HOD'S Desk

Ms. Neena V V

Program Co-ordinator

Dear Readers,

Welcome to the inaugural edition of "Disegno," the newsletter of Computer Science and Design (CSD). With this endeavor, we aim to celebrate the essence, its achievements, and the journey we embark upon together. In a world where innovation is the cornerstone of progress, our course stands as a beacon of light, embracing the latest technological advancements and harnessing creativity to shape the future. Our curriculum instills in students a deep understanding of design principles and a commitment to innovation.

As we navigate the digital landscape, we recognize the pivotal role of technology in connecting individuals, communities, and nations. Through our program, we equip students with the skills and knowledge necessary to leverage technology for the greater good. Whether developing cutting-edge software solutions or crafting user-centric designs, our students are empowered to make a positive impact on the world around them.

In conclusion, I extend my gratitude to all members of the CSD community – students, faculty and staff – for their unwavering dedication. Let us continue to embrace the spirit of innovation, creativity, and collaboration as we embark on this journey of discovery and transformation.

"Success is not the key to happiness. Happiness is the key to success. If you love what you are doing, you will be successful." - Albert Schweitzer

Game Development Workshop

'embarked on their own journeys in the realm of game development'

The game development workshops spearheaded by Tony Siby and Ujwel C, held at Kannur Engineering. College on February 3rd , 2024 , and later at Trikaripur on April 8th , 2024 , were nothing short of transformative experi- iences for all involved . These events were meticulously crafted to offer a dynamic blend of learning, creativity, and collaboration, setting the stage for attendees to dive headfirst into the captivating world of game design.

From the outset, participants found themselves immersed in a rich tapestry of concepts, tools, and techniques, all expertly curated and delivered under the seasoned guidance of Tony and Ujwel.

Through interactive sessions brimming with energy and enthusiasm, attendees were not just passive observers but active participants, engaging in practical exercises that brought theory to life in exciting and tangible ways. The workshops served as more than just educational opportunities; they were platforms for igniting and nurturing the passion that drives game developers. Aspiring creators found themselves surrounded by like-minded individuals, sharing ideas, insights, and experiences, all while forging connections that could prove invaluable as they embarked on their own journeys in the realm of game development.
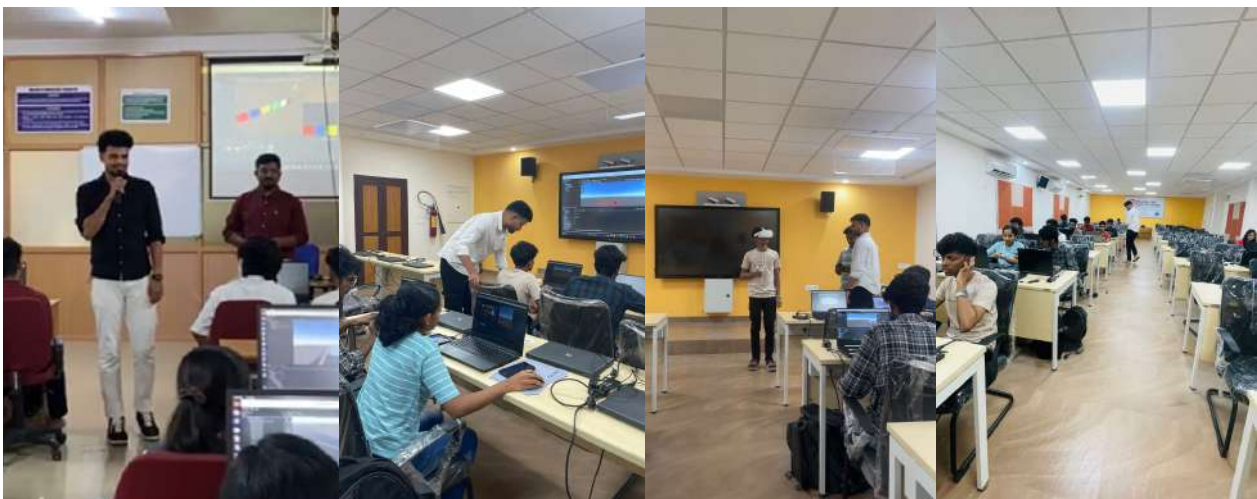
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The atmosphere at both venues was electric as aspiring game developers of all skill levels shared their ideas and perspectives.Tony and Ujwel's approachable teaching style fostered a collaborative environment, encouraging questions and discussions that deepened participants' understanding of game design principles. Additionally, attendees had the chance to network with like-minded individuals, paving the way for future collaborations.

The workshops featured showcases of cutting-edge technology and software, exposing attendees to the latest industry advancements. These demonstrations inspired creativity and provided participants with the knowledge to use these tools in their own projects. By the end, attendees left with new skills, valuable resources, and a heightened passion for game development.

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What truly set these workshops apart was their ability to cater to individuals at various stages of expertise. Whether participants were newcomers eager to dip their toes into the waters of game design or seasoned enthusiasts seeking to refine their skills, Tony and Ujwel ensured that everyone found something valuable to take away from the experience.

Toppers
Computer Science & Design

Evlin Siby Jose
SGPA - 8.41

Nandana P V
SGPA - 8.24

Sharanya Varma
SGPA - 8.09

Toppers
2023-27 Batch

Jamsheera PV
SGPA - 8.77

Avinash Manoj
SGPA - 8.64

Mary Alphons
SGPA - 8.18

Toppers
2022-26 Batch

Safa CH
SGPA - 8.65

Anliya Shaiju
SGPA - 8.52

Abin Mathew
SGPA - 8.07

Toppers
2021-25 Batch

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Tantra '23

The Tech fest, where everyone exploring the world beyond the reality and experiencing the bundless possibilities of virtual and augmented realms

Qualified Gate '24

Stephi Theresa
S6 - CSD

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Publication

A research paper titled "Data Analytics Using Machine Learning For Cyber Security Safeguards Individual Privacy" by Mr. Akhil K K has been published in 2023 International Confrerence on Innovative Computing,Intelligent Communication and Smart Electrical System

The merging of data analytics and machine learning offers tremendous potential for boosting cyber security and protecting individual privacy in an age when personal data and cyber dangers are abundant. The purpose of this study was to create, test, and publish a model that takes into account this junction. Accuracy, precision, recall, F1-Score, and area under the receiver operating characteristic curve (AUC-ROC) are only a few of the indicators that show how well the framework can identify cyber threats. Further, the use of privacy-preserving methods like differential privacy highlights the moral need to guard sensitive information. Readers are given a concrete knowledge of the framework's real-world effect via vivid depictions of its practical use based on hypothetical data sets. This study serves as a helpful resource for a varied audience, from consumers worried about data privacy to organisations looking to better their cyber security defenses and legislators aiming to safeguard citizens' data. It also provides a springboard for further study in areas such as privacy enhancement, more sophisticated machine learning models, and sector-specific framework development. The digital ecosystem is always changing, but this study provides a guide for overcoming obstacles and capitalizing on possibilities at the intersection of cyber security and personal privacy.

Akhil K K
Assistant Professor

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Professor

Rosebell John
Assistant
Professor

Neethu V K
Assistant
Professor

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Computer Science Department

Program Outcomes (POs):

- 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):

PSO1: An ability to understand, analyze, and develop computing systems that integrate computer science principles, design principles, and cutting-edge technologies to provide innovative solutions in different domains

PSO2: An ability to demonstrate knowledge of computer science and design theory and practice to deliver quality products adhering to global standards.

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Assistant Professor

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