

ISTE NEWSLETTER



INDIAN SOCIETY FOR TECHNICAL EDUCATION



Year: 2023-24



SMVITM

**SHRI MADHWA VADIRAJA INSTITUTE OF
TECHNOLOGY & MANAGEMENT**

Vishwothama Nagar, Bantakal - 574 115

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)

ISTE is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. The major objective of the ISTE is to provide quality training programs to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organisations.

SMVITM has been certified by ISTE, New Delhi as the Institutional Member (IM: 2248) in the year 2013. To extend the services from ISTE, an ISTE Student Chapter (KA-114) and ISTE Faculty Chapter (KA-118) has been formed to motivate faculty and student members in the institute to contribute their technical skills. All the teaching faculty in the institute are Life Members of ISTE and all students are also enrolled as ISTE Student Members during their period of engineering education in the institute. ISTE Chapters in SMVITM have been organizing several technical programs like National Conference, Seminars, Workshop, Faculty Development Program, technical competitions etc.

MOTTOS

- Career Development of Teachers.
- Personality Development of Students.
- Overall development of Technical Education System.

OBJECTIVES

- To apply curriculum and educational processes to changing conditions.
- To develop excellent teachers and educational administrators.
- To improve teaching methods and practices and administrative usages.
- To enhance Professional ideals and standards to improve academics.
- To make an effective linkage between technical institutions, industry and society.

FOR MORE DETAILS:



ISTE FACULTY CHAPTER 2023-24(KA-118)



PROF. DR. THIRUMALESHWARA BHAT
ISTE CHAIRPERSON & PRINCIPAL



SHASHIKALA R
SECRETARY



MR. CHETAN R
TREASURER



MS. CHANDANA
ECE DEPT. COORDINATOR



MR. RAGHAVENDRA HEGDE
CSE DEPT. COORDINATOR



MS. KAVYALAXMI
BASIC SCIENCE
DEPT. COORDINATOR



MS. VANDANA
AI-DS/AI-ML



DR. BHARATH BHAT
ME DEPT. COORDINATOR



MR. SUNIL HALDANKAR
CVE DEPT.
COORDINATOR

ISTE STUDENT CHAPTER 2023-24(KA-114)



**MR. TANMAY V
SHETTY**
COORDINATOR,
4TH YEAR
CV DEPT.



MS. ANKITHA BHAT
SECRETARY
4TH YEAR
ECE DEPT



MR. SHRIDHAR
JOINT
SECRETARY,
4TH YEAR
CSE DEPT



**MR. MOHAMMED
ATHIQ**
JOINT SECRETARY,
4TH YEAR
ME DEPT



**MS. KATHYAYINI
KAMATH**
ACTIVE MEMBER
3RD YEAR,
CSE DEPT.



MS. ANANYA K
ACTIVE MEMBER
3RD YEAR,
ECE DEPT



**MR. SWASTHIK
ACHARYA**
ACTIVE MEMBER
3RD YEAR,
CV DEPT



**MR. YOGENDRA
KUMAR SUTHAR**
ACTIVE MEMBER
3RD YEAR,
ME DEPT



**MS. K VAISHNAVI
BHAT**
ACTIVE MEMBER
3RD YEAR,
AI-DS DEPT



MR. SHIYAZ
ACTIVE MEMBER
3RD YEAR,
AI-ML DEPT

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1. CNC PROGRAMMING & HANDS-ON TRAINING

The Department of Mechanical Engineering in association with ISTE student chapter has organized 30 hours Professional Development Program on "CNC Programming & Hands-on training" for the benefit of 2nd year students of Mechanical Engineering. The Principal Dr. Thirumaleshwara Bhat inaugurated the program on 03 August 2023. In his address, he explained the importance of value added programs along with the regular academics. Also, appreciated the efforts of the organizers for planning a useful program for the benefit of the students. The course consisted of both theory sessions as well as hands on sessions with CNC machines. Mr. Sudhir and Mr. Karthik V were the resource persons of the program. Mr. Srikanth Shettigar, Sr. Instructor in the department conducted the hands-on sessions utilizing the CNC machines.



As a part of the program, an industrial visit has organized to Karavali Interiors and Furnitures, Manipal Industrial Area, Manipal. The students have exposed to several automated machines in the wood working industry including tape binding, cutting and loading. The students have experienced working with a CNC machine for woodworking and carving.



2. POSTER/COLLAGES (PROLUNA) & QUIZ (WHIZWIZARD)

Co-curricular committee in association with ISTE student chapter and Hobby Project Club organized poster /Collage & Quiz competition for students of SMVITM in the institute premises on 14th September 2023 in the seminar hall of the library block. Total 14 posters were exhibited enthusiastically by the students. Topic for both the competition was Lunar Mission of New India. The poster/ collage event was judged by Dr. Udaya Prasanna, Professor department of Mech, Dr. Bharathi P, Associate professor department of CSE and Mr. Roshan Kotian, Associate professor department of Civil Engineering. Two best posters were awarded with cash prizes.



The quiz prelims were held on the 14th. Total 20 questions were given to the participants. Out of that best 4 teams were selected to the final round. Final round was conducted on 15th September. Rapid Fire, Audio and Visual rounds were conducted and the team which scored highest points were given first and second place. The event was conducted by co-curricular coordinator Dr. Renita S Monis, Department of Mathematics. The prizes were awarded during Engineers Day celebration on 15/09/2023.



3. ENGINEER'S DAY CELEBRATION

"Engineer's Day" was organized on 15 September 2023 in association with ISTE & Co-curricular Committees. Dr. Sreejith Padinhatteeri, Assistant Professor, Manipal Centre for Natural Sciences was the chief guest. Ms. Akshatha Rao, Assistant Professor, Dept. of. ECE welcomed the gathering by highlighting the tremendous contribution of the Engineers in various fields and introduced the chief guest to the gathering.



Dr. Thirumaleshwar Bhat, Principal started the talk on the struggles and contributions of Sir M.V. Also he said that though Sir M.V himself was a civil engineer, his contributions were not only confined to civil engineering, Visvesvaraya Iron and Steel Plant stands out as a great witness to his contributions to the field of mechanical engineering. Dr. Bhat concluded his speech by motivating the young engineers and appealed to read about the great work and life led by Sir M.V.



What fascinated everyone the most from the ages is astronomy, sun and basically the sky. The chief guest started the talk by giving an introduction to astronomy and about the sun. As the chief guest was a part of Aditya L1, the next part of the lecture concentrated mainly on Aditya L1. The factors that influenced the study of the sun from space, the importance of L1 point and the Solar Ultraviolet Imaging Telescope (SUIT) were the other important takeaways of the wonderful session. The chief guest distributed prizes to the winners of various competitions which were held on account of Engineers Day.

4. TWO DAYS WORKSHOP ON "ETHICAL HACKING AND CYBER SECURITY"

Department of Artificial Intelligence and Data Science, Artificial Intelligence and Machine Learning and Computer Science and Engineering in association with National Information and Cyber Security Council, ISTE Student chapter and IEEE student branch of SMVITM jointly organized 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 knowledge and skills necessary to understand and protect against cyber threats, and to explore the ethical dimension of hacking.



Also he said that practical skills needed to secure digital assets and protect against cyber threats

effectively. Dr. Thirumaleshwara Bhat, Principal - in his presidential address expressed his gratitude to the team from National Information and Cyber Security Council (NICC) for imparting such workshop for the benefit of students and urged the participants to get the maximum benefits of the workshop. Earlier, Mr. Nagaraja Rao, In charge Head, Dept. of AI & DS and AI & ML Engineering welcomed the gathering and gave the insights about the workshop, importance of conducting such workshops for the benefit of the students. The workshop is concluded on 16th September 2023. Total 33 students were selected for the free internship program offered by National Information and Cybersecurity Council (NICC).



Mr. Nagaraja Rao, In charge Head, Dept. of AI & DS and AI & ML Engineering was the overall coordinator for the workshop. Dr. Soumya J Bhat, Head, Department of CSE, Dr. Sadananda L, IEEE coordinator for the Institute, Mr. Raghavendra Hegde, ISTE Department coordinator for CSE were responsible for coordinating for the stage events.

5. INDUSTRIAL VISIT TO VARAHI HYDEL PROJECT, KPCL, HOSANGADI

The Department of Mechanical Engineering, in association with Entrepreneurship Development Cell and ISTE student chapter of the institute has organized an industrial visit to Varahi Hydel Project, KPCL, Hosangadi on 29 September 2023 for the benefit of final year students of Mechanical Engineering

Industrial Visit helps to combine theoretical knowledge with practical knowledge. In this concern, Department of Mechanical Engineering, under the banner of Entrepreneurship Development Cell and ISTE Student Chapter has organized this visit. The

Varahi underground powerhouse has two stages with four generating units and is an engineering marvel as it is an underground powerhouse built by excavating a huge rock. A huge cave with a width of 20 metres and height of 30 metres is built for a length of 155 metres to house generation units and related components nearly 78 metres below the ground level.



In addition to this, nearly a km-long access tunnel has been excavated. Power plant consists of 4 High Head Pelton Turbines and the capacity per turbine is 115 MW (4 Units x 115MW = 460 MW). Dr. Bharath K Bhat Asst. Professor (Selection Grade) and Mr. Karthik V, Asst. Professor (Sr.) in the Department of Mechanical Engineering have accompanied the students.

6. PROJECT IDEATION



Civil Engineering Department of Shri Madhwa Vadiraja Institute of technology and management in association with ISTE student chapter organized a talk "Project Ideation-Design, Thinking and Innovation" to the Final year Engineering students. Speaking on this occasion Mr. Sunil Haldankar, Senior Assistant Professor, elucidated the students

on the ideation, or idea generation process is an essential element of the creativity and innovation found in the Enactus team . It not only focuses on generating potential solutions to a particular area of need , but also allows for an evolution of ideas , sometimes leading to a potential solution for a different areas of engineering. Ideation involves understanding the market, observe real people in real situations, Visualize “ new to the world” solutions, and the ultimate customer, Evaluate and refine prototypes, implement new concepts. In the second session Mr. Sunil Haldankar, gave an insights on Project work guidelines and rubrics for the each and every phases of evaluation. Ms. Deepika HOD Department of Civil Engineering, Mr. Madhusoodhana Rao, Coordinator, Department of Civil Engineering gave the welcome address, Mr. Tanmay Shetty proposed the vote of thanks and Mr. Hrushikesh compered the program.

7. INVITED TALK ON “PROBLEM SOLVING AND IDEA GENERATION”

Department of Electronics and Communication Engineering in association with ISTE Student Chapter and Entrepreneurship Development Cell had organized an invited talk on 11-10-2023. Mr. Santhosh Kumar, Associate Professor, Department of Computer Science and engineering, St Joseph college, Mangaluru was the resource person. The agenda of the session was briefed at the beginning. A short introduction to the topics related to different kinds of projects were discussed (Eg: product, research and hybrid). Various domains of projects like IoT, machine learning projects, networking projects were discussed.



This helped everyone to get ideas related to projects. Opportunities to get funding and novelty were discussed. Different project ideas were provided which made the session really interesting. Knowledge related to AI bots was imparted. Advantages of projects in ECE were briefed. This boosted the confidence in students.

8. CAREER GUIDANCE PROGRAM ON “ENTREPRENEURIAL CAREER PROSPECTS FOR ENGINEERS”



Department of Mechanical & E&C Engineering in association with EDC and ISTE Student Chapter has organized a seminar on Career guidance on “Entrepreneurial career prospects for engineers” at 12 PM on 13th October 2023 in class room number 010 of ECE department The purpose of this talk is to give mechanical engineering and E&C Students a brief idea about various jobs and organizations resulting in increase of employability. The seminar covered many venues of employment for student and job opportunities in various organizations. The speaker highlighted the participants to have entrepreneurial zeal.

9. CHALLENGES AND OPPORTUNITIES IN CONTRACTING



Civil Engineering Department of Shri Madhwa Vadiraja Institute of technology and management, ISTE student chapter in association with Alumni cell organized a talk “Challenges and opportunities in contracting”to the Final year Engineering students. Speaking on this occasion Er.Harshith Joshi, Propretor, Shivansh Constructions Pvt. Ltd. Enlightened the students

On the Challenges and opportunities in contracting in context with the present day aspects. He started the session with the difficulties and hurdles taken by him at the start of the career in various companies like CCCL. Construction company and Malavika construction company Udupi. Er. Harshith reminded

that Civil Engineering is a vast field, students has to take up the right path soon after the engineering in which domain students want to work, that's the catch. try to learn the small things like construction of compound wall, masonry wall and measurement of a small buildings. He also narrated the tendering process in PWD and other Govt. works. meaning of EMD, MD, Tendering documents and how to apply for getting as a PWD certified contractor.

10. INVITED TALK ON "MOTIVATION TOWARDS RESEARCH"



Department of Electronics and Communication Engineering in association with ISTE Faculty Chapter had organized an invited talk on 18-11-2023 at 11:30p.m in ECE Department Dr. Santhosh K.V., Professor, Department of Instrumentation and engineering, MIT, Manipal was the resource person. The agenda of the session was briefed at the beginning. A concise overview about research and its significance was provided. The distinctions between research and innovations as well as research and results were outlined. The significance of research initiation at the PhD level and notion of PhD was elaborated. The explanations regarding conferences, Journals and other aspects related to research was provided. The importance of publishing the technical work on various platforms like Tier-I IEEE conferences, Scopus-indexed journals, and Web of science was emphasized. The fundamental rules to be adhered to when writing a research paper was provided. The session inspired faculty to engage actively in research endeavors.

11. PEER LEARNING 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 was continued on 24th November 2023 and Java script usage and basics of React JS were taught with practicals. A Total 50 students of 3rd Semester CSE were benefited by the workshop.



12. 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 has organized a Web design Competition "The WebCraft Challenge" on 23 November 2023. 25 teams registered for the event. The registered students were given time till 22 November 2023 to develop a website which reflects 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 team participated in the final round.



13. GUEST TALK ON"OPPORTUNITIES IN SPACE SCIENCE"

IEEE student branch of SMVITM has organized guest talk in association with ISTE student chapter on the topic "Operation on Space Science" on 28 November 2023 at the college premises, for the benefit of the IEEE and ISTE members, students and faculties of SMVITM. The guest of the event is initiated his talk by motivating students and work in that direction to achieve in life. Addressing the students Dr. P.G. Diwakar gave an overview of research and achievements carried out by ISRO over the past decades in space science. He stated on how each one of us are connected to space in one or the other way through communication satellites placed by ISRO. He gave an insight of various types of satellites such as communication satellite, earth observation satellite.



He explained about NAVIC satellite system and highlighted its application in terrestrial, aerial and marine navigation, Disaster management,

Integration with mobile phones, ground water identification etc. He also mentioned the reason behind the successful chandrayan 3 and also mentioned various startups and job opportunities related to ISRO. He interacted with a students and resolved students doubts and queries.

14. RAIN WATER HARVESTING

Civil Engineering Department of Shri Madhwa Vadiraja Institute of Technology and Management in association with ISTE, Sthapathi and Environmental Club organised a talk on "Rain Water Harvesting in Urban Areas" by Dr. Sekhar Raghavan, Director, Akash Ganga trust Rain Centre, Chennai on 28-11-2023 at 3pm in seminar hall Admin Block. Shri Jagadish Acharya, Governing council member, Shri Harish Belman, Governing Council Member, Dr. Thirumaleshwara Bhat, Principal, Dr. Ganesh Aithal, Vice Principal, Dr. Sudharshan Rao, Dean quality assurance, Dr. Deepika , HOD, Civil Engineering Department of SMVITM were present for the program. Dr. Thirumaleshwara Bhat, Principal of SMVITM welcomed the gathering and explained the importance of implementing the rainwater harvesting in the campus. Shri Jagadish Acharya the governing council member of SMVITM addressed the gathering and introduced Dr. Sekhar Raghavan to the gathering and he also highlighted the good woks done by Dr. Raghavan in Chennai which helped to improve the quality and quantity of groundwater in Chennai.

Dr. Sekhar Raghavan called as The "Rain Man" of Chennai in his talk created the awareness about the importance of rainwater harvesting. In his session he explained the importance of rainwater harvesting for each and every region. He also said that we should find ways to save every drop of naturally available rainwater. He gave lots of information about the rain water harvesting done in the country. He explained the case studies of rainwater harvesting. He gave enough information about Rain centre started in Chennai during the time of Jayalalitha. He explained the calculation of rainfall which is much required before starting harvest. He said that the rainwater harvesting is the sustainable way of water management and it is the only way to sustain both our surface and subsurface water. He also said that the food security can be achieved by

harvesting paddy and water security can be by harvesting rain water.



15. 28 HOUR INTERNAL HACKATHON

The Department of Computer Science and Engineering of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal in association with ISTE, IEEE, 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. Unlike conventional events, our hackathon deviated from the norm by forgoing a formal inauguration ceremony. Instead, participants were promptly provided with a comprehensive set of instructions, including guidelines on project scope, evaluation criteria, and event logistics. This departure from tradition allowed for a more streamlined commencement of the hackathon, maximizing the time available for hacking and development. 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. At the conclusion of the hackathon, all 11 software teams and 3 hardware teams presented their projects through comprehensive demonstrations. Judges consisting of faculty members and industry professionals, evaluated each project based on innovation, technical complexity, and practical applicability. 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.



16. INVITED TALK ON "APPLICATIONS, CHALLENGES AND RECENT DEVELOPMENTS IN THE UTILIZATION OF SOLAR ENERGY"

Department of Mechanical and Civil Engineering of Shri Madhwa Vadiraja Institute of Technology and Management in association with Institution's Innovation Council and ISTE student chapter has organized an invited talk on "Applications,

Challenges and Recent Developments in the Utilization of Solar Energy” on the occasion of the National Energy Conservation Day on 14 December 2023. Dr. Arun Kumar H S, Senior Assistant Professor in the Department of Mechanical and Industrial Engineering, MIT, Manipal was the resource person of the program. In his address, briefed the various applications of solar energy in the engineering field. He has explained the various modes of utilizing solar energy and the photovoltaic energy conversion process. In addition, the speaker has thrown light on the challenges and recent developments in the utilization of solar energy.



17. TECHNICAL PAPER PRESENTATION COMPETITION -TECH CON

Co-curricular committee and hobby project club in association with ISTE student chapter and IEEE of SMVITM organized a technical paper presentation 'Tech Con' competition for students of SMVITM in the institute premises on 15th December 2023.



The paper presentation competition was organized for the students in the seminar hall of the admin

block. Total 12 papers were presented by the students based on the topic , Smart agriculture using IOT Technology ,Application of AI in manufacturing Industry , Cyber security, Solid waste management or green building.

18. NATIONAL MATHEMATICS DAY

The department of Mathematics in association with the faculty chapter of Indian Society of Technical Education (ISTE) of Shri Madhwa Vadiraja Institute of Technology & Management (SMVITM), Bantakal organised an invited talk on 20 December 2023 on the occasion of “National Mathematics Day” to commemorate 136th birthday of the great Indian Mathematician Shri Srinivasa Ramanujan.

Dr. S.M.Hegde, Professor, Department of MACS, NITK, Surathkal, was the speaker. In his talk he explained why Mathematics is called the mother of sciences and how we can find mathematics around us in nature. He inspired the students by taking up real life examples to explain how mathematics is used in some of the main domains like medical science, network analysis etc. He illustrated how mathematical modelling is used to achieve mathematical results and conclusions in day to day life. He urged the students to continue learning mathematics throughout their career. The students who scored 100 in Mathematics in the end semester examination were honored by the institution.



19. PEER LEARNING SESSION ON “INTERNSHIP OPPORTUNITIES AND INNOVATION”.

Department of Electronics and Communication Engineering in association with ISTE Student Chapter and Institution’s innovation cell had organized a Peer learning session on 11-12-2023 and on 22-12-2023 . Ms. Ananya K, 5th Sem ECE, Ms. Akshata Muralidhara Bailoor, Mr. Dhanush Devadas Shastri, Ms. T N Rakshitha Rao, 5th Sem students were the resource person. Ms. Ananya K gave a brief explanation about the Intra Internship. A clear understanding of the events and sessions that took place during the internship was provided. A concise overview of the communication session held during the internship was given. Ms. Akshata Muralidhara Bailoor gave a brief explanation about the Internship on Electric Vehicle. An overview of Electric Vehicles, including their uses, trends and more was presented.



A brief explanation about the various components employed in constructing an electric golf cart was also delivered. Mr. Dhanush Devadas Shastri, 5th Sem ECE, provided an overview of his project IOT in Smart Farming. A brief explanation about the problems faced by the farmers and their solutions was discussed. Product description and Market opportunity were also discussed. Ms. T N Rakshitha Rao, 5th Sem ECE, gave a brief explanation about the two devices developed by them in their internship. An overview of the Sponge detection device, the components used, and its uses were

provided. A brief explanation about the Pill dispensing Device, the components used, and its uses was also presented.

20. TALK ON “LINKEDIN OPTIMIZATION”

Department of Computer Science and Engineering in association with ISTE student chapter, Code Troopers Club, IEEE student branch and Alumni cell jointly organized a talk on “LinkedIn Optimization” on 1st January 2024. Alumni of SMVITM, Mr. Yajnesh who is currently working as Software Developer, Nobel Software Systems, Bengaluru was the resource person for the event. He spoke about LinkedIn profile creation and its significance and advantages. He also focused on usage of chatGPT and other AI tools for optimization of LinkedIn profile.



21. ONE DAY WORKSHOP ON: MAKING RESUME AND LINKEDIN PROFILES

On January 12, 2024, Dr. C K Manjunath conducted a comprehensive two-hour session on professional development aimed at equipping students with insights and tools necessary for their professional growth. This session was specifically tailored for students of the fifth semester 2021 Scheme. During the session, Dr. Manjunath provided guidance on crafting effective resumes, emphasizing the importance of grammar and individual strengths while cautioning against falsifying information. An assignment-like activity spanning the following week tasked students with creating resumes and sharing them with faculty members. Additionally, the significance of LinkedIn in professional networking was highlighted, with Dr. Manjunath demonstrating its utility in establishing valuable connections and introducing LinkedIn Premium's benefits, including a

complimentary one-year trial for college students. Overall, the session provided invaluable insights into professional development, arming students with practical knowledge essential for navigating the competitive professional landscape.



It is recommended to conduct more such sessions regularly to further enhance students' readiness for the workforce. Gratitude is extended to Dr. C K Manjunath for his informative session, with anticipation of future collaborations aimed at enriching students' professional journeys.

22. ONE DAY WORKSHOP ON PCB DESIGN USING OPEN SOURCE TOOLS

The Department of Electronics and Communication Engineering of Shri Madhwa Vadiraja Institute of Technology and Management, in association with the ISTE student chapter, organized one day workshop on "PCB Design Using Open-Source Tools" held on January 16, 2024, at the college premises. Dr Shashank M Gowda , Director of Invihub Techno Solutions, Bengaluru served as the resource person for the workshop. The workshop aimed to provide participants with insights into the world of Printed Circuit Board (PCB) design using open-source tools. Theoretical sessions provided in-depth insights into the principles and concepts of PCB design using open-source tools. In practical session participants engaged in hands-on activities, applying the theoretical knowledge to design and simulate PCB

layouts under the guidance of Dr. Gowda and his team members.



23. TWO DAYS WORKSHOP ON INTRODUCTION TO AI

The department of AI-ML and CS in association with ISTE student chapter organized two days The workshop h on 26th ,27th JANUARY 2024. On the first day attendees delved into Python basics and libraries, learning script writing, variables, data types, and essential commands for version control on GitHub. A refresher quiz added an interactive element, fostering engagement. Additionally, a hands-on session on Machine Learning algorithms empowered students to run models using popular tools and evaluate results.



On the second day focused on data visualization, exploring heart disease prediction with matplotlib and other tools. Linear regression was practiced, emphasizing applications and limitations, followed by a test to review learning. Project work was assigned for further exploration.

24. TALK ON CAREER OPPORTUNITIES IN CLOUD COMPUTING

A talk on "Career Opportunities in Cloud Computing" held on January 31, 2023, organized by department of Computer Science and Engineering in association

with ISTE student chapter, IEEE student branch, Co-Curricular Committee, Placement Cell and Alumni Cell was a valuable session for students aiming to pursue a career in the field of cloud computing. The distinguished speaker for the day was Mr. Rahul Thantri, alumnus of SMVITM and an accomplished professional, who is currently working at Siemens in Germany. The session shed light on various aspects of cloud computing and highlighted significant opportunities within the industry.

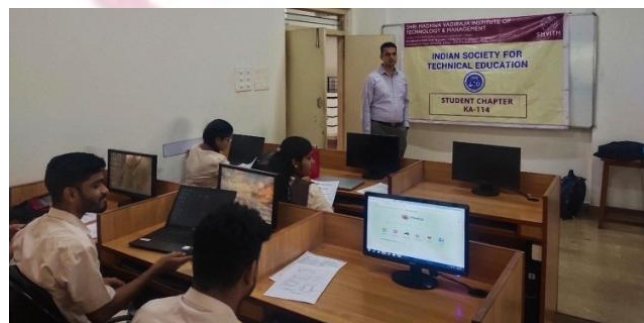


Mr. Rahul Thantri commenced the session by providing a comprehensive overview of cloud computing, elucidating its various models (Infrastructure as a Service - IaaS, Platform as a Service - PaaS, and Software as a Service - SaaS) and deployment types (public, private, and hybrid). The speaker emphasized the growing significance of cloud computing in the corporate world, illustrating how businesses across sectors are leveraging cloud services for enhanced scalability, flexibility, and cost-effectiveness. He also shared insights into the myriad career opportunities available in the field. He discussed roles such as cloud architect, cloud engineer, DevOps engineer, and cloud security specialist, highlighting the increasing demand for skilled professionals. The event was held in the Admin Block seminar hall from 09.45 AM to 11.00 AM. A formal function was held in the beginning. Principal Prof. Dr. Thirumaleshwara Bhat spoke about the significance of such sessions and urged the students to make best use of it.

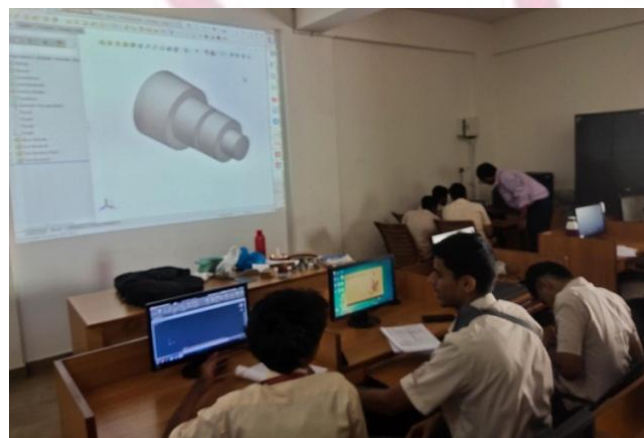
25. THREE DAYS VALUE ADDED PROGRAM ON CAD TOOLS

The Department of Mechanical Engineering in association with ISTE student chapter has organized three days of Value Added Program on "CAD Tools" for the benefit of 2nd and 3rd year students of

Mechanical Engineering on 29, 30 and 31 January 2024.



Mr. Guruprasanna K, Senior CAD trainer with vast industrial experience was the resource person of the program. The resource person in his three days of the sessions, explained in detail regarding 2D and 3D modeling using AutoCAD, Solid Edge, Solid Works and AutoDesk Fusion 360. Hands-on sessions have held and the students have exposed to modeling techniques and various commands used in above said CAD packages.



Also, the resource person briefed the students regarding Geometric Dimensioning & Tolerance. The resource person has distributed the certificates to the students on successful completion of the program.

26. INVITED TALK ON INNOVATION AND ENTREPRENEURIAL OPPORTUNITIES IN 3D PRINTING

Department of Mechanical Engineering in association Department of ECE, Civil Engineering, ISTE student chapter, ED Cell and Institution's Innovation Council has organized an invited talk on "Innovation and Entrepreneurial Opportunities in 3D

printing” on 15 February 2024 at 10.00 AM. Dr. Vijeesh V, Associate Director (R&D), NITTE Off-Campus Centre, NMAMIT, Nitte was the resource person of the program.



The resource person in his address highlighted the following points. Interesting innovations came out across the world, Need for innovation, Research activities at NITTE Off-Campus R & D Centre, Additive manufacturing & 3D printing basics, Ideas for student project works in 3D printing, Applications of 3D printing in Medical/Dental Sciences, Facilities available at NITTE Off-Campus R & D Centre, Start-up opportunities in the area of additive manufacturing and 3D printing.

27. TWO DAYS WORKSHOP ON BUILDING PLANNING & MARKING

Civil Engineering Department of Shri Madhwa Vadiraja Institute of Technology and Management in association with Alumni, ISTE, Sthapathi Club organized two day workshop, 07th and 08th February, 2024 on “Building planning & marking” to the Civil Engineering students. Speaking on this Er. Roshan S. Kotian, Alumni 2011-15 batch, Apex consultants Udupi. On day-1, gave insights on how to plan a simple two roomed building in Auto-cad

software as per building bylaws in the city area incorporating the setback distances provided by the local authority, Panchayath and city municipal councils. He also gave a tips on how to design Vastu for building construction which is the need of the hour in the present days.

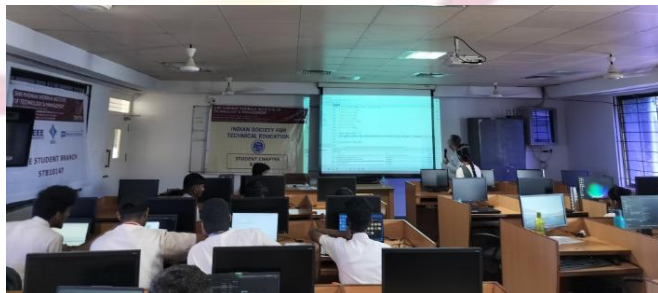


On day-2, Mr. Harish Acharya, Alumni 2018-22 batch, Apex consultants Udupi gave lots of information about the Planning and marking of buildings in which he worked under Apex consultants. Mr. Roshan S. Kotian, & Mr. Harish Acharya both took the hands session on building planning and marking of two roomed building in which students got the information of center line marking and knowledge of long wall short wall method of estimation. At the end of the program certificates were distributed to all the participants for the successful completion of two day workshop.

28. WORKSHOP ON ‘GUIDELINES FOR REAL TIME PROJECTS

Department of Computer Science and Engineering, in association with ISTE student chapter, Placement Cell and IEEE student branch jointly organized a Hands on workshop on ‘Guidelines for Real time projects’_on 17th Feb 2024, 9.30 AM to 01.00 PM at CAED lab Admin Block SMVITM. Mr. Chandrashekhara Rao Kuthyar, Lead Consultant, SangamOne connected services, Adjunct Faculty SMVITM was the resource person. He conducted a hands on session for of 5th Semester Computer Science and Engineering students about the database queries, analytics and maintenance, significances of various

platforms for web and app development. He also gave the insights on OTP generation in banking system for all kinds on financial and non-financial transactions.



29. TECHTALK

The Tech Talk event held on 23rd February 2024 at the Department of Electronics and Communication Engineering in association with ISTE student chapter at SMVITM, hosted by Ananya K, was a resounding success. The event aimed to provide a platform for students to showcase their knowledge and understanding of various technological topics. The judges for the event were esteemed personalities in the field, Dr. Nagraj Bhat and Dr. Bharti Panjwani. Good numbers of students have participated in this event. Students were given the opportunity to choose from a diverse set of topics for their presentations. Each participant presented their chosen topic with enthusiasm and depth of knowledge. After careful evaluation, the judges declared the winners, acknowledging the hard work and research put forth by the participants. The Techtalk event not only showcased the technical prowess of the students but also fostered an atmosphere of learning, collaboration, and innovation within the college community.



30. FACULTY DEVELOPMENT PROGRAM UTKARSH

The FDP was inaugurated on 18 March 2024 at 9:30AM in the college premises. Faculties from SMVITM and various other colleges participated in the FDP. The resource persons were Mr. Bhagavan S

K and his team from BNMIT Bangalore During the inauguration of FDP Mr. Bhagavan S K said that to teach 21th century students teachers must be equipped with all skillsets to meet their needs, to work towards success of the institution and also mentioned that the teaching learning is a lifelong process.



Sri. Rathnakumar, Secretary, Shri Sode Vadiraja Mutt Education Trust, Udupi was the chief guest and said we are fortunate to have such eminent personalities as speakers in this FDP. He said that modern technology has made the student to get information very fast but at the same time the students are becoming dependent on modern gadgets. He appreciated the principal and IQAC for organizing this FDP. He also launched the websites for the upcoming international conference to be held in the institute premises in the month of December 2024. Dr. Thriumaleshwara Bhat, Principal presided over the ceremony and said that a faculty place a major role in educating the youths of future generation. He said that such FDP will improve faculty skills in helping the students. Also he appreciated the faculties of this institution for their well-planned and organized work. The different sessions conducted on these five days on the topics like Outcome Based Education, Bloom's Taxonomy, Theory of Multiple Intelligence.



31. WORLD EARTH DAY

Department of Basic Science, in association with ISTE and the Environmental Club, organized World Earth Day on 22 April 2024. On this occasion, Dr. Sudarshan Rao K, Dean (QA) and Professor in the Mechanical Engineering department, delivered a talk on the theme "Planet vs Plastic".



During his talk, he discussed the history of Earth Day, its origins, aims, and previous Earth Day themes. He elaborated on plastics and their types, symbols (1 to 7), and safe plastic numbers (2, 4, and 5), along with the applications of each type. He also advised students against using dangerous plastics (3 and 6). Further, he discussed the importance of the 3Rs: Reduce, Reuse, and Recycle, emphasizing the effective recycling of plastic bottles. He cited the example of RCB wearing green jerseys made from plastic bottles on 21 April 2024, encouraging others to follow their initiative to go green. Dr. Rao highlighted the various green initiatives undertaken by SMVITM, such as solar power generation, sewage treatment plants, rainwater harvesting, LED bulb usage, BLDC fan usage, tree plantation drives, and effective waste collection and disposal.



Additionally, Dr. Rao offered tips to make everyday practices more sustainable, such as avoiding

disposable pens, using cloth bags instead of plastic ones, avoiding plastic cups and bottles, turning off taps, switching off and unplugging equipment when not in use, limiting screen time, using star-rated electrical appliances, walking more and driving less, and planting trees. He urged students to celebrate Earth Day every day and to be part of the solution to pollution, emphasizing the importance of loving and protecting the planet for future generations.

32. FINAL YEAR PROJECT EXHIBITION

Detailed report on the activity:

Co-curricular committee and Hobby Project club in association with ISTE student chapter and IIC of SMVITM, conducted Final Year Project Exhibition on account of National Technology Day in the institute premises. Experts nominated a total of 2 student projects as Best Projects from each department. The I prize was 3,000 and II prize was 2,000 cash was awarded at a farewell function on 11th May 2024. Program was coordinated by co-curricular co-ordinator Dr. Renita Sharon Monis.

Report of ME Projects:

Final year project exhibition was held by the Department of Mechanical Engineering, where 4 projects were exhibited enthusiastically by students. The live models of the project along with presentations and banners were exhibited by the students. 2 projects were design and fabrication based while the remaining 2 were research based in the areas of agribusiness and Mg alloy processing. The judges Mr. N Madhusoodhan Rao, Assistant Professor, Department of Civil Engineering and Dr. Manjunath, Assistant Professor (Sl. Grade), Department of Mechanical Engineering visited each of the projects and interacted with the students, as they highlighted the salient features of the projects including ideation, innovation, design, fabrication, testing and results obtained. The HOD and Department Project Coordinator, faculty and students of the department also took part in the project exhibition. HOD's, faculty and students of other departments also visited the project exhibition and interacted with the final year students.



Report of CVE Projects:

The Department of Civil Engineering has organized a Project Competition/Exhibition on 10th May 2024 at the Department premises. Total 04 student's Projects were displayed in the Civil Engineering Department. Out of them 03 projects were Sustainable construction practices/Societal related and the remaining were experimental and prototype. Experts were: (1)Dr. Manjunath, Assistant Professor(Sr.), Department of Mechanical Engineering. Professor gave valuable inputs to students on the project and also analysed/Judged all the exhibited projects critically. (2) Mr. Madhusoodhan Rao (Assistant Professor, Civil Engineering Department) also analyzed/ Judged , gave suggestions and motivated the students.

Report of ECE Projects:

The Department of Electronics and Communication Engineering has organized a Project Competition/Exhibition on 10th May 2024 at the Department premises. 16 project teams from the Department of Electronics & Communication Engineering exhibited project ideation at the department laboratory first floor. Various application oriented projects in the field of IOT, solar energy, Machine learning, robotics and embedded system based models were showcased by the students. Mr. Arun U., Assistant Professor (SG.), Dr. Shilpa Kamath, Associate Professor from the department of Electronics & Communication Engineering and Dr. Bharti Panjwani, Associate Professor from the department of Computer Science and Engineering interacted with the students of each project team and gave useful suggestions on their ideation, methods of implementation . They also analysed and evaluated the projects.



Report of CSE Projects:

The final year Ideation/project exhibition was held at Computer Lab 1 and Computer Lab 2 , featuring 28 project teams displaying their innovative work. This exhibition served as a platform for students to present projects utilizing cutting-edge technologies including Deep Learning, Image Compression, Internet of Things (IoT), Blockchain, Artificial Intelligence (AI), and Machine Learning (ML).





The faculty members including Dr. Ranjan ,Associate Professor, Dept of CSE, Dr. Vighnesh Shenoy ,Assistant Professor, Dept of AIML, and Ms. Rukmini Senior Assistant Professor, Dept of CSE engaged with each team, evaluating and providing valuable insights into the projects. Their expertise and feedback enriched the learning experience for participants.

33. TECH-LIKITH

Co-curricular committee & hobby Project club in association with ISTE student chapter conducted TECH-LIKITH, a technical article writing competition. A total of 12 students were registered from all different branches and 6 students written the articles. The received article topics included were Semi-Conductor Fabrication In India: Opportunities & Challenges, Successful Journey of Chandrayan, Industry 4.0 and Nuero Science.Finally, the 3 best articles were selected based on originality,clarity structure and overall impression. Winners were awarded by cash prizes during Farewell function which was held on 11 may 2024.

Consultant at SangamOne Connected Services Pvt. Ltd., was the resource person. The program aimed to equip participants with comprehensive skills aligned with the VTU syllabus (21CS62) and the demands of the industry. The immersive training provided hands-on experience in web development using Python Django, addressing the pressing need for proficient developers in this field. Through theoretical instruction and practical sessions, participants delved into responsive design, database management, and rapid application development. The program's curriculum was structured across five days, covering key aspects of full-stack development. Day 1 focused on Django installation, basic app creation involving Python logic, and data display from files to web pages. Day 2 delved into database operations, including insertion, retrieval, and integration with web content. Authentication and authorization for web pages were demonstrated on Day 3. Days 4 and 5 were dedicated to a mini-project, which participants completed and were subsequently evaluated. Mr. Pradeep Nayak from MITE, Moodbidri, was awarded the Best Participant based on project evaluation and active engagement throughout the sessions. The valedictory program, held on May 10th at Computer Center 3 of the Computer Science & Engineering Department, featured an address by Mr. Chandrashekar Rao Kuthyar, emphasizing the importance of hands-on project work to solidify understanding of full stack web concepts.



34. FDP ON FULL STACK DEVELOPMENT WITH PYTHON-DJANGO

The Faculty Development Programme on Full Stack Development with Python-Django, organized by the Department of Computer Science and Engineering in collaboration with the Indian Society for Technical Education, took place from May 6th to May 10th, 2024. Mr. Chandrashekar Rao Kuthyar, Lead

35. A TALK ON CAREERXCEL : SKILLS TO SUCCESS

The Department of Artificial Intelligence & Machine Learning/Artificial Intelligence and Data Science Engineering , Department of Electronics and Communication Engineering in association with ISTE organized "A Talk on CareerXcel : Skills to Success" which was held on 14th May 2024 in the Admin Block Seminar Hall. Mr.Pushpendra Singh, who is an Entrepreneur and Director of, Golden bird International, Dubai was the resource person for the

event. The resource person spoke about the 3 phases available in CareerXcel, ie, Technical Education, Non-technical education and also Work experience.



Technical Education includes Learning Python, Apps and Web Development using Android Studio, VS code, Adobe XT, Java HTML, CSS. Non-technical education includes: Top 5 AI tools, E-portfolio, Corporate Communication. Work experience included Internship details, Real time Industry Projects.

36. INVITED TALK ON "LINKAGES BETWEEN TECHNOLOGY AND GEOPOLITICS"

Department of Mechanical Engineering in association ISTE student chapter has organized an invited talk on "Linkages between Technology and Geopolitics" on 17 May 2024 at 02.00 PM. Dr. Anand V, Assistant Professor (Sr. Scale), Department of Geopolitics & International Relations, MAHE, Manipal was the resource person of the program.



The resource person in his address highlighted the following points. Meaning of Geopolitics, Meaning of Space in terms of Geopolitics, Evolution of Geopolitics, International relations, relationship

between Cinema industry and Geopolitics, Geopolitical dimensions of Science and Technology, Science & Technology in foreign policy, Industrial revolution and the world order, Impact of Science and Technology trends on Geopolitics

37. CIRCUIT DEBUG 2.0

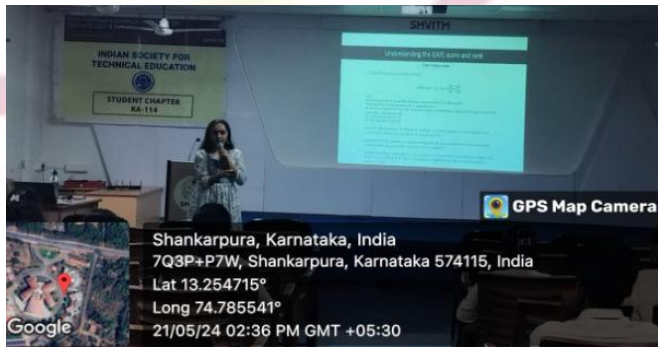
Electronics and Communication Engineering Departments Techno Crators Club in association with ISTE Students Chapter organized "CIRCUIT DEBUG 2.0" event on 22nd May 2024 at ECE Department. The "Circuit Debug 2.0" event, a stimulating and practical competition aimed at students from various engineering disciplines, was successfully conducted with enthusiastic participation and expert oversight. The event provided an excellent opportunity for students to apply their theoretical knowledge in a practical setting, fostering a deeper understanding of circuit design and debugging.



38. TALK ON "ROADMAP TO GATE PREPARATION"

A talk on "Roadmap to GATE Preparation" held on May 24, 2024 organized by department of Computer Science and Engineering in association with ISTE student chapter and Alumni Cell was a valuable session for students aiming to pursue masters through GATE. The distinguished speaker for the day was Ms. Shrutha V Bhat, alumna of SMVITM who has cleared GATE in 2023 and currently pursuing MTech at MIT Manipal. The session shed light on various aspects of GATE exam and highlighted significant opportunities in public sector. Ms. Shrutha V Bhat commenced the session by providing a comprehensive overview, steps for online application and important dates for GATE 2025. Being an alumna of the college and currently pursuing MTech at MIT Manipal, provided a unique perspective on how to stick with a time table in the third year of engineering for the upcoming GATE exam preparation. The speaker concluded by

offering valuable advice to students interested in pursuing masters and also gave insights on job opportunities in GAIL, SAIL, BHEL, ISRO, DRDO and many notable public sector units through GATE.



total of 6 student projects as Best Projects and three projects as consolation Prizes. The I prize was 3,000 and II prize was 2,500 cash and III prize was 2,000 and three consolation prizes 800 each. Total 6 best projects were awarded with cash prizes.

The competition was inaugurated by Mr. Bhargavram Udupa T, an alumnus and Software Engineer at Apica Bengaluru. He motivated the students by emphasizing the significance of undertaking projects that can enhance their resumes. Recalling his own involvement in organizing and participating in project development competitions during his time with ISTE in college, he urged the students to pursue similar endeavors.

39. STATE LEVEL AWARD

Mr. Prasanna G Shet of final year Electronics & Communication Engineering student of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal has been awarded with Prestigious Karnataka State Level Best Student of the Chapter Award for his overall performance and active involvement in organizing events under the ISTE Student chapter of the college for the year 2023-24.



The award was handed over to him during the inaugural ceremony of 19th Karnataka State Level ISTE Student Convention held on Friday 07th June 2024 at PES College of Engineering, Mandya. This is seventh time the student of this college is receiving this award.

Principal Prof. Dr. Thirumaleshwara Bhat emphasized that knowledge is something no one can take away from us. He stressed the importance of engaging in projects to acquire knowledge. Around 60 projects from first, second, and third-year students were showcased. The students exhibited their live models, presentations, and banners with great enthusiasm.

40. MINI PROJECT

Co-curricular committee in association with ISTE student chapter of SMVITM and Hobby Project Club, conducted Mini Project Exhibition in the institute premises on 8th June 2024. Experts nominated a



41. INVITED TALK ON “FUTURE TRENDS & OPPORTUNITIES IN CIVIL ENGINEERING”

The Civil Engineering Department in association with ISTE student chapter has organized an invited talk on “Future trends & opportunities in Civil Engineering” on 19 June 2024. Er. Bharath Nishan, Founder & Principal consultant, Sri Omkar Associates Kundapura was the resource person of the program. In his address Er. Bharath Nishan highlighted few information on Interesting innovations in Civil Engineering domain. He also mentioned on BIM software for facility management and utility services, Difference between a Civil and IT Engineer interms of channelization of jobs. He said that Applications of AI and 3D printing technologies have good opportunities in Civil Engineering projects. He also told about Startup opportunities/ Entrepreneurship opportunities in construction field. All students form Civil Engineering department were benefited by the talk.



42. INVITED TALK ON MECHANICAL PRODUCT DEVELOPMENT PROCESS

Department of Mechanical Engineering in association ISTE student chapter and Institution's Innovation Council has organized an invited talk on “Mechanical Product Development Process” on 21 June 2024. Dr. Arunkant Bhat, Senior Engineer, Westinghouse Airbrake Technologies, South Carolina, US, was the resource person of the program. The resource person in his address highlighted few points on Mechanical systems and their integration with respect to automotive industry, Parts of an automobile system, Designing systems and sub-systems, Stages in the designing of

an automotive systems (Tollgate process), Scope of design, Review of prior designs.



43. FACULTY CHAPTER AWARD

Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal has been awarded with Prestigious National Level Best ISTE faculty Chapter Award for the year 2023. The institution was recognized for its overall performance and active involvement in organizing events under the ISTE chapter of the college.



The award was received by Mr. Chetan R., Senior Assistant Professor, Dept, of Electronics and Communication Engineering who has coordinator of ISTE and immensely contributed for the activities conducted under ISTE chapter. The award was handed over to him on Saturday 22nd during the inaugural ceremony of 53rd ISTE National Annual Convention held at Kalinga Institute of Social Sciences , Bhuvaneshwar.

ISTE Best Faculty Chapter Awards



53RD ISTE NATIONAL ANNUAL FACULTY CONVENTION, ODISHA, BEST FACULTY CHAPTER AWARD 2023



16th Karnataka State Level ISTE convention, Bengaluru

Best Faculty Chapter Award
2019



49th ISTE National Annual Faculty Convention, Odisha

Best Faculty Chapter Award
2019

