CRITERION – 2 TEACHING – LEARNING AND EVALUATION

STUDENTS PERFORMANCE AND LEARNING OUTCOME

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. Graduates will be prepared for designing and developing efficient information technology systems and software with creativity and sustainability.
2. Graduates will be skilled in the use of modern tools for critical problem solving and analyzing industrial and societal requirements.
3. Graduates will be prepared with managerial and leadership skills for career and starting up own firms.

PROGRAM OUTCOMES (POs)

ENGINEERING GRADUATES WILL BE ABLE TO:

1. **Engineering Knowledge**: Apply the knowledge of mathematics,science,engineering fundamentals,and an engineering specialization to the solution of complex engineering problems.

2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **Ethics**: Apply ethical principles and committo professional ethics and responsibilities and norms of the engineering practice.

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, Tamil Nadu
Chennai-603 103.

9. **Individual and team work**: Function effectively as an individual, and as a member or leader indiverse teams, and in multidisciplinary settings.

10. **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.

11. **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.

12. **Life-long learning:** Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PROGRAM SPECIFIC OBJECTIVES (PSOs)

1. Apply the acquired knowledge and adapt modern tools to provide the innovative solutions in Networking and Cyber Security applications.
2. Design, implement and test mobile apps and software solutions for various automation applications.

Department of Information Technology

CO-PO Mapping

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
C105			GE8151- PROBLEM SOLVING AND PYTHON PROGRAMMING									
C105.1	3	3	3	3	2	0	0	2	0	0	0	0
C105.2	3	3	3	2	2	0	0	2	0	0	0	0
C105.3	3	3	3	2	2	0	0	2	0	0	0	0
C105.4	3	3	3	3	2	0	0	2	2	0	0	0
C105.5	3	3	3	3	2	0	0	2	2	0	0	0
C107			GE8161- PYTHON PROGRAMMING LABORATORY									
C107.1	3	3	3	0	2	0	0	0	0	0	0	0
C107.2	3	3	3	0	2	0	0	0	0	0	0	0
C107.3	3	3	3	0	2	0	0	0	0	0	0	0
C114			IT8201- INFORMATION TECHNOLOGY ESSENTIALS									
C114.1	3	3	3	3	2	0	0	2	0	0	0	0
C114.2	3	3	3	2	2	0	0	2	0	0	0	0
C114.3	3	3	3	2	2	0	0	2	0	0	0	0
C114.4	3	3	3	3	2	0	0	2	2	0	0	0
C114.5	3	3	3	3	2	0	0	2	2	0	0	0
C115			CS8251 - PROGRAMMING IN C									
C115.1	3	3	3	3	2	0	0	2	0	0	0	0

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C115.2	3	3	3	2	2	0	0	2	0	0	0	0
C115.3	3	3	3	2	2	0	0	2	0	0	0	0
C115.4	3	3	3	3	2	0	0	2	2	0	0	0
C115.5	3	3	3	3	2	0	0	2	2	0	0	0
C117			CS8261- C PROGRAMMING LABORATORY									
C117.1	3	3	3	0	2	0	0	0	0	0	0	0
C117.2	3	3	3	0	2	0	0	0	0	0	0	0
C117.3	3	3	3	0	2	0	0	0	0	0	0	0
C118			IT8211 - INFORMATION TECHNOLOGY ESSENTIALS LABORATORY									
C118.1	3	3	3	0	2	0	0	0	0	0	0	0
C118.2	3	3	3	0	2	0	0	0	0	0	0	0
C118.3	3	3	3	0	2	0	0	0	0	0	0	0
C201			MA8351- DISCRETE MATHEMATICS									
C201.1	3	3	3	0	2	0	0	0	0	0	0	0
C201.2	3	3	3	0	2	0	0	0	0	0	0	0
C201.3	1	3	3	0	2	0	0	0	0	0	0	0
C201.4	1	2	3	0	2	0	0	0	0	0	0	0
C201.5	1	2	3	0	2	0	0	0	0	0	0	0
C202			CS8351- DIGITAL PRINCIPLES AND SYSTEM DESIGN									
C202.1	3	2	1	0	0	0	0	0	0	0	0	1
C202.2	3	2	1	0	1	0	0	0	0	0	0	0
C202.3	3	2	1	0	1	0	0	0	0	0	0	0
C202.4	3	2	1	0	0	0	0	0	0	0	0	0
C202.5	2	1	1	0	0	0	0	0	0	0	0	1
C203			CS8391 - DATA STRUCTURES									
C203.1	3	2	1	0	0	0	0	0	0	0	0	0
C203.2	3	2	1	0	0	0	0	0	0	0	0	0
C203.3	3	2	1	0	0	0	0	0	0	0	0	0
C203.4	3	2	1	0	0	0	0	0	0	0	0	0
C203.5	3	2	1	0	0	0	0	0	0	0	0	0
C204			CS8383 - OBJECT ORIENTED PROGRAMMING									
C204.1	3	3	2	2	2	0	0	0	0	0	0	0
C204.2	3	3	2	2	2	0	0	0	0	0	0	0
C204.3	3	3	2	2	2	0	0	0	0	0	2	0
C204.4	3	3	2	2	2	0	0	0	0	0	2	0
C204.5	3	3	2	2	2	1	0	0	0	0	2	2
C205			EC8393 - ANALOG AND DIGITAL COMMUNICATION									
C205.1	3	3	2	0	0	0	0	0	0	0	0	0
C205.2	3	3	2	0	0	0	0	0	0	0	0	0
C205.3	3	3	2	0	0	0	0	0	0	0	0	1
C205.4	3	3	2	0	0	0	0	0	0	0	0	0
C205.5	3	3	1	0	1	0	0	0	0	0	0	1
C206			CS 8381- DATA STRUCTURES LABORATORY									
C206.1	3	3	3	0	0	0	0	0	0	0	0	0
C206.2	3	3	3	0	0	0	0	0	0	0	0	0
C206.3	3	3	3	0	0	0	0	0	0	0	0	0
C207			CS 8383- OBJECT ORIENTED PROGRAMMING LABORATORY									

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C207.1	3	2	3	0	3	0	0	0	0	0	0	0
C207.2	3	2	3	0	3	0	0	0	0	0	0	0
C207.3	3	2	3	0	3	0	0	0	0	0	0	0
C208			CS8382 - DIGITAL SYSTEMS LABORATORY									
C208.1	3	3	3	2	2	0	0	0	2	2	0	2
C208.2	3	3	3	2	2	0	0	0	2	2	0	2
C208.3	3	3	3	2	2	0	0	0	2	2	0	2
209			HS8381- INTERPERSONAL SKILLS- LISTENING AND SPEAKING									
C209.1	0	0	0	0	0	0	0	0	2	3	2	3
C209.2	0	0	0	0	0	0	0	0	2	3	3	3
C209.3	0	0	0	0	0	0	0	0	3	3	3	3
C210			MA8391 - PROBABILITY AND STATISTICS									
C210.1	1	0	3	0	0	0	0	0	0	0	0	0
C210.2	1	2	3	0	0	0	0	0	0	0	0	0
C210.3	3	2	0	0	0	0	0	0	0	0	0	0
C210.4	2	0	0	0	0	0	0	0	0	0	0	0
C210.5	3	0	1	0	0	0	0	0	0	0	0	0
211			CS8491- COMPUTER ARCHITECTURE									
C211.1	3	2	2	0	0	0	0	0	0	0	0	0
C211.2	3	2	2	0	0	0	0	0	0	0	0	0
C211.3	3	2	2	0	0	0	0	0	0	0	0	0
C211.4	3	2	2	0	0	0	0	0	0	0	0	0
C211.5	3	2	2	0	0	0	0	0	0	0	0	0
C212			CS8492- DATABASE MANAGEMENT SYSTEMS									
C212.1	3	2	1	0	0	0	0	0	0	0	2	1
C212.2	3	2	1	0	0	0	0	0	0	0	2	1
C212.3	3	2	1	0	0	0	0	0	0	0	2	1
C212.4	3	2	1	0	0	0	0	0	0	0	2	1
C212.5	3	2	1	0	0	0	0	0	0	0	2	1
C213			CS8451 - DESIGN OF ANALYSIS AND ALGORITHM									
C213.1	3	2	1	0	0	0	0	0	0	0	0	0
C213.2	3	2	1	0	0	0	0	0	0	0	0	0
C213.3	3	2	1	0	0	0	0	0	0	0	0	0
C213.4	3	2	1	0	0	0	0	0	0	0	0	1
C213.5	3	2	1	0	0	1	0	0	0	0	0	0
C214			CS8493- OPERATING SYSTEM									
C214.1	3	1	3	0	0	0	0	0	0	0	0	0
C214.2	3	1	3	0	0	0	0	0	0	0	0	0
C214.3	3	1	3	0	0	0	0	0	0	0	0	0
C214.4	3	1	3	0	0	0	0	0	0	0	0	0
C214.5	3	1	3	0	0	0	0	0	0	0	0	0
C215			GE8291 - ENVIRONMENTAL SCIENCE									
C215.1	3	2	0	0	0	1	1	1	0	0	0	2
C215.2	2	2	0	0	0	1	1	0	2	0	0	2
C215.3	3	3	0	0	0	1	1	0	1	0	0	2
C215.4	2	2	0	0	0	1	1	0	1	0	0	3
C215.5	2	2	0	0	0	1	1	1	0	0	0	2

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C216			CS 8492 - DATABASE MANAGEMENT SYSTEMS LABORATORY									
C216.1	3	2	3	0	0	0	0	0	0	0	0	0
C216.2	3	2	3	0	0	0	0	0	0	0	0	0
C216.3	3	2	3	0	0	0	0	0	0	0	0	0
C217			CS 8461- OPERATING SYSTEMS LABORATORY									
C217.1	3	1	3	0	2	0	0	0	0	0	0	0
C217.2	3	1	3	0	2	0	0	0	0	0	0	0
C217.3	3	1	3	0	2	0	0	0	0	0	0	0
C218			HS 8381 - ADVANCED READING AND WRITING									
C218.1	0	0	0	0	0	0	0	0	0	0	3	0	3
C218.2	0	0	0	0	0	0	0	0	0	0	3	0	3
C218.3	0	0	0	0	0	0	0	0	0	0	3	0	3
C301			MA8551- ALGEBRA AND NUMBER THEORY									
C301.1	3	3	2	0	0	0	0	0	0	0	0	0
C301.2	3	3	2	0	0	0	0	0	0	0	0	0
C301.3	3	3	2	0	0	0	0	0	0	0	0	0
C301.4	3	3	2	0	0	0	0	0	0	0	0	0
C301.5	3	3	2	0	0	0	0	0	0	0	0	0
C302			CS8591- COMPUTER NETWORKS									
C302.1	3	3	3	3	2	0	0	2	0	0	0	0
C302.2	3	3	3	2	2	0	0	2	0	0	0	0
C302.3	3	3	3	2	2	0	0	2	0	0	0	0
C302.4	3	3	3	3	2	0	0	2	2	0	0	0
C302.5	3	3	3	2	2	0	0	2	2	0	0	0
C303			CS8691 - MICRO PROCESSOR AND MICRO CONTROLLER									
C303.1	3	2	3	0	0	0	0	0	0	0	0	0
C303.2	3	2	2	0	0	0	0	0	0	0	0	0
C303.3	3	2	3	0	0	0	0	0	0	0	0	0
C303.4	3	2	3	0	0	0	0	0	0	0	0	0
C303.5	3	2	3	0	0	0	0	0	0	0	0	0
C304			IT8501 - WEB TECHNOLOGY									
C304.1	3	2	2	2	2	0	1	2	2	2	2	2
C304.2	3	2	2	2	2	0	1	2	2	2	2	2
C304.3	3	2	2	2	2	0	1	2	2	2	2	2
C304.4	3	2	2	2	2	0	1	2	2	2	2	2
C304.5	3	2	2	2	2	0	1	2	2	2	2	2
C305			CS8494 - SOFTWARE ENGINEERING									
C305.1	3	2	1	0	0	0	0	0	0	0	0	0
C305.2	3	2	1	0	0	0	0	0	0	0	0	0
C305.3	3	2	1	0	0	0	0	0	0	0	0	0
C305.4	3	2	1	0	0	0	0	0	0	0	0	1
C305.5	3	2	1	1	0	0	0	0	0	0	0	0
C306			OME551 ENERGY MANAGEMENT AND CONSERVATION									
C306.1	3	3	2	0	2	0	1	0	0	0	0	2
C306.2	3	3	3	0	2	0	2	0	0	0	0	2

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C306.3	3	3	3	0	1	0	2	0	0	0	0	1
C306.4	3	3	2	0	2	0	0	0	0	0	0	2
C306.5	3	3	2	0	2	0	1	0	0	0	0	1
C307			EC8691 - MICRO PROCESSOR AND MICRO CONTROLLER LABORATORY									
C307.1	3	2	2	1	1	0	0	0	0	0	0	0
C307.2	3	2	2	1	0	0	0	0	0	0	1	1
C307.3	3	2	2	2	2	2	0	0	0	0	1	2
C308			CS8581 - COMPUTER NETWORKS LABORATORY									
C308.1	3	3	3	3	3	0	0	0	2	0	0	2
C308.2	3	3	3	2	3	0	0	0	2	0	0	2
C308.3	3	3	3	3	3	0	0	0	2	0	0	2
C309			IT8511- WEB TECHNOLOGY LABORATORY									
C309.1	3	1	1	3	0	0	0	0	0	0	0	0
C309.2	3	1	1	3	0	0	0	0	0	0	0	0
C309.3	3	1	1	3	0	0	0	0	0	0	0	0
C310			IT8601 - COMPUTATIONAL INTELLIGENCE									
C310.1	3	2	1	0	0	0	0	0	0	0	0	0
C310.2	3	2	1	0	0	0	0	0	0	0	0	0
C310.3	3	2	1	0	0	0	0	0	0	0	0	0
C310.4	3	2	1	0	0	0	0	0	0	0	0	1
C310.5	3	2	1	1	0	0	0	0	0	0	0	0
C311			CS8592- OBJECT ORIENTED ANALYSIS AND DESIGN									
C311.1	3	3	2	2	2	0	0	0	0	0	0	2
C311.2	3	3	2	2	2	0	0	0	0	0	0	2
C311.3	3	3	2	2	2	0	0	0	0	0	2	2
C311.4	3	3	2	2	2	0	0	0	0	0	2	2
C311.5	3	3	2	2	2	0	0	0	0	0	2	3
C312			IT8602- MOBILE COMMUNICATION									
C312.1	3	2	2	0	0	0	0	0	0	0	2	0
C312.2	3	2	2	0	0	0	0	0	0	0	2	0
C312.3	3	2	2	0	0	0	0	0	0	0	2	0
C312.4	3	2	2	0	0	0	0	2	2	2	2	0
C312.5	3	2	2	0	0	0	0	0	0	0	0	0
C313			CS8091 - BIGDATA ANALYTICS									
C313.1	3	2	1	0	0	0	0	0	0	0	0	0
C313.2	3	2	1	0	0	0	0	0	0	0	0	0
C313.3	3	2	1	0	0	0	0	0	0	0	0	0
C313.4	3	2	1	0	0	0	0	0	0	0	0	1
C313.5	3	2	1	0	0	1	0	0	0	0	0	0
C314			CS8092 - COMPUTER GRAPHICS AND MULTIMEDIA									
C314.1	3	2	1	0	0	0	0	0	0	0	0	0
C314.2	3	2	1	0	0	0	0	0	0	0	0	0
C314.3	3	2	1	0	0	0	0	0	0	0	0	0
C314.4	3	2	1	0	0	0	0	0	0	0	0	1
C314.5	3	2	1	0	0	1	0	0	0	0	0	0

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C315			CS8582 - OBJECT ORIENTED ANALYSIS AND DESIGN									
C315.1	3	3	3	0	0	0	0	0	0	0	0	0
C315.2	3	3	3	0	0	0	0	0	0	0	0	0
C315.3	3	3	3	0	0	0	0	0	0	0	0	0
C316			CS8662- MOBILE APPLICATION DEVELOPMENT LABORATORY									
C316.1	3	3	3	3	3	0	0	0	2	0	0	2
C316.2	3	3	3	2	3	0	0	0	2	0	0	2
C316.3	3	3	3	3	3	0	0	0	2	0	0	2
C317			CS8582 -OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY									
C317.1	3	3	3	3	3	0	0	0	2	0	0	2
C317.2	3	3	3	2	3	0	0	0	2	0	0	2
C317.3	3	3	3	3	3	0	0	0	2	0	0	2
C318			IT8611- MINI PROJECT									
C318.1	3	3	3	3	3	2	2	1	3	3	3	2
C318.2	3	3	3	3	3	2	2	1	3	3	3	2
C318.3	3	3	3	3	3	2	2	1	3	3	3	2
C319			HS8581 -PROFESSIONAL COMMUNICATION									
C319.1	0	0	0	0	0	0	0	0	2	3	2	3
C319.2	0	0	0	0	0	0	0	0	2	3	2	3
C319.3	0	0	0	0	0	0	0	0	2	3	2	3
C401			MG8591- PRINCIPLES OF MANAGEMENT									
C401.1	0	0	0	0	0	3	2	2	1	1	0	2
C401.2	0	0	0	0	0	3	2	2	1	1	0	2
C401.3	0	0	0	0	0	3	2	2	1	1	0	2
C401.4	0	0	0	0	0	3	2	2	1	1	0	2
C401.5	0	0	0	0	0	3	2	2	1	1	0	2
C402			CS8792- CRYPTOGRAPHY AND NETWORK SECURITY									
C402.1	3	2	2	1	1	0	0	0	0	0	0	0
C402.2	3	2	2	1	1	0	0	0	0	0	0	0
C402.3	3	2	2	1	1	0	2	2	2	2	2	2
C402.4	3	2	2	1	1	0	0	0	0	0	0	1
C402.5	3	2	2	1	1	0	0	0	0	0	0	0
C403			CS8791- CLOUD COMPUTING									
C403.1	3	2	2	1	0	0	0	0	0	0	0	0
C403.2	3	2	2	1	0	0	0	0	0	0	0	0
C403.3	3	2	2	1	2	0	0	0	0	0	0	0
C403.4	3	2	2	1	2	0	0	0	0	0	0	0
C403.5	3	2	2	1	3	0	0	0	0	0	0	0
C404			OCH752- ENERGY TECHNOLOGY									
C404.1	3	2	2	0	0	0	0	0	3	2	3	0
C404.2	3	2	2	0	0	0	0	0	3	2	3	0
C404.3	3	2	2	0	0	0	2	2	3	2	3	2
C404.4	3	2	2	0	0	0	0	0	3	2	3	1
C404.5	3	2	2	0	0	0	0	0	3	2	3	0

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Sirusen
Chennai-603 103.

C405			CS8079- SOFTWARE PROJECT MANAGEMENT									
C405.1	2	2	2	0	0	0	0	0	3	3	3	0
C405.2	2	2	2	0	0	0	0	0	3	3	3	0
C405.3	2	2	2	0	0	0	2	2	3	3	3	2
C405.4	2	2	2	0	0	0	0	0	3	3	3	1
C405.5	2	2	2	0	0	0	0	0	3	3	3	0
C406			CS8079- HUMAN COMPUTER INTERACTION									
C406.1	3	2	2	0	0	0	0	0	0	0	0	0
C406.2	3	2	2	0	0	0	0	0	0	0	0	0
C406.3	3	2	2	0	0	0	0	0	0	0	0	0
C406.4	3	2	2	0	0	0	0	0	0	0	0	0
C406.5	3	2	2	0	0	0	0	0	0	0	0	0
C407			IT8711 -FOSS AND CLOUD COMPUTING LABORATORY									
C407.1	3	3	3	0	2	0	0	0	0	0	0	0
C407.2	3	3	3	0	2	0	0	0	0	0	0	0
C407.3	3	3	3	0	2	0	0	0	0	0	0	0
C408			IT8761 – SECURITY LABORATORY									
C408.1	1	1	1	0	0	0	0	0	0	0	0	3
C408.2	1	1	1	2	0	0	0	0	0	0	0	3
C408.3	2	2	1	3	0	0	0	0	0	0	0	3
C409			GE8076- PROFESSIONAL ETHICS IN ENGINEERING									
C409.1	0	0	0	0	0	3	2	2	1	1	0	2
C409.2	0	0	0	0	0	3	2	2	1	1	0	2
C409.3	0	0	0	0	0	3	2	2	1	1	0	2
C409.4	0	0	0	0	0	3	2	2	1	1	0	2
C409.5	0	0	0	0	0	3	2	2	1	1	0	2
C410			CS8080- INFORMATION RETRIEVAL TECHNIQUES									
C410.1	3	2	2	1	1	0	0	0	0	0	0	0
C410.2	3	2	2	1	1	0	0	0	0	0	0	0
C410.3	3	2	2	1	1	0	2	2	2	2	2	2
C410.4	3	2	2	1	1	0	0	0	0	0	0	1
C410.5	3	2	2	1	1	1	0	0	0	0	0	0
C411			IT8811- PROJECT WORK									
C411.1	3	3	3	3	3	2	2	1	3	3	3	2
C411.2	3	3	3	3	3	2	2	1	3	3	3	2
C411.3	3	3	3	3	3	2	2	1	3	3	3	2

CO-PSO Mapping

COs	PSO 1	PSO 2
C105 /GE8151- PROBLEM SOLVING AND PYTHON PROGRAMMING		
C105.1	3	2
C105.2	3	2

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C105.3	3	2
C105.4	3	2
C105.5	3	2
C107/ PYTHON PROGRAMMING LABORATORY		
C107.1	3	2
C107.2	3	2
C107.3	3	2
C114/ INFORMATION TECHNOLOGY ESSENTIALS		
C114.1	3	2
C114.2	3	2
C114.3	3	2
C114.4	3	2
C114.5	3	2
C115/ PROGRAMMING IN C		
C115.1	3	3
C115.2	3	3
C115.3	3	3
C115.4	3	3
C115.5	3	3
C117/ C PROGRAMMING LABORATORY		
C117.1	3	2
C117.2	3	2
C117.3	3	2
C118/ INFORMATION TECHNOLOGY ESSENTIALS LABORATORY		
C118.1	3	2
C118.2	3	2
C118.3	3	2
C201/ DISCREATE MATHEMATICS		
C201.1	3	3
C201.2	3	3
C201.3	1	3
C201.4	1	2
C201.5	1	2
C202/ DIGITAL PRINCIPLES AND SYSTEM DESIGN		
C202.1	2	1
C202.2	2	1
C202.3	2	1
C202.4	2	1
C202.5	2	1
C203/ DATA STRUCTURES		
C203.1	2	3
C203.2	2	3
C203.3	2	3
C203.4	2	3

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C203.5	2	3
C204/ OBJECT ORIENTED PROGRAMMING		
C204.1	3	2
C204.2	3	2
C204.3	3	1
C204.4	3	1
C204.5	3	1
C205/ ANALOG AND DIGITAL COMMUNICATION		
C205.1	0	0
C205.2	0	0
C205.3	1	0
C205.4	0	0
C205.5	0	0
C206/DATA STRUCTURES LABORATORY		
C206.1	3	2
C206.2	3	2
C206.3	3	2
C207/ OBJECT ORIENTED PROGRAMMING LABORATORY		
C207.1	3	2
C207.2	3	2
C207.3	3	2
C208 /DIGITAL SYSTEMS LABORATORY		
C208.1	1	2
C208.2	1	2
C208.3	1	2
C209// INTERPERSONAL SKILLS-LISTENING AND SPEAKING		
C209.1	0	0
C209.2	0	0
C209.3	0	0
C210/ PROBABILITY AND STATISTICS		
C210.1	0	0
C210.2	0	0
C210.3	0	0
C210.4	0	0
C210.5	0	0
C211/ COMPUTER ARCHITECTURE		
C211.1	3	2
C211.2	3	2
C211.3	3	2
C211.4	3	2
C211.5	3	2
C212/ DATABASE MANAGEMENT SYSTEMS		
C212.1	2	2
C212.2	2	3
C212.3	2	2

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C212.4	2	2
C212.5	2	2
C213/ DESIGN OF ANALYSIS AND ALGORITHM		
C213.1	3	2
C213.2	2	2
C213.3	2	2
C213.4	2	2
C213.5	2	2
C214/ OPERATING SYSTEMS		
C214.1	3	2
C214.2	3	2
C214.3	3	2
C214.4	3	2
C214.5	3	2
C215/ ENVIRONMENTAL SCIENCE		
C215.1	0	0
C215.2	0	0
C215.3	0	0
C215.4	0	0
C215.5	0	0
C216/ DATABASE MANAGEMENT SYSTEMS LABORATORY		
C216.1	2	1
C216.2	2	1
C216.3	2	1
C217/ OPERATING SYSTEMS LABORATORY		
C217.1	3	2
C217.2	3	2
C217.3	3	2
C218/ ADVANCED READING AND WRITING		
C218.1	0	0
C218.2	0	0
C218.3	0	0
C301/ ALGEBRA AND NUMBER THEORY		
C301.1	0	0
C301.2	0	0
C301.3	0	0
C301.4	0	0
C301.5	0	0
C302/ COMPUTER NETWORKS		
C302.1	3	3
C302.2	3	3
C302.3	3	3
C302.4	3	3
C302.5	3	3
C303/ MICRO PROCESSOR AND MICRO		

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

CONTROLLER		
C303.1	0	0
C303.2	0	0
C303.3	0	0
C303.4	0	0
C303.5	1	0
C304/ WEB TECHNOLOGY		
C304.1	2	3
C304.2	2	3
C304.3	2	3
C304.4	2	3
C304.5	2	3
C305/ SOFTWARE ENGINEERING		
C305.1	3	2
C305.2	3	2
C305.3	3	2
C305.4	3	2
C305.5	3	2
C306/ ENERGY MANAGEMENT AND CONSERVATION		
C306.1	0	0
C306.2	0	0
C306.3	0	0
C306.4	0	0
C306.5	0	0
C307/ MICRO PROCESSOR AND MICRO CONTROLLER LABORATORY		
C307.1	0	0
C307.2	1	0
C307.3	0	2
C308/ COMPUTER NETWORKS LABORATORY		
C308.1	3	2
C308.2	3	2
C308.3	3	2
C309/ WEB TECHNOLOGY LABORATORY		
C309.1	3	2
C309.2	3	2
C309.3	3	2
C310/ COMPUTATIONAL INTELLIGENCE		
C310.1	3	2
C310.2	3	2
C310.3	3	2
C310.4	3	2
C310.5	3	2
C311/ OBJECT ORIENTED ANALYSIS AND DESIGN		
C311.1	3	0

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C311.2	3	0
C311.3	3	0
C311.4	3	0
C311.5	3	0
C312/ MOBILE COMMUNICATION		
C312.1	1	3
C312.2	1	3
C312.3	1	3
C312.4	1	3
C312.5	1	3
C313/ BIGDATA ANALYTICS		
C313.1	3	2
C313.2	3	2
C313.3	3	2
C313.4	3	2
C313.5	3	2
C314/ COMPUTER GRAPHICS AND MULTIMEDIA		
C314.1	3	2
C314.2	3	2
C314.3	3	2
C314.4	3	2
C314.5	3	2
C315/ OBJECT ORIENTED ANALYSIS AND DESIGN		
C315.1	3	2
C315.2	3	2
C315.3	3	2
C316/ MOBILE APPLICATION DEVELOPMENT LABORATORY		
C316.1	3	2
C316.2	3	2
C316.3	3	2
C317/OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY		
C317.1	3	2
C317.2	3	2
C317.3	3	2
C318/ MINI PROJECT		
C318.1	3	2
C318.2	3	2
C318.3	3	2
C319/ PROFESSIONAL COMMUNICATION		
C319.1	0	0
C319.2	0	0
C319.3	0	0
C401/ PRINCIPLES OF MANAGEMENT		

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C401.1	0	0
C401.2	0	0
C401.3	0	0
C401.4	0	0
C401.5	0	0
C402/ CRYPTOGRAPHY AND NETWORK SECURITY		
C402.1	3	2
C402.2	3	2
C402.3	3	2
C402.4	3	2
C402.5	3	2
C403/ CLOUD COMPUTING		
C403.1	3	2
C403.2	3	2
C403.3	3	2
C403.4	3	2
C403.5	3	2
C404/ ENERGY TECHNOLOGY		
C404.1	3	2
C404.2	3	2
C404.3	3	2
C404.4	3	2
C404.5	3	2
C405/ SOFTWARE PROJECT MANAGEMENT		
C405.1	2	2
C405.2	2	2
C405.3	2	2
C405.4	2	2
C405.5	2	2
C406/ HUMAN COMPUTER INTERACTION		
C406.1	3	2
C406.2	3	2
C406.3	3	2
C406.4	3	2
C406.5	3	2
C407/ FOSS AND CLOUD COMPUTING LABORATORY		
C407.1	3	3
C407.2	3	3
C407.3	3	3
C408/NETWORK SECURITY LABORATORY		
C408.1	1	1
C408.2	1	1
C408.3	2	2

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

C409/ PROFESSIONAL ETHICS IN ENGINEERING		
C409.1	0	0
C409.2	0	0
C409.3	0	0
C409.4	0	0
C409.5	0	0
C410/ INFORMATION RETRIEVAL TECHNIQUES		
C410.1	3	2
C410.2	3	2
C410.3	3	2
C410.4	3	2
C410.5	3	2
C411/ PROJECT WORK		
C411.1	3	3
C411.2	3	3
C411.3	3	3

PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.