

Department Computer Science and Design



PESITM
SHIVAMOGGA



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ABOUT HEAD OF DEPARTMENT



Dr. Pramod

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Ph.D.

Cloud Computing, IOT, Machine Learning

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Dr. Pramod currently working as the Head of Department of Computer Science and Design. PESITM SHIMOGA. He had total 22+ years of Teaching Experience: He completed PhD in Computer Science and Engineering VTU ,INDIA Domain: Cloud Computing. He Received outstanding Faculty Mentor Award 2020 - 2021 from Novel Research Academy, registered under the Ministry of MSME, Government of India. He has Published two Patents in the Official Journal of the Patent office, India, He is the Co Author for text Book “ Programming with Python “. Publications: .Published more than 25 Publications (National /International)Journals’. Conducted more than 10 Webinar/ FDP/SDP . Currently guiding Three PhD Research Scholar, VTU, Belguam. One PhD Scholar already awarded with PhD Degree. He is currently the Reviewer of review board member of the journal IJERT (International Journal of Engineering Research and Technology) and JETIR Journal of Emerging Technologies and Innovative Research. He holds Professional Bodies membership: Life time member of ISTE, CSI, IFERP. He has Reviewed more than 100 Journals . He has published two Book Chapters and Editor of IPSeries Book Chapter .He holds Professional Bodies membership: Lifetime member of ISTE, CSI, IAENG and IFERP.



ABOUT FACULTY



Ayisha Khanum

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Machine Learning, IOT.
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Mrs. Ayisha currently working as the Assistant Professor Department of Computer Science and Design. PESITM SHIMOGA. She had total 9 years of Teaching Experience. Mrs Ayisha Khnaum received the BE degree in Computer science and Engineering from Mysore VTU, India. She received the M Tec degree in Computer science and Engineering from Visvesvaraya Technological University (VTU), Belguam, India. Her research interests and area are Big Data Analytics, Artificial Intelligence, Machine learning, and Cloud Computing., Her research interests and area are Big Data Analytics, Artificial Intelligence, Machine learning, and Cloud Computing. She Published International Journal of Advanced Scientific Innovation, Volume 2, Issue 3.,on the topic Predicting Thyroid disease using Machine Learning Methods.



Ms. Preethi .S. Gowda

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Ms. Preethi S Gowda currently working as the Assistant Professor for the Department of Computer Science and Design. PESITM SHIMOGA. She received BE degree in Computer science and Engineering from VTU, India. She received the M Tech degree in Computer science and Engineering from Visvesvaraya Technological University (VTU), Belguam, India. She had Published a International Journal on a topic “A Novel Approach for Car Accident Detection Using AIML Techniques.”

Editorial Board

Greetings from the Editorial Board!!!

I am pleased that the march April 2024 issue of the Departmental newsletter is now ready to roll out with good coverage of the news that pertains to the CSD department. There are several activities taking place on a regular basis that we have endeavored in our newsletter to provide in a capsule, staff and student achievements, FDPs and workshops, expert and Alumni talks, and events that are regular fixtures in our department. We also highlight the diverse talents present in our students and faculties and hope to motivate them positively through our newsletter. I would like to thank The Management of PESITM, The principal, Dr. Yuvaraju B N, Faculty Co-ordinators and the student editors for their great effort to make this newsletter a significant publication. We welcome suggestions to improve our content.

Sincerely ,

Dr. Pramod

**Head of Department
CSD**



**Aditya S
2nd YEAR**



**Manju madhav V A
2nd YEAR**



**Vanishree M
2nd YEAR**



**Sushma K V
2nd YEAR**



**Darshan S
2nd YEAR**



**Soujanya Shanbhag
1st YEAR**



**Sachith R
1st YEAR**

Editorial Team



**TEAM HEAD
Nishanth K R
2nd YEAR**



Department VM PEO & PSO

Vision

To provide globally competent professionals in the field of Computer Science & Design, embedded with sound technical knowledge, aptitude for research and innovation with ethical values to cater to industrial & societal needs.

Mission

- ♦ **M1:** To provide quality undergraduate education in both the theoretical & applied foundations of Computer Science & Design Engineering.
- ♦ **M2:** Conduct research to advance the state of the art in Computer Science & Design Engineering and integrate the research results as innovations.
- ♦ **M3:** To inculcate team building skills and promote life-long learning with high societal and ethical values.

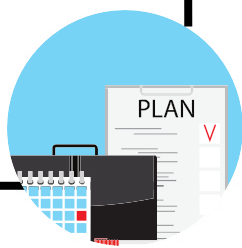
Program Educational Objectives (PEO)

Graduate Will:

- ♦ **PEO1:** Possess knowledge to enable continued professional development.
- ♦ **PEO2:** Engage in life-long learning to foster personal & organizational growth.
- ♦ **PEO3:** Work productively as successful professionals in diverse career paths.
- ♦ **PEO4:** Effectively communicate ideas to promote collaboration in accordance with societal standards & ethical practices.

Program Specific Outcomes (PSO)

- ♦ **PSO1:** To apply standard software engineering practices & strategies in real-time software project development
- ♦ **PSO2:** To apply latest programming languages in creating innovative career opportunities.



COLLEGE EVENT

Cricketing Fun! – A friendly cricket match – CSD Department, PESITM Shimoga



Venue: PESITM Ground

Date: 7/12/2023

The Computer Science and Design branch, PESITM Shimoga organized a cricket match recently in the Cricket ground of PESITM, Shimoga. Students from First and Third Semester participated in the match. Trials were held a day before the match for finalizing teams, wherein 70 students appeared and only 44 were selected, to constitute 4 teams. Sports department provided a kit for facilitating the match.

The first match was held between First and third Semester Boys Teams. The First Semester team won the toss and elected to bat first. It was thrilling to watch young players putting great efforts in batting, bowling and fielding. First Semester won the match in last over to secure a place in the final. The second match was held between the Girls teams of 3rd semester and First semester. Latter Third Semester Girls won the match with half the overs of their quota still remaining..

Student Coordinators:

Prathamesh Shetty –Third Semester CSD

Sachit R – First Semester CSD

Faculty Coordinators:

Mrs, Ayisha Khanum

Dr. Pramod-HOD, CSD

The following students were the shining stars of the day:

Mr. Darshan – Best Performance -Mens Team

Ms. Srusti -Best Performance -Women's Team

COLLEGE EVENT

Ethnic Day at CSD Department



SCR Activity at CSD Department on 19th January 2024



"Life is so beautiful. We should enjoy and live the life as much as possible, Once after life ends don't regret about. That's why create memories, have good memories....."

- Darshan S
2nd YEAR

PUBLICATIONS

An Internet of Things-Powered Drone Monitoring System for Prompt Identification of Unauthorized Deforestation in Specific Areas

Dr. Pramod^{#1}, Dr. Sunitha B S^{#2}, Ayisha Khanum^{#3}, Preethi S Gowda^{#4}

^{#1}HOD, CSD Department, PESITM, Shivamogga

^{#2}HOD, CSDS Department, PESITM, Shivamogga

^{#3}Assistant Professor, CSD Department, PESITM, Shivamogga

^{#4}Assistant Professor, CSD Department, PESITM, Shivamogga

Abstract— The stability of the climate, biodiversity, and global ecosystems are all seriously threatened by deforestation. The breadth and effectiveness of traditional techniques for keeping an eye on and stopping illicit deforestation are frequently constrained. This research proposes a novel method to assist management or authorized staff in locating instances of deforestation operations such as fires, tree-cutting, or elevated temperatures in forests using GPS. In light of the growing difficulty in stopping illicit tree trafficking, this approach makes use of IoT to enable automated systems to carry out effective forest management and monitoring. For emerging nations, obtaining and utilizing basic forestry data poses several challenges. The management of forests can benefit from information on daily forestry operations, burnt area assessments, and forest infraction monitoring. This information will help them respond more quickly and make more educated judgments.

Keywords— Deforestation, Drones, GPS, IOT, Remote Sensing

An Internet of Things-Powered Drone Monitoring System for Prompt Identification of Unauthorized Deforestation in Specific Areas . Journal of Xidian University ISSN No: 1001-2400 | UGC CARE GROUP – 2 JOURNAL (Active Journal in Scopus) | Monthly Publishing Journal

**CSD DEPARTMENT
SIGNED AN MOU
WITH EXCEL R
EDTECH.PVT.LTD
ON 19TH FEBRUARY 2024**

INDIA NON JUDICIAL

Government of Karnataka

Rs. 100

e-Stamp

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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (herein after called as the 'MOU') is entered into on this 19th day of February month 2024

Date 19-02-2024,

by and between Excel R EdTech.Pvt.Ltd,
(Herein after referred to as 'First Party')

And
PES Institute of Technology And Management, Shivamogga
(herein after referred to as "Second Party",
(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

CSD DEPARTMENT COLLABORATED WITH GEEKSFORGEEKS



GeeksforGeeks Student Chapter

GeeksforGeeks, a leading platform for computer science enthusiasts, is dedicated to empowering individuals with the knowledge and skills necessary to excel in the ever-evolving field of technology. Inspired by the mission of GeeksforGeeks, we are thrilled to announce the establishment of the GeeksforGeeks Student Chapter at our esteemed college.

Purpose:

The GeeksforGeeks Student Chapter aims to provide a dynamic platform for students to enrich their academic and professional journey in the realm of computer science and related disciplines. Our primary goal is to bridge the gap between theoretical learning and practical application, equipping students with the tools and experiences they need to thrive in the tech industry.

Membership:

Membership to the GeeksforGeeks Student Chapter is open to all students pursuing degrees in computer science, information technology, and related fields. Whether you're a coding enthusiast, a budding software engineer, or simply curious about the world of technology, we welcome you to join our vibrant community. As a member, you'll gain access to a wealth of resources, networking opportunities, and support to fuel your passion for technology.

Activities:

Technical Workshops & Seminars: Our chapter will host a series of workshops and seminars led by industry experts and seasoned professionals, covering a wide range of topics such as programming languages, web development, data structures, algorithms, and more.

Coding Competitions: We'll organize coding competitions to foster creativity, collaboration, and innovation among students. These events provide a platform for students to showcase their skills, solve real-world problems and win exciting prizes.

Tech Talks & Panel Discussions: Engaging tech talks and panel discussions will provide valuable insights into emerging trends, best practices, and career opportunities in the tech industry. Students will have the opportunity to interact with guest speakers, ask questions, and gain valuable perspectives.

Project Showcases: We'll encourage students to work on hands-on projects and showcase their creations to the community. Whether it's a mobile app, a website, or a software solution, we believe in celebrating the ingenuity and creativity of our members.

Leadership Development: Being part of the student chapter committee allows members to develop leadership, teamwork, and organizational skills. Students can take on roles such as Chair, Vice-Chair, Event head, or Social media head and organize events, manage finances, and liaise with the parent GeeksForGeeks body.

Networking: GeeksForGeeks Student Chapters can collaborate with other chapters, professionals, and industries, providing students with opportunities to build a strong professional network.

By establishing the GeeksforGeeks Student Chapter at our college, we aim to create a vibrant

Community of tech enthusiasts who are passionate about learning, growing, and making a positive impact in the world. Together, let's embark on an exciting journey of exploration and collaboration.

Welcome to geeksforgeeks family!



We are delighted to inform you that Ms Vaishnavi G K of CSE 3rd year has been appointed as the chapter lead for the year 2024.

GeeksforGeeks has established a college chapter at the PES Institute of Technology & Management the academic year 2024 with the help of her initiative.

We look forward to doing informative & productive work together in the near future, which would help the students to grow & learn.

A unit of 'Sanchhaya Education Pvt. Ltd.'

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Sector 136, Noida, Uttar Pradesh 201304, CIN - U8090UP2015PTC072786
Email: careers@geeksforgeeks.org Web: www.geeksforgeeks.org

Under this GeeksForGeeks Student Chapter we have conducted Student Club activity.



Interaction:

The outcome of student club interactions with each other can vary greatly depending on the club's goals, dynamics, and activities. In many cases, these interactions foster a sense of community and belonging among members, creating a supportive environment for personal and academic growth. Through collaboration on projects, events, and discussions, students develop teamwork and leadership skills while also building lasting friendships. Additionally, club interactions often provide opportunities for networking, mentorship, and the exchange of ideas, enriching the overall educational experience for everyone involved. Overall, these interactions contribute to the development of well-rounded individuals who are better equipped to navigate both their academic and professional futures.



Communication:

The student club's outcome heavily depends on effective communication. Clear communication fosters collaboration, ensuring members are informed about events, projects, and responsibilities. It encourages active participation and engagement, leading to a vibrant club culture. Moreover, strong communication skills are transferable, benefiting members beyond their club involvement. By promoting open dialogue, the club can address challenges efficiently and celebrate successes collectively, ultimately enhancing the overall experience and impact of the club within the school community.



Confidence:

Joining a student club can have a profound impact on one's confidence. Through club activities, members often develop valuable skills such as leadership, teamwork, and public speaking, which boost self-assurance. Engaging with peers who share similar interests fosters a sense of belonging and support, further bolstering confidence. Additionally, taking on responsibilities within the club, such as organizing events or leading projects, provides opportunities for personal growth and validation of one's abilities. Overall, participating in a student club can be a transformative experience, empowering individuals to embrace challenges with newfound confidence both within and beyond the campus community.

Stage fear:

Joining a student club can have numerous positive outcomes, particularly for those struggling with stage fear. Through participation in club activities, such as public speaking or drama performances, students can gradually overcome their fear of speaking in front of others. Engaging in regular practice sessions and receiving constructive feedback from club members can help build confidence and improve public speaking skills. Additionally, being part of a supportive club environment provides a safe space for students to take risks, make mistakes, and learn from them without fear of judgment. Over time, students may not only conquer their stage fear but also develop valuable communication and leadership abilities that benefit them in various aspects of their personal and professional lives.

Team working:

Student clubs offer numerous benefits, with team working being a prominent outcome. Engaging in club activities cultivates teamwork skills by providing opportunities for members to collaborate, communicate effectively, and delegate tasks. Through organizing events, managing projects, and participating in group discussions, students learn the importance of teamwork in achieving common goals. This hands-on experience fosters leadership development, conflict resolution abilities, and an appreciation for diverse perspectives. Ultimately, the collaborative environment of student clubs empowers members to thrive in group settings and prepares them for future endeavors in academia and the professional world.

In this Student Club activity we have covered almost syllabus of DATA STRUCTURE AND APPLICATION, Digital design and Computer Organization, Engineering Mathematics, and Java.



Academia Interactions



THREE DAYS SDP

Application Development with Java Enterprise Edition

(DATE: 2ND TO 4TH FEBRUARY 2024)

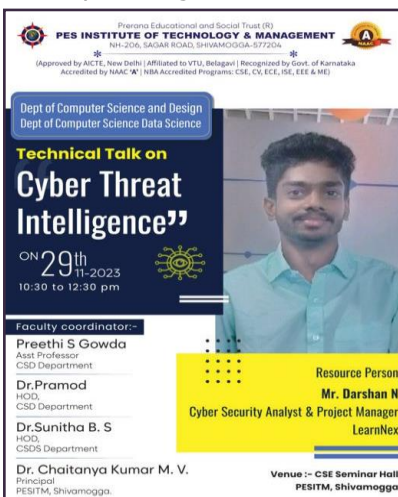
The Department of Computer Science Design and Computer Science & Engineering (Data Science), PESITM, Shivamogga organized a three-day SDP on Application development with Java Enterprise Edition. The SDP was conducted between the 2nd to 4th of February 2024. This SDP has been designed keeping in view the latest technologies and industry requirements. The SDP is aimed at enabling the students to create any type of Web Applications; they can create any type of Website

with or without database. Students will come to know the importance of JSP in Industry. The SDP aims to groom the students to enable them to work on current technology scenarios as well as prepare them to keep pace with the changing face of technology and the requirements of the growing IT industry. Students will learn concepts like Web Server, Creating static and server side applications using HTML and JSP, Ajax, Frameworks etc.

Expert Talk on “Data center and Cloud Computing”

(24-12-2024)

To understand the changes in new technology and provide the ability to pursue new challenging business models or to achieve a significant competitive advantage of using Cloud Computing in software industry. Cloud computing is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user. The term is generally used to describe data centers available to many users over the Internet. This program was arranged to gain knowledge and practical experience of Cloud Computing from the Innovative, Knowledgeable and Professional Resource Person Mrs. Rashmi Dayana Dsouza Senior Manager, Oracle INDIA who has 15 years of rich experience in the field of Cloud Computing. The feedback of the session was collected from all participants to incorporate and improvise the upcoming sessions.



Expert Talk on “Cyber Threat Intelligence”(29-11-2023)

The session named “Cyber Protector Club”, began with discussion about the latest cybercrimes being committed around the country. The second half of the session revolved around the precautions that must be taken during online payments and password protection. He suggested using 2-Factor authentication while using apps.

The webinar was organized with the objective to:

- Acquaint the participants with the prevailing cyber security threats
- Educate the participants about the safety and security measures to adopt while using the internet and various applications.



Artistic View



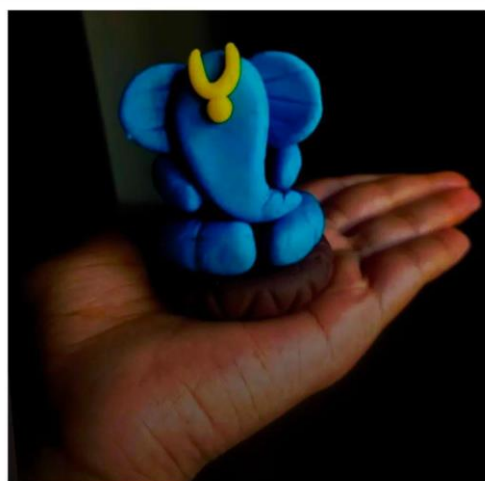
Aditya S
2nd Year



Prerana & Deekshitha
2nd Year



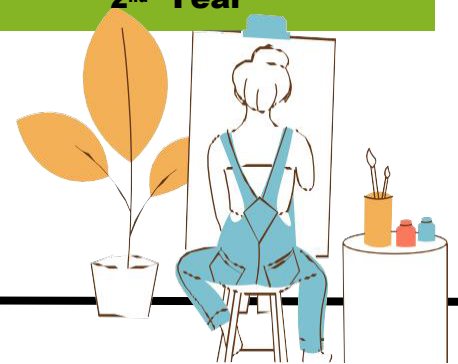
Nandhitha G P
2nd Year



Nandhitha G P
2nd Year



Nandhitha G P
2nd Year



Artistic View



Charan Kashyap M
2nd Year



Charan Kashyap M
2nd Year



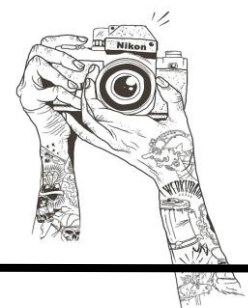
Nishanth K R
2nd Year



Nishanth K R
2nd Year



Suhas G Kashyap
1st Year



Topper's of VTU



Name: Shankar
USN: 4PM22CG042
2ND YEAR
VTU 20th RANK In 2nd Sem



Name: Sourabh Patil
USN: 4PM22CG047
2ND YEAR
VTU 63rd RANK In 2nd Sem



Name: Soujanya Vishnu Shanbhag
USN: 4PM23CG052
1st YEAR
VTU 5th RANK In 1st sem



Name: Vijeta Vijaykumar naik
USN: 4PM23CG057
1st YEAR
VTU 7th RANK In 1st Sem





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