KODAVA EDUCATION SOCIETY'S

COORG INSTITUTE OF TECHNOLOGY

(Approved by the AICTE & Affiliated to Visvesaraya Technological University, Belgaum)

Department of Computer Science and Engineering

Project work Log Sheet

Guide Name : **Student Name &USN :----------**

Project Title : **----------**

Sl. No	Work Assigned With date	Work done with date	Remarks	Signature of the student	Signature of the faculty

PROGRAMME EDUCATIONAL OBJECTIVES

- To equip students with essential background in computer science, basic electronics and applied mathematics.
- To prepare students with fundamental knowledge in programming languages and tools and enable them to develop applications.
- To encourage the research abilities and innovative project development in the field of networking, security, data mining, web technology, mobile communication and also emerging technologies for the cause of social benefit.
- To develop professionally ethical individuals enhanced with analytical skills, communication skills and organizing ability to meet industry requirements.

PROGRAMME OUTCOMES

Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

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.

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.

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.

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.

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.

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.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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

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.

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.

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.

PROGRAM SPECIFIC OUTCOMES (PSOs)A graduate of the Computer Science and Engineering Program will demonstrate

- **Foundation Skills:** Ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, web design, machine learning, data analytics, and networking for efficient design of computer-based systems of varying complexity. Familiarity and practical competence with a broad range of programming language and open source platforms.
- **Problem-Solving Skills:** Ability to apply mathematical methodologies to solve computational task, model real world problem using appropriate data structure and suitable algorithm. To understand the Standard practices and strategies in software project development using open-ended programming environments to deliver a quality product.
- **Successful Progression:** Ability to apply knowledge in various domains to identify research gaps and to provide solution to new ideas, inculcate passion towards higher studies, creating innovative career paths to be an entrepreneur and evolve as an ethically social responsible computer science professional.

Opportunities

Computer science and engineering graduates are the pillars of the current and emerging information era. Opportunities include pursuing Master of Science Programs in reputed Universities of U.S. and taking up research assignments in Hardware, System Software, Computer Engineering, Multimedia, Networking and Communication areas.

Job opportunities are ever increasing and are varied in nature. System study, analysis, Design and Programming are the inherent phases in Application Development and each one of them provides enormous potential to the Computer Science and engineering graduates to shape their careers. Hi-end profiles include Artificial Intelligence, Robotics, Graphic Solutions and Simulations.

This degree program prepares students for Advanced Technical Computer Systems Design and Development Work. It includes the study of Database Design, Data Communications, Procedural and Object Oriented Programming, Operating Systems Design, Algorithm Development and Applications of Artificial Intelligence. The curriculum includes basic course work in Electronics Technology and the Theory of Programming Languages. Students focus on developing computer-based solutions involving hardware and software components and integration. Graduates are qualified to work in a range of positions, from entry-level computer scientists and system

engineers to project managers leading advanced applications of computer science to real-world problems. The department has since broadened its research strengths.