



MMK & SDM MAHILA MAHAVIDYALAYA

Krishnamurthypuram, JLB Road, Mysuru – 570009
(Affiliated to University of Mysore, NAAC Accredited with 'B' grade)

Our Vision "Empowerment of Women to face the global challenges"

An IQAC Initiative Department of Computer Science

organizing

ITECHNARY - 2023

Journey of technology in shaping civilization
Celebrating

NATIONAL TECHNOLOGY DAY

19th May 2023 @ 10AM



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Proceedings of the **“ITECHNARY- 2023”**

Journey of Technology in shaping civilization

Celebrating

NATIONAL TECHNOLOGY DAY
&
NATIONAL LEVEL COMPETITIONS

19th May, 2023



MMK & SDM Mahila Maha Vidyalaya

(Affiliated to University of Mysore, Accredited by NAAC with B
Grade), Krishnamurthypuram, Mysuru - 570004

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on

19th May 2023



Last Date of Registration 15-5-2023



Participants can register for more than one event in their category
For one event participation: Rs.100/- per participant per event
For two events participation: Rs. 75/- per participant/event= Rs.150/- per participant
For three or more events participation: Rs.50/- per participant per event= Rs.150/- per participant

Sl. No	Particulars	Category	No of Participants in each team	Instructions of the event
1.	Model Making	PUC	Maximum of two participants Prize money I- ₹. 3000/- II- ₹. 2000/-	<ul style="list-style-type: none"> •3-D or working model under the theme “Technology - transforming lives, shaping the future” has to be prepared. •I and II Prizes will be given based on the novelty of the model and technology displayed. Faculty Coordinator – Smt Rajitha V, Asst. Professor - 9902591907 Student Coordinators – Miss Harini S & Miss Jayashree E – III BCA
2.	Poster Presentation	UG	Maximum of two participants Prize money I- ₹. 2000/- II- ₹. 1000/-	<ul style="list-style-type: none"> •Poster must be prepared on the theme “Impact of Science and Technology on Socio Economic Development” •The poster must have a Title, name of the participants and their affiliating institutions followed by the body of the poster. •I and II place Prizes will be given based on the presentation of the poster. Faculty Coordinator–Smt.Jyothilakshmi G Kava, Asst. Professor - 9741969130 Student Coordinators- Miss Lakshmi S.K & Miss Mahalakshmi M – III BCA
3.	Video making	UG	Maximum of two participants Prize money I- ₹. 2000/- II- ₹. 1000/-	<ul style="list-style-type: none"> •Video must be in mp4 format on the theme “Impact of Science and Technology on Society” •Video must be self-recorded by participants in English language •Video should not exceed 5 minutes •Title screen of the video should comprise of participants and their institution details •I and II place Prizes will be given based on the originality and clarity of concept of theme. Faculty Coordinator-Miss.Bhargavi H G-Asst. Professor- 9538378486 Student Coordinators – Miss Anagha V & Miss Nandini R- III BCA
4.	Project	UG, PG & Research Scholars	Maximum of two participants Prize money UG: I- ₹. 2000/- II- ₹. 1000/- PG: I- ₹. 2000/- II- ₹. 1000/- RS: I- ₹. 2000/- II- ₹. 1000/-	<ul style="list-style-type: none"> •A power point presentation (max 8 slides) of a project work already completed during the year 2022. •The project work must highlight the theme “Integrating Science and Technology for Nation Building”. •The presentation must highlight the background of the project, methodology, results and discussion, conclusion and scope of the project. •I and II place Prizes will be given based on the novelty of the project. Faculty Coordinator – Miss. Sowmya N, Asst. Professor- 9036570203 Student Coordinators – Miss Sahanasri & Miss Thangamma N P , III BCA

5.	Essay	UG & PG	Maximum of one participant Prize money UG: I-₹. 2000 II-₹. 1000/- PG: I- ₹. 2000/- II-₹. 1000/-	<ul style="list-style-type: none"> •Essay in English on the theme “Science and Technology for a Sustainable Future” must contain maximum of 500 words only •I and II prizes will be given based on originality and clarity of concept. Faculty Coordinator-Smt.Nayana M P,Asst.Professor-9880862439 Student Coordinators – Miss Shanthala M & Miss Anusha K – III BSC
6.	Photography	PUC, UG, PG & Research Scholars	Maximum of two participants Prize money RS: I-₹. 2000 II-₹. 1000/- PG: I- ₹. 2000/- II-₹. 1000/- UG: I-₹. 2000 II-₹. 1000/- PUC: I- ₹. 2000/- II-₹. 1000/-	<ul style="list-style-type: none"> •A single photo or a collage of photos in JPG format capturing the moments that is evidence to the theme “Technology - a boon or bane to mankind” •The participants should explain the meaning/significance of the photograph during competition. •Original geotagged photographs only will be considered for the competition. Any form of duplicity is infringement to copyright and hence will deem disqualified immediately. •I and II prizes will be awarded. There are no separate prizes for separate levels in this category. Faculty Coordinator- Miss Kavya S N, Asst. Professor-9686005201 Student Coordinators – Ms Monal & Ms Niharika M S – III BSC

- All participants should register through google form <https://forms.gle/H6basz9pcTS29HnT7> on or before 15th May 2023.
- Registration fee should be paid on the day of event.
- Cash prizes for each category along with the certificates will be awarded to the winners.
- All participants will be provided with certificate of participation.
- Brief report of all projects/posters presentations must be sent to the email address csdept@sdmkmysore.in
- The selected projects, posters and essays will be published in the event proceedings having ISBN Number.
- For participants requesting printed proceedings with ISBN Number an extra Rs.250/- has to be paid.

SDME Society®, Ujire: SDM Educational Society®, Ujire is a premier non-profit Educational Organization functioning under the sacred aegis of Shree Kshetra Dharmasthala. Under the able guidance of the distinguished President Padma Vibhushan Dr.D.Veerendra Heggade, SDM Educational Society spearheads more than 56 premier academic and professional institutions spread across Karnataka. Establishments that represents the best of traditional expertise and contemporary excellence from the base of studies in subjects ranging from Medicine, Engineering, Law, Social Science, Management, Naturopathy and Ayurveda.

About the College: MMK & SDM Mahila Maha Vidyalaya was incepted in 1990 and was taken over in 1992 by the SDME society as the first & only women's college among 56 institutions under SDM Educational Society®, a non-profit NGO dedicated to societal service through education & socio-cultural consciousness under the vision and leadership of Dharmadhikari of Shri Kshetra Dharmasthala, Padmavibhushana Poojya Dr.Veerendra Heggade. Fulfilling the college vision, “Empowerment of Women to face the global challenges” it is recognized as one of the premier institutions in India, by India Today, Silicon India and NIRF providing affordable quality education to socio-economically challenged students hailing from Karnataka and neighbouring states. The college is UGC recognised by 2(F) and 12 (B) statuses, and was recently accredited by NAAC with B Grade. It offers programs in BSc., BCA, B.Com, BBA and M.Com.

About ITECHNARY: The event ITECHNARY is an initiative of IQAC of MMK & SDM MMV & organized by Department of Computer Science to celebrate National Technology Day which is observed on 11th May 2023. To commemorate this day on 19th May 2023 we are organizing ITECHNARY - 2023 – National Level Competitions to showcase the talent of the young intellects. These competitions are organized for students from PUC and higher education to research scholars. By these events the objective is to fulfil the theme of highlighting the influence of Science and Technology in the development of civilization and the scope of addressing the current challenges for various sectors of standards of living.

About the Department: The Department of Computer Science came into existence in 1997 to offer Computer Science subject as one of the optional subjects in the B.Sc programme. Ever since its inception, the Department is striving to impart quality education. In the year 2009-10, BCA course was started. The Department has well equipped Laboratory with latest equipment and Software Packages along with 50MBPS leased line internet facility. To equip the students to proactive level in IT field, the department organizes many activities like IT Quiz, Technical Talk, IT Cross Word, Web Designing, Debugging Competition, Treasure Hunt etc under the banner of Tech Amateur IT Club of the department. Industrial visits are arranged to provide much needed linkage between academics and industry. Guest Lecture programmes by eminent scholars and industrialists are organized constantly to enhance the knowledge of students and teachers. The Department also publishes Bi Annual Newsletter GI-Talk, organizes Computer Awareness Programme as an extension activity every year. The College also encourages the students for internship and placement activity with an exclusive placement cell.

Accommodation: Participants are requested to make their own arrangements for their stay. However, such arrangements will be made on advance request and payment. No TA/DA will be paid.

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Padma Vibhushana awardee Dr. D. Veerendra Heggade
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Organising Chair

Prof. Sainath Malligemadu
Principal, MMK & SDM MMV, Mysuru. Phone: 9886166750

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Smt. Jyothilakshmi G Kava, Asst. Professor of Computer Science
Smt. Nayana M P, Asst. Professor of Computer Science
Ms. Bhargavi H G, Asst. Professor of Computer Science
Ms. Sowmya N, Asst. Professor of Computer Science
Ms. Kavya S N, Asst. Professor of Computer Science

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Our Vision

“Empowerment of Women to face the global challenges”

An IQAC Initiative

With the blessings of

Padmavibhushana Awardee Dr D Veerendra Heggade,
President, SDME Society®, Ujire

Department of Computer Science

Invites you to the inauguration of

ITECHNARY - 2023

Journey of technology in shaping civilization
Celebrating

NATIONAL TECHNOLOGY DAY

Theme : School to Startups – Igniting Young Minds

&

NATIONAL LEVEL COMPETITIONS

Inaugurator

Prof.(Dr). K. S .Rangappa

General President, Indian Science Congress Association
Former Vice Chancellor of University of Mysore
and Karnataka State Open University, Mysore

Guest Of Honor

Smt. Nayana Kumari

Principal, MMK & SDM Girls PU College, Mysore

President

Prof. Sainath Malligemadu

Principal, MMK & SDM Mahila Maha Vidyalaya, Mysore

Smt K S Sukrutha

Convener & Head of the Department

Organizing Committee Members

Staff & Students

19th May 2023 @ 10.00 am Venue: College Auditorium

All are cordially invited

Contributing Editors from MMK & SDM Mahila Mahavidyalaya

Smt. Ramya S.K, Associate Prof. of Computer Science

Smt. Rajitha V, Associate Prof. of Computer Science

Smt. Jyothi Lakshmi G Kava, Assistant Professor of Computer Science

Smt. Nayana M.P, Assistant Professor of Computer Science

Ms. Bhargavi H.G, Assistant Professor of Computer Science

Ms. Sowmya N, Assistant Professor of Computer Science

Ms. Kavya S N, Assistant Professor of Computer Science

PREFACE

The "**ITECHNARY - 2023**" was held on 19th May 2023 and was organised by Department of Computer Science of MMK & SDM Mahila Maha Vidyalaya, Mysuru in association with Internal Quality Assurance Cell (IQAC). This edition of book contains the proceedings of the National Level Competition IECHNARY – 2023 event to commemorate National Technology Day with the theme **School to Startups-Igniting Young Minds to Innovate**. This National Level Competition included Poster Presentation, Model Making, Video making, Project Presentation, Photography and Essay competitions based on different themes. A total of 37 participants from 13 different institutions took part in the six different competitions. To judge the competitions, six internal and six external judges were invited. We appreciate everyone who took part in making this event a success as well as the judges prompt cooperation.

The **ITECHNARY - 2023** organizing committee members has put in a lot of effort to present the proceedings in this way. This best practice will definitely continue as annual event in the years to come.

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Remarks from President of SDM Education Society



Padmavibhushan awardee and Member of Parliament
Poojya Dr. D Veerendra Heggade, President
SDM Education Society, Ujire

As we come together to celebrate National Technology Day in our esteemed institution, I extend warm greetings on behalf of the Education Society.

In the pursuit of a sustainable future, every nation relies on the latest technology. Each innovation marks a stride towards the overall development of our nation. Today, let us pay tribute to our scientists, recognizing their remarkable contributions to the field of Science and Technology. Best wishes to all on this National Technology Day.

It is paramount to acknowledge that the technology of tomorrow is grounded in today's scientific endeavours. Given the pivotal role technology plays in our daily lives, contributing significantly to a robust economy, the celebration of National Technology Day holds great significance.

This day is instrumental as technology permeates every facet of our lives, driving economic prosperity. It serves as a dedicated occasion to highlight India's technological advancements. Thanks to technology, we enjoy enhanced organization, connectivity, health, and safety. Moreover, technology fosters productivity and provides fresh perspectives on global functioning.

While technology is an invaluable asset in advancing our nation, its integration into everyday life cannot be understated. From the realms of business to education and beyond, technology facilitates connections and enhances productivity. Consider a world without technology—no mobile phones for communication or laptops for accessing news and global events. During the challenging times of COVID, our nation effectively leveraged technology for academic purposes, demonstrating its transformative power.

Congratulations to Professor Sainath Malligemadu, the Principal of our college, and the dedicated team, including the Convener and staff members of the Computer Science Department, for organizing ITECHNARY. This initiative encourages students to showcase their talents and contribute to the ongoing advancements in technology. I extend my heartfelt wishes to all participants for a successful and enlightening experience.

May National Technology Day inspire us to continue embracing technology for the betterment of our lives and the progress of our nation.

May Lord Manjunatha Swamy Bless all of us.

Warm regards,

Dr D Veerendra Heggade, President, SDME Society, Ujire.

Message by Secretary, SDM Education Society, Ujire



Dr Satheeshchandra
Secretary
SDME Society, Ujire

We honour the wonders of technology and how it has improved our lives on National Technology Day. Technology is present everywhere, from the tiny microchips in our wristwatches to the massive satellites orbiting the earth. This day acts as a reminder of the technological advances we have made. From the days of writing letters to the present, when a click can send a message anywhere in the globe. We have made incredibly impressive progress.

However, technology is more than just devices. Everything revolves around improving life. It facilitates disease cures by physicians. It enables food farmers to grow more. It makes it possible for educators to instruct students wherever they may be. We should not forget the individuals who made these advances possible. Our innovators, engineers, and scientists who put forth endless effort to bring these wonders to us. They truly are the technological world's heroes.

But we also need to exercise caution in how we use technology. Instead of using it to hurt or harm people, we ought to use it to better the world and assist others.

However, we must keep in mind that technology is not limited to a select few. It is intended for all. It is our duty to ensure that everyone has access to and benefits from technology. This entails creating technology that is accessible to everyone, reasonably priced, and simple to use.

To conclude, National Technology Day is a celebration of technological advancement. It's all about the devices and equipment that simplify our lives. It concerns the individuals who build these apparatuses and tools. Furthermore, it is our duty to use technology in a way that is advantageous to all people as well as the environment.

Let's encourage the next generation of thinkers to be creative, inventive, and impactful. Cheers to National Technology Day!

I would like to congratulate the Principal and staff members of the M M K & S D M Mahila Maha Vidyalaya, Mysuru for considering celebration of National Technology Day by organizing ITECHNARY – A National Level Competition as one of the best practices of the college.

Remarks by President of the program, on ITECHNARY



Prof. Sainath Malligemadu
Principal
MMK & SDM Mahila Maha Vidyalaya, Mysuru

As we approach the eve of National Technology Day and the forthcoming ITECHNARY-2023, I would like to express my thoughts on the profound significance of this occasion and the invaluable contributions of our nation's scientists.

Every year on May 11th, we come together to honour the outstanding accomplishments of India's great scientists. Their innovative endeavours have undoubtedly shaped the status and way of life in our nation through the relentless march of technological advancement. National Technology Day serves as a beacon, symbolizing the remarkable efforts and achievements of Indian scientists, demonstrating the transformative power of technology in fostering progress.

Originating on May 11, 1999, under the leadership of the then Prime Minister, Atal Bihari Vajpayee, this day has been dedicated to acknowledging noteworthy accomplishments. The Technology Development Board continues to recognize scientists, engineers, and their technological advancements, playing a pivotal role in India's economic development. Indians have consistently made significant contributions to technological evolution, showcasing their inventive spirit.

The positive impact of technology on human life is evident, utilizing scientific knowledge to address daily challenges efficiently. From construction techniques to agricultural methods, trade routes, and medical services, technology has been instrumental in defining and advancing civilizations. This continual progression has connected nations globally, fostering globalization and easing trade, thereby solving numerous challenges through technological solutions.

Recognizing the vital role of science in our lives, it is essential to encourage young minds to pursue careers in science and engineering. The misconception that these fields are challenging must be dispelled, as they form the foundation of progress and innovation. I urge all young students to harness technology for noble causes, promoting both personal success and societal well-being.

In alignment with these principles, our college annually organizes and celebrates National Technology Day, coupled with National Level Competitions. These events serve as a platform to honour and inspire the next generation of innovators, emphasizing the pivotal role of technology in our lives.

As we eagerly anticipate ITECHNARY-2023, I extend my best wishes to the participants and readers of these proceedings. May this celebration further ignite the spirit of innovation and collaboration, driving us towards a brighter technological future.

Prayers to Lord Manjunatha Swamy to bless all our endeavours

Best regards,

Convenor's Message about ITECHNARY Journey of Technology in Shaping Civilization



Smt K S Sukrutha
Associate Professor and Head, IQAC Coordinator
Department of Computer Science
MMK & SDM Mahila Mahavidyalaya , Mysuru

The term "ITechnary," a fusion of Itinerary and Technology, was introduced by Dr. Wethroe Kapfo, Assistant Professor and Head of the Department of Biochemistry at our college. Introduced last year to commemorate National Technology Day, observed annually on May 11th, ITechnary brings together students from Higher Secondary School to Research Scholars in a series of National Level competitions across various disciplines. This amalgamation illustrates the evolutionary path technology has taken in shaping human civilization.

I am honoured to serve as the convenor for this ground breaking initiative, which transcends traditional academic boundaries, welcoming participants from diverse fields such as science, engineering, medicine, arts, and commerce. The vision behind this program is to establish it as an annual event, providing a robust platform to showcase the talents of young minds from across the nation.

The conference proceedings that follow capture the essence of the event, documenting the exemplary contributions of students in each competition. I extend my heartfelt appreciation to the SDM Education Society management, our principal, the organizing committee, esteemed guests, judges, dedicated student volunteers, technicians, and the non-teaching staff members who played pivotal roles, both directly and indirectly, in ensuring the success of this event.

I wish to express gratitude to our sponsors, whose generous support has not only inspired the organizers but has also bridged the gap between academia and industry. Their contributions have strengthened the program's core goals, making it a collaborative venture with far-reaching impacts.

The real stars of these events, however, are the students hailing from various colleges and locations. Despite the challenges posed by the post-COVID-19 landscape, their participation remains integral to the success of the program. While we acknowledge a slight dip in interest and participation, we remain optimistic that this annual event will serve as a beacon, inspiring more students to showcase their talents on a broader stage in the coming years.

In the spirit of collaboration and innovation, we look forward to the continued success and growth of ITechnary, fostering a community where academia and industry seamlessly converge for the betterment of our collective future.

Sincerely,

Key Note Address by Inaugurator and Chief Guest of the Inauguration Program



Prof.(Dr). K S Rangappa

General President, Indian Science Congress Association
Former Vice Chancellor of University of
Mysore and Karnataka State Open University, Mysuru

Good Morning Everyone

It is my privilege to be a part of this occasion and I whole-heartedly congratulate the organizers for organizing this program and for rightly choosing the theme of the program **"School to Startups Igniting Young Minds to Innovate"**

Indeed, this is a vital activity, which involve students and faculty members from various disciplines.

Today we are here to celebrate National Technology Day. We all know that National Technology Day is observed annually on May 11th in India. This day is celebrated to commemorate the significant achievements and contributions made by Indian scientists, engineers, and technologists towards nation building.

This day holds immense historical and cultural significance, highlighting the country's commitment to innovation and its pursuit of technological advancements.

Science, Technology and Innovation have instrumental and intrinsic value for the society. They are the key drivers of economic performance and social wellbeing.

Applying science for practical purposes is what technology is all about! Creating items to perform tasks, solve problems, make life easier (or perhaps more interesting), scientists who work in engineering and technology are always looking for ways to make life better. And showing appreciation for advances in technology is what National Technology Day is all about!

National Technology Day marks the historic achievements of India in the field of science and technology. On May 11, 1998, India successfully conducted its first nuclear tests under Pokhran-II, code- named Operation Shakti. The series of nuclear tests marked a major milestone in India's technological prowess and showcased its capability to develop and deploy nuclear weapons. The successful tests brought India international recognition as a nuclear power and highlighted the country's scientific and technological capabilities.

The euphoria of demonstrations of these technologies was such that the then Prime Minister Atal Bihari Vajpayee added 'Jai Vigyan' (Hail Science) to Lal Bahadur Shastri's popular slogan of 'Jai Jawan, Jai Kisan' (Hail the soldier and the farmer).

Vajpayee's push for economic growth led by Science and Technology is reflected in many of his speeches. For example, during a Shanti Swarup Bhatnagar award ceremony, he said, "Friends, all of us know that the creation of scientific and technological knowledge, and the development of its practical applications, is highly capital intensive. Not only does it involve significant and sustained investment in infrastructure, equipment, and raw materials, but also a long-term effort to build and retain top-class brainpower. However, every rupee invested in indigenous R&D repays itself several times over in direct and indirect ways.

Since 1998, the country has continued steadily in its journey of technological developments. Among the visible examples of India's impactful technological progress are the digital payment gateways that have democratized financial transactions like never before, and exemplify India's leadership in the world in this area.

Lesser-known milestones that have quietly been achieved are making of indigenous Bio-Jet fuels, mapping of subsurface water channels for sustainable use of water, making of indigenous light combat aircraft, development of variety of crops by traditional methods of breeding, digitisation of many aspects of trade, and moving firmly towards a Hydrogen economy.

The recent push for infrastructural development, including promotion of use of domestic and industrial waste in it, and its spectacular results, are already making headlines. By steadily reducing energy dependence on natural resources and by promoting renewable energy, India is already in the league of nations where carbon footprint in the energy sector is likely to reduce dramatically.

Like people in any other parts of the world, Indians too, have a rich legacy of scientific ideas. A desire to know the unknown, accompanied with experimentation and observation, have always generated scientific temper.

Computational Intelligence, Machine Learning, Artificial Intelligence have become emerging fields in Science and Technology in the current world.

Artificial Intelligence and Machine learning are the quickest growing, most demanded techniques for the development of information and communication technology.

Computational intelligence has its wide range of application even in Chemical Engineering, Genetic Engineering, Drug Development, Docking and its application.

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Computational intelligence has its wide range of application even in Chemical Engineering, Genetic Engineering, Drug Development, Docking and its application.

The Educational Institutions must work towards promoting scientific temper and inspire the younger generation to pursue careers in STEM i.e., Science, Technology, Engineering, and Mathematics fields.

They also have to

- Conduct career development programs which helps the students to know about various career opportunities and choose their area of interest for their higher studies.
- Create awareness among students at school level about the importance of technology in addressing societal challenges and fostering economic growth.
- Create awareness regarding various schemes of government that encourage scientific innovations and promote students towards start-ups encouraging entrepreneurship.
- Explain the importance of investing in science and technology to drive economic growth, enhance national security, and improve the quality of life for citizens.

I wish this program would be useful to all the students, scientific people and research students present here. I have full confidence that everyone of you, will use your potential to the fullest possible and work towards betterment of society.

Wish you all the good luck

Thank you

Speech by the Chief Guest of the Valedictory program



Dr. Shilpashree S P
Associate Professor and Head
School of Engineering and Technology
CHRIST (Deemed to be University)

Shri Gurubhyo Namaha....

Respected Dignitaries, Respected Principal, my dear teachers, faculty members and my dear students, Today I stand before you as an alumnus of this prestigious institution on this august occasion of National Technology Day. It's a proud moment for me to stand on the other side of the dais of this institution where I was a student 20 years ago.

Teachers play a vital role in shaping our lives and futures. They inspire, educate, and guide us in our journey of learning. Their impact extends far beyond the classroom, leaving an indelible mark on our hearts and minds. I must acknowledge the contributions of all my teachers for shaping me as an individual for what I am today. In fact they were instrumental in giving a strong foundation for higher studies too.

You all are fortunate enough to be part of this esteemed organization. The faculty members of this institution are taking initiatives for overall holistic development of students by organizing such programs and encouraging the students to actively participate in various activities related to Science and Technology.

National Technology Day holds immense significance as it marks the day when India showcased its technological powers by conducting a series of successful nuclear tests in 1998. These tests demonstrated our nation's scientific capabilities and affirmed our position as a nuclear power. Since then, every year on this day, we come together to celebrate the indomitable spirit of innovation and the transformative power of technology.

In fact by looking at the vision of this institution – Empowerment of women to face the global challenges, I would like to add one more aspect.

To encourage women empowerment in science and technology, it is essential to provide equal opportunities, create supportive environments, and challenge gender biases that persist in our society.

In whatever way our society responds. I would say... Let us recognize the immense potential that lies within each of us. Let this day serve as a reminder of the responsibility we bear to leverage technology for the betterment of society.

As we pursue our studies in various fields of technology, let us embrace innovation, curiosity, and collaboration. There is a lot of scope for the interdisciplinary research that is taking place in the era. Let us strive for excellence, constantly pushing the boundaries of what is possible. Let us remember that we have the privilege of being part of a generation that has unparalleled access to knowledge and resources.

On this National Technology Day, I urge you, my dear students, to dream big, think boldly, and act fearlessly. Embrace the challenges and opportunities that lie ahead. Let us be the agents of change, the architects of a brighter tomorrow.

As we celebrate National Technology Day, let us express our gratitude to the visionaries and pioneers who have paved the way for us. Let us honor their legacy by continuing to innovate, create, and explore.

Thank you, and may our journey in technology be filled with purpose, passion, and endless possibilities.

Wish you all the success.

Thank you

Project Presentation on

**“Integrating Science and Technology for
Nation Building”**

Li-Fi Enabling High Speed Wireless Communication Through Light

**Vishnu B V
UG Student
Dept. of ISE*

*Sharath S Rao
UG Student
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Abstract—A developing technology called Li-Fi (Light Fidelity) uses the concepts of Visual Light Communication (VLC) to transport data via light waves. In this research study, we offer a project that uses Li-Fi technology to send text data. To decode the transmitted data, the project uses an LED bulb as a transmitter and a Light-Dependent Resistor (LDR) as a receiver. The transmitter and receiver circuits are controlled by the system using Arduino UNO boards. We demonstrate through experimental experiments that compared to conventional Wi-Fi, which communicates via radio waves, Li-Fi technology delivers much quicker data transfer rates. This idea was inspired by the need for a quicker and more secure replacement for current data transport methods. By utilizing the advantages of Li-Fi technology, we overcome the shortcomings of current systems. Li-Fi provides a safer alternative for delicate situations like hospitals, where radio frequencies may interfere with medical equipment or pose dangers to some patients. Li-Fi transmits data by light waves. Furthermore, by preventing any breaches that can happen in radio wave-based systems, Li-Fi provides data security and privacy. In this study article, we want to show how Li-Fi technology may be used for a variety of purposes, especially in the healthcare industry, where data security and transmission speed are very important. The project acts as a proof-of-concept for applying Li-Fi technology in practical settings, showing its advantages and offering suggestions for future developments in the area.

Credit Card Fraud Detection System

Ms. Chinthana S V. U G Student, MMK & SDM Mahila Maha Vidyalaya, Mysore

Ms. Riya U R , U G Student, MMK & SDM Mahila Maha Vidyalaya, Mysore

Abstract - Fraud in credit card transactions is unauthorized and unwanted usage of an account by someone other than the owner of that account. Necessary prevention measures can be taken to stop this abuse and the behaviour of such fraudulent practices can be studied to minimize it and protect against similar occurrences in the future. In other words, Credit Card Fraud can be defined as a case where a person uses someone else's credit card for personal reasons while the owner and the card issuing authorities are unaware of the fact that the card is being used.

The proposed system we introduce a new technology to protect the network. The Credit card fraud detection system is initiated for detecting the fraud transactions from the number of transactions made by the card holders. The transactions done by credit card holders are derived in the form of datasets. Transaction datasets are nothing but data that are already being posted by the companies and researchers for the purpose of machine learning and data mining. Verification is a machine learning technique used for classification of data. The Transaction datasets are trained by using the Verification technique. Verification technique is used to solve data imbalance problem. Using the Verification technique the data, which is nothing but the transactions are trained. This technique is mainly used to differentiate the fraud transactions from the original transactions done by the card holders. Initially the transaction data are stored in a confluence form. Thus the confluence data have been trained by the Verification technique to synthesize the fraud transactions from the non fraud transactions. The synthetic minority oversampling technique shrinks the fraud transaction from the non-fraud transactions. The Verification function parameters synthesize the confluenced transactions. The Verification technique synthesizes all the fraud transactions from the original non-fraud transactions. The synthesized transactions are again resampled to check the data accuracy. The synthesized fraud transactions are optimized by using whale optimization algorithm.

Dual Axis Solar Tracker

Ms. Manisha M, PG Student, Maharaja Institute of Technology, Mysuru

Mr. Nitish Rao. N, PG Student, Maharaja Institute of Technology, Mysuru

Abstract - Fossil fuels are natural resources that are formed over millions of years from the remains of living organisms, such as plants and animals. These fuels include coal, oil, and natural gas, and they are used extensively to power modern societies. Fossil fuels are considered non-renewable resources because they take a very long time to form and are being consumed at a much faster rate than they are being created. As a result, there are concerns about the environmental impact of burning fossil fuels, particularly with regards to climate change and air pollution. With the unavoidable shortage of fossil fuel sources in the future, renewable types of energy have become a topic of interest for researchers, technicians, investors and decision makers all around the world. New types of energy that are getting attention include hydroelectricity, bioenergy, solar, wind and geothermal energy, tidal power and wave power. Because of their renewability, they are considered as favorable replacements for fossil fuel sources. Among those types of energy, solar photovoltaic (PV) energy is one of the most available resources.

Capturing the solar energy to convert it into other energy as needed. The main challenge is to maximize the capture of the sun rays upon the solar panels, which in turn maximizes the output. There are two possible ways to enhance output power from solar energy based systems. Either one can use an efficient material in the manufacturing of the photo voltaic cell or use a solar tracker to follow the sun. The dual-axis solar tracker tracks the angular height position of the sun in addition to following the sun's east-west movement. The dual-axis works similar to single axis but it captures the solar energy more effectively by rotating its axis along vertical and horizontal axis

Posters Presentation on
**“Impact of Science and Technology on Socio
Economic Development”**

"Impact of Science and Technology on Socio Economic Development"

Tech possess enormous potential to improve health and healthcare system. wide tech adoption by both patients and healthcare professionals has immense potential to improve public health efficiently which leads the startups of healthcare tech companies move significantly faster economically.



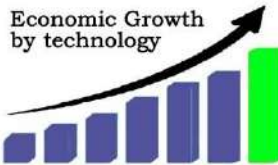
It helps improve student knowledge efficiently through digital phase which lends the future generation to grow economically.

Tech is efficiently used to protect the environment. Nigerian startup recycles plastic into bricks that were resistance water, fire and heat, so like wise economic growth is occurred here.



Many cities around the global are using tech solutions to implement measures to reduce waste and pollution and to optimize energy usage. so like wise, the ideas for the green vehicles came up which led to economic development and also reduce the emission of carbon dioxide.

FutureWorld
Create tomorrow together



Technology can affect growth by increasing productivity and expanding markets for goods and services. For example, improvements in agricultural technology have led to increased yields per acre and greater food security.



The disruptive effects of AI may also influence wages, income distribution and economic inequality. Rising demand for high-skilled workers capable of using AI could push their wages up, while many others may face a wage squeeze or unemployment.

pollution and the depletion of natural resources. Air pollution occurs when harmful or excessive quantities of gases such as carbon dioxide, carbon monoxide, sulfur dioxide, nitric oxide and methane are introduced into the earth's atmosphere.



These impacts of technologies effecting mainly on Mental health, social health, education, job security of our present and future generation and it is also effecting psychologically like isolation, Depression and anxiety, from these negatives the growth of economy is slowing down.

Technology is a useful servant but a dangerous master.

USE
IT
WISELY



NIE First Grade College.
Presentation by_
Abhilash N
Chethan Raj P

Poster by

Mr. Abhilasha N, NIE First Grade College, Mysore
Mr. Chethan Raj P, NIE First Grade College, Mysore

Essays on
“Science and Technology for a Sustainable Future”

Name: Ramprasad N

Class : II B.Com

College Name: SRI.K. Puttaswamy First Grade college.

Theme of Essay: "SCIENCE AND TECHNOLOGY FOR A SUSTAINABLE FUTURE"

Science & technology Plays human world. People Every day Modern to and are adopting a very important role in developing new kind of technology every day and adopting the new kinds of facility in this has become a basic world. Science & technology has become a basic need to the ongoing world.

After Science & technology comes the sustainable future Sustainable development means curing the Insources & concurring them for the future generation), also is known as sustainable development means using the resources and concurring them for future generation

Science & technology plays very important role in the sustainable future. Science & technology helps us in many ways for our sustainable future by providing accurate results, his human Euros, Parent Prediction Perfect and in many other fields.

Sustainable development in Agriculture-

Agriculture is the back bone the families make out many of their loving the rough to weather framing & Agriculture. By using technology People Can reduce the human work, by using the weather forecasting we Can predict rainfall and by knowing the report of the soil we can prevent the soil eruption & by using wring tools and machineries people and can get a perfect outcome. This Sustainable development being und in the field of Agriculture.

Sustainable development in the field of Recourses (Natural resources)

All the living beings in this world indirectly depending upon the Natural resources. Can for Eg- Petroleum, Diesel), etc. By using Science and Technology in the field of natural resources human being can Unearth the natural resources as required and also can conserve them for the future generations. for Eg- nowadays every vehicles are being developed and giving best results by reducing the pollution & has recorded on the less usage of fuels.

Sustainable development field in the of (C.N.G) – Compressed Natural gas

C.N.G are being produced by using many tools & machineries which helps in of natural resources by using C.N.G many machines and vehicles are being developed so that the future generation can use the natural resources.

Sustainable development on the field of electricity

Electricity is considered as one of the major things in the human world. We can say that by using modern technology people have discovered many ways to produce electricity.

Eg- thermodynamics. technology Solar panels etc by this we can also reduce in the usage natural resources and Conserve them for to future generation.

Sustainable descoping in the fold of natural resources Line, forest, animals Etc.

By using the technological tools we can calculate the Area of a forest and can also count the number of trees available in our area etc. Br using biological process we can bring back the Extent animals back to life or we can prevent the animals from being extent.

Conclusion

By concluding we can Say that Science & technology plays Very important role in each & every Sector of our Modern world. If there is no science and Technology there will be no sustainable future once again (sustainable development means using resource today and conserving them for the future generations is known as sustainable development).

Student Name : Gurudarshan M J

Class : II Year BE

College Name: SJCE, JSS Science and Technology University

Theme of Essay: "SCIENCE AND TECHNOLOGY FOR A SUSTAINABLE FUTURE"

In the world undergoing an enormous scale of change we have seen before through spontaneous discoveries in the field of Science and Technology, everything seems to be progressive with hopes of advancing human civilization. There lies a dark side to this feature, a feature without resumes which might revert us back to the Stone age for this very reason the Science and Technology aspects of everyday life has to include the word sustainable future to it. Some sustainable feature is often a misunderstood term as it does not Only save the resources for the future generation but the ways and ideas in which it can be properly implemented through Science and Technology. It is very bored topic as it includes elements Like nature life and even one's job.

Science is often term that's the systematic acquisition of knowledge through moon's like observation experimentation and analysis whereas the technology is the practical application of science in creation of gadgets and ser races to aid human advancements But both these topics or subjects find that real use in the future as various old scientific theories have ended Acquisition of knowledge through moon's like observation experimentation and analysis whereas the technology is the practical application of science in creation of gadgets and devices to aid the human advancements. But both these topics or subjects find that real views feature as various old scientific theories having yielded amazing inventions today. A future without direction in a haphazard manner which leads to various consequences Like global warming emergency super box increase the risk of cancer and many more and many more.

Here comes the need of sustainable feature, where Science and Technology can be implemented on judiciously used or even restricted to attain the equilibrium between nature and scientific advancements. The sustainable future encompasses various aspects like sustainable development based on sustainable goals or targets like zero hunger, re introduction of Laura and founder to reserve the effect of habitat Look deforestation zero carbon emissions disease-free environment and many more.

Let us understand sustainable feature through Science and Technology through real life examples situations like the case of beginning this concept is currently being used limited lay around the world to obtain the minerals and other resources like Make my dance True use of living organisms the advertisements in the field of genetic engineering and meta dodgy in organic chemistry has enabled us to use nature it's your to heal itself to heal itself this method of mining leads to zero involvement of child labor and other societal problems associated with mining like human trafficking, destruction of habitat and pollution is minimized the averaging action of biomining is it provides an environment for growth of plants and trees as the soil mode fertile.

The Science and Technology innovations especially in the field of biology has led to numerous methodologies for replacing cement to bio cement minimizing soil To aquatic life and excess water cold temperature, oxygen score environments.

This may be the aspects addressing few of the goals but in the digital age the use of technology is at on all time high due to the electronic devices and electricity being generated sometimes

these electronic requires the most precious resource in excess of in excess that is water to cope up with technological advancements That are rising exponentially tremendous of water is being consumed in micro fabrication units fabrication units electronic component And in energy generation through thermal plants which serves as the primary Backbone of power generation in India all these problems have led to the rise of energy efficient minimal resource use an efficiently designing key electrical components and later lead through, The introduction of hydrogen transistors To generate H2 Power.

In very rare cases some technological concepts are not used anymore to restore the environment and reduce the pollution and to minimize the health risks in humans like the use of CFC refrigerators Petrol, ionizers etc

In conclusion the Science and Technology is like a double edge well it's with its own pros and cons with the introduction of each new idea or invention this is a sustainable feature can be acknowledged but not 100% through only Science and Technology but also we should include the social and economic aspects to supplement. The Science and Technology The overall sustainable feature through Science and Technology can only be realistic if we believe technological advancements in human civilization with the severe & destructive beauty of nature

Student Name: Ashwija LA

Class : I MCA

College Name: SBRR Mahajana PG Centre

Theme of Essay: "SCIENCE AND TECHNOLOGY FOR A SUSTAINABLE FUTURE"

Introduction:

I absolutely feel keen to express my own perspective view and opinions regarding science and technology for a sustainable future. How we would be living today if science and technology don't exist? Of course your initial answer would be that, we naturally can live but practically we could not. Science and technology immensely efficient both personally and professionally. However we know the advantages and disadvantages of technology are infinite we discover that science and technology plays a crucial role in many ways. So I would be elucidating both boon and bane factors of science and technology throughout this essay.

Okay, don't you think modern science and technology is Serving the basic needs for the human. These have a significant enhancements in process that provide basic needs such as survival, development and well being of human. Despite of tremendous benefits of science and technology in this future, we go into the next generation with e-fourth of the world population one- living in severe poverty and gap between rich and poor widening. So how to change in the development strategy to get a equitable Society It is succeeded by formiden power of science and technology which harnessed to the development of the whole of humanity only if we know how to temper it with the humanism.

1. **Smart grid systems:** Smart grid systems are used to the efficient management of energy and to integrate the renewable source solar power and wind power. Such as solar power and wind power.
2. **Building automation systems:** Building automation systems can increase the efficient management of heating, lighting and Cooling systems there by decreasing energy consumption.
3. **Future ed-Tech:** The Education technology startups for future is bright more and more startups are coming up in this field Jhe reason is the demand for the quality education. Education decides the future of the country and the world as well.
4. **Electric transportation:** Electric transportation such as electric cars, buses, bikes etc can greatly reduces the green house gas emission there by reducing the air pollution in cities.
5. **Smart traffic management systems:** Smart traffic management systems reduces the congestion and decreases the need for travelling there by contributing to the improvement of air in cities.
6. **Green infrastructure:** Green infrastructures such as green roofs, rain water harvesting and urban agriculture can greatly help in providing the sustain and elisient cities.
7. **Sustainable waste management systems:** This systems such as smart bins and recycling facilities reduces the waste and increases recycling while also increases efficiency and cost-effectiveness
8. **Smart lighting:** The smart lighting systems decreases energy consumption by tracking the light level based on day and the time and presence of people in the particular area.

Advantages and disadvantages

Sooner or later we need to face reality! if technology used correctly there are no limits for advantages like advancements in medical field, improved efficiency and productivity, increased access to network and so on. Despite of having these many benefits modern science and technology can also have disadvantages like job displacement, health risks environment impact, social isolation etc.

Conclusion

Let me put it a bit differently. No doubt that modern science and technology is mere blessing, but it is equally important to acknowledge the life values when it comes to smartphones, it is a whole different story! Youth are most dependent on the technology as a fact anything more is not good Today's generation thinks that the real leadership quality is to being an admin for WhatsApp groups! which is a irony. This this the vast topic to sum it if I would end this essay by saying that, Yes, science and technology is definitely a boon until we humans used it for good deed for our future generation and sustainable society.

Student Name: NEHA R

Class : I MCA

College Name: SBRR MAHAJANA PG CENTER MYSURU

Theme of Essay: "SCIENCE AND TECHNOLOGY FOR A SUSTAINABLE FUTURE"

21st Century remainder - To live a healthy, happy lifestyle, make productive revolutionary to make human life quick and easy, to gift the better life style to the next generation. Our Honourable Prime Minister Mr. Narendra Modi once said "If we being the responsible citizen, we must regardlessly think where we come from, what are do, where one live and focus development through science and Technology in a sustainable manner, then our Earth future generation can experience a literal Heaven on Earth.

In my opinion, Sustainable future regards to meet all Human requirements in a fruitful effective away without delivering short able as no basic fundamentals of the Earth's natural resources to the upcoming generation and also making their life easier through the advancement in Technology using scientific methods.

Sustainable development can only be achieved only when we are making efforts to reduce pollution by an alternative of using electric vehicles, reducing power consumption by switching on to solar power, reduce waste disposal, forest degradation. Environmental development Social upgradation. Economy Improvement are the 3 main milestone to being successful on Shitting Sustainability. Environmental development can be achieved by keeping the natural resources intact even to humans without Impacting the habitats of the animals. social upgradation can the achieved 6 only through "the use of technological revolutionaries through Science so that human life gets easy and cherish able. Economy Improvement as a major aspect to achieve Sustainability. This can the done when technology as put forward in making a productive outcome which makes traditional tasks in no time which also benefits the Revenue of the nation.

Recent studies dominate that, of Agriculture improvement, Industries development, Biotechnology department. Green spaces, are getting benefited through the boom of science using Technology Shen no one Can stop from being sustainable. The research also concluded by stating there are the fields where are must focus on an order to uplift moral obligations. They portrayed that Environment, Technology, successful implementation of old and modern technology will no doubt make drastic changes in our lifestyle to achieve sustainability can be achieved back for long term success. Strong governance, periodical education, Advisory committee are the foundations.

No doubt all the countries will definitely come up with wonderful ideas to use the Earth's natural resources come an efficient manner and also perceive them effectively to the next generation. This initiative must be strongly taken by the respective government because only strong governance will make all our plans come to reality. Basically, Awareness among people one should not just use à resource but also preserve and conserve at for future is important. Periodically educating people on the importance of sustainable future in the crucial thing to work on. My opinion would be. Somehow using science and modern technology, sustainability can be achieved best for the long term success & strong Governance, periodical education. Advisory committee are the foundations.

According to the 2005 Global Sustainable development research, the US proposed 17 goals which all the counting must responsibly adapt the in order to achieve the target. India sums ranked 121 out of 163 countries. Definitely this as not a good rank because few states like Bihar, Uttar Pradesh, Telangana and few more are still facing it difficult to attain sustainability. This was the rank in the year 2022. We being the responsible citizens will strive to bring a good rank for our countries Status Globally through technological advancement in a sustainable procedure. The Global sustainable development launched 17 goals con September 25th in the year 2005.

Solar energy, wind energy. Water consumption to fixtures. Green spaces are the majority of the areas where are have to bring tremendous technological application if we want our Nation to be ranked high in the Global Sustainable Summit.

I would like to express that our planet is our one and only Asset. Now. By this I conclude my essay by summarising that growth, development technology makes our lifestyle better. Our present choices and policies will definitely help us to attain what we are looking for. Let's not misuse the power what technology brings. Remember we are living a healthy life which was the greatest gift from our ancestors and now it is our duty to present our green living planet to our future generations also.

Let's take an with on building a sustainable future for our own upcoming generation because if we humans don't look after our planet means who would!!

Photography on
“Technology - a boon or bane to mankind”



Photo by Mr. Yashaswi – Sadvidya PU College, Mysuru – Under PU category

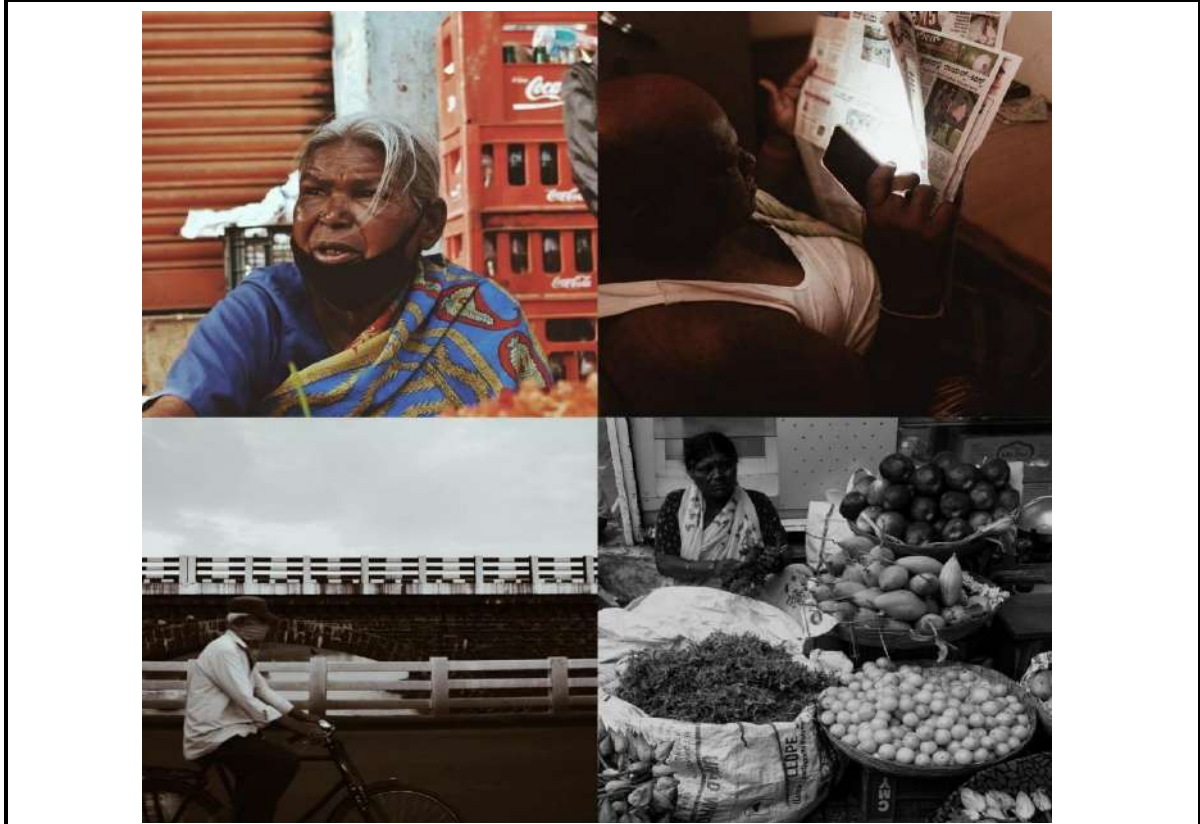


Photo by Ms. Monisha U– MMK& SDM MMV, Mysuru – Under Degree category



Photo by Ms. Lavanya– SBRR Mahajana FGC, Mysuru – Under Degree category



Photo by Ms. Megha Anand– SBRR Mahajana PG Centre, Mysuru – Under PG category

Model Making on
“Technology - transforming lives, shaping the future”



Prize won models



Model prepared by Mr. Mohith Krishna K - Sadvidya Semi Residential PU College, Mysuru



Model prepared by Ms. Shaista Siraj & Ms. Bhuvana B R - SDM Girl's PU College, Mysuru

Panel of judges

Sl No	Name of the Event	Name of the External Judge	Name of the Internal Judge
1	<i>Project Presentation</i>	Smt. Nirmala M S Assistant Professor & HOD Department of Computer Science Government College for Women (Autonomous) Mandya - 571401	Dr Wethroe Kapfo, Assistant Professor of BioChemistry and HOD
2	<i>Essay Writing</i>	Smt. Bindu Raj L Cyber Security Consultant SC Consultants The National Institute of Engineering Manandavadi Road, Mysuru - 570008	Smt Brunda N, Assistant Professor of English and HOD
3	<i>Poster Presentation</i>	Dr. Latha Rani N Assistant Professor PG Department of Physics KLE's S Nijalingappa College Rajajinagar, Bengaluru	Dr Chaithanya Pandit, Assistant Professor of BioChemistry
4	<i>Model Making</i>	Ms. Belgaonkar Priyanka Senior Research Associate Syngenes International Limited Bengaluru	Smt Bharathi N, Assistant Professor of Physics and HOD
5	<i>Video Making</i>	Ms. Maheshwari B P Assistant Professor JSS Centre for Management Studies JSS Science and Technology University, Mysuru	Smt Atiya Sameen, Assistant Professor of Microbiology and HOD
6	<i>Photography</i>	Ms. Chaitra M R Technical Associate Manager Accenture Bengaluru	Dr. Vinoda, Assistant Professor of Kannada and HOD

Award Winners

Sl. No.	Name of the Event	Level	Place	Winners	Institute
1	Model Making	PUC	I	Mr. Mohith Krishna K	Sadvidya Semi Residential College
			II	Ms. Shaista Siraj Ms. Bhuvana B R	SDM Girl's PU College
2	Poster Presentation	UG	I	Mr. Amruth B Arun Mr. Gurudarshan M J	JSS Science and Technology University
			II	Mr. Abhilasha N Mr. Chethan Raj P	NIE First Grade College
3	Video Making	UG	I	Mr. Amruth B Arun Mr. Gurudarshan M J	JSS Science and Technology University
			II	Ms. Hiba Hurain	St. Philomena's College
4	Project Presentation	UG	I	Mr. Vishnu B V Mr. Sharath S Rao	JSS Academy of Technology Education, Bangalore
			II	Ms. Chinthana S V Ms. Riya U R	MMK & SDM Mahila Maha Vidyalaya
		PG	I	Ms. Manisha M Mr. Nitish Rao. N	Maharaja Institute of Technology, Mysuru
5	Essay Writing	UG	I	Mr. Ramaprasad N	Sri. K Puttaswamy Fist Grade College
			II	Mr. Gurudarshan M J	JSS Science and Technology University
		PG	I	Ms. Ashwija L A	SBRR Mahajana PG Centre
			II	Ms. Neha R	SBRR Mahajana PG Centre
6	Photography	PUC	I	Mr. Yashaswi	Sadvidya PU College
		UG	I	Ms. Monisha U	MMK & SDM Mahila Maha Vidyalaya
			II	Ms. Lavanya	Mahajana's College
		PG	I	Ms. Megha Anand	SBRR Mahajana PG Centre

Photo Gallery



Inauguration of ITECHNARY – 2023 by Prof K S Rangappa, Former VC of University of Mysore and Karnataka State Open University



Inagural Speech and key note address by Prof K S Rangappa, Former VC of University of Mysore and Karnataka State Open University



Felicitation to valedictory Chief Guest Dr.Shilpashree S P, Associate Professor and Head, Department of Sciences and Humanities , School of Engineering and technology, Christ(Deemed to be University) , Bengaluru



Prize winners of ITechnary – 2023 competitions along with Principal and Chief Guest Dr.Shilpashree S P, Associate Professor and Head, Department of Sciences and Humanities , School of Engineering and technology, Christ(Deemed to be University) , Bengaluru



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Department of Computer Science

ITECHNARY - 2023

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