COMPUTER SCIENCE AND DESIGN

THE DESIGNERS'

GAZETTE

AKRITI

The Festive Inaugural Issue

1st **SAP Labs** visit from SJC Institute of Technology

Cisco tech Expert teaches **UML design** with challenges
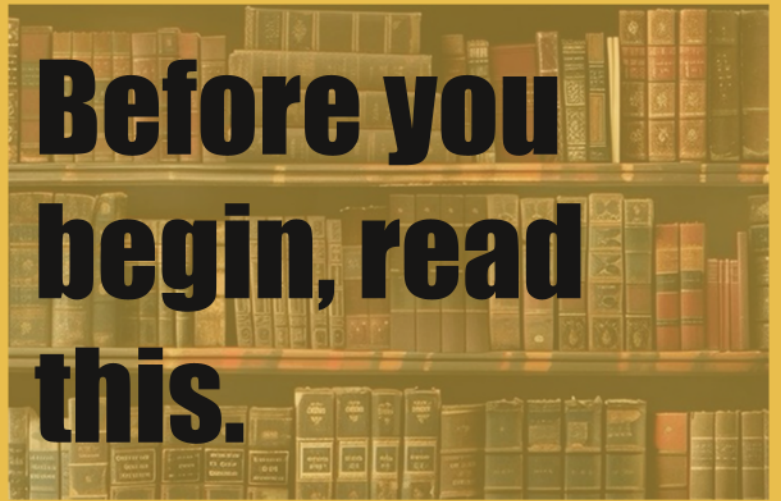
WHY ANOTHER NEWSLETTER IN THE COLLEGE?

In an institution as dynamic as ours, countless stories unfold daily—each filled with creativity and ambition. Yet, many remain untold. The Designers' Gazette exists to change that.

The Designers' Gazette is not just another newsletter—it's a platform to spotlight the extraordinary within the ordinary.

Our college uniquely blends technical brilliance with artistic creativity, often operating in silos. This newsletter bridges that gap, celebrating the confluence of engineering, design, and tradition, creating a space where ideas flourish.

It also honors our legacy as part of Sri Adichunchanagiri Shikshana Trust, preserving moments that reflect our cultural richness and collective aspirations. More than a publication, it serves as a unifying force, fostering a sense of belonging and connection in a large community.

The Designers' Gazette sparks conversations, celebrates achievements, and embraces the future. It's a celebration of who we are and what we stand for—a voice for every story that deserves to be heard.

Before you begin, read this.

The number 9 happens to be a very Divine number in Indian scriptures. On the 9th of December, 2024 the first issue of this newsletter - The Designers' Gazette is officially launched. Also on the same day, the Department of Computer Science and Design is conducting its first-ever department fest - Akriti 2024. Many readers might wonder what Akriti means shape, form, figure, or appearance. You might wonder what could be the connection between a fest and this description of Akriti. If you analyze closely, innovation is what the whole world is focusing on right now at this point. Now innovation can be expressed in one of the four forms/attributes: shape, form, figure, or appearance. You can see the innovation in the form of an object that is considered to be a figure, if it is an idea it is regarded as a form of intellectual knowledge. A finished product can be considered as appearance. Now there can be made many interpretation on the line above, the platform is open for all thinkers to come together.

The above paragraph is all about the whys? and whats? you read. The following paragraph is all about the mindset of a good reader, since this happens to be the first issue, there might be a lot of mistakes in the design, sentence formation, or even in the content. The whole newsletter team has tried to keep the content as accurate and true to it's potential as possible, but nothing can be perfect, there never be 2 personalities completely talking positive about one singular aspect. Writing such a good piece of content is not only our priority but equally our responsibility, because this collection of writing contains the activities that took place, and it can be archived for the time to come, to pass it on to the next generation for them to read and understand the type of things that used to take place in the early 21st century. Please feel free to provide any type of feedback based on your thought outcomes. Wishing you a very happy reading experience.

About Adhichunchunagiri Mahasamsthana Math

Sri Adichunchanagiri Shikshana Trust (R) was founded in the year 1974 under the divine leadership of his Holiness Byravaikya Sri Sri Sri Dr. Bala Gangadharanatha Maha Swamiji. Sri Adichunchanagiri Mahasamsthana Mutt, with its roots firmly embedded in the folds of time (1500 Years), Space on Rocky hill, 63 miles west of Bengaluru, the Capital City of Karnataka, has been working towards the betterment of human life and society.

The current pontiff, Sri Sri Sri Dr Nirmalanandanatha Mahaswamiji, continues this legacy with wisdom, dedication, and relentless efforts, upholding the Math's values and contributing significantly to society's spiritual and social upliftment.

Sri Jagadguru Chandrashek-haranatha Swamiji Institute of Technology (SJCIT) is affiliated to the Visvesvarya Technological university and was established in 1986 with the objective of developing a standard institution offering engineering courses its main aim is to produce abled engineers to develop the nation and world.

Beginning with the potential of excellence we are Accredited by NAAC (A+), NBA & ISO certified where we try for better and improvised quality education from our auditors.

A premier institute imparting technical education since 1986 The college is situated on Bangalore-Hyderabad National Highway NH7, 45 kms from Bangalore city about, 20 kms from Kempe Gowda International Airport and about 5 kms from Muddenahalli, the birth place of Sir M Visvesvaraya. The famous hill resort Nandi hill is about 15 kms from the college.

FROM PRINCIPAL'S DESK
Dr G T Raju

We are delighted to present the newsletter – The Designers' Gazette of the department of Computer Science & Design for the academic year 2024-25.

This inaugural issue highlights the remarkable achievements across various domains including academic accomplishments, extracurricular activities and the outstanding contributions of our dedicated faculty members and enthusiastic students.This newsletter serves as a mirror reflecting the full spectrum of both technical and non-technical initiatives undertaken by the department. It is a testament to the hard work, dedication and creativity of all involved.

We are confident that this first issue will send a positive message to our staff, students and everyone with an interest in technical education and technology-driven activities. It showcases the vibrant culture of innovation and learning that we continue to foster in the department.

We extend our heartfelt congratulations to the Editorial Board for their exceptional work in bringing this newsletter within the stipulated time & creating a platform to unleash the latent creativity & technical talent of our students.

We wish everyone all the very best in their future endeavors and we look forward to seeing even greater accomplishments in the months to come.

HOD's Thoughts
Dr Bharathi M

It's an immense pleasure to present department of computer Science and Design newsletter "The Designers Gazette". As we move forward in our academic endeavors, I am delighted to share updates and reflections from our department.

Our faculty continues to innovate in research and teaching, ensuring that our students receive the best education possible. I encourage students to make the most of the opportunities available from academic workshops to extracurricular activities that help to develop well-rounded individuals

I encourage everyone to stay engaged, attend events and actively contribute to the vibrant culture of our department. Your enthusiasm and collaboration are the pillars of our success.

I whole heartedly thank the Faculty, editorial team and students for your dedication and hard work for this edition News Letter" The Designers Gazette" and My best wishes to all for their bright carrier and successful life.

Dear Readers,

Every great idea starts with a question. For us, it was this: How do we create something that people not only read but truly connect with?

This question arose during one of our late-night brainstorming sessions. Our team was reflecting on the countless newsletters that are packed with information. We wanted to craft something different, something that felt like it was written by a friend who is narating all the incidents that took place in our department.

We realized that we didn't want to overwhelm our readers with noise. Instead, we wanted to create something that cuts through the clutter a space where every word is deliberate, every idea resonates, and every incident we experience make you feel present at the moment with us feeling alive.

What Makes It Different? This newsletter isn't about throwing facts at you; it's about sharing experiences, ideas, and insights that inspire action and spark curiosity. What sets it apart is the thoughtfulness behind every issue. We're not just talking to you we're having a conversation with you.

Each edition is carefully curated to offer a blend of useful knowledge, engaging event incidents, and perspectives that are not ordinary. Whether it's a fresh take on current events, a thought-provoking analysis, or an inspiring story, we aim to make every read a meaningful one.

When creating this newsletter, our intention was clear, we only want to bring value to your reading experience.

We're driven by the belief that words have power, the power to inform, uplift, and even transform. Through this newsletter, we want to create a platform for ideas that inspire growth and a community of like-minded readers who appreciate the beauty of learning and discovery.

As we begin this journey, know that this newsletter is as much yours as it is ours. We're here to listen, evolve, and continuously improve. Every edition is crafted with care, and we hope it becomes something you look forward to your weekly dose of inspiration, curiosity, and connection. We are always open to feedbacks, and anything that makes the newsletter better to read .

Thank you for being part of this journey. Together, let's make this more than a newsletter let's make it a movement.

Warm regards,

A Bhuvanesh
Editor-in-Chief

Chiranth H
Co-Editor

EDITORS' NOTE

Triumphs of Talent

The Department of Computer Science and Design (CSD) has proven its excellence beyond academics, clinching multiple prizes at the BGS Annual Sports and Cultural Meet held on June 22. With an impressive haul of 10 awards across various events, the students showcased exceptional talent, teamwork, and versatility.

Notable victories include Group Song, Debate, and Collage, with additional runner-up titles in Installation, Kabaddi, Quiz, Rangoli, and others. A proud highlight is the recognition of CSD's athletes, with several students winning medals in individual sports, solidifying the department's contribution to the overall victory.

CSD Department Shines at Sports and Cultural Meet

Adding another feather to its cap, the department celebrated an outstanding feat at the VTU State-Level Kabaddi Championship on November 19–20, hosted by RajaRajeswari College of Engineering, Bengaluru. A team of twelve exceptional players emerged as champions, bringing immense pride to the institution.

Special recognition goes to Vice-Captain Deepthi M R (first batch) and Chaitanya N (second batch), whose stellar performances underscored the holistic growth fostered by CSD's curriculum. Their achievement reflects a balance of academic rigor and co-curricular engagement, inspiring peers and upholding the department's values of excellence and inspiring more mate to participate.

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This extraordinary success stands as a testament to the unwavering dedication, discipline, and perseverance of the students. Congratulations to the champions for their phenomenal accomplishments!

May these milestones inspire future victories and continue to bring laurels to the institution.

Redefining Design: How AI Is Transforming Designers into Curators

by Shreyas J

The design world is undergoing a profound transformation as artificial intelligence (AI) reshapes the role of designers. No longer confined to hands-on creation, designers are evolving into curators who prioritize strategy and experience over routine tasks. This shift, fueled by advanced design systems and AI technologies like large language models (LLMs), is democratizing design while redefining its practice.

Traditionally, designers have been valued for two key attributes: craft skills and taste. Craft skills involve the technical expertise to manipulate tools, while taste refers to the discernment required to refine designs into cohesive outputs. Historically, these skills set designers apart, enabling them to turn rough concepts into polished, audience-resonant products.

AI tools are now challenging this dynamic. By automating technical processes, they allow individuals without formal design training to bring their ideas to life. This shift enables designers to focus on higher-level decision-making, such as aligning design outputs with user needs and brand values.

Design systems are at the forefront of this revolution, offering pre-built acomponents that simplify and standardize design. These systems lower barriers to entry, enabling non-designers to create professional-quality outputs without extensive training.

While this streamlining improves efficiency, it also blurs the line between professional and amateur design, making the designer's role more about refining than building from scratch.

Large language models like GPT-4 further enhance this transformation by assisting with ideation, prototyping, and content generation. These AI tools can suggest layouts, color schemes, and UX patterns, accelerating workflows and enabling quick visual drafts. For designers, this means less time spent on routine tasks and more opportunity to explore creative and strategic dimensions.

The democratization of design has opened the field to professionals from various disciplines. While this inclusivity fosters innovation, it also poses challenges for quality control. Effective design requires more than assembling components; it demands a critical eye to ensure the final product communicates effectively and resonates emotionally. As non-designers leverage AI tools, the risk of "good enough" designs overshadowing truly impactful ones grows.

The future of design lies not in replacing designers but in redefining their roles. As creators become curators, their ability to combine taste with strategy will shape the next era of design, ensuring its continued relevance and impact.

Social Connect and Responsibility.
Krishi Mela-2024

Inaugurated by Agriculture Minister N Chaluvarayaswamy, the event underscored agriculture's critical role in India's economy. With over 75% of the population relying on agriculture, the Green Revolution's contribution to boosting food production remains pivotal. Food production reached 332.22 million tonnes in 2023-24, with a target of 437 million tonnes set for 2047.

This year's theme — "Climate Smart Digital Agriculture",. driverless tractor equipped with an automated boom sprayer was among the standout attractions, along with a coconut harvesting drone, the Krishi Bot for remote-controlled ploughing, groundnut sowing, fertilisation, and a multispectral drone for crop health assessment. Other highlights included the NSP seed portal, fertiliser calculator app, Cryagen Agri app, and Hydroporus vertical unit. Farmers also explored various technologies, including the Dharti Mitra and Meghadhoot apps, Arka Shine soil-testing kit, precision irrigation, and advanced horticulture systems, alongside drones, automated sprayers, and solar-powered equipment. Students got real-time exposure towards the industrial applications of what they are learning in class rooms. All the students expressed their heart-felt gratitude for having arranged this wonderful visit to GKVK.

SAP LABS
Industrial Visit

SAP Bengaluru

On November 13, the Department of Computer Science and Design (CSD) organized a highly anticipated industrial visit to SAP Labs, Whitefield, Bengaluru for all 5th sem students.

SAP Labs professionals conducted engaging sessions, shedding light on current IT trends, industry practices, and the challenges shaping the future of technology. Discussions revolved around topics such as sustainability in IT, the role of AI in enterprise solutions, and the transition to intelligent systems. Experts shared insights into SAP's methodologies. These sessions equipped students with a forward-looking perspective on how the industry is evolving and the skillsets required to thrive in this dynamic environment..

This interactive exploration not only deepened their technical understanding but also sparked curiosity about the potential of these technologies to solve real-world problems.

Witnessing the application of cutting-edge technologies reinforced their theoretical learning with practical relevance. Engaging with professionals provided a clearer picture of how businesses leverage technology to stay competitive. it was an eye opening experience that broadened their horizons and inspired them to aim higher in their academic and professional endeavors.

Witnessing the application of cutting-edge technologies reinforced their theoretical learning with practical relevance. Engaging with seasoned professionals provided a clearer picture of how businesses leverage technology to stay competitive. it was an eye-opening experience that broadened their horizons and inspired them to aim higher in their academic and professional endeavors.

Industrial visits like this one are instrumental in preparing students for the challenges of the tech-driven world. They provide invaluable exposure to cutting-edge practices, inspire innovation, and build the confidence needed to succeed in the competitive IT landscape.

AI and its Applications in full potential.

A-three-day Faculty Development Program (FDP) on "AI and its Applications" from 6th to 8th of May 2024 was organized in collaboration by the department of CSD, AI&ML, and AI&DS in SJCIT, it was surely a remarkable learning experience for the staff as well as for those students who participated. This three-day event provided a breadth of knowledge on basics of AI, its applications, and current trends, enriched by insights from industry experts and educationalists.

Day 1 featured a keynote from Prof Reema Thareja (SPMC, University of Delhi), followed by sessions with Dr Manjunath P B (BIT, Bangalore) on AI fundamentals and problem-solving agents, and Mr Shubham (Oracle, Bangalore) with an industry perspective on AI.

Day 2 included talks by Dr Gowrishanker and Asst Prof Harshini (BMSCE, Bangalore) on informed search strategies, and Dr G T Raju (SJCIT, Chikkaballapur) on logical agents and first-order inference.

Day 3 was led by Dr B Sathish Babu (RVCE, Bangalore), who presented on uncertain knowledge, reasoning, and expert systems.

The department as a whole is very glad to have hosted such an event, all the staff and students have actively participated in this program by utilizing the expertise of all the panelists.

Women Empowerment Program.

On May 23 2024, a transformative three-day workshop on "Full Stack Web Application Development" was hosted in collaboration by the Departments of CSD, AI & ML, and AI & DS in association with IEEE CIS, the world's largest technical professional organization, as part of its Women Empowerment Program. This workshop provided a solid foundation for beginners aspiring to build a career in web application development.

The program was led by distinguished resource persons, including Dr Megha P Arkeri, Professor at MIT Bengaluru and Vice Chair of IEEE CIS Bengaluru. Dr Arkeri is a dedicated IEEE participant and a prominent figure in the field. The stage was also shared by Mr Laxmana, Project Manager at Sramovation Labs, and Mr Mohammed Ameenul Hasan, a passionate web application developer from CISCO Bengaluru, who served as the main trainer for the workshop.

The interactive sessions guided students through developing two mobile applications—Employee Management and Bank Management—using Python, a versatile and in-demand programming language. Students delved deeply into these projects, covering essential front-end and back-end principles and integrating SQL for efficient data management. This practical experience, combined with mentorship from industry experts, equipped students with knowledge of real-world technical requirements and clarified career paths in engineering, providing a strong foundation for future endeavors.

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Crafting a Standout Portfolio: Essential Tips for Design Students

A strong portfolio is a key tool for design and development students aiming to showcase their skills to future employers or clients. Whether you're a designer or a developer, your portfolio is your chance to demonstrate not just your technical abilities, but your creative process and problem-solving skills. For design students, focus on displaying a variety of work: UI/UX designs, wireframes, prototypes, and branding projects. Highlight your design thinking by providing context for each project explain the challenge, your approach, and the outcome. Use tools like Behance or Dribbble to create a visually polished, professional online presence.

For development students, include projects that reflect both your coding and collaboration abilities. Feature web or app development work, and make sure to include links to your GitHub repository. This not only showcases your technical skills but also demonstrates your capacity to write clean, maintainable code.

No matter your discipline, always prioritize quality over quantity. Tailor your portfolio to the types of jobs you want, and keep it updated with new projects. Lastly, make sure your portfolio itself is user-friendly and easy to navigate—it's an extension of your design or development abilities. A well-curated portfolio is your personal brand, so invest the time to make it stand out.

On October 30, 2024, our college celebrated Kannada Rajyotsava with pride and grandeur, honoring the formation of Karnataka in 1956. It was a day filled with vibrant tributes to the state's rich culture, language, traditions, and heritage. Together as one community, we rejoiced in our love for Karnataka.

The event was graced by the divine presence of His Holiness Jagadguru Sri Sri Sri Dr Nirmalanandanatha Maha Swamiji, President of the Sri Adichunchanagiri Shikshana Trust, and Poojya Sri Sri Mangalanatha Swamiji, Secretary of the Sri Adichunchanagiri Mahasamsthana Math, Chikkaballapura Branch. We were also honored to welcome our esteemed Chief Guests: Dr. Sudhakar K, Member of Parliament; Sri H Shridhara Hande, Chief Executive of L&T Construction Equipment Ltd., Bengaluru; and Nadoja Dr Hampa Nagarajaiah, an eminent litterateur and renowned Kannada scholar. Our Guests of Honor included Kadabagere Muniraju, veteran playback singer and composer, and Dr N Shivarama Reddy, CAO of BGSGI, Chikkaballapura Division.

A highlight of the celebration was the traditional Poorna Kumbha procession, symbolizing prosperity and respect. It was an honor for the department of CSD to take responsibility for this important tradition, filling us with a deep sense of connection to our roots. As the guests arrived, they were greeted with the Poorna Kumbha, marking the start of a day that embodied the unity and strength of Karnataka.

Crafting Tomorrow's Innovators
Workshop on UML Design Patterns

In the ever-evolving world of technology, adaptability and a strong grasp of foundational principles are key to success. Recognizing this, the Department of Computer Science and Design hosted an enriching workshop from October 3 to 5, 2024. Equipping students with a deep understanding of UML design patterns using the cutting-edge Star UML modeling tool.

This three-day event exemplified the department's commitment to bridging academic knowledge and practical application. By blending theory with hands-on experience.

The workshop focused on demystifying UML (Unified Modeling Language), a vital tool for designing and documenting complex software systems. UML provides a universal language for developers, enhancing collaboration and precision. It also explored design patterns—reusable solutions to common software design challenges that streamline development.

Dr. Laxmana, Project Manager at Sramovation Labs, Bengaluru, covered the theoretical foundation, while Mr. Ameenul Hassan, a technology expert from Cisco, Bengaluru, demonstrated real-world applications, creating a well-rounded and engaging learning experience.

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The workshop transitioned seamlessly into an interactive learning experience under the guidance of Mr. Ameenul Hassan. With extensive expertise in software architecture, Mr. Hassan brought real-world insights to the table, bridging the gap between classroom knowledge and industry application.

The workshop reflects the Department of Computer Science and Design's commitment to offering students opportunities beyond traditional classroom learning. By engaging industry experts, the department ensures students become knowledgeable, adaptable, and innovative.

In a rapidly evolving technological landscape, mastering tools like Star UML and understanding design patterns is crucial for creating scalable, efficient, and maintainable systems. Initiatives like these prepare students to excel and contribute meaningfully to the tech-driven future, equipping them with knowledge, practical skills, and expert mentorship for a promising career ahead.

Our vision is to Building up-skilled Computer Professionals, enriched with interactive design skills as to serve the dynamic needs of the Industry and Society

Our mission is to Develop Innovative, Proficient and ethically strong Computer Design Engineers with design skills to meet Universal Challenges. Nurture competence as well as Applied Research activities to solve concrete problems. Aspire for constant up-gradation of engineering skills to cater the needs of the Corporate and Society. Imbibing the spirit of teamwork, core skills, professionalism and confidence to take the Leadership role.

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