DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER

SMVITM

Volume: 9

Issue: 1

January 2023 – December 2023

Volume: 9 Issue 1

AY: 2023-24

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Our Vision

To be recognized as a center of excellence in the field of Computer Science and Engineering imparting holistic education catering the needs of the society.

In This Issue

Our Mission

- Impart knowledge by providing a healthy learning environment.
- Encourage the zeal to be updated in technology front and abide by ethical and moral values.
- Engage in result oriented research and innovation to cater the societal needs.

SMVITM

Message from HoD

Greetings from the Department of Computer science and Engineering! On behalf of faculty members, staffs and students of the department of computer science and engineering, SMVITM, I welcome you all for the creative world of CSE. I personally believe that CSE discipline has been generally accepted as an important source and technique for enhancement in all realms of human life, both now and in the future. In the department, every student is given the chance to participate in their academic activities. This is the department where graduates publish articles in the most reputed international journals, while at the same time, students are encouraged to gain some recognition through extra-curricular or co-curricular activities. The department is associated with several associations like IEEE, ISTE etc, through that students will get a great platform to exhibit their talents. Students are expected to pursue ambitious assignments and to publish their work in different international journals. All students are taught to pursue an ideology that does not place limitations on their abilities to learn. The submissions of our students to numerous academic forums have demonstrated the earnest efforts of their professors at several stages. The Department puts a great focus on delivering practical education by properly handling the proper lab work to supplement their theoretical understanding. At the department, professors are committed to training students for a more substantial challenge ahead and nurturing them to create a solid base for the next step so that they can even exceed teachers and become more valuable to society.

About the Department

Today, most of the real world activities and fields, right from calculations to space exploration are being computerized as the operations can be much faster and error free with the computer applications. This has resulted in an increased demand for skilled and competent professionals in the computer engineering sector. To cater to this, the Department of Computer Science & Engineering was established at SMVITM in 2010, offering Bachelor of Engineering course with an intake of 60 students per year. The intake was raised to 120 students from the academic year 2012-13 and to 180 from the academic year 2022-23. The Department aims at training the students to be industry- ready by the end of their course through regular curriculum as prescribed by the University and also with supplementary programs, throughout their study.

The Department of Computer Science & Engineering is one of the much sought after departments at SMVITM. The Department has well qualified and motivated faculty members who are highly

committed to the overall development of the students.

Along with the regular curriculum, the Department organizes various guest- lectures/invited talks by eminent faculty from reputed institutions/industry experts to keep students up-to-date about the latest technological developments. In addition to this, there are some eminent academicians appointed as Adjunct Faculty with the Department to supplement teaching, mentoring and guiding the students as well as the faculty members and also to promote research culture in the Department.

The Department has state-of-the-art laboratories equipped with high-end computers and other required peripherals to meet the academic needs of students. The Department has the most sophisticated and state of the art computer labs aimed at giving hands-on training to the students in the most advanced areas in programming and software development. In addition to the existing labs, an internet lab as a central facility is being developed.

PEO's Program Educational Objectives

- PEO 1: The fundamental knowledge in Computer Science and Engineering to workin diverse fields of Computer Science and Engineering Industry.
- PEO 2: Ability to express and demonstrate the technological skill-set to arrive at asolution to the real-world problems
- PEO 3: Be effective contributors in a team, for multidisciplinary projects witheffective interaction amongst peers.
- PEO 4: The zeal of being updated in technology front through continuous learning.

PO's Program Outcomes

- PO 1   Engineering knowledge: Apply the knowledge of mathematics, science,
- engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2   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.
- PO 3   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.
- PO 4   Conduct investigation of complex problems: Use research-basedknowledge and

research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

- PO 5   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.

- PO 6   The engineer and society: Demonstrate the ability of using acquired knowledge to analyze and solve societal issues.

- PO 7   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.

- PO 8   Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

- PO 9   Individual and team work Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- PO 10   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 receiveclear instructions.

- PO 11   Project Management and finance: Demonstrate knowledge andunderstanding 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.

- PO 12   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 Outcome

- PSO1:   Be able to design, implement, test and evaluate a computer system,component or algorithm to solve a real world problem using appropriate datastructures.

- PSO2:   Be able to successfully adapt to the changes in the field of computer science& engineering for both personal and professional growth.

❖ *FDP on - Healthcare Analytics*

The inaugural function of Five Days Faculty Development programme on "Health Care Analytics" organized by Department of Computer Science & Engineering of Shri Madhwa Vadiraja Institute of Technology and Management in association with Biomedical Engineering Society of India and Indian Society for Technical Education was held on 09th January 2023. The faculty development programme is devoted to address the need of technological developments in data science and its allied fields. The aim of this FDP is to create an awareness on the usage of analytics and importance of security in the healthcare domain. Mr Somnath Jogi, Director, Kambala Solutions, Mangaluru was the chief Guest. He told that Learning is a continuous process and such faculty development programmes will help in improving the skillset. Such programmes have huge benefit as the knowledge acquired by the faculties can be imparted to the student fraternity. Shri RathnaKumar, Secretary, Shri Sode Vadiraja Mutt Education Trust Udupi was the Guest of Honor. He told that there is engineering behind every medical research happening in the present. He also told that such FDP's not only enrich the minds of the faculty but also give them new horizons to work in and it should be done regularly. Dr Thirumaleshwar Bhat was the president of the event. He appreciated the efforts of the computer science Department for organizing FDP on Health Care which is the need of the present days. Dr Ganesh Aithal, Vice Principal SMVITM was also present on the occasion. Dr. Soumya J. Bhat, HOD, Department of Computer Science & Engineering welcomed the gathering. Mr. Raghavendra I. Hegde, Department Coordinator of ISTE coordinated the event and introduced the

Chief Guest. Mrs. Preethi M Assistant Professor from Department of Computer Science & Engineering proposed the vote of Thanks. Mrs. Savitha A Shenoy, Senior Assistant Professor from Department of Computer Science & Engineering was the master of Ceremony for the inaugaral programme.

Valedictory function was commenced at 12.30PM on 13th Jan 2023 at CC III, admin block and Prof. Dr. Ganesh Aithal, Vice Principal, SMVITM Udupi, addressed the gathering. He spoke about the importatance of such sessions and appreciated and thanked all the resource persons and

organizing committee of the event. Participants shared their valuable feedbacks. Certificates were distributed to participants by Mrs. Suparna Shetty, Managing Director – Eterna Infotech. HOD of Computer Science and Engineering Dr. Soumya J. Bhat was present during the event.Mrs. Preeti M. was the master of ceremonyfor the valedictory function.

Dr. Thirumaleshwara Bhat – Principal, Dr. Ganesh Aithal – Vice Principal, Dr. SudarshanRao – Dean (IQAC) were the advisory committee members for this 5 days Faculty Development Program on 'Health Care Analytics'. Dr. Soumya J. Bhat – HOD, Dept. of CSE was the FDP Coordinator. Mrs. Savitha Shenoy, Mrs. Preeti M, Mr. Raghavendra I. Hegde – Assistant Professor(s), Dept. of CSE, Mrs. Gowri T. Bhat – Foreman, Dept. of CSE were the organizing committee members.

❖ *Hands on workshop on Programming skills development:*

The Department of CSE conducted a hands-on workshop on "Programming Skills Development" for the benefit of 3rd semester students fromFebruary 20 to 24, 2023.

The main objective of this course of study is to build on the skills gained by students in Object- Oriented Programming Fundamentals and help advance Java and C++ programming skills. Students will create object-oriented programmes and design object-oriented applications in Java and C++ using hands-on, engaging activities. The five-day course focused on object-oriented programming concepts, which assisted third-semester students in bridging the gap between the lower and upper semesters.

The course instructors for the training programme were Ms. Yashaswini Jogi, Mr. DeepakRao, Mr. Sharath Kumar, Ms. Sowmya S., Ms. Savitha Shenoy A., and Ms. Sowmya NH,all senior assistant professors in the CSE Department. Totaling 121 participants, they received hands-on training with respect to object-oriented programming using C++ and Java.

The valedictory session took place on February 24, 2023. Based on assessment and active participation, a few students were

identified as "best performers." Dr. Soumya J. Bhat, Associate Professor and Head, Dept. of CSE, handed out tokens of appreciation for Mr. Claton Robert Dsouza, Ms. Devadiga Trupti, Mr.

G. Chinmay, Mr. Rohav V., Ms. Vaishnavi Rao B., and Ms. Yuktha.

The training program was coordinated by Ms. Yashaswini Jogi, Assistant Professor (Sr.),CSE Department.

❖ *Hackotsava 2023*

The inaugural function of Hackothsava 2023, a state-level, 24-hour Hackathon organized by the Department of Computer Science and Engineering of Shri Madhwa Vadiraja Institute of Technology and Management in association with the Institution's Innovation Cell and

Indian Society for Technical Education was held on 2nd June 2023 at college premises. Kambala Solutions, Biwam India and Niveus Solutions were the partners for the Hackothsava 2023.

Dr. Geetha Maiya, Director of Student Affairs, Manipal Academy of Higher Education, Manipal was the Chief Guest. At the outset she congratulated all the participating teams. She emphasized that participation is more important than winning. Also she said that such events help in developing leadership qualities, teamwork, enhancing learning skills and problem solving capabilities. Dr. Maiya mentioned that Innovation and collaborative work are very important aspects in the present days. She said to the students that participation in such events help to develop the career of the students and they need to use these opportunities to emerge as young entrepreneurs.

Shri RathnaKumar, Secretary, Shri Sode Vadiraja Mutt Education Trust Udupi was the Guest of Honor. He congratulated all the participants and mentioned that it was a proud moment to have students from prestigious institutions across different parts of Karnataka.

Dr Ganesh Aithal, Vice Principal of SMVITM in his presidential remarks stated the importance of Hackothsava and requested the participants to participate enthusiastically in coding Quests. He

said that the educational application developed during Hackathon of 2021 helped solve rural area problems. He concluded by wishing the best to all participants.

Dr Soumya J Bhat, HOD, Department of Computer Science & Engineering welcomed the gathering. Mr. Deepak Rao M., Assistant Professor CSE briefed the rules and program flow.

Mr. Clinton from 3rd year Computer Science & Engineering and Ms. Shreya from 3rd year Electronics and Communication Engineering were the masters of Ceremony for the program.

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Mr. Prasad Pai K, Data Architect, Niveus Solutions was the Chief Guest of the program. During his address Mr. Pai highlighted that with the growth of manufacturing in India, IoT would gain more prominence and a synergy across branches of engineering would be very much essential. Speaking specifically about the Hackothsava 2023, he appreciated the efforts of the students, how they can further improve and seek a career in the IT Sector. He advised the students to be creative and implement reliable research as a part of their regular routine to excel.

Dr. Sadananda L, Associate Professor from Department of CSE read the winners list. Dr. Guruprasad, Associate Professor from the Department of Electronics and Communication Engineering proposed the vote of Thanks. Dr. Ganesh Aithal - Vice Principal, Dr. Soumya J Bhat- HOD -CSE and all the staff members of SMVITM were present during the event.

❖ *Resume Verification*

A resume verification session was conducted for the 6th-semester students of the Computer Science and Engineering (CSE) department. The purpose of this session was to ensure the accuracy and authenticity of the students' resumes and to provide them with valuable suggestions for improvement.

The verification process took place in Classroom 205 on 10th August 2023 at 2:00 PM and was coordinated by the following faculties Prof. Chaithra Bhat, Prof. Raghavendra GS, Prof. Dhanya and Prof. Deepak of the department.

Each student was requested to bring a hard copy of their resume. Each resume was meticulously checked for the information provided in the resumes. Any discrepancies or inaccuracies were noted for further review with the respective students. Upon reviewing the resumes, the verification team provided valuable suggestions and feedback to each student. Students were instructed to edit their resumes as per the feedback received and upload it in the google drive.

The resume verification session provided students with valuable insights into creating effective resumes that stand out in the competitive job market, which aimed to enhance the employability and professionalism of the students.

❖ *Visit to UniCourt India, Mangalore*

The Co-Curricular and Extra Curricular committee along with Placement and Training cell of Department of Computer Science and Engineering and Entrepreneurship Development Cell of Shri Madhwa Vadiraja Institute of Technology and Management Bantakal organized an industrial visit on 15th September 2023 to UniCourt India located in Mangalore for the students of CS&E.

Prashanth Shenoy, Katpadi CTO & Co-Founder Anuroop addressed the students and highlighted the importance of three key competencies - inquisitiveness, willingness to experiment, and problem-solving ability to emerge as successful professionals. Their Engineering Managers also conducted knowledge-sharing sessions where they showed a glimpse into the world of UniCourt by speaking to them on various technical topics, such as Court data and the challenges associated

with its Subscription Management, and Empowerment of engineers through AI tools. UniCourt celebrated the 'Engineer's day' on September 15, 2023, with the aspiring engineering students of Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal, Udupi. Around 47 students participated in the event and interacted with the resource person.

❖ *Workshop on Ethical Hacking and Cyber Security*

Department of Computer Science and Engineering, Artificial Intelligence and Data Science and Artificial Intelligence and Machine Learning in association with National Information and Cyber Security Council, ISTE Student chapter and IEEE student branch of SMVITM jointly organized a two days' workshop on "Cyber Security and Ethical Hacking" on 15th and 16th September 2023 at SMVITM.

Mr. Prameel Arjun, CEO, Prikus group & Head, Research and Operations, National Information and Cyber Security Council (NICC) was the chief guest and inaugurated the program by lighting the lamp. In his Inaugural address to the gathering, he said that the students must be equipped with the necessary knowledge and skills to understand and protect themselves against cyber threats, and to explore the ethical dimension of hacking. Also, he said that practical skills are needed to effectively secure digital assets against cyber threats.

Dr. Thirumaleshwara Bhat, Principal - in his presidential address expressed his gratitude to the team from National Information and Cyber Security Council (NICC) for conducting the workshop for the benefit of students and urged the participants to get the maximum benefits from the workshop.
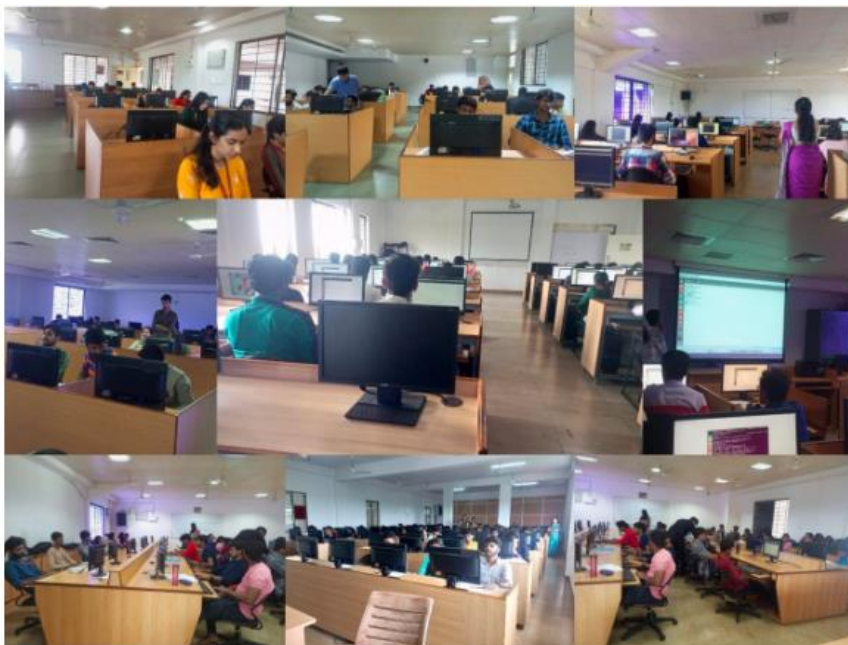
Earlier, Mr. Nagaraja Rao, Incharge Head, Dept. of AI & DS and AI & ML Engineering welcomed the gathering and gave the insights about the workshop He also discussed the importance of conducting such workshops for the benefit of the students.

Ms. Hithashree, student of 2nd year Data Science, invoked the blessings of the Almighty. Ms. Chandana of final year CSE, was the Master of the ceremony. Dr. Sowmya J Bhat, Head of the Department of CSE proposed vote of thanks. A total of 240 students participated in the workshop.

The workshop was concluded on 16th September 2023.A total number of 33 students were selected for the free internship program offered by National Information and Cybersecurity Council (NICC). Mr. Nagaraja Rao, Incharge Head, Dept. of AI & DS and AI & ML Engineering was the coordinator for the workshop. Dr. Soumya J Bhat, Head, Department of CSE, Dr. Sadanand L, IEEE coordinator for the institute, Mr. Raghavendra Hegde, ISTE Department coordinator for CSE were the coordinators for the stage events.

❖ *C Programming Session*

To enhance the C programming skills of CSE students for their upcoming placements important topics were discussed and their problem-solving abilities were assessed. The C Programming session held on September 22nd and 23rd, 2023, in collaboration with placement department was a comprehensive learning experience for the students of the Department of Computer Science and Engineering. The program was jointly coordinated by the department faculties and recently placed CSE students who served as mentors / coordinators.

The four-day C programming session held on September 22nd to 23rd and 26th to 27th, 2023, was a grand success. It provided students with a strong foundation in C programming, focusing on essential concepts such as loops, pattern generation, arrays, strings and basic arithmetic operations. The collaboration between the CSE placed students and department faculties ensured that the learning experience was practical and insightful. The programming test at the end of each session served as an excellent assessment of the students' skills and knowledge.

The focus on pattern generation programs and real interview-style questions enhanced the students' preparedness for placement interviews. Overall, this session was a valuable contribution

to the career development of Computer Science and Engineering students. It is expected to help them excel in technical interviews and secure good placements in the future.

❖ *Guest talk on "API LITERACY"*

IEEE student branch of SMVITM celebrated "WORLD IEEE DAY" on October 3 2023 at 3pm. On this occasion we organized guest talk on "API LITERACY" by Dr Mohit P Tahiliani, Chair IEEE Mangalore Subsection.

Dr. Mohit P Tahiliani, Chair IEEE Mangalore Subsection, served as the chief guest and inaugurated the program by lighting the lamp. During his inaugural address to the gathering, he emphasized that the students must access the benefits of IEEE membership. He encouraged students to design their own APIs for different project proposals and mentioned the availability of different funding options for project, scholarships for IEEE members, free course for IEEE as well as for non-IEEE members. He also underscored the benefits and usefulness of IEEE membership to the students as well as for faculties.

Dr. Thirumaleshwara Bhat, Principal - in his presidential address, expressed his gratitude to the team of IEEE student branch of SMVITM. He congratulated all IEEE members and suggested them to use the benefits of IEEE membership.

Earlier, Dr. Sadananda L, Associate Professor, Dept of CSE and also a IEEE college coordinator welcomed the gathering and gave the insights about the world IEEE day and importance of conducting session on "API LITERACY" session for the benefit of the students.

Mr. Ashwith P Poojary, final year CSE, invoked the blessings from the Almighty. Ms. Nidhi Patkar of 2nd year Data Science, compeered the program. Ms. Chandana, final year CSE proposed vote of thanks. A total of 125 students attended the session.

The program was concluded after wonderful session by chief guest Dr Mohit P Tahiliani at 4.45 pm on same day. Dr Ganesh Aithal, Vice principal, felicitated the chief guest Dr. Mohit P Tahiliani with a memento and cash as a token of love and affection from the college. Dr Mohit P Tahiliani has felicitated the Dr Sadananda L, institute IEEE coordinator from the IEEE Mangalore subsection.
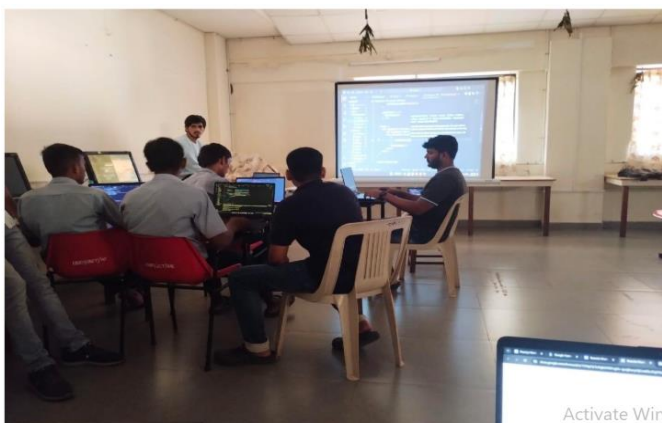
❖ *Android Workshop*

The Department of Computer Science and Engineering in collaboration with Co-curricular Committee of CSE department, SMVITM under Unnat Bharat Abhiyan organized the workshop on Android development for BCA students of St. Mary's College, Shirva. This session was conducted on 4th and 5th October 2023. Resource persons for this event were Ms. Savitha Shenoy, Assistant professor department of CSE and Ms. Sahana Karanth, Assistant Professor, Department of CSE of SMVITM.

Inaugural ceremony of this event was held on 4th October 2023 in Seminar Hall Admin Block of SMVITM.

On the occasion of inaugural ceremony Principal of St Mary's College, Shirva, Dr.Herald Ivan Monis was invited as chief guest of the function and Head of the department of Computer Science in St , marys College, Shirva Mr. K. Praveen Kumar was invited as the guest of honour. Head of the department of Computer Science and engineering, SMVITM Ms. Soumya J Bhat welcomed the guests. The workshop was inaugurated by lighting the lamp by dignitaries. Chief guest Dr. Herald Ivan Monis addressed his students and highlighted about importance of value-added courses and importance of good projects for placement. President of the ceremony Dr. Thirumaleshwara Bhat gave a presidential note and guided the students to take up projects and courses in latest technologies that will help them in future endeavors. Ms. Preethi M, Assistant professor Department of Computer Science and Engineering was the master of the ceremony for the event. Ms. Preethi M also gave a vote of thanks to all the gathered members. Ms. Chaitra Bhat from Computer Science department, SMVITM coordinated this session.

❖ *Workshop on "React JS"*

The Department of Computer Science and Engineering SMVITM under Unnat Bharat Abhiyan organized the workshop on React.js for diploma students of Indira Shivarao Polytechnic, Perampalli.

This session was conducted on 28th and 30th October 2023. Resource persons for this event

were Karthik Shanbhag, Shreyas, Sushant, Sainath Shetty and Shridhar who are final year students of Department of CSE of SMVITM. This workshop was held at Indira Shivarao polytechnic college. Ms.Chaitra Bhat from Computer Science department, SMVITM coordinated this session.

In the workshop the topic was all about the reactjs basics, backend server development, api's database etc. In the day one the topics trained was all about the internet, fundamental of internet, fundamentals of web development, advanced front-end tools, version control softwares such as git and github. During the day one of the students was trained on development of project through a one on one session.

The project was a cart app with the data from an external api. On day2, the topics covered were the server api development and the mongodb connection. Further, cart project of day 1 was continued and the application was connected with the backend project and the data was fetched from the mongodb server.

❖ *Workshop on "Web Development using React JS"*

The two days Peer learning hands on workshop on "Web Development using React JS" organized by Department of Computer Science and Engineering in association with ISTE student chapter, PlacementCell and Code Troopers club was inaugurated by Dr. Soumya J Bhat, Head, Department of Computer Science & Engineering, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi on 23rd November 2023.

Mr Shreyas Prabhu, Mr. Karthik Shanbhag, Mr. Shetty Sainath Bhaskar, Mr. Sushanth

Acharya and Mr. Sampath were the student volunteers and taught the basics of HTML, CSS and Javascript on 23rd. November 2023. The workshop continued on 24th November 2023 and Java script usage and basics of React JS were taught with hands on. A total number of 50 students of 3rd Semester CSE were benefited by the workshop. The event was held in CCC - Internet Lab, 3rd Floor,

Admin Block. Mr. Shridhar, student office bearer ISTE and Mr. Shreyas handled the registrations and feedbacks.

Dr. Soumya J Bhat, Associate Professor and HOD - Computer Science and Engineering, coordinated the event. Mr. Raghavendra Hegde - Assistant Profesor (Senior), Mr. Deepak Rao, Assistant Professor (Senior) and Ms. Chaitra Bhat - Assistant Professor were present during the event.

❖ *Web design competition "The WebCraft Challenge"*

Code Troopers Club of Department of CSE in association with IEEE Student Branch, ISTE Student Chapter, Co-Curricular committee and Hoppy Clubs, of SMVITM had organized a Web design Competition "The WebCraft Challenge" on 23 November 2023. The registration for the event was open till 11 November 2023 25 teams registered for the event. The registered students were given time till 22 November 2023 to develop a website which reflects the college fest related details.

The final round of evaluation was done on 23 November 2023 from 1.30 PM to 4.30 PM at CC4 Lab of Department of CSE, Third floor, Admin block.

Total of 14 teams participated in the final round which was judged by three members panel consisting of Mr.Raghavendra Hegde, Ms.Chaitra Bhat, Assistant professors in the department of CSE and Mr. Chethan R, Senior assistant professor in the department of ECE.

❖ *Workshops on "DATABASE MASTERY WORKSHOP: BRIDGING TECHNOLOGIES FOR MINI PROJECTS"*

A comprehensive two-day workshop tailored to equip 3rd-year students with the essential skills for their upcoming mini projects. The workshop was conducted by Mr Vikram Girish Thunga, former software engineer mangalore and trainer at vishraya technologies at present.

The workshop covered a spectrum of topics, commencing with an exploration of PHP, SQL, and front-end development on the first day. This

foundational knowledge paves the way for a seamless integration of back-end and front-end technologies.

On the second day, the focus shifted towards the dynamic realm of NoSQL databases, providing the participants with a holistic understanding of the advantages and applications. The workshop culminated with a half-day session dedicated to connecting Python and MySQL, a critical skill set for effective database management

By participating in this workshop, IEEE members/students were able to enhance their programming proficiency and also gain practical insights that are directly applicable to their mini projects in the upcoming semesters. This workshop promised to be a transformative experience, empowering students to navigate through the complexities of databases with confidence and skills. The total number of students who attended the workshop was around 60 including IEEE members. Certificates were distributed to all the learners. The workshop was concluded on 30th November 2023.

❖ *28 Hour Internal Hackathon*

The Department of Computer Science and Technology and Management, Bantakal in association with IEEE, ISTE, Hobby Project Club, IIC, and CODE TROOPERS organized "28-Hour Internal Hackathon" which was held on 12th and 13th December 2023 in the institute premises

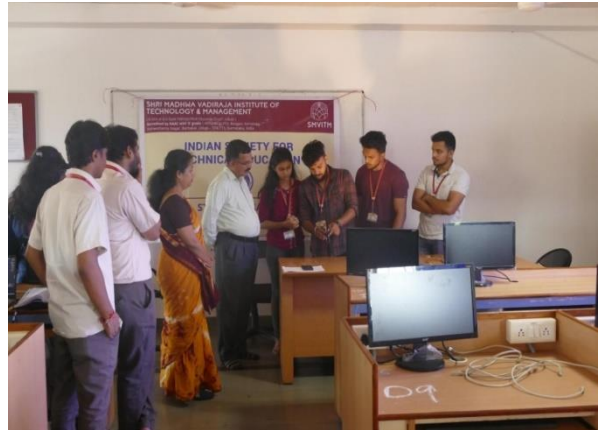Following the instructions, the hackathon commenced promptly, allowing teams to dive into ideation and project development without unnecessary delays. The preliminary round featured 52 software teams, each tasked with developing innovative solutions. After a rigorous evaluation, the number was reduced to 11 based on criteria such as creativity, technical proficiency, and project feasibility. In the hardware category, 4 teams initially presented their projects. Following a thorough evaluation, 3 teams progressed to the next stage based on factors like design complexity, functionality, and feasibility. Throughout the event, expert mentors provided valuable guidance to teams, offering insights into technical challenges, project scope, and overall execution. This mentorship component played a crucial role in enhancing the quality of the projects.

In the software section, "team-MP" secured the 1st place, followed by "team-Birmd" in 2nd place, and "team-code pundits" in 3rd place. In the hardware section, "team-X TO INFINITY" claimed the

1st place.

The Internal Hackathon at our college succeeded in providing a vibrant platform for students to explore, innovate, and collaborate. As an evolving tradition, this hackathon is poised to become a cornerstone in cultivating a culture of technological excellence within the college.

The event was organized by student coordinators Mr. Shridhar, Ms. Chandana, and Mr. Prathviraj from the Computer Science Department. Student volunteers included Mr. Naseer, Mr. Vikram, Ms. Anujna, Ms. Pooja, Ms. Trupthi, Ms. Rachana, Mr. Suhel, Ms. Shreelaxmi Kamath, Ms. Vaishnavi, and Ms. Sharanya.
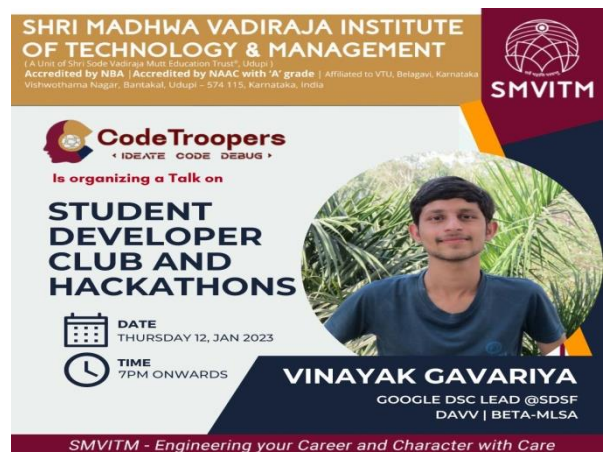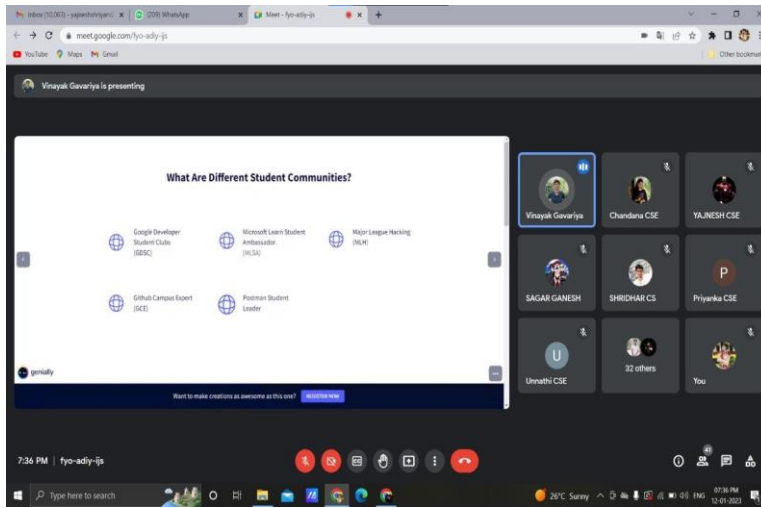

❖ *Virtual Talk Student Developer Clubs, Flagship Hackathons, and Open Source Development*

On 12th January 2023, the Code Troopers Club of SMVITM organized a virtual talk on the topic of "Student Developer Clubs, Flagship Hackathons, and Open Source Development". The speaker for the talk was Vinayak Gavariya, Google DSC Lead at SDSF, who shared valuable insights and information on the topic.

The talk began with an introduction to student developer clubs and the importance of being a part of such clubs. Vinayak highlighted the benefits of joining a student developer club. Then he discussed the concept of flagship hackathons and how they can be beneficial for students. He also discussed the importance of participating in hackathons to build connections and learn new skills.

The speaker also touched upon the topic of open-source development and the benefits of contributing to open-source projects. At the end the speaker shared tips on presenting their work and to make connections with the industry by being part of platforms like Google Student Developer Club, Microsoft Student Developer Club, MLH, GitHub.

The talk was well received by the audience and provided useful information to students interested in pursuing a career in the field of software development. The event was coordinated by Mr. Yajnesh of final year. The speaker was introduced to the audience by Ms. Chandana of third year and the vote of thanks was proposed by Mr. Shridhar of third year.

17

Placed students of 2022-23

Sl. No.	Name of the Company	Name of the Student	Position
1	Techologics Global Pvt. Ltd., Bengaluru	AKASH G S KUMAR	Intern - Trainee Engineer
2	Kyndryl India Pvt. Ltd., Bengaluru	ANJALI	Technical Engineer
3		ANJALI SHET	Technical Engineer
4		ANUSHA (SATHISH)	Technical Engineer
5		DEEKSHA SHETTIGAR	Technical Engineer
6		JELENA RIYA LEWIS	Technical Engineer
7		MOAZZAMI MUKTHAR AHMED	Technical Engineer
8		NIVEDITHA NANDA KUMAR	Technical Engineer
9		PURVASH P GANGOLLI	Technical Engineer
10		RANJANI	Technical Engineer
11		REON BRITTO	Technical Engineer
12		SARDAR AFIFA	Technical Engineer
13		SHREYA S (B SANTHOSH KUMAR)	Technical Engineer
14		SHRUTHA V BHAT	Technical Engineer
15		SRUSHTI H RAO	Technical Engineer
16		SUKANYA SHOBHANAND NAIK	Technical Engineer
17		VAISHNAVI D	Technical Engineer
18		VAISHNAVI K R	Technical Engineer
19		VAISHNAVI V BHAT	Technical Engineer
20	Juego Studios Pvt. Ltd., Bengaluru	KARTHIK H AMIN	Trainee Software Engineer Level 2
21		SUJITH PRABHU	Trainee Software Engineer Level 1
22		VISHWAS PRABHU	Trainee Software Engineer Level 1
23	Trianz, Bengaluru	NABEEHA BANU	Software Engineer
24	Hexaware Technologies Bengaluru	GOUTHAM N SHET	GET
25	AceMicromatic Manufacturing Intelligence Technologies Pvt. Ltd., Bengaluru	ADITHYA M SAMAGA	Software Engineer Trainee
26		SWASTHIK M ACHARYA	Software Engineer Trainee
27	Robosoft Technologies Pvt. Ltd., Udupi	GAURAV ACHARYA	Trainee Software Engineer
28		MANISH PRAKASHSHRIYAN	Trainee Software Engineer

29	ThoughtFocus Information Technologies Pvt. Ltd., Bengaluru	GOUTHAM N SHET	GET
30	Mangalore Infotech Solutions Pvt. Ltd., Mangalore	RAKSHITH H KALMADI	Software Engineer
31		SAMPATH KUMAR M G	Software Engineer
32		VIKRAM GIRISH THUNGA	Software Engineer
33	Hewlett Packard Inc, Bengaluru	ANANTHA KRISHNA RAMACHANDRA	Software Engineer
34	SKOLAR Bengaluru	VARUN	Business Development Intern
35	SKOLAR Bengaluru	AKASH	Business Development Intern
36		AKASH G S KUMAR	Business Development Intern
37		ARYAN S BATNY	Business Development Intern
38		CHAITRA S SHETTY	Business Development Intern
39		DISHASHREE	Business Development Intern
40		JEEVITHA	Business Development Intern
41		KAVYA	Business Development Intern
42		M SOWMITHA PAI	Business Development Intern
43		NISHMITHA	Business Development Intern
44		SHRADDHA B CHATRA	Business Development Intern
45		T SREESHA	Business Development Intern
46		UTTAM NAIK	Business Development Intern
47	HashedIn by Deloitt., Bengaluru	RAKSHITH H KALMADI	Software Engineer
48	Kambala Solutions Pvt. Ltd., Mangaluru	HARIPRASAD BHAT K	Software Engineer
49		KEERTHAN K KARKERA	Software Engineer
50		NITHANTH MARATE	Software Engineer
51		TEJAS S S	Software Engineer
52	Lekha Wireless Solutions Pvt Ltd., Bengaluru	AVANTI V RAO	Engineer - Trainee
53		PRASANNASHREE	Engineer - Trainee

Faculty development Program Attended by the faculty

Faculty name	FDP Details (Title, Organizer)
Dr. Sowmya J Bhat	Healthcare Analytics, SMVITM,Bantakal
	Applied Cloud Computing for Full Stack Web Development, TechSaksham
Dr. Sadanada L	Introduction to Python Programming & its Applications,,AICTE – VTU Joint Teachers Training Programme
	NLP and ChatGPT applications, SECAB Institut of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.
	One Week National Level Faculty Development Program on Cloud Infrastructure (AWS), AIT in Collaboration with Brainovision Solutions India Pvt Ltd. and AICTE
Dr. Bharti Panjwani	Python for Data Science-AICTE
	Innovation Ambassador Training, MoE's Innovation cell and AICTE
Ms. Sahana Karanth	Introduction to Python Programming & its Applications,,AICTE – VTU Joint Teachers Training Programme
	"Generative AI and Cyber Security", Reva University
	Research Methodology, NPTEL AICTE
	Programming, Data Structures and Algorithms using Python, NPTEL AICTE
Ms. Rukmini Bhat B	AICTE-VTU Joint Teachers training Programme on "Introduction to Python Programming & its Applications".
Ms. Sowmya N H	AICTE-VTU Joint Teachers training Programme on "Introduction to Python Programming & its Applications", VIAT, Muddenahalli, Chikkaballapura
	"Generative AI and Cyber Security", Reva University
	Research Methodology, NPTEL AICTE
Mr. Sharath Kumar	AICTE-VTU Joint Teachers training Programme on "Introduction to Python Programming & its Applications", VIAT, Muddenahalli, Chikkaballapura
Mr. Raghavendra Hegde	Introduction to Python Programming and its applications -AICTE- VTU joint Teachers Training Programme
	Healthcare Analytics, SMVITM Bantakal
	Cyber security, CBIT
Ms. Chaithra	AICTE–VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications"
	Programming, Data Structures and Algorithms using Python, NPTEL AICTE

	NLP and ChatGPT applications, SECAB Institut of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.
	Applied Cloud Computing for Full Stack Web Development, Tech Saksham(Microsoft, SAP and AICTE lead by)
Ms. Yashaswini A S	AICTE-VTU Joint Teachers training Programme on "Introduction to Python Programming & its Applications"
	Cloud Infrastructure(Aws), AIT-Chikkamagaluru
	NLP and ChatGPT Applications, SECAB Institute of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.
Ms. Vjetha Achar	Introduction to Python Programming and its applications -AICTE- VTU joint Teachers Training Programme
Ms. Preethi M.	Introduction to Python Programming & its Applications,,AICTE – VTU Joint Teachers Training Programme
	NLP and ChatGPT applications, SECAB Institut of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.
Ms. Soundarya R.	NLP and ChatGPT applications, SECAB Institut of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.
	Introduction to Python Programming & its Applications, AICTE
Ms. Savitha A Shenoy	Healthcare Analytics, SMVITM,Bantakal
Ms. Vandana U	Robotics & Artificial Intelligence, AICTE-VTU
Ms. Reshma	Applied Cloud Computing for Full Stack Web Development, TechSaksham
Ms. Payal Sudhakar Chaudhary	Python with data science, NPTEL AICTE
Mr. Raghavendra G. S.	NLP and ChatGPT applications, SECAB Institute of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd.
	One Week National Level Faculty Development Program on Cloud Infrastructure (AWS), AIT in Collaboration with Brainovision Solutions India Pvt Ltd. and AICTE
	AI & Cloud: Workshop on responsive AI in the cloud:Leveraging Generative powerin the Cloud, TechSaksham
	Applied Cloud Computing for Full Stack Web Development, TechSaksham
	National Faculty Development Program on NLP, Computer Vision and Artificial Intelligence, Andhra Pradesh State Skill Development Corporation(APSSDC)
Ms. Mahadevi	**Inculcating** Universal Human Values in Technical Education, AICTE
Ms. Babitha Poojary	Inculcating Universal Human Values in Technical Education, AICTE

Faculty as Resource person

Faculty Name	Event Details (Title, Type of the event)
Dr. Soumya J Bhat	Conference reviewer
Dr. Bharti	Reviewed papers
Dr. Soumya J Bhat	Paper review "A sensor node localization approach using a Nature-inspired Algorithm in a distributed Wireless Sensor Network"
Dr. Soumya J Bhat	Doctoral advisory committee member
Dr. Soumya J Bhat	Kavach 2023 evaluator
Dr. Soumya J Bhat	Conference reviewer for CISCON 2023
Dr. Sowmya J Bhat	reviewing manuscript entitled "Exploration of Different Topologies forOptimal Sensor Nodes Deployment in Wireless Sensor Networks using Jaya-Sine Cosine Optimization Algorithm" for The Journal of Supercomputing
Mr. Sadanada L	Paper Review
Dr. Sowmya J Bhat	reviewing manuscript entitled "Hybridized Dragonfly and Jaya algorithm forOptimal Sensor Node Location Identification in MobileWireless Sensor Networks" for The Journal of Supercomputing.
Mr. Shrinivasa	Patent Published on "Artificial Intelligence Based Approach forEvaluating and Revealing Consumer Insights Through Visual Analysis of Social Media images.
Ms. Rukmini Bhat B	Students won 2nd runner-up in Hackathon Competition
Mr. Shrinivasa	Patent Filed
Ms. Savitha A Shenoy	Guest talk on Communication Skill, Student Induction Program at Indira Shiva Rao Polytechnic
Ms. Sahana	Resource person for Android Workshop, for BCA Students of St. Marys College, Shirva
Ms. Sahana	Value added course, AI-ML,SMVITM
Ms. Yashaswini Jogi	5 days Hand on workshop on Programming Skills Development
Ms. Savitha A Shenoy	Invited talk on Job opportunities in CS/AI engineering for PU students

Faculty Publications

Faculty Name	Publication Details
Dr. Ganesh Aithal	Raghunandan Kemmannu Ramesh , Radhakrishna Dodmane , Surendra Shetty , Ganesh Aithal, Monalisa Sahu , Aditya Kumar Sahu, "A Novel and Secure Fake-Modulus Based Rabin-3 Cryptosystem"
	H. S Ranjan Kumar; Ganesh Aithal, Surendra Shetty "Group Key Management using Asynchronous Cipher System Based on XOR Vector Space and Pseudo Random Number Generation for Fog Environment"
	Basheer V P, Dr. Abdul Kareem, Dr. Ganesh Aithal "Soft Computing Based Sliding Surface Adjustment of Second Order Sliding Mode Controllers: An Application to Ship Steering Model"
	"Strategies For Secure Data Aggregation In Wireless Sensor Networks And Optimization Issues: A Comprehensive Survey"
	Sathisha Shetty,Abdul Kareem & Ganesh Aithal "Integration of Particle Swarm Optimization and Sliding Mode Control: A Comprehensive Review"
	Arun Upadhyaya, Shubha P. Bhat & Ganesh Aithal "A Security Enhanced Image Encryption and Compression Using Residue Number System and Discrete Cosine Transform"
	Basheer V P, Abdul Kareem, Ganesh Aithal , "Single Input Single Output Fuzzy Logic Control Based Sliding Surface Adjustment of Second-Order Sliding Mode Controllers"
Dr. Nagaraj Bhat	Geetabai S. Hukkeri; Sujay Raghavendra Naganna; Dayananda Pruthviraja; Nagaraj Bhat; R. H. Goudar "Drought Forecasting: Application of Ensemble and Advanced Machine Learning Approaches"
	Chowdari, K. K., Deb Barma, S., Bhat, N., Girisha, R., Gouda, K. C., & Mahesha, A., "Trends of seasonal and annual rainfall of semi-arid districts of Karnataka, India: application of innovative trend analysis approach". Theoretical and Applied Climatology, 152(1-2), 241-264.
Dr. Sowmya J Bhat	Karthik H Amin, Keerthan K Karkera, Manish Kumar Hj And Pooja Shettigar , "Public Bus Information and Tracking using IoT"
Dr. Sadananda L	Anusha,Jelena Riya Lewis Dhatri Tendulkar,Chaithrakala , "Driver Drowsiness Detection System"
	Nishith Shetty, Nithanth Marate, Nishanth Amin, Aniruddh Raveesh, "Classification of News Based on Location using ML Algorithms"
Dr. Bharti Panjwani	Dr. Bharti Panjwani "A Cascaded 2DOF-PID control technique for drug scheduling of chemotherapy system"
	Vijay Mohan Mit Manipal, T. Vigneysh And Nikhil Pachauri Mit "A cascaded NPID/PI scheme for the regulation of stack voltage in proton exchange membrane fuel cell"
Ms. Sahana Karanth	Sowmya S,Vineeth P Nayak "An efficient cryptographic technique to improve data privacy and security in e-commerce"

Mr.Deepak Rao	Snehal Shetty, Sumantha Shettigar And Vasuki Diggavi "Implementing Real Time Application of Vehicle Theft Detection and Protection"
	Shivani, Shraddha D S, Shraddha S Shetty, Shravya S, "Detection of Phishing Website Using Machine Learning"
Ms. Rukmini Bhat B	Purvash P Gangolli, Raksith H Kalmadi, Reon Britto, Sampath Kumar M G, Rukmini Bhat, "Fake Product Detection using Blockchain"
Ms. Savitha A Shenoy	Shreeraksha, Shrutha V Bhat, Thejas S S, Vikram G T, " Survey on various approaches and application of Machine Learning algorithms for medical diagnosis of heart abnormalities"
	Anusha, MIT Manipal, Savitha A Shenoy, SMVITM, Bantakal, Harish S V, MIT, Manipal, "A Study To Detect Emotions From Twitter Text Using Machine Learning Algorithms"
Ms. Yashaswini A . S.	Deeksha Shettigar, Jeevitha, Kavya, Nishmitha" Travel Guide Management System- Easy Viaje"
Ms. Sowmya N H	Krishna Prasad S Mechanical Engg Dept, Nmam Institute Of Technology Nitte, Karkala And Raghunanadan Kr Computer Science & Engg, Nmam Institute Of Technology Nitte, Karkala, "Image Based Crack Recognition on Concrete Structures Using Convolutionalal Neural Networks"
	Rakshith Acharya, Raksha B Kottari, Shreya S, "Multi-Doc Parser for scholarship System using Google Cloud Platform"
Ms. Preethi M	Varun, Dishashree, Kajal And Treshika," Sentiment Classification on Women's Safety across Indian Cities using Natural Language Processing and Machine Learning"
	Wilton Lobo , Suraksha Salian, Prajna Shetty And Shravya Smvitm ,"Text Summarization with Heart Disease Prediction"
Ms. Chaitra Bhat M	Vaishnavi V Bhat, Vaishnavi Kr, Vaishnavi D And Tarun Shetty, "Agricultural portal for better crop production"
Mr. Shrinivasa	A Review on Chronicle of Cloud Computing Security and Storage Environment Models
Ms. Yashaswini Jogi	Ranjani, Srushti H Rao, Sumana, Swathi Nayak , "Prediction of Ocular Diseases Using Convolutional Neural Networks
Mr. Sharath	Aryan S Batny, Sujith Prabhu, Shreekumar Vishnu Bhat And T Sreesh, "An Effective Algorithm for Share Trading and Bit-coin Prediction using AIML"
Ms. Dhanya Shenoy	Shreya S ,Swasthik M Acharya, Prathik V Shenoy, Preran S Jathan, "A Web Application Chronic Kidney Disease Prediction Using MachineLearning"
	Sukanya S Naik, Prajna S, Swathi K, Sachitha, " Movie Recommendation System"
	Rakshak Shet, Nithish Shetty, Suraksha Acharya, Guruprasad, "Unsurpassed Image Surveillance System"
Vijetha	Uchil Deepta L, Sardar Afifa, Qais Sheikh, Shraddha B Chatra , "Brain Tumor Detection Using Machine Learning"

Awards/achievements of the Faculty

Faculty Name	Achievement Details
Dr. Soumya J Bhat	Conference reviewer
Dr. Bharti	Reviewed papers
Dr. Soumya J Bhat	Paper review "A sensor node localization approach using a Nature-inspired Algorithm in a distributed Wireless Sensor Network"
Dr. Soumya J Bhat	Doctoral advisory committee member
Dr. Soumya J Bhat	Kavach 2023 evaluator
Dr. Soumya J Bhat	Conference reviewer for CISCON 2023
Dr. Sowmya J Bhat	reviewing manuscript entitled "Exploration of Different Topologies forOptimal Sensor Nodes Deployment in Wireless Sensor Networks using Jaya-Sine Cosine Optimization Algorithm" for The Journal of Supercomputing
Mr. Sadanada L	Paper Review
Dr. Sowmya J Bhat	reviewing manuscript entitled "Hybridized Dragonfly and Jaya algorithm forOptimal Sensor Node Location Identification in MobileWireless Sensor Networks" for The Journal of Supercomputing.
Mr. Shrinivasa	Patent Published on "Artificial Intelligence Based Approach forEvaluating and Revealing Consumer Insights Through Visual Analysis of Social Media images.
Ms. Rukmini Bhat B	Students won 2nd runner-up in Hackathon Competition
Mr. Shrinivasa	Patent Filed

❖ *Ms. Shrutha baht own the best ISTE student of the year award"*

Final year Student of CSE Ms. Shrutha baht has own the best ISTE student of the year award for the year 2022-23, the award function was held at CIT, Bangalore

❖ *Won Runner – Up prize in VTU Mangalore Zone Table Tennis tournament*

The CSE students of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal have won Runner – Up prize in VTU Mangalore Zone Table Tennis tournament held at Shridevi Institute of Technology, Kenjaru, Mangaluru on 12 July 2023. Also the team participated in the VTU Inter collegiate State Level table Tennis competition held at Kalpataru Institute of Technology, Tiptur, on 15th and 16th July 2023.

❖ *Won Winners Trophy TECH YUVA-2K23*

The students of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal have participated and won Winners Trophy in "TECH YUVA-2K23", A National Level Techno-Cultural & Sports Fest organized by Srinivas University Institute of Engineering and Technology , Mukka, Mangalore held on 22nd and 23rd June 2023.

❖ *1st Prize in Stand Up Comedy in "TECH YUVA-2023*

The Final student of CSE Mr. Swaroop Kumar has won 1st Prize in Stand Up Comedy in "TECH YUVA-2K23", A National Level Techno-Cultural & Sports Fest organized by Srinivas University Institute of Engineering and Technology , Mukka, Mangalore held on 22nd and 23rd June 2023.

❖ *won Runner – Up in Interzonal Table Tennis Tournament 2023*

The students of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal have participated and won Runner – Up in Interzonal Table Tennis Tournament 2023 held in Shri Devi Institute of Technology.

❖ *First place in the event Volley ball during "TECH YUVA-2K23*

The students of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal have participated and secured 1st place in the event Volley ball during "TECH YUVA-2K23", A National Level Techno-Cultural & Sports Fest organized by Srinivas University Institute of Engineering and Technology , Mukka, Mangalore held on 22nd and 23rd June 2023.

❖ *Secured Fourth Place Anveshana 2023 Science and Engineering Fair*

The 3rd year students of CSE Mr Mr. Vikram, Mr. Prathviraj and Ms. Panchami Hebbar have participated and secured 4th Place Anveshana 2023 Science and Engineering Fair (Regional) on 19th, 20th and 21st Feb 2023 Hubli-Dharwad.

❖ Third prize in 24 Hours National Level Hackthon-"ROOLTHON'

The 3rd year students of CSE Ms.Pooja, Ms.Anujna Prabhu,Mr. Vikram and Mr.Nazeerahmed nadaf have participated and won 3rd prize in 24 Hours National Level Hackthon-"ROOLTHON' organized by SIT IIC in association with GDSC, EDP and Yukthi cell from 21st Dec to 22nd Dec 2023.

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

SHRI MADHWA VADIRAJA

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust (R), Udupi) Affiliated to

the Visvesvaraya Technological University, Belagavi

Approved by AICTE, New Delhi & Recognized by Government ofKarnataka

Vishwothamanagar, Bantakal – 574 115, Udupi, Karnataka, India