H.K.E. Society's Sir M. Visvesvaraya College of Engineering

| Department of Computer Science and Engineering Table 1: Course Outcomes | n.n.e. | UG Course Outcomes for 2023-24 Courses |
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| Table 1: Course Outcomes Class COMPUTER SCIENCE AND ENGINEERING Semester I Course Name Course Code BMATS101 Course Outcome # Cour | | |
| Course Name | | |
| Course Outcome # Course | Class | |
| Course Outcome # Course Outcome CO1 apply the knowledge of calculus to solve problems related to polar curves andlearn the notion of partial differentiation to compute rate of change of multivariate functions analyze the solution of linear and nonlinear ordinary differential equations CO2 apply the knowledge of calculus to solve problems related to polar curves andlearn the notion of partial differentiation to compute rate of change of multivariate functions CO3 get acquainted and to apply modular arithmetic to computer algorithms make use of matrix theory for solving the system of linear equations and compute elgenvalues and elgenvectors GO5 familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/ PYTHON SCILAB Table 1: Course Outcomes Class COMPUTER SCIENCE AND ENGINEERING Semester I COURSE Outcome # Course Outcome CO1 Describe the principles of LASERS and Optical fibers and their relevant applications. CO2 Discuss the basic principles of the Quantum Mechanics and its application in Quantum Computing CO3 Summarize the essential properties of superconductors and its applications in qubits. CO4 Illustrate the application of physics in design and data analysis. CO5 Practice working in groups to conduct experiments in physics and perform precise and honest measurements. Table 1: Course Outcomes Class COMPUTER SCIENCE AND ENGINEERING Semester I CO1 Describe of Programming using C Course Outcome # Course Outcome CO2 Elucidate the basic architecture and functionalities of a computer and also recognize the hardware parts. Apply programming constructs of C language to solve the real world problem Explore user-defined data structures like arrays in implementing solutions to problems I searching and sorting Explore user-defined data structures like arrays in implementing solutions to problems of the production of the production of the production of the production of the course Outcome B Course Outcome B Course Outcome Course Outcome Course Code BESCK104C CO3 Explore to the chandentin | Semester | I |
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| apply the knowledge of calculus to solve problems related to polar curves andlearn the notion of partial differentiation to compute rate of change of multivariate functions analyze the solution of linear and nonlinear ordinary differential equations (CO3 get acquainted and to apply modular arithmetic to computer algorithms make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors CO5 familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/ PYTHON SCILAB Table 1: Course Outcomes COS COMPUTER SCIENCE AND ENGINEERING Semester I COURSE Name PHYSICS for CSE STREAM COURSE OUTCOME # CO1 Describe the principles of LASERS and Optical fibers and their relevant applications. CO2 Discuss the basic principles of the Quantum Mechanics and its application in Quantum Computing CO3 Summarize the essential properties of superconductors and its applications in Quantum Computing CO4 Illustrate the application of physics in design and data analysis. CO5 Practice working in groups to conduct experiments in physics and perform precise and honest measurements. Table 1: Course Outcomes COMPUTER SCIENCE AND ENGINEERING Course Outcome # Course Outcome CO1 Elucidate the basic architecture and functionalities of a computer and also recognize the hardware parts. CO2 Course Outcome # Course Outcome CO3 Explore user-defined data structures like arrays in implementing solutions to problems I searching and sorting CO4 Elpy programming constructs of C language to solve the real world problem Explore user-defined data structures like structures, unions and pointers in implementing solutions CO5 Design and Develop Solutions to problems using modular programming constructs using functions Table 1: Course Outcomes CO6 Explore user-defined data structures like structures, unions and pointers in implementing solutions CO7 Design and Develop Solutions to problems using modular programming constructs using functions Table 1: Course Outcomes CO8 Design and Develop S | Course Code | BMATS101 |
| apply the knowledge of calculus to solve problems related to polar curves andlearn the notion of partial differentiation to compute rate of change of multivariate functions analyze the solution of linear and nonlinear ordinary differential equations (CO3 get acquainted and to apply modular arithmetic to computer algorithms make use of matrix theory for solving the system of linear equations and compute eigenvalues and eigenvectors CO5 familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/ PYTHON SCILAB Table 1: Course Outcomes COS COMPUTER SCIENCE AND ENGINEERING Semester I COURSE Name PHYSICS for CSE STREAM COURSE OUTCOME # CO1 Describe the principles of LASERS and Optical fibers and their relevant applications. CO2 Discuss the basic principles of the Quantum Mechanics and its application in Quantum Computing CO3 Summarize the essential properties of superconductors and its applications in Quantum Computing CO4 Illustrate the application of physics in design and data analysis. CO5 Practice working in groups to conduct experiments in physics and perform precise and honest measurements. Table 1: Course Outcomes COMPUTER SCIENCE AND ENGINEERING Course Outcome # Course Outcome CO1 Elucidate the basic architecture and functionalities of a computer and also recognize the hardware parts. CO2 Course Outcome # Course Outcome CO3 Explore user-defined data structures like arrays in implementing solutions to problems I searching and sorting CO4 Elpy programming constructs of C language to solve the real world problem Explore user-defined data structures like structures, unions and pointers in implementing solutions CO5 Design and Develop Solutions to problems using modular programming constructs using functions Table 1: Course Outcomes CO6 Explore user-defined data structures like structures, unions and pointers in implementing solutions CO7 Design and Develop Solutions to problems using modular programming constructs using functions Table 1: Course Outcomes CO8 Design and Develop S | | |
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| Semester | | Table 1: Course Outcomes |
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| CO2 Present the basics of digital logic engineering including data representation, circuits and microcontroller system with associated sensors and actuators CO3 Discuss the characteristics and technological advances of embedded systems. Relate to the fundamentals of communication engineering spanning from the frequency | CO1 | |
| microcontroller system with associated sensors and actuators CO3 Discuss the characteristics and technological advances of embedded systems. Relate to the fundamentals of communication engineering spanning from the frequency | 202 | |
| CO3 Discuss the characteristics and technological advances of embedded systems. Relate to the fundamentals of communication engineering spanning from the frequency | CO2 | |
| Relate to the fundamentals of communication engineering spanning from the frequency | C03 | · · · · · · · · · · · · · · · · · · · |
| | | Relate to the fundamentals of communication engineering spanning from the frequency |
| | C05 | Explain the different modes of communications from wired to wireless and the computing |

| | Table 1: Course Outcomes |
|------------------|---|
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | I |
| Course Name | Introduction to Internet of Things (IOT) |
| Course Code | BETCK105H |
| course code | DETCKION |
| Course Outcome # | Course Outcome |
| C01 | |
| C01 | Describe the evolution of IoT, IoT networking components, and addressing strategies in IoT. |
| CO2 | Classify various sensing devices and actuator types. |
| CO3 | Demonstrate the processing in IoT. |
| CO4 | Explain Associated IOT Technologoes |
| CO5 | Illustrate architecture of IOT Applications |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | I |
| Course Name | Communicative English |
| Course Code | BENGK106 |
| 0 0 " | |
| Course Outcome # | Course Outcome |
| CO1 | Understand and apply the Fundamentals of Communication Skills in their communication skills. |
| CO2 | Identify the nuances of phonetics, intonation and enhance pronunciation skills. |
| CO2 | To impart basic English grammar and essentials of language skills as per present |
| CO3 | requirement |
| CO4 | Understand and use all types of English vocabulary and language proficiency. |
| CO5 | Adopt the Techniques of Information Transfer through presentation. |
| 003 | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | I |
| Course Name | INNOVATIVE & DESIGN THINKING |
| Course Code | BIDTK158 |
| | |
| Course Outcome # | Course Outcome |
| C01 | Appreciate various design process procedure |
| CO2 | Generate and develop design ideas through different technique |
| C03 | Identify the significance of reverse Engineering to Understand products |
| C04 | Draw technical drawing for design ideas |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | Mathematics - II for CSE Stream |
| Course Code | BMATS201 |
| | |
| Course Outcome # | Course Outcome |
| CO1 | Apply the concept of change of order of integration and variables to evaluate multiple |
| | integrals and their usage in computing area and volume. |
| CO2 | Understand the applications of vector calculus refer to solenoidal, and irrotational |
| | vectors.Orthogonal curvilinear coordinates |
| CO3 | Demonstrate the idea of Linear dependence and independence of sets in the vector space, |
| | and linear transformation |
| CO4 | Apply the knowledge of numerical methods in analysing the discrete data and solving the |
| | physical and engineering problems. Get familiarize with modern mathematical tools namely MATHEMATICA/ MATLAB |
| CO5 | /PYTHON/ SCILAB |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | CHEMISTRY FOR CSE STREAM |
| Course Code | BCHES202 |
| | |
| Course Outcome # | Course Outcome |
| CO1 | Identitfy the terms & applications process involved in scientific and engineering. |
| | Account of the terms of approximations process involved in scientific and engineering. |
| CO2 | Explain the phenomena of chemistry to describe the methods of engineering processes. |
| C03 | Solvetheproblemsinchemistrythatarepertinentinengineeringapplications |
| CO4 | Applythebasicconceptsofchemistrytoexplainthechemicalpropertiesandprocesses |
| | Analyze properties and multidi processes associated withchemical substances in sciplinary |
| CO5 | situations. |
| | |

| | Table 1: Course Outcomes |
|------------------|--|
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | Computer Aided Engineering Drawing |
| Course Code | BCEDK103 |
| | |
| Course Outcome # | Course Outcome |
| C01 | Drawand communicate the objects with definite shape and dimensions |
| C02 | Recognize and Draw the shape and size of objects through different views |
| C03 | Develop the lateral surfaces of the object Create a Drawing views using CAD software |
| CO4 | Identify the interdisciplinary engineering components or systems through its graphical |
| CO5 | representation. |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | Introduction to Civil Engineering |
| Course Code | BESCK204A |
| Course Outages # | Course Outcome |
| Course Outcome # | Course Outcome Understand the various disciplines of civil engineering |
| C01 C02 | Understand the various disciplines of civil engineering Understand the infrastructure requirement for sustainable development |
| C03 | Compute the resultant and equilibrium of force systems. |
| C04 | Locate the centroid of plane and built-up sections |
| C05 | Compute the moment of inertia of plane and built-up sections. |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | Basics of JAVA programming |
| Course Code | BPLCK205C |
| | |
| Course Outcome # | Course Outcome |
| CO1 | To explain the features and object oriented concepts in JAVA programming |
| CO2 | To analyse working of bitwise operators in JAVA |
| C03 | To develop simple programs based on polymorphism and inheritance |
| CO4 | To describe the concepts of importing packages and exception handling mechanism |
| Class | Table 1: Course Outcomes COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | Indian Constitution |
| Course Code | BICOK107 |
| course coue | DICORTO |
| Course Outcome # | Course Outcome |
| C01 | Analyse the basic structure of Indian Constitution |
| CO2 | Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our |
| C02 | constitution. |
| CO3 | know about our Union Government, political structure & codes, procedures. |
| CO4 | Understand our State Executive & Elections system of India. |
| CO5 | Remember the Amendments and Emergency Provisions, other important provisions given |
| | by the constitution. |
| Class | Table 1: Course Outcomes COMPUTER SCIENCE AND ENGINEERING |
| Semester | II |
| Course Name | Scientific Foundations of Health |
| Course Code | BSFHK208 |
| | |
| Course Outcome # | Course Outcome |
| CO1 | To understand and analyse about Health and wellness (and its Beliefs) & It's balance for |
| CO2 | positive mindset. Develop the healthy lifestyles for good health for their better future. |
| | Build a Healthy and caring relationships to meet the requirements of good/social/positive |
| CO3 | life. |
| CO4 | To learn about Avoiding risks and harmful habits in their campus and outside the campus |
| | for their bright future. |
| CO5 | Prevent and fight against harmful diseases for good health through positive mindset |

| Class | COMPUTER SCIENCE AND ENGINEERING |
|-------------------|--|
| Semester | VII |
| Course Name | ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING |
| Course Code | 18CS71 |
| | |
| Course Outcome # | Course Outcome |
| CO1 | Appaise the theory of Artificial intelligence and Machine Learning. |
| CO2 | Illustrate the working of AI and ML Algorithms. |
| CO3 | Demonstrate the applications of AI and ML. |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | VII |
| Course Name | BIG DATA AND ANALYTICS |
| Course Code | 18CS72 |
| course code | 100372 |
| C 0t " | C |
| Course Outcome # | Course Outcome |
| C01 | Understand fundamentals of Big Data analytics. |
| CO2 | Investigate Hadoop framework and Hadoop Distributed File system. |
| C03 | Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data. |
| CO4 | Demonstrate the MapReduce programming model to process the big data along with |
| | Hadoop tools. |
| CO5 | Use Machine Learning algorithms for real world big data. |
| C06 | Analyze web contents and Social Networks to provide analytics with relevant visualization |
| | tools |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | VII |
| Course Name | USER INTERFACE DESIGN |
| Course Code | 18CS734 |
| | |
| Course Outcome # | Course Outcome |
| dourse outcome :: | Design the User Interface, design, menu creation, windows creation and connection |
| CO1 | between menus and windows |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| | VII |
| Semester | 1 |
| Course Name | CRYPTOGRAPHY |
| Course Code | 18CS744 |
| | Ta a |
| Course Outcome # | Course Outcome |
| C01 | Define cryptography and its principles |
| CO2 | Explain Cryptography algorithms |
| CO3 | Illustrate Public and Private key cryptography |
| CO4 | Explain Key management, distribution and ceritification |
| CO5 | Explain authentication protocolls |
| C06 | Tell about IPSec |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | VIII |
| Course Name | INTERNET OF THINGS |
| Course Code | 18CS81 |
| course coue | 10001 |
| Course Outcome # | Course Outcome |
| Course Outcome # | Course Outcome Interpret the impact and challenges posed by IoT networks leading to new architectural |
| CO1 | |
| | models. |
| CO2 | Compare and contrast the deployment of smart objects and the technologies to connect |
| | them to NETWORKS |
| CO3 | Appraise the role of IoT protocols for efficient network communication |
| CO4 | Elaborate the need for Data Analytics and Security in IoT. |
| CO5 | Illustrate different sensor technologies for sensing real world entities and identify the |
| | applications of IoT in Industry |
| | Table 1: Course Outcomes |
| Class | COMPUTER SCIENCE AND ENGINEERING |
| Semester | VIII |
| Course Name | STORAGE AREA NETWORKS |
| Course Code | 18CS822 |
| Source Cour | 1200022 |
| Course Outcome # | Course Outcome |
| Course Outcome # | |
| CO1 | Identify key challenges in managing information and analyze different storage networking |
| | technologies and virtualization |
| CO2 | Explain components and the implementation of NAS |
| CO3 | Describe CAS architecture and types of archives and forms of virtualization |
| CO4 | Illustrate the storage infrastructure and management activities |
| 401 | |