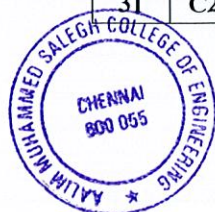


C411 / IT8811 Project Work

| C411 | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C411.1 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2 |
| C411.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C411.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C411.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C411.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AVG | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2 |

7. CO PO Matrices

| S. No | Course | Subject | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|-------|--------|---------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|------|
| 1 | C101 | HS8151 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 3 | 3 | 2 | 2 |
| 2 | C102 | MA8151 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| 3 | C103 | PH8151 | 3 | 3 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0.00 | 0 | 1 |
| 4 | C104 | CY8151 | 3 | 2 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 5 | C105 | GE8151 | 3 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6 | C106 | GE8152 | 3 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 7 | C107 | GE8161 | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8 | C108 | BS8161 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | C109 | HS8251 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 |
| 10 | C110 | MA8251 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| 11 | C111 | PH8252 | 3 | 3 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 12 | C112 | BE8255 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | C113 | IT8201 | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 2 |
| 14 | C114 | CS8251 | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 15 | C115 | GE8261 | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16 | C116 | CS8261 | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 17 | C117 | IT8211 | 3 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 18 | C201 | MA8351 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 19 | C202 | CS8351 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | C203 | CS8391 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | C204 | CS8392 | 2 | 2 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | C205 | EC8394 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | C206 | CS8381 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | C207 | CS8383 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | C208 | CS8382 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | C209 | HS8381 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 2.4 |
| 27 | C210 | MA8391 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | C211 | CS8491 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | C212 | CS8492 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | C213 | CS8451 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | C214 | CS8493 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |




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|----|------|--------|------|------|------|------|------|---|---|------|------|---|---|---|
| 32 | C215 | GE8291 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 33 | C216 | CS8481 | 3 | 2 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | C217 | CS8461 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | C218 | HS8461 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 2 |
| 36 | C301 | MA8551 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | C302 | CS8591 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | C303 | EC8691 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | C304 | IT8501 | 3 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | C305 | CS8494 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| 41 | C306 | OMD551 | 3 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | C307 | EC8681 | 3 | 2 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 | C308 | CS8581 | 3 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | C309 | IT8511 | 3.00 | 1.00 | 1.00 | 0 | 3.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | C310 | IT8601 | 3 | 3 | 3 | 3 | 0 | 2 | 0 | 0.00 | 0 | 0 | 0 | 0 |
| 46 | C311 | CS8592 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 | C312 | IT8602 | 3 | 2 | 3 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | C313 | CS8091 | 3 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | C314 | CS8092 | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | C315 | IT8076 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 51 | C316 | CS8662 | 1 | 0.00 | 2 | 0.00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | C317 | CS8582 | 3 | 3.00 | 3 | 2.00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | C318 | IT8611 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 0.00 | 0 | 0 | 0 |
| 54 | C319 | HS8581 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 3 | 0 | 1 |
| 55 | C401 | MG8591 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 2 |
| 56 | C402 | CS8792 | 3 | 3 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 | C403 | CS8791 | 2 | 3 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | C404 | OME752 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 3 | 0 |
| 59 | C405 | IT8075 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 1 |
| 60 | C406 | HX8001 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 |
| 61 | C407 | IT8711 | 2 | 3 | 3 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62 | C408 | IT8761 | 3 | 3 | 3 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | C409 | GE8076 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| 64 | C410 | CS8080 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | C411 | IT8811 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 |

PSO Mapping matrices

| S.No | Course | Subject | PSO1 | PSO2 |
|------|--------|---------|------|------|
| 1 | C101 | HS8151 | 2 | 2 |
| 2 | C102 | MA8151 | 2 | 2 |
| 3 | C103 | PH8151 | 2 | 2 |
| 4 | C104 | CY8151 | 0 | 1 |
| 5 | C105 | GE8151 | 3 | 0 |
| 6 | C106 | GE8152 | 2 | 0 |
| 7 | C107 | GE8161 | 3 | 0 |
| 8 | C108 | BS8161 | 2 | 0 |
| 9 | C109 | HS8251 | 2 | 1 |



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| | | | | |
|----|------|--------|------|------|
| 10 | C110 | MA8251 | 2 | 1 |
| 11 | C111 | PH8252 | 2 | 1 |
| 12 | C112 | BE8255 | 1 | 0 |
| 13 | C113 | IT8201 | 2 | 1 |
| 14 | C114 | CS8251 | 2 | 0 |
| 15 | C115 | GE8261 | 2 | 0 |
| 16 | C116 | CS8261 | 2 | 0 |
| 17 | C117 | IT8211 | 2 | 1 |
| 18 | C201 | MA8351 | 3 | 0 |
| 19 | C202 | CS8351 | 2 | 0 |
| 20 | C203 | CS8391 | 2 | 0 |
| 21 | C204 | CS8392 | 2 | 0 |
| 22 | C205 | EC8394 | 2 | 0 |
| 23 | C206 | CS8381 | 3 | 0 |
| 24 | C207 | CS8383 | 2 | 0 |
| 25 | C208 | CS8382 | 3 | 0 |
| 26 | C209 | HS8381 | 2 | 2 |
| 27 | C210 | MA8391 | 2 | 0 |
| 28 | C211 | CS8491 | 2 | 0 |
| 29 | C212 | CS8492 | 2 | 0 |
| 30 | C213 | CS8451 | 2 | 0 |
| 31 | C214 | CS8493 | 2 | 0 |
| 32 | C215 | GE8291 | 0 | 2 |
| 33 | C216 | CS8481 | 2 | 0 |
| 34 | C217 | CS8461 | 2 | 0 |
| 35 | C218 | HS8461 | 2 | 1 |
| 36 | C301 | MA8551 | 2 | 0 |
| 37 | C302 | CS8591 | 2 | 0 |
| 38 | C303 | EC8691 | 2 | 0 |
| 39 | C304 | IT8501 | 2 | 0 |
| 40 | C305 | CS8494 | 2 | 0 |
| 41 | C306 | OMD551 | 2 | 1 |
| 42 | C307 | EC8681 | 2 | 0 |
| 43 | C308 | CS8581 | 2 | 0 |
| 44 | C309 | IT8511 | 1.00 | 2.00 |
| 45 | C310 | IT8601 | 2 | 1 |
| 46 | C311 | CS8592 | 2 | 1 |
| 47 | C312 | IT8602 | 2 | 0 |
| 48 | C313 | CS8091 | 2 | 1 |
| 49 | C314 | CS8092 | 2 | 0 |
| 50 | C315 | IT8076 | 1.00 | 1.00 |
| 51 | C316 | CS8662 | 2 | 0 |
| 52 | C317 | CS8582 | 2.00 | 1 |
| 53 | C318 | IT8611 | 2 | 2 |
| 54 | C319 | HS8581 | 1 | 0.00 |
| 55 | C401 | MG8591 | 1 | 2 |
| 56 | C402 | CS8792 | 2 | 1 |
| 57 | C403 | CS8791 | 2 | 1 |




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|----|------|--------|---|---|
| 58 | C404 | OME752 | 1 | 2 |
| 59 | C405 | IT8075 | 1 | 1 |
| 60 | C406 | HX8001 | 2 | 2 |
| 61 | C407 | IT8711 | 2 | 1 |
| 62 | C408 | IT8761 | 2 | 1 |
| 63 | C409 | GE8076 | 0 | 1 |
| 64 | C410 | CS8080 | 2 | 0 |
| 65 | C411 | IT8811 | 2 | 2 |




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