

Computer Science and Design

# DISEGNO

VOLUME 1

ISSUE 2



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# HOD'S Desk



**Ms. Neena V V**

Program Co-ordinator

Dear Readers,

Welcome to the second 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.

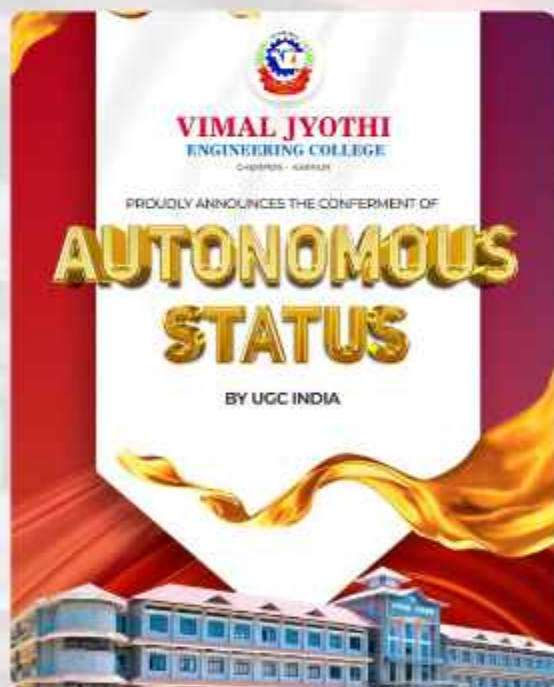
In conclusion, I extend my gratitude to all members of the CSD community – students, faculty and staff – for their unwavering dedication. Let us continue to embrace the spirit of innovation, creativity, and collaboration as we embark on this journey of discovery and transformation.

*"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*





# The Felicitation Ceremony For The Conferment Of Autonomous Status To Our Esteemed Institution



On July 11, 2024, Our Institution Marked A Historic Milestone With A Grand Felicitation Ceremony Celebrating The Conferment Of Autonomous Status. The Event Was A Resounding Success, Attended By Distinguished Guests And Enthusiastic Members Of Our Institutional Community. The Ceremony Highlighted Our Journey Towards Academic Excellence And The Collaborative Efforts That Led To This Achievement.

Adding To The Day's Significance, The Ceremony Also Honored Several Teachers Who Achieved Excellent Results.



# Workshop on "AI Tools for Teaching Techniques"

The workshop on "AI Tools for Teaching Techniques" was held on 10th July at 9:30 am in Varikkattu Hall. The resource person for the session was Rev. Fr. Sabu Thomas, Assistant Professor at Sacred Heart College, Thevara.

Rev. Fr. Sabu Thomas conducted an insightful workshop that explored the latest AI technologies and their practical applications in engineering education and research. Known for his expertise in integrating technology with higher education, Fr. Thomas provided participants with hands-on experience using advanced AI tools.



The session focused on how AI can enhance teaching methodologies, streamline research processes, and better prepare students for an AI-driven future. Attendees gained valuable insights into incorporating AI into their curricula and research initiatives, potentially transforming their approach to engineering education. The workshop also sparked engaging discussions on the ethical implications and future potential of AI in education.





# Add-on course on

## “AUTOMATED WEB TESTING TOOLS AND METHODOLOGIES”

The five days (30 hours) add – on course on “AUTOMATED WEB TESTING TOOLS AND METHODOLOGIES” (ADCSD 201) was conducted from 21 st to 25 th September 2024 S3 students. This equip students with the foundational skills necessary to excel in Selenium testing and automation. Given the importance of web automation in modern software development, starting with Python programming basics and Object-Oriented Programming (OOP) concepts ensures a smooth and structured transition into Selenium. Python simplicity and readability ake it an ideal first language for automation beginners. Additionally, hands-on experience with Selenium WebDriver provides practical exposure to real-world testing scenarios. By the end of the workshop, participants will not only be familiar with the core concepts but also be capable of designing, implementing, and managing web automation projects with confidence. This preparation bridges the gap between theoretical learning and practical application, fostering career readiness in an increasingly automated world. The course successfully provided students with a comprehensive foundation in automated web testing, combining theoretical knowledge with practical applications, preparing them for careers in software development and quality assurance.





# International Seminar on Enhancing Lives: Inclusion, Higher Education and Employment

The Ruth S. Ammon College of Education and Health Sciences (USA) partnered with the Composite Regional Centre (CRC-Kozhikode) under India's Ministry of Social Justice and Empowerment to organize an International Seminar focused on enhancing lives through neurodiversity inclusion.

International experts delivered keynote speeches emphasizing the importance of comprehensive student support systems and career development opportunities, while highlighting the role of emerging technologies in facilitating inclusion.

Throughout the event, participants engaged in detailed discussions about effective inclusion strategies and shared the latest research findings on cognitive diversity. These sessions provided valuable insights into practical approaches for creating supportive academic and professional environments that recognize and value neurodivergent perspectives.

The seminar concluded with a strong emphasis on the need for sustained cross-sector collaboration. Participants acknowledged that creating truly inclusive societies requires ongoing cooperation between educational institutions, employers, policy makers, and advocacy groups. This global dialogue established a foundation for future initiatives aimed at improving opportunities and support for neurodivergent individuals.







# EVENT GALLERY





# Virtual Reality Workshop

“  
‘engaged in  
practical  
projects,  
creating virtual  
spaces’  
”



The five-day Add-on Course on the Fundamentals of Game Design and Development at Vimal Jyothi Engineering College provided an in-depth, hands-on learning experience for 55 CSD students, immersing them in the core concepts of 3D game development, virtual reality (VR), and augmented reality (AR). The program began with a comprehensive introduction to Unity 3D, where students were familiarized with its diverse applications and significance in game development. They gained practical knowledge of 3D game mechanics and design fundamentals, enabling them to create simple and engaging games using the Unity platform.

This foundational training not only allowed participants to develop their technical skills but also encouraged creativity and experimentation in designing interactive experiences. The course then expanded into the field of virtual reality, where students were introduced to the process of developing VR applications for Meta Quest. Through this segment,





participants gained insights into building immersive VR environments, understanding the hardware-software interface, and exploring the growing potential of VR in gaming and beyond. An engaging highlight of the session was the opportunity to experience professionally developed VR projects presented by the speakers. This gave students valuable exposure to cutting-edge VR applications, inspiring them to think innovatively about future VR possibilities.

The program further delved into the world of augmented reality, equipping students with the skills to create their own AR applications. Each participant successfully developed a working AR project,

reinforcing their understanding of real-world AR technology.

By the end of the course, participants had acquired significant proficiency in Unity-based 3D game development, VR creation, and AR application design. They also gained valuable exposure to the best practices and challenges in developing these technologies. The course proved to be an enriching experience, empowering students to explore innovative career paths in gaming, professionals.





# Jyothirgamaya



On 7th September 2024, Jyothirgamaya welcomed new members to our campus with inspiring speeches, cultural performances, and a brief orientation, marking the start of their academic journey.







**VIMAL JYOTHI ENGINEERING COLLEGE, CHERPURI**  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (COMPUTER SCIENCE AND DESIGN)



**Add-on Course on**  
**Advanced UI/UX Design Tools for Visual Design and Prototyping**  
In Association with  
**Aviv Digital**

**Aug 21 - 25**  
**9:00 am - 4:00 pm**  
**Lab 2 (PG Lab)**  
**For S7 CSD Students**

**Vision of the Department**

- To contribute to the society through excellence in scientific and knowledge based education utilizing the potential of computer science and engineering with a deep passion for wisdom, culture and values.

**Mission of the Department**

- To promote directed growth of an individual by creating futuristic environment that fosters critical thinking, dynamism and innovation to transform them into globally competitive professionals.
- To undertake collaborative projects which offer opportunities for long-term interaction with academic and industry.
- To develop human potential to its fullest extent so that technologically capable and optimistic leaders can emerge in a range of professions.

**About the Course:**

- This course is designed to make advanced digital design tools accessible to everyone, with a focus on mastering Figma, a leading collaborative software design tool. Widely used by designers, product managers, writers, and developers, Figma enhances decision-making through seamless collaboration.
- By the end of the course, students will be able to create, share, and test designs for websites, mobile apps, and other digital products. They will also learn to design layouts using scalable vector graphics without quality loss and build interactive prototypes of web layouts for testing and modifications.

<b>Convener</b>	<b>Staff Coordinators</b>
<b>Ms. Nisara VV</b>	<b>Ms. Silpa KV</b>
<b>Program Coordinator</b>	<b>Ms. Rosebel John</b>
<b>CSD</b>	



A 5-day add-on course on Figma was conducted for S7 Computer Science and Design Engineering students, focusing on building their skills in UI/UX design and collaborative product development. The course introduced students to the fundamentals of user interface design, including key concepts such as layout design, typography, and color theory. Students learned to create wireframes, design intuitive interfaces, and develop interactive prototypes using Figma's versatile tools. They explored real-time collaboration features, enabling them to work together on projects seamlessly, simulating the experience of professional design teams.

The program culminated with a group project where students applied their learning by designing and presenting a complete UI/UX prototype. This practical exposure helped bridge the gap between design and development, equipping students with valuable skills for roles in front-end development, product design, and user experience design. By the end of the course, participants had gained confidence in using Figma for both individual design tasks and collaborative team-based projects, making them well-prepared for the demands of the tech industry.

# Add-on course on Figma





# NAAC Visit



The NAAC peer team visited our institute on 9th and 10th May for evaluation. Following their assessment, the institute was proudly awarded an A grade, recognizing our commitment to excellence in education and institutional growth.





# Toppers

## Computer Science & Design



Evlin Siby Jose



Nandana P V



Sharun Raj E K

## Toppers

2023-27 Batch



Jamsheera PV



Avinash Manoj



Ananya AK

## Toppers

2022-26 Batch



Safa CH



Anliya Shaiju



Abin Mathew

## Toppers

2021-25 Batch





# Appreciation

Ujwel C and Tony Siby were honored with mementos for gracing the IEEE Malabar Hub Meet as guest speakers, held at GEC Wayanad College.

## Appreciation for Gate Qualification

Stephi Theresa received a token of appreciation for her achievement in qualifying for the GATE exam.





# PTA Meeting



**S3  
CSD**



The PTA meeting for S3 CSD was held on September 03, 2024, at 2:00 PM in Varikattu Hall, where Dr. Benny Joseph, the principal, delivered the presidential address focusing on academic activities, discipline, and result analysis. He specifically addressed the prevention of ragging and its consequences. Following this, PRO Mr. Sebastian K J shared crucial information with parents, emphasizing the importance of punctuality, consistent study habits, competitive exam preparation, and regular attendance. He also stressed the college's strict stance against misbehaviour, ragging, and disciplinary infractions. The event proceeded with the distribution of prizes to IA-I toppers with awards presented by Dr. Benny Joseph. Afterward, interactive sessions were conducted where parents and students met with faculty members handling different subjects.



# PTA Meeting

## S5 CSD



The PTA meeting for S5 CSD took place on September 3rd at 10:00 AM in Varikattu Hall. The meeting commenced with a prayer and was attended by 24 parents of S4 CSD. Notably, this meeting was common for all S5 allied batches. Ms. Neena VV, the programme coordinator of CSD, delivered the welcome speech. Subsequently, Dr Benny Joseph Principal of VJEC emphasized the significance of academic activities, discipline, and result analysis. He also discussed the college's educational structure and the resources available for students' career development. Later, PRO Mr. Sebastian K J discussed the current admission status, quality of education, placement scope, etc. Fr. Bibin The assistant administrator, during his address, illuminated the wide range of resources available to students for their academic and extracurricular endeavors. Moreover, he underscored the significance of NBA accreditation for the student community and the additional courses offered to students with specific interests. Students with first, second, and third positions were honored for their academic performance by respective program coordinators.





# Thandavam'24





# Publication

The paper "Detection of URL-Based Phishing Attacks Using Gradient Booster Classifier Algorithm" by Ms. Silna KV, published in the International Journal of Engineering Technology and Management Sciences (Volume 8, Issue 5, Sept-Oct 2024, DOI:10.46647/ijetms.2024.v08i05.009), focuses on phishing detection using machine learning.

Phishing, a social engineering attack, tricks victims into sharing sensitive data through fake websites. With phishing methods evolving—like spear phishing and whaling—the study highlights the role of AI both in executing and preventing these threats.

The research uses a Gradient Booster Classifier (GBC) algorithm to enhance phishing detection. A heterogeneous dataset of legitimate and phishing sites was used, with preprocessing steps like feature selection and normalization applied for optimal performance. The GBC model outperformed traditional techniques, achieving high accuracy while minimizing false positives. Metrics such as precision, recall, and F1-score confirmed the model's effectiveness.

This study offers practical tools to identify phishing sites and outlines how machine learning improves cyber defenses, contributing to ongoing efforts in phishing prevention.



**Silna K V**  
Assistant Professor





## New Faces

Dr. Remya Chandran, an educator and researcher with 10 years of experience, holds a Ph.D. in Computer Science from Vles Institute, specializing in Cybersecurity. She also earned an ME in Computer Science from Anna University, an MCA (first rank) from Kannur University, and a B.Sc. in Mathematics from the same institution. With 9 research papers, 6 authored books, and NET qualification in Computer Science and Applications, she demonstrates strong academic expertise. Her areas of focus include Cybersecurity, Theory of Computation, Cloud Computing, Data Mining, Computer Architecture, and programming languages like Python, C, C++, and Java.



**Dr. Remya  
Chandran**  
Associate  
professor



**Athira C V**  
Assistant  
Professor



**Sruthy Ajith**  
Assistant  
Professor

## Staff Achievement



**Anju Ashokan**

Assistant Professor

**UGC NET 2024  
QUALIFIED**

## 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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