

Centenary Celebrated Sharnbasveshwar Vidya Vardhak Sangha's



Prof. Dr. Sharnbasveshwar Appaji
Chairman, Sharnbasveshwar Vidya Vardhak Sangha
President, Sharnbasveshwar Vidya Vardhak Sangha



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ಶರಣಬಸವ
Sharnbasva
Kalaburagi - 585 103 Karnataka-India | Estd. : 2017



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University
ಶರಣಬಸವ - 585 103 - ಕರ್ನಾಟಕ - ಭಾರತ | ಸ್ಥಾಪನೆ : 2017



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FACULTY OF ENGINEERING AND TECHNOLOGY (EXCLUSIVELY FOR WOMEN)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Department Magazine 2022-23



GNVANA ECE INNOVATIONS

Poojya Dr. Sharnbaswappa Appa Chancellor, Sharnbasva University, Kalaburagi



Poojya Dr. Sharnbaswappa Appa

The field of Electronics and Communication Engineering is at the heart of the technological revolution that continues to shape the future of industries worldwide. It is inspiring to see how your department is contributing to the advancement of knowledge, fostering creativity, and preparing the next generation of leaders in this exciting domain.

Through your research, projects, and collaborations, you are not only creating a rich academic environment but also making meaningful contributions to society. I am particularly proud of how the department continues to push boundaries in various areas such as signal processing, telecommunications, embedded systems, and more.

I encourage all of you students, faculty, and staff to continue embracing innovation, teamwork, and a commitment to excellence. Let this magazine be a reflection of the bright future you are all helping to build. May it inspire new ideas, foster intellectual curiosity, and showcase the dynamic talent within your department. I convey my best wishes for the success of GNYANA ECE Innovations.

Poojya Matoshree Dr. Dakshayini S. Appa
Chairperson,
Sharnbasveshwar Vidya
Vardhaka Sangha



Poojya Matoshree Dr. Dakshayini S. Appa

Innovation requires passionate explorers to propel transformation at the workplace. With an ever-changing global scenario, the key to success is responding to the complex and rapidly changing in the field of electronics.

Electronics and Communication Engineering is a field that is constantly evolving, with emerging technologies shaping the way we communicate, interact, and experience the world. As we witness groundbreaking advancements in fields like AI, IOT, 5G, and beyond, it is crucial for us to not only embrace these changes but also to lead them. The future of technology depends on the passion, creativity, and dedication of the next generation of engineers, and it is inspiring to see how our department continues to contribute to this vision.

Wishing you all continued success and fulfillment in your academic and professional journeys.



As technology continues to advance at an unprecedented rate, the role of Electronics and Communication Engineers in shaping the future becomes increasingly vital. The department's unwavering commitment to excellence in teaching, research, and industry collaboration provides our students with the tools and knowledge needed to thrive in this fast-paced, ever-evolving sector.

This magazine serves as a wonderful reflection of the hard work and enthusiasm of our students and faculty. It provides a platform for sharing ideas, projects, and research that contribute to the global conversation on emerging technologies. It is inspiring to see how our department continues to produce future leaders who will drive innovations in fields such as telecommunications, embedded systems, signal processing, and beyond.

I look forward to witnessing your continued success and the remarkable impact you will have in the world of Electronics and Communication Engineering.

Prof. Shivganga Patil

HOD,ECE

Sharnbasva University



The field of ECE continues to evolve at an unprecedented pace, bridging the gap between foundational science and real-world application. As engineers of the future, our students are constantly challenged to stay ahead of the curve. This magazine showcases not only their technical capabilities but also their enthusiasm for learning, research, and holistic development.

I commend the efforts of the editorial team and all contributors who have made this publication possible. Through articles, project highlights, interviews, and achievements, this magazine captures the dynamic spirit of our department. It also serves as a platform for knowledge-sharing and intellectual engagement among peers and faculty.

Let us continue striving for excellence in both academics and innovation, nurturing a culture that blends technical knowledge with ethical values and social responsibility.

VISION & MISSION



**FACULTY OF ENGINEERING & TECHNOLOGY
(EXCLUSIVELY FOR WOMEN)**

**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**

VISION

To nurture women professionals through quality education, ethical values and expertise in electronics and communication engineering skills, enabling them to make contribution to society.

MISSION

- **Mission 1:** To provide a competent academic foundation in electronics and communication engineering, through comprehensive curricula.
- **Mission 2:** To promote research, innovation, and industry relevant skills enabling students to develop solutions for real-world problems.
- **Mission 3:** To create a supportive learning environment that inspires women to pursue entrepreneurship and make meaningful contributions to society.
- **Mission 4:** To foster ethical values in women professionals, to address global challenges with integrity and responsibility.



Electronics and Communications Engineering

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Awareness Program on “Creating Hope through Action”

Date: 21st September 2022

Resource Person: Dr. Mohammed Irfan Mahagavi, Psychiatrist, District Mental Health Programme, Kalaburagi

Organized by: Electronics and Communication Engineering Department

In observance of **World Suicide Prevention Day**, the Department of Electronics and Communication Engineering organized an awareness program titled “**Creating Hope Through Action**” on **21st September 2022**. The session aimed to address the growing concern of mental health issues among youth and promote a message of hope, resilience, and support.

The program was graced by **Dr. Mohammed Irfan Mahagavi**, a reputed psychiatrist associated with the **District Mental Health Programme, Kalaburagi**, who delivered an enlightening and thought-provoking session. Dr. Mahagavi emphasized the importance of early identification of emotional distress, destigmatizing mental health conversations, and encouraging a culture of empathy and active listening within academic environments.

Addressing students and faculty members, Dr. Mahagavi discussed key factors contributing to stress and suicidal tendencies among students, such as academic pressure, social isolation, and lack of mental health awareness. He also provided practical strategies for emotional well-being, stress management, and seeking help when needed.

The session witnessed active participation, with students engaging in a meaningful dialogue and expressing their concerns. The interactive nature of the talk created a safe and open space for participants to understand the seriousness of the issue while also learning about the support systems available.

This initiative reinforced the department’s commitment not only to academic excellence but also to the holistic well-being of its students. The program concluded with a vote of thanks and a collective resolve to foster a supportive and inclusive environment where every individual feels valued and heard.



Online Two-Day Workshop on “Quantum Computing and Communication: A New Paradigm”

Date: 28th February to 1st March 2023

Organized in view of: *DigitALL: Innovation & Technology for Gender Equality* — International Women’s Day Week 2023

Resource Persons:

- **Dr. S. Manjula Gandhi**, Associate Professor, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu
- **Dr. S. Gayathri Devi**, Associate Professor, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu

In celebration of **International Women’s Day Week 2023**, the Department of Electronics and Communication Engineering conducted an insightful **Online Two-Day Workshop** titled “**Quantum Computing and Communication: A New Paradigm**” from **28th February to 1st March 2023**. The event was held under the theme “**DigitALL: Innovation & Technology for Gender Equality**”, emphasizing the vital role of women in the advancement of cutting-edge technology.

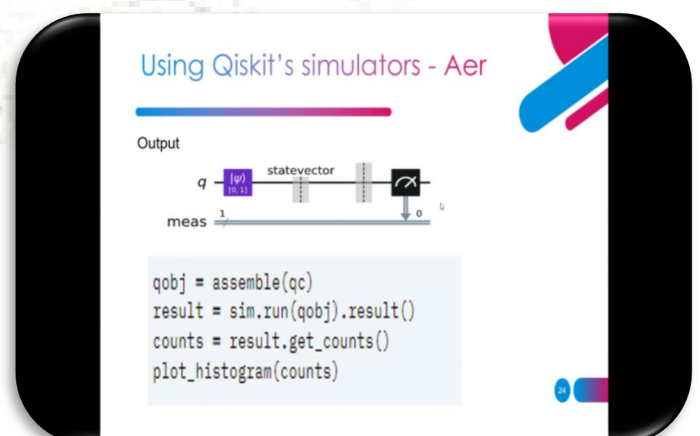
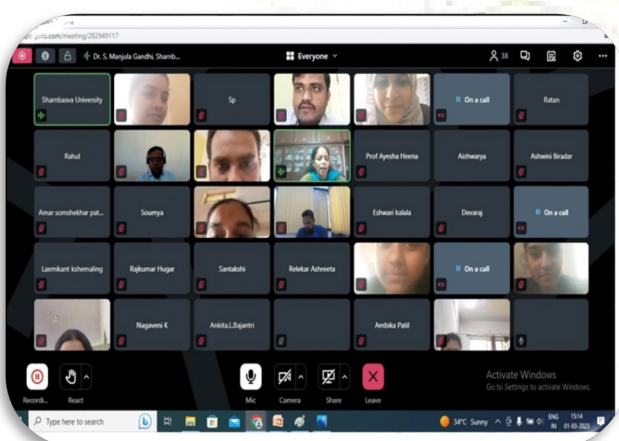
The sessions were led by eminent academicians and researchers — **Dr. S. Manjula Gandhi** and **Dr. S. Gayathri Devi**, both serving as Associate Professors at **Coimbatore Institute of Technology**, Tamil Nadu. Their expertise in quantum technologies and commitment to empowering students with future-ready skills made the workshop a valuable learning experience.

The workshop focused on the fundamentals and emerging trends of **Quantum Computing and Communication**, covering essential topics such as quantum gates, quantum cryptography, and the implications of quantum mechanics in secure communications. Participants gained insights into how this revolutionary field is poised to reshape the landscape of computing and data transmission.

Beyond technical knowledge, the workshop also served as a platform to highlight **gender inclusivity in STEM fields**, encouraging greater participation of women in innovation and research. The interactive sessions included live demonstrations, case studies, and thought-provoking discussions that enhanced engagement and understanding.

The event witnessed enthusiastic participation from students and faculty alike, reflecting a shared interest in embracing new technological paradigms. The department extends its heartfelt gratitude to the speakers for their valuable contributions and to all participants who made the workshop a resounding success.

This initiative reinforces the department’s ongoing commitment to promoting gender equity, academic excellence, and innovation through collaborative learning platforms.



One-Day Seminar on “WOMEN – MIND YOUR MIND”

Date: 22nd February 2023

In Association With: District Mental Health Programme, District Health Office, Kalaburagi

Resource Person:

Dr. Namdev Chawan, Consultant Psychiatrist, District Mental Health Programme, District Health Office, Kalaburagi

The Department of Electronics and Communication Engineering organized a **One-Day Seminar** titled “**WOMEN – MIND YOUR MIND**” on **22nd February 2023**, in collaboration with the **District Mental Health Programme** and the **District Health Office, Kalaburagi**. The seminar was aimed at promoting mental health awareness among women and fostering open conversations about emotional well-being.

The keynote speaker for the session, **Dr. Namdev Chawan**, a renowned Consultant Psychiatrist, shared his insights on the unique mental health challenges faced by women in various walks of life. Dr. Chawan emphasized the importance of **self-awareness, emotional balance, and stress management**, particularly for women juggling multiple responsibilities at home, in academics, and at the workplace.

The seminar highlighted crucial topics such as the signs and symptoms of mental distress, coping mechanisms, and the importance of seeking professional help without stigma. Dr. Chawan also discussed the role of mental health in overall well-being and personal growth, and the need to build a support system within educational and professional institutions.

The session was highly interactive, with active participation from students and faculty members. Many attendees appreciated the safe space created for open dialogue and self-reflection. Real-life examples and practical tips made the seminar relatable and impactful.

This initiative reflects the department’s continued efforts to address **holistic development** and **mental wellness**, especially among women, as a key component of academic and personal success. The event concluded with a message of hope, empowerment, and the collective responsibility to prioritize mental health.



Project Exhibition

Date: 17th December 2023

Organized by: Department of Electronics and Communication Engineering

Coordinated by: Prof. Shivganga Patil, Assistant Professor, Department of ECE, FETW, SUK

The Department of Electronics and Communication Engineering organized a **Project Exhibition** on **17th December 2023**, showcasing the innovation, creativity, and technical expertise of the department's students. The event served as a platform for final-year and pre-final-year students to present their academic and research-based projects developed over the semester.

Under the guidance and coordination of **Prof. Shivganga Patil**, the exhibition brought together a wide range of projects that demonstrated applications in areas such as embedded systems, wireless communication, robotics, IoT (Internet of Things), signal processing, and automation.

The primary objective of the exhibition was to encourage hands-on learning, foster teamwork, and provide students with an opportunity to apply theoretical knowledge to practical problems. Students confidently explained their project concepts, design methodologies, and outcomes to visiting faculty, peers, and evaluators.

The event also provided a platform for knowledge exchange, peer learning, and constructive feedback. A few standout projects were appreciated for their innovation, relevance to real-world applications, and technical execution.

The Project Exhibition reflected the department's commitment to nurturing **research-oriented thinking** and **engineering problem-solving skills** among its students. It also helped build communication skills and presentation abilities — essential traits for professional success.

The department congratulates all the participants for their enthusiastic involvement and extends appreciation to faculty mentors for their continuous support and guidance. Special thanks to **Prof. Shivganga Patil** for his excellent coordination in making the event a success.



Workshop on “Designing and Implementation of Software Defined Radios for OFDM, VLSI, and FSO Communication”

Dates: 3rd October to 7th October 2023

Organized by: Department of Electronics and Communication Engineering

Resource Persons:

- **Mr. Mahesh Shamrao Chudhari**
- **Dr. Vinod Kiran Kappala**
- **Dr. Sudhan Mahji**

The Department of Electronics and Communication Engineering organized a **five-day intensive workshop** on “**Designing and Implementation of Software Defined Radios (SDR) for OFDM, VLSI, and Free Space Optical (FSO) Communication**” from **3rd to 7th October 2023**. This technical workshop aimed to bridge the gap between academic learning and industry-oriented applications in the fast-evolving domains of wireless and optical communications.

The sessions were led by a team of distinguished experts: **Mr. Mahesh Shamrao Chudhari, Dr. Vinod Kiran Kappala, and Dr. Sudhan Mahji**, who shared their extensive knowledge and practical experience in advanced communication systems.

Key focus areas of the workshop included:

- Fundamentals and architecture of **Software Defined Radios (SDR)**
- Implementation of **Orthogonal Frequency Division Multiplexing (OFDM)** techniques
- Basics and applications of **VLSI design in communication systems**
- Introduction to **Free Space Optical (FSO)** communication and its role in high-speed wireless networks

Participants were provided with hands-on training using modern SDR platforms and simulation tools. Real-time demonstrations and coding sessions helped students better understand the integration of hardware and software in modern communication systems.

The workshop attracted enthusiastic participation from students, research scholars, and faculty members, and served as a catalyst for innovation and practical learning. It also opened up discussions on research opportunities and the future scope of SDRs in 6G, IoT, and secure communications.

The department expresses sincere gratitude to the resource persons for their valuable contributions and to all the participants for making the workshop a highly successful and enriching experience.



Expert Talk on “Research Challenges and Avenues in Photonics”

Date: 25th March 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Dr. Mahesh V. Sonth

The Department of Electronics and Communication Engineering organized an **expert talk** on “**Research Challenges and Avenues in Photonics**” on **25th March 2023**, aimed at enlightening students and faculty about the emerging frontiers and current challenges in the field of photonics — a rapidly growing area at the intersection of optics and electronics.

The session was delivered by **Dr. Mahesh V. Sonth**, an esteemed academician and researcher in the field. Dr. Sonth provided a comprehensive overview of **photonics technologies**, ranging from fiber optics and integrated photonic circuits to lasers and photonic sensors, and their diverse applications in telecommunications, biomedical engineering, and quantum computing.

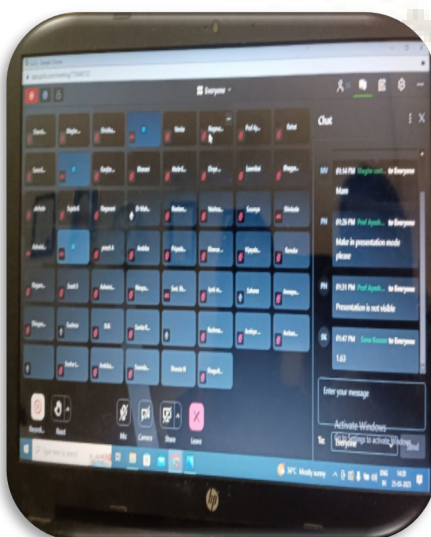
The talk covered important research directions such as:

- Miniaturization of photonic devices
- Enhancing data transmission capacity
- Challenges in photonic integration
- Emerging applications in **quantum photonics** and **biophotonics**

Dr. Sonth also highlighted the importance of interdisciplinary collaboration and encouraged students to explore photonics as a viable research and career path, especially in the context of **next-generation communication technologies**.

The session was highly interactive and informative, sparking curiosity among attendees and prompting thought-provoking questions. It served as a valuable knowledge-sharing platform and inspired participants to delve deeper into this cutting-edge domain.

The department expresses its heartfelt appreciation to **Dr. Mahesh V. Sonth** for his engaging and insightful session and looks forward to organizing more such expert talks that broaden the academic and research perspectives of students and faculty alike.



Expert Talk on “Robotics and Conceptual Thinking in Higher Education”

Date: 30th April 2023

Organized by: Department of Electronics and Communication Engineering

Resource Persons:

- **Dr. Plet Kommers**
- **Dr. Parameshachari B. D**

The Department of Electronics and Communication Engineering organized an enlightening **expert talk** on “**Robotics and Conceptual Thinking in Higher Education**” on **30th April 2023**, aimed at introducing students and faculty to the transformative role of robotics and innovative thinking in modern education and engineering disciplines.

The session featured two renowned speakers: **Dr. Plet Kommers**, an internationally acclaimed researcher in educational technology and human-computer interaction, and **Dr. Parameshachari B. D**, a distinguished academician in electronics and communication engineering.

During the talk, **Dr. Plet Kommers** emphasized the importance of **conceptual thinking** as a foundation for creativity, problem-solving, and technological innovation. He highlighted how robotics can serve as a catalyst for enhancing student engagement, fostering interdisciplinary skills, and promoting experiential learning.

Dr. Parameshachari B. D supplemented the discussion by focusing on the **practical applications of robotics** in engineering education and research. He also shared insights into how emerging technologies are reshaping curricula, and the need for educational institutions to adapt and evolve accordingly.

The expert talk covered key themes such as:

- Integrating robotics in project-based learning
- Enhancing conceptual understanding through simulation and design
- Role of AI and automation in education
- Preparing students for Industry 4.0 through innovative pedagogy

The department expresses sincere thanks to **Dr. Plet Kommers** and **Dr. Parameshachari B. D** for their thought-provoking presentations and for inspiring both students and faculty to embrace innovation in learning and teaching practices.



Expert Talk on “Career Opportunities in Artificial Intelligence”

Date: 30th April 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Mrs. Rashmi P

The Department of Electronics and Communication Engineering organized an insightful **expert talk** on “**Career Opportunities in Artificial Intelligence**” on **30th April 2023**, to guide students on emerging trends and professional paths in the fast-evolving field of AI.

The session was conducted by **Mrs. Rashmi P**, a knowledgeable expert in Artificial Intelligence and Data Science, who brought with her a wealth of experience in both academic and industry-related applications of AI.

In her address, Mrs. Rashmi provided a comprehensive overview of **how AI is transforming industries**, including healthcare, finance, transportation, manufacturing, and communication. She discussed various AI domains such as **machine learning, deep learning, natural language processing, computer vision**, and **robotics**, along with the skills required to excel in each.

Key highlights of the session included:

- Current and future trends in AI careers
- Essential programming languages and tools (e.g., Python, Tensor Flow, PyTorch)
- Importance of mathematical and analytical skills
- Roadmap for building a successful career in AI
- Role of internships, certifications, and continuous learning

Mrs. Rashmi also encouraged students to begin early by participating in online courses, AI projects, and coding competitions. She emphasized the need for a strong foundation in data structures, algorithms, and real-world problem-solving.

The session was highly interactive, with enthusiastic participation from students who posed thoughtful questions regarding internships, higher education in AI, and entrepreneurial opportunities in the field.

This expert talk served as a valuable guide for aspiring engineers looking to build a future in one of the most dynamic and impactful areas of technology. The department expresses its sincere appreciation to **Mrs. Rashmi P** for her informative and motivating session.

Seminar on “Importance of Mental Health”

Date: 16th July 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Mrs. Ashwini R

The Department of Electronics and Communication Engineering organized an awareness seminar on “**Importance of Mental Health**” on **16th July 2023** to promote emotional well-being and create awareness about mental health among students and faculty members.

The session was conducted by **Mrs. Ashwini R**, a passionate mental health advocate and counselor, who provided deep insights into understanding, managing, and prioritizing mental wellness in today’s fast-paced and stressful environment.

During the seminar, Mrs. Ashwini emphasized that mental health is just as important as physical health, especially in academic settings where stress, competition, and expectations can take a toll on students. She discussed common mental health issues such as **anxiety, depression, stress, and burnout**, along with effective strategies for self-care and emotional resilience.

Key points covered in the session included:

- Recognizing early signs of mental distress
- Building healthy habits and coping mechanisms
- The role of peer support and open communication
- Breaking the stigma around mental health
- When and how to seek professional help

The seminar was interactive and well-received, with students actively participating and sharing their thoughts and experiences. Mrs. Ashwini’s warm and approachable communication style made the audience feel comfortable and encouraged self-reflection.

This initiative reinforced the department’s commitment to the **holistic development** of students by addressing not only academic but also emotional and psychological well-being. The department extends heartfelt thanks to **Mrs. Ashwini R** for her impactful session and for raising awareness on such a crucial topic.

Seminar on “Classification and Identification of Electronics Components”

Date: 14th June 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Dr. Basanti Ghanti, Professor, Department of ECE, FETW, SUK

The Department of Electronics and Communication Engineering conducted a highly informative **seminar** on “**Classification and Identification of Electronics Components**” on **14th June 2023**. The seminar aimed to enhance students’ foundational knowledge of various electronic components that form the backbone of modern electronic circuits and systems.

The session was delivered by **Dr. Basanti Ghanti**, a respected professor in the department, who brought her extensive expertise to guide students through the diverse categories of electronic components, their functions, and identification techniques.

Key topics covered during the seminar included:

- Classification of passive and active electronic components
- Understanding component symbols and specifications
- Techniques for identifying components using datasheets and testing equipment
- Practical applications of resistors, capacitors, inductors, diodes, transistors, and integrated circuits
- Importance of correct component selection in circuit design and troubleshooting

Dr. Ghanti emphasized hands-on learning by demonstrating real components and encouraging students to familiarize themselves with industry-standard identification tools and methods.

The seminar witnessed active participation from the students, who engaged with questions and shared their experiences working with electronic components in lab sessions and projects. This session significantly contributed to building a strong foundation necessary for practical electronics engineering.

The department expresses its gratitude to **Dr. Basanti Ghanti** for her valuable contribution and dedication towards enriching the students’ technical knowledge and skills.



Expert Talk on “Portfolio Risk Analysis”

Date: 17th May 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Ms. Ganga Patil, Senior Financial Advisor, ICICI Bank, Kalaburagi

The Department of Electronics and Communication Engineering organized an insightful **expert talk** on “**Portfolio Risk Analysis**” on **17th May 2023**, aimed at introducing students to the fundamentals of financial risk management and investment strategies.

The session was delivered by **Ms. Ganga Patil**, Senior Financial Advisor at ICICI Bank, Kalaburagi, who brought extensive practical knowledge in the areas of portfolio management, risk assessment, and financial planning.

During the talk, Ms. Patil explained the key concepts of portfolio risk, including market risk, credit risk, and operational risk. She discussed various tools and techniques used to analyze and mitigate risk in investment portfolios, helping students understand the importance of balancing risk and returns in financial decision-making.

The session also covered topics such as asset allocation, diversification strategies, and the role of quantitative analysis in portfolio management. Ms. Patil emphasized the relevance of these concepts not only for finance students but also for engineers interested in entrepreneurship and management roles.

The interactive session encouraged students to think critically about financial planning and risk, providing practical examples and case studies from the banking and investment sectors. Participants actively engaged by asking questions related to career opportunities and certifications in finance.

The department expresses its sincere gratitude to **Ms. Ganga Patil** for her valuable insights and for inspiring students to broaden their horizons beyond core engineering disciplines.



Expert Talk on “VLSI Career Insights and Opportunities”

Date: 4th June 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Mr. Ravi Siddanath, Principal Engineer, Broadcom Inc.

The Department of Electronics and Communication Engineering hosted an engaging **expert talk** on “**VLSI Career Insights and Opportunities**” on **4th June 2023**. The session was designed to provide students with a clear understanding of career pathways and the evolving landscape of Very Large Scale Integration (VLSI) technology.

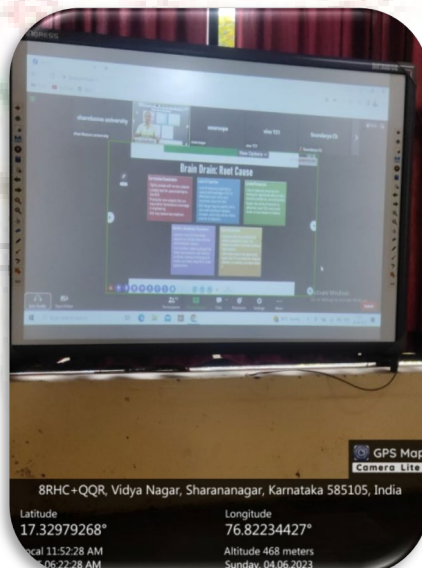
The talk was delivered by **Mr. Ravi Siddanath**, Principal Engineer at Broadcom Inc., who brought his rich industry experience and technical expertise to the session. He discussed the significance of VLSI in modern electronics, highlighting its pivotal role in designing integrated circuits that power everything from smartphones to high-performance computing systems.

Mr. Siddanath elaborated on various career options available in the VLSI domain, including chip design, verification, physical design, and testing. He also emphasized the importance of mastering relevant skills such as HDL programming, ASIC design flow, FPGA development, and familiarity with EDA tools.

The session provided practical advice on building a successful career in VLSI, including guidance on internships, certifications, and continuous learning. Mr. Siddanath also shared insights into emerging trends such as low-power design, AI hardware accelerators, and system-on-chip (SoC) architectures.

The talk was interactive, with students actively participating and seeking advice on skill development and industry expectations. This expert session was instrumental in motivating students to explore opportunities in the high-demand and ever-evolving field of VLSI.

The department sincerely thanks **Mr. Ravi Siddanath** for sharing his valuable insights and contributing to the professional growth of our students.



Expert Talk on “Exploring Entrepreneurial Opportunities”

Date: 9th November 2023

Organized by: Department of Electronics and Communication Engineering

Resource Person:

Shri Siddaram Hebbal

The Department of Electronics and Communication Engineering organized an inspiring **expert talk** on “**Exploring Entrepreneurial Opportunities**” on **9th November 2023**, aimed at encouraging students to develop an entrepreneurial mindset and explore the dynamic world of startups and business ventures.

The session was delivered by **Shri Siddaram Hebbal**, a seasoned entrepreneur and business mentor with extensive experience in nurturing startups and guiding young innovators.

During the talk, Shri Hebbal emphasized the importance of creativity, risk-taking, and perseverance in entrepreneurship. He shared valuable insights on identifying viable business ideas, understanding market needs, and building sustainable enterprises.

Key topics covered included:

- The entrepreneurial journey and mindset
- Opportunities in technology-driven startups
- Challenges faced by entrepreneurs and strategies to overcome them
- Importance of networking, mentorship, and continuous learning
- Resources and support systems available for budding entrepreneurs

The session was highly interactive, with students actively engaging through questions and discussions on business planning, funding, and scaling ventures. Shri Hebbal’s practical advice and real-world examples motivated students to consider entrepreneurship as a promising career path alongside their technical education.

The department expresses its gratitude to **Shri Siddaram Hebbal** for his inspiring session and for empowering students to dream big and take steps towards innovation and enterprise creation.



Fresher's Day Celebration

Date: 11th January 2023

Organized by: Department of Electronics and Communication Engineering

Student Council: CROWN

The Department of Electronics and Communication Engineering celebrated a vibrant and memorable **Fresher's Day** on **11th January 2023**. The event was organized by the enthusiastic student council, **CROWN**, to warmly welcome the new batch of students into the ECE family.

Fresher's Day served as an excellent platform for first-year students to interact with seniors, faculty members, and peers, helping them acclimatize to the new academic environment with fun and camaraderie. The celebrations included a variety of cultural performances, games, and ice-breaking sessions that fostered a sense of belonging and team spirit.

The student council, CROWN, meticulously planned and executed the event with great enthusiasm, ensuring an engaging and inclusive atmosphere. The program featured dance and music performances, quiz competitions, and motivational speeches by senior students and faculty members.

The event was marked by lively participation, laughter, and the forging of new friendships, setting a positive tone for the academic year ahead. Fresher's Day successfully boosted the confidence and morale of the newcomers, motivating them to embark on their engineering journey with enthusiasm.

The department appreciates the efforts of the **CROWN student council** for organizing such a wonderful event and looks forward to many more initiatives that promote student engagement and community spirit.



Social Awareness Program on “Say No to Plastic”

Date: 23rd June 2023

Organized by: Department of Electronics and Communication Engineering

Student Council: CROWN

The Department of Electronics and Communication Engineering, under the initiative of the student council **CROWN**, organized a **Social Awareness Program** on “Say No to Plastic” on **23rd June 2023**. The program aimed to sensitize students and staff about the environmental hazards caused by plastic pollution and to promote sustainable alternatives.

The event featured informative presentations and interactive discussions highlighting the impact of plastic waste on ecosystems, wildlife, and human health. The student council members actively engaged the audience by sharing practical tips on reducing single-use plastics, recycling, and adopting eco-friendly habits.

As part of the awareness drive, the students also organized a campus-wide cleanliness campaign and distributed reusable bags to encourage a plastic-free lifestyle. The program fostered a collective responsibility among participants to contribute towards a cleaner and greener environment.

The student council **CROWN** took the lead in organizing the event with great dedication, ensuring active participation and spreading the message effectively throughout the department.

The department acknowledges and appreciates the efforts of the **CROWN student council** for their commitment to social responsibility and environmental sustainability.



Farewell Party – YAARIYAAN 2K23

Date: 8th July 2023

Organized by: Department of Electronics and Communication Engineering

Student Council: CROWN

The Department of Electronics and Communication Engineering hosted a heartfelt **Farewell Party** titled “**YAARIYAAN 2K23**” on **8th July 2023**, organized by the energetic student council, **CROWN**, to bid goodbye and celebrate the graduating batch.

The event was filled with nostalgia, emotions, and joyous moments as students, faculty members, and staff came together to honor the outgoing seniors. The farewell included a variety of cultural performances, speeches, and fun activities that reflected the cherished memories and bonds formed over the years.

The student council **CROWN** did an excellent job in planning and coordinating the event, ensuring an engaging and warm atmosphere where seniors felt appreciated and motivated for their future endeavors.

“YAARIYAAN 2K23” was a beautiful occasion that celebrated friendship, achievements, and new beginnings, leaving everyone with lasting memories and heartfelt good wishes.

The department extends sincere gratitude to the **CROWN student council** for organizing such a memorable farewell and wishes the graduating batch success in their future careers.



Social Awareness Program on “Water Conservation”

Date: 24th June 2023

Organized by: Department of Electronics and Communication Engineering

Student Council: CROWN

The Department of Electronics and Communication Engineering conducted a **Social Awareness Program on “Water Conservation”** on **24th June 2023**, led by the dedicated student council, **CROWN**. The event aimed to raise awareness about the urgent need to conserve water and promote responsible usage practices among students and staff.

Through impactful presentations and interactive sessions, the program highlighted critical issues such as water scarcity, wastage, and sustainable water management. Student council members shared informative facts and actionable tips to inspire eco-conscious behavior and emphasized the role of individual responsibility in conserving water.

In addition to the educational aspects, students also created posters and slogans promoting water conservation and displayed them throughout the campus to engage the wider student community.

The event successfully instilled a sense of environmental duty among participants, encouraging them to adopt water-saving habits both on and off campus. The student council **CROWN** was instrumental in making this initiative a success through their thoughtful planning and enthusiastic participation.

The department commends the **CROWN student council** for their commitment to environmental awareness and social responsibility, and for organizing a meaningful and impactful program.





Achievement

Papers Published by the Faculty (2022-2023)

Sl.No	Paper title	Name of the faculty	Journal	Year of publication	Link to paper	Indexing
1	Design & Simulation of 5G Multiband Antenna with Phase Shift Operation	Mrs. Laxmi Patil Mrs. Shobhana Ms. Pratiksha Ms. Shreya Rawoor Ms. Priyanka Ms. Svita	International Journal of Innovative Research and Creative Technology	2022		Other
2	Air Pollution Monitoring System	Mrs. Vanita K Ms. Sweta Ms. Ashwini Ms. Bhagyashree Ms. Ranjita	International Journal on Science and Technology	2022		Other
3	Multimodal facial expression recognition using different architecture models- a survey	Mrs. Laxmi and Dr. Lakshmi Patil	https://machineintelligenceresearch.com/	Jan-23	https://machineintelligenceresearch.com/pdf/9879.pdf	Scopus
4	Multi-Tier Kernel for Disease Prediction using Texture Analysis with MR Images	Dr. Anuradha Patil	International Conference on Edge Computing and Applications	Nov-22	https://ieeexplore.ieee.org/abstract/document/9936466	Scopus
5	Review on FPGA based Hybrid Image Fusion Model	Mrs. Shruti H and Dr. Lakshmi Patil	Journal of Fundamental & Comparative Research Vol.	Jul-23	https://zenodo.org/record/8112654	UGC

	for CT & MRI Images		VIII NO.1			
6	Hybrid Techniques for the Segmentation Infection with Covid-19 in the Lungs using CT Images	Mrs. Laxmibai R B	Journal of Fundamental & Comparative Research	Jul	https://zenodo.org/record/8112728	UGC
7	Brain tumor detection and classification with feature extraction and reduction using DWT and PCA	Mrs. Sangeeta Patil	Journal of survey in fisheries sciences	2023	https://sifisheriessciences.com/journal/index.php/journal/article/view/751	Scopus
8	Design and analysis on image compression using neural networks	Mrs. Shivganga Patil, Dr. Lakshmi Patil	ICTACT journal on image and video processing	May-24	https://www.ijcnis.org/index.php/ijcnis/article/view/6896	Scopus
9	Study of Topologies, Power Converters and Control Techniques for the Dynamic Voltage Restorer	Dr. Shilpa Shrigiri	International Conference on integrated intelligence and communication system	Feb-24	https://ieeexplore.ieee.org	Scopus
10	Enhancing Respiratory Disease Diagnosis through Deep Learning: A CNN-Based Approach for Image	Mrs. Laxmibai R B	International Conference on Integrated Intelligence and Communication Systems	Feb-24	https://ieeexplore.ieee.org	Scopus

	Classification					
11	Revolutionizing Face Detection: VisionaryNet's Breakthrough in Unraveling Facial Complexity	Mrs. Nagaveni K	2024 2nd International Conference on Computer, Communication and Control	April 2024	https://ieeexplore.ieee.org	Scopus
12	Identification of Challenges and Limitations of Current Methods for Detection and Segmentation of Brain Tumor	Mrs. Shruti H, Dr. Lakshmi Patil	International Conference on Integrated Intelligence and Communication Systems	Feb-24	https://ieeexplore.ieee.org	Scopus
13	A study on diabetic retinopathy using deep learning algorithms	Mrs. Shobana K, Dr. Lakshmi Patil	International Conference on integrated intelligence and communication system	Feb 2024	https://ieeexplore.ieee.org	Scopus
14	DWT Approach Based on Analysis of Seizures in EEG Signal,	Mrs. Sangeeta Patil	<u>International Conference on Integrated Intelligence and Communication Systems</u>	Feb 2024	https://ieeexplore.ieee.org	Scopus
15	Custom administering attention module for segmentation of magnetic resonance imaging of the brain.	Mrs. Nagaveni K	International Journal of Reconfigurable and Embedded Systems	Nov-23	www.ijres.org	Scopus
16	<u>Analysis of Classical and Machine</u>	Dr. Lakshmi Patil	International Conference on Integrated	Nov-23	https://ieeexplore.ieee.org/abstract/document/	Scopus

	<u>Learning Techniques in Cognitive Radio Network</u>		Intelligence and Communication Systems		10421255/	
17	A taxonomy on power optimization techniques for fifth-generation heterogeneous non-orthogonal multiple access networks	Mrs. Vishalakshi Patil	IJECE	April-2024		Scopus



Patents Published by the Faculty (2022-23)

Sl.No	Name of the Faculty	Title	Application No.	Year of publication
1.	Dr. Anuradha Patil	Early Fire and Smoke Detection System by Using Deep Learning and openCV	202241046274	26/08/2022
2.	Mrs. Shobana K and Mrs Laxmi Patil	Machine learning based recognition of patients behavior using hand to mouth gesture to access their physical and emotional states in possible prediction using AI dataset	202231046149	19/08/2022
3.	Dr. Anuradha Patil	Credit card fraud detection using python and machine learning	202221047470	14/10/2022
4.	Mrs .Shivganga Patil	IoT and AI based smart health monitoring wrist device to connect doctor patient to assist immediate medical attention/guidance Bp ,sugar, HB, Exchanging data in hybrid cloud	202241063449	7/11/2022
5.	Mrs. Shivleela R and Mrs. Geeta M	IoT based forest fire detection system and early warning system using arduino	202321017112	14/03/2023

Student achievements

We are delighted to announce that our department's student have been approved for sponsorship by the **Karnataka State Council for Science and Technology (KSCST)** under the 46th Series of the **Student Project Programme**.

1. TITLE: "PROGRESSIVE BRAILLE LEARNING KIT WITH INTREFACE"



Ms. Rahathunisa
(SW19ECE014)



Ms. Sana Kousar
(SW19ECE017)



Ms. Sushma
(SW19ECE021)



Ms. Poornima
(SW20ECE502)

Guide:
Prof. Laxmi Patil
Co-Guide:
Prof. Shobhana

2. TITLE: "AIR POLLUTION MONITAORING SYSTEM"



Ashwini B
(SW19ECE003)



Bhagyashree S
(SW19ECE006)



Ranjita
(SW19ECE015)



Sweta
(SW19ECE022)

Guide
Prof. Vanita K

Sl. No.	Name Of the Student	Event Name	Organized Institute	Date	Remarks / Results
1	Arthi Mengaji	Speech Competition	District Health and Family Welfare Office	18/09/2022	III Prize
2	Roopa	Semi Classical Group Dance	Sharnbsava University in association with	05/03/2022	I Prize
3	Shakti	Speech Competition	Sharnbasva University Kalaburgi	2/03/2022	I Prize
4	Arthi Mengaji	Essay Competition	District Health and Family Welfare Office	18/09/2022	III Prize
5	Veena	Best Performing ISTE Chapter Student Award-2022	ISTE	2022	Best Student
6	Arthi Mengaji	Painting Competition	District Health and Family Welfare Office	18/9/2022	III Prize
7	Shakti	Combined annual training camp/ ATC Interbn. TSC Selection Camp -I /II Kalaburagi	National Cadet Corps	28/07/22 to 06/08/2022	Appreciation

ARTICLES



The Space



Nikita (Batch 2020-2024)



When we think of space, we usually imagine a sky full of stars, rocket launches, or astronauts floating in zero gravity. But for us students, space is more than that—it's a symbol of curiosity, dreams, and the incredible potential of human discovery.

I've always been fascinated by space. The idea that beyond our blue planet lies an infinite universe of planets, stars, and galaxies is both mind-blowing and inspiring. From the first time I learned about the solar system in school, I wanted to know everything—how do stars live and die? Could there really be life on other planets? And what does the universe even look like beyond what we can see?

It's amazing to think how far we've come. We've sent satellites to orbit Earth, rovers to explore Mars, and telescopes like the James Webb to capture images of galaxies formed billions of years ago. Even private companies like SpaceX are now working to make space travel more common and who knows, maybe someday, we'll be able to visit Mars ourselves!

But space exploration isn't just about fancy technology or future tourism. It's about solving big challenges, like building better materials that can withstand extreme temperatures, or figuring out how to grow food in zero gravity. These questions make space the perfect place for research and innovation across so many fields: physics, biology, engineering, computer science, and even art.

For me, space is a reminder of why we study what we do. It teaches us to think bigger, to work together, and to push boundaries. When I look up at the stars, I feel inspired to learn as much as I can and contribute to something greater whether that's through research, teaching, or just sharing my excitement with others.

Time Management



Bhumika (batch 2020-24)



Let's face it between classes, assignments, club activities, and (of course) hanging out with friends, college life can feel like a never-ending race against the clock. We've all had that moment when a deadline sneaks up on us and we're left pulling an all-nighter, fueled by instant noodles and caffeine. That's why mastering time management is so important it's the secret superpower that makes everything feel a little bit easier!

For me, time management wasn't something I picked up overnight. In my first year, I was constantly overwhelmed. My to-do lists felt like mountains, and I was always scrambling to catch up. But slowly, I learned that managing time isn't about being perfect—it's about working smarter, not harder.

Here are a few tricks that have helped me:

1. Prioritize, Prioritize, Prioritize
2. Avoid the Procrastination Trap
3. Use Tools That Work for You

Time management isn't about being rigid or sacrificing everything you love. It's about creating balance and making sure that you're not just surviving college life, but actually enjoying it. When you feel more in control of your time, you'll find that there's space for everything—your studies, your passions, and even those spontaneous midnight adventures with friends.

Save our society



Renuka (batch 2020-24)



As students, we often get caught up in our own world of exams, assignments, and endless to-do lists. But when we take a moment to look beyond ourselves, it's clear that there's a lot happening around us that needs our attention. From environmental issues to social inequalities, our society faces challenges that we can't afford to ignore.

“Save our society” might sound like a big, daunting goal. But for me, it starts with small steps—things that each of us can do to make a difference. I've learned that even the smallest action can have a ripple effect.

For example, I've joined a local cleanup drive to help keep our streets clean. I've also started using public transportation more often, and I always carry a reusable water bottle. These might seem like minor changes, but together they add up to real impact. Beyond environmental efforts, saving our society also means speaking out against injustice, supporting marginalized communities, and working to create a kinder, more inclusive campus and community.

Our department has always encouraged us to think critically and act responsibly. Whether it's through research, volunteering, or just raising awareness about important issues, we have the power to shape the future we want to see.

So, let's use our voices, our ideas, and our energy to stand up for what matters. Let's be the generation that not only dreams of a better society but actually works to create it.

Because in the end, saving our society starts with us.

Artificial Intelligence



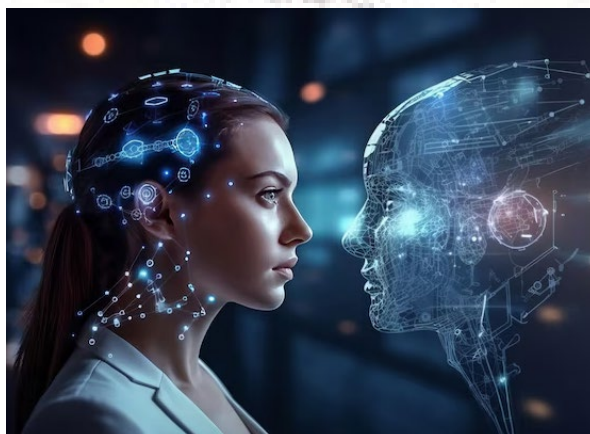
Sameena (Batch 2021-2024)

Artificial Intelligence, or AI, has quickly become one of the most exciting and transformative technologies of our time. From self-driving cars to virtual assistants like Siri and Alexa, AI is changing the way we live, work, and communicate. But what exactly is AI, and why is it so important?

What is Artificial Intelligence?

Artificial Intelligence refers to the simulation of human intelligence by machines. It involves creating algorithms and systems that can learn, reason, and make decisions—just like we do! AI systems can analyze data, recognize patterns, and adapt over time, making them incredibly powerful tools for solving complex problems.

As Electronics and Communication engineers, AI is opening up new possibilities in areas like image processing, signal analysis, and network optimization. AI-driven systems can detect patterns in communication signals, improve data transmission, and even predict system failures before they happen. The integration of AI into communication networks can make them more reliable, secure, and efficient.



Microstrip Antenna



Soumya v (Batch 2021-2025)

In the world of wireless communication, antennas are the unsung heroes. They're the essential components that make everything from your smartphone's Wi-Fi to satellite links possible. One type of antenna that has been gaining popularity in modern applications is the microstrip antenna, often called the patch antenna.

At first glance, a microstrip antenna might not look like much—a thin metal patch mounted on a dielectric substrate. But don't let its simplicity fool you! These antennas are lightweight, low-profile, and easy to integrate into printed circuit boards (PCBs), making them perfect for devices that need to be small and sleek.

One of the things that really excites me about microstrip antennas is their versatility. They're widely used in everything from smartphones and Wi-Fi routers to aircraft and satellite communications. Because of their planar structure, they can even be conformally mounted on curved surfaces—something that traditional antennas can't do as easily.

Of course, designing these antennas isn't always straightforward. They can have narrow bandwidths and lower gain compared to other types of antennas. But that's also what makes working with them such a fun challenge! There are so many ways to tweak and improve their performance: using different patch shapes, adding slots, or even stacking multiple layers.

As an electronics enthusiast, I'm inspired by how microstrip antennas combine theory and practical design. Learning about them has helped me understand not just how wireless communication works, but also how to innovate and optimize for real-world applications.

In our department, we've had workshops and projects that explore microstrip antenna design. It's amazing to see how even a small metal patch can open up a world of possibilities.

So, the next time you connect to Wi-Fi or watch a satellite broadcast, remember that behind those invisible signals is a tiny patch antenna, working hard to keep us all connected.

Future of Robotics



Swati A C (Batch 2021-25)



The future of robotics is exciting and rapidly evolving. With advancements in artificial intelligence, machine learning, and sensor technologies, robots are becoming increasingly sophisticated and capable of performing complex tasks. One of the most significant trends in the future of robotics is the increasing use of autonomous systems. Autonomous robots will be able to operate independently, making decisions and adapting to new situations without human intervention. This will revolutionize industries such as logistics, transportation, and healthcare, where robots will be able to perform tasks such as delivery, surgery, and patient care. Another area of growth is in the field of humanoid robots. Humanoid robots are designed to resemble humans and will be able to perform tasks that require human-like dexterity and cognitive abilities. They will be used in applications such as customer service, education, and healthcare, where human interaction is essential. The use of robots in the home is also becoming more prevalent. Robots will be used to assist with household chores, provide companionship, and even help with healthcare. For example, robots will be able to monitor a person and vital signs and provide medication reminders. In addition, the development of soft robotics will enable robots to perform tasks that require flexibility and adaptability.

The Rise of 6G beyond Speed and Connectivity



Priyanka (Batch 2022-26)

As the 5G proceeds its worldwide rollout, the following border in broadcast communication. 6G is as of now taking shape. The 5G framework is being created and heightening to give unparalleled network to join together everybody and everything. The to begin with form of 5G framework based on the discharge 15("Rel-15") adaptation by 2030. 6G guarantees to outperform speed and rethink network, mixing cleverly frameworks with progressed innovations. 6G will coordinated manufactured insights empowering systems to self optimize and imagine client needs with speeds 100 times quicker than 5G and ultra-low idleness. 6G's adjective based systems seem provide worldwide scope, navigate the advanced partition for underserved locales. Past network, 6G is set to control immersive encounters specifically holographic communication virtual reality, increased reality. 6G points to provide speeds up to 1 terabit per moment 50 times swifter than. 5G's top rate innovation included in 6G are vitality effectiveness, web of things (IOT), VLC, edge computing, empowering technologies. The innovation utilized to transmit radio get to arrange (RAN) and the tera hertz (THz) range to increment capacity. The vision is to make and send 6G organize technologies. 6G is still in the enquiry about stage they transmit information at speeds up to 958 gigabits per second. The 6G transformation is set to change the broadcast communications scene in India.

Generative AI needs robotics redefining creativity and automation



Laxmi biradar (2022-26)

Generative AI and robotics are poised to fundamentally reshape industries, blending creativity with automation in ways that were once considered impossible. The combination of AI's capacity for learning, creating, and adapting with robotics' physical capabilities introduces new levels of flexibility and innovation.

- 1. Creative Design and Manufacturing**
- 2. Personalized Automation**
- 3. AI as a Collaborative Creative Partner**
- 4. Enhancing Autonomous Systems**
- 5. Challenges and Ethical Considerations**

In a summary, generative AI and robotics represent a convergence of creativity and automation that could lead to unprecedented levels of innovation. From enhancing personal creativity to transforming industrial processes, the synergy between these technologies will play a critical role in shaping the future. However, it also necessitates careful consideration of societal, ethical, and practical implications.

Evolution of AI from the concept of reality



Aishwarya S (Batch 2022-26)

In reality, the groundwork for AI began in the early 1900s. And although the biggest strides were not made until the 1950s, it would not have been possible without the work of early experts in many different fields. Knowing the history of AI is important in understanding where AI is now and where it may go in the future. The journey of Artificial Intelligence is a rich tapestry woven through centuries of human civilization. The allure of crafting beings with a semblance of human intellect dates back to ancient civilizations and mythologies, where stories of artificial beings endowed with intelligence fired the imagination of societies. The ancient Greeks, for instance, dreamed of automatons capable of mimicking human actions. In their mythology, the skilled craftsman Hephaestus was said to have created mechanical servants. Similarly, in ancient China and Egypt, there were legends of mechanical entities and automatons. These early human narratives reflect a deep-rooted fascination with the idea of artificial intelligence, albeit in a rudimentary form. Artificial Intelligence once a realm of science fiction has swiftly transitioned into a transformative force reshaping our world. With its roots in computer science, AI has evolved into a multidisciplinary field, encompassing machine learning, robotics, natural language processing and more. This article delves into the intricate landscape of AI, exploring its history, core concepts, diverse applications, ethical considerations and the profound impact it has on society and the future. AI, as a concept, dates back to ancient myths and folklore, but its formal beginnings can be traced to the mid-20th century.



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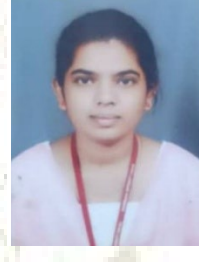
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