MMK & SDM Mahila Maha Vidyalaya

Affliated to university of Mysore, Accredited by NAAC with B grade

MMK & SDM Mysore

An IQAC innitiative
Innovation and Incubation centre

In association with

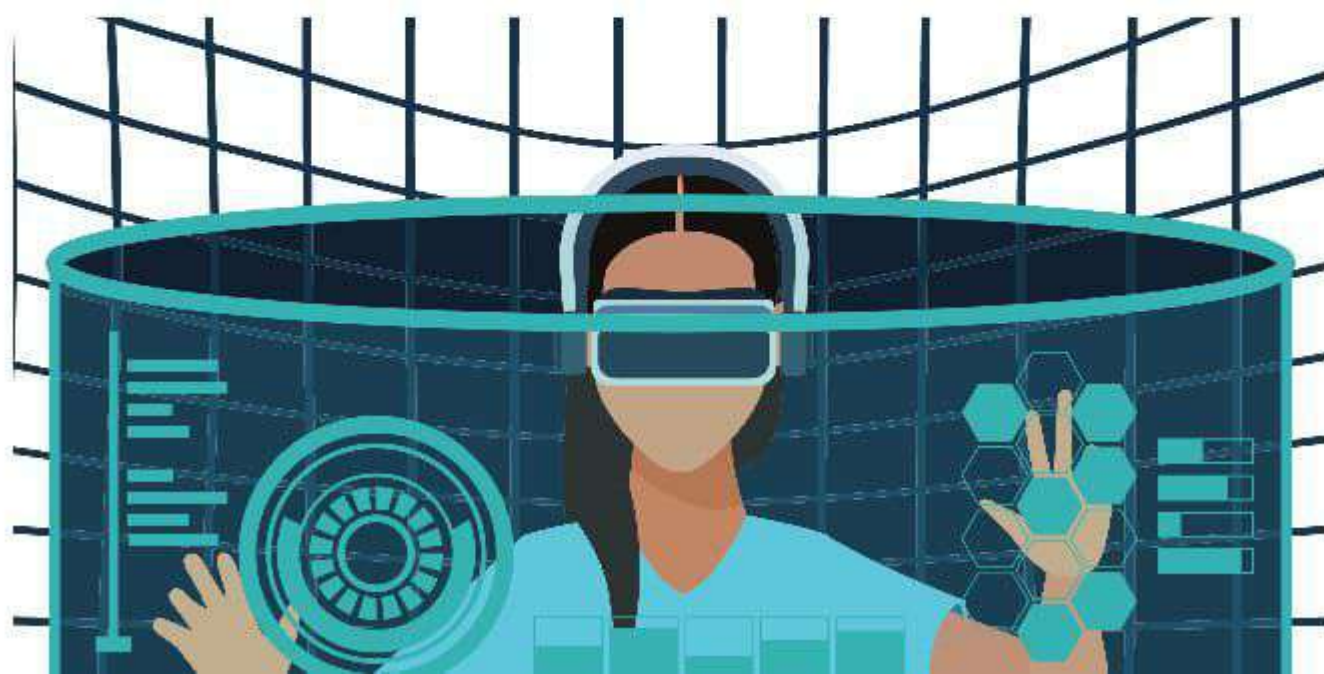Samvidya Trust (R)
Ryan Publishers, Trichy
Prosetta Bioconformatics Pvt. Ltd, Mysuru

ITECHNARY

Journey of Technology in Shaping Civilization

Celebrating
National Technology Day &
National Level Competition

Proceedings of the
"ITECHNARY"

Journey of Technology in shaping civilization

Celebrating

NATIONAL TECHNOLGY DAY
&
NATIONAL LEVEL COMPETITIONS

30th April to 31st May, 2022

MMK & SDM Mahila Maha Vidyalaya

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

MMK & SDM MAHILA MAHA VIDYALAYA

(Affiliated to university of Mysore, Accredited by **NAAC** with **B grade**)
Krishnamurthypuram, Mysuru-570004

OUR VISION
"*Empowerment of Women to face the global challenges*"

An IQAC Initiative
Innovation and Incubation Centre
In association with

Samvidya Trust ®
Ryan Publishers, Trichy &
Prosetta Bioconformatics Pvt Ltd, Mysuru

ITECHNARY

Journey of technology in shaping civilization
Celebrating
NATIONAL TECHNOLOGY DAY
&
NATIONAL LEVEL COMPETITIONS

Registration starts from 30.04.2022
Last Date of Registration: 19.05.2022

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

Click here for Registration

Last day for submission is 21st May, 2022.
Winners will be announced and awarded on 31st May, 2022

About ITECHNARY:

The event ITECHNARY is an initiative of by IQAC , MMK & SDM MMV & Organized by Innovation and Incubation center, to celebrate National Technology Day on 11th May, 2022. This is the first time of such a celebration which will be an annual event organised henceforth. The program will commence with the inauguration ceremony on 11th May, 2022 followed by the month of May as National Technology Month. During this month, a number of competitions will be held nationally to seek out and display the works of the young geniuses of our country. These competitions are organised for students from PUC or higher secondary 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.

Contact details:
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Account No- 73820200000298
Account Holder- MMK & SDM Mahila Maha Vidyalaya
IFSC Code- BARB0VJJLBR   ('0' MEANS ZERO)
Bank Name- BANK OF BARODA

Details of the competition

Sl. No.	Particulars	Category	No of Participants in each team	Instructions of the event
1.	Model Making	UG & PG	Maximum of two participants **Prize money** I- ₹. 2000/- II- ₹. 1000/-	•3-D or working model under the theme **"Impact of Science and Technology on Mankind"** has to be prepared. •A video recording (maximum **3:59 minutes duration**) showing the participants explaining the model must be emailed to sdmmmkitechnary@gmail.com along with the details of the participants and the affiliating colleges. •The attached video must be labelled as "Model Making Itechnary-Names of the participants". Affiliation of the first author will be considered for the level of category. •I and II Prizes will be given based on the novelty of the model and technology displayed.
2.	ePoster	PUC	Maximum of two participants **Prize money** I- ₹. 1000/- II-₹. 500/-	•e-Poster must be prepared in Power point or word document having only a single slide in portrait or landscape layout according to the theme **"Impact of Science and Technology on Mankind"** •The poster must have a Title, name of the participants and their affiliating institutions followed by the body of the poster. •A video recording (maximum **1:59 minutes**) with the participants explaining the poster must be emailed to sdmmmkitechnary@gmail.com. •The video must be labelled as "E-Poster Itechnary-Names of the participants". •I and II place Prizes will be given based on the presentation of the poster.
3.	Memery	UG	Maximum of two participants **Prize money** I- ₹. 1000/- II- ₹. 500/-	•A single meme (JPG format) having maximum four comic strips on the theme **"Impact of Science and Technology on Mankind"** must be emailed to sdmmmkitechnary@gmail.com along with details of the participants and their affiliating colleges •The meme must be of original artwork otherwise it will deem disqualified. No profanity or controversial topics will be entertained; participants must ensure that the meme is neither offensive nor provocative. •The meme file must be labelled "Memery Itechnary-Names of participants" •I and II place Prizes will be given based on the originality and clarity of concept of the meme.

4.	Project prizes	UG & PG	**Maximum of three participants**	•A power point presentation (max 8 slides) of a project work already completed not earlier than March, 2021 must be. •The project work must highlight the theme "**Integrating Science and Technology for Nation Building in Health, Agriculture, Food and Environment Sectors**". •A video recording (maximum **6:59 minutes**) of the participants explaining the powerpoint presentation must be emailed to sdmmmkitechnary@gmail.com along with the details of participants, their affiliating college and abstract of the project in a separate word file. •The video must be labelled as "Project Presentation Itechnary-Names of the participants". •Affiliation of the first author will be considered for the level of category.
			Prize money UG: I- ₹. 3000/- II- ₹. 2000/- PG: I-₹. 4000/- II-₹. 3000/-	•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.
5.	Essay	UG, PG & Research Scholars	**Maximum of three participants**	•A word file containing essay of maximum 500 words only, in English must be emailed to sdmmmkitechnary@gmail.com. •It must be typed in Times Roman, Font size- 14 for Title, 12 for the details of the participants and their affiliation, and the body of the essay. •The essay must be written in the following themes and must be an original manuscript. If plagiarism is detected the essay will be immediately disqualified from the competition. •I and II prizes will be given based on originality and clarity of concept.
			Prize money UG: I-₹. 1500 II-₹. 1000/- PG: I- ₹. 2000/- II-₹. 1000/- RS: I- ₹. 3000/- II-₹. 1500/-	Themes **UG: Impact of Science and Technology to Mankind** **PG: Science and Technology for Sustainable Future** **Research Scholars: Rebooting the Economy through Science, Technology and Research Translations (RESTART)**
6.	Photography	PUC. UG, PG & Research Scholars	**Maximum of two participants**	•A single photo or a collage of photos in JPG format capturing the moments that is evidence that "**Technology has been a boon or bane to mankind**" has to be emailed to sdmmmkitechnary@gmail.com. •The email must also include a **59 second** video of the participants explaining the meaning of the photograph along with the details of the participants and affiliating colleges in a separate word file. •The video file has to be labelled "Photography Itechnary-Names of participants". •The competition is to encourage amateur photographers and so the event is open for all levels.
			Prize money I- ₹. 4000/- II- ₹. 2000/-	•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.

- All presentations must be sent to the email address "sdmmmkitechnary@gmail.com".
- All video recordings must be in MP4 format.
- Cash prizes for each category along with the prize certificates will be awarded to the winners. All participants will be provided with certificates of participation.
- The selected abstracts for project presentation and essays will be published in the conference proceedings having ISBN number.
- For participants requesting for printed Proceedings with ISBN Number an extra Rs.300/- (hardcopy certificate included) has to be paid.
- For participants residing outside Mysore city requesting for hardcopy certificate only without printed proceedings, an extra Rs. 20/- for postal charges has to be paid along with registration fees.

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 motto,"Empowerment of Women to Build an Enlightened Society" 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 and submission of AQAR for second cycle is underway. It offers programs in BSc., B.Com, BBA and M.Com.

About Samvidya Trust ®, Mysuru: The Trust is a non-profit NGO that focuses on taking multiple approaches of learning via summer camps, classroom learning, activity based learning, theme based learning, event learning, kitchen science and more. The Trust focuses on learning support for under-privileged children and supports children to love science, think innovatively and be responsible towards their surroundings. Samvidya Trust® is a Registered Public Charitable Trust. All donations to the Trust are tax deductible under section 80G (2).

About Ryan Publishers, Trichy: Ryan Publishers is an upcoming publishing firm which emphasizes on publishing multidisciplinary Books and Journals. We provide opportunities for an upcoming author to showcase his/her talent to the world and at the same time building-up resume for the young and the experienced ones. We also publish thesis into books with ISBN.

About Prosetta Bioconformatics Pvt Ltd, Mysuru: Prosetta Bioconformatics Private Limited (PBPL) is a Biotech/Biopharma company with current focus on developing anti-viral therapies based on the path-breaking drug discovery platform developed by Prosetta Bioconformatics Inc, USA. PBPL was established in 2004 and started its independent research and development (R&D) operations in India from 2008. Our current operations are based out of our fully owned facility at Mysore, Karnataka, with state-of-the-art technology that caters to our research and commercial goals. Using its cutting edge research, PBPL is addressing issues central to drug discovery research platform, pre-clinical studies, monoclonal and polyclonal antibody generation and protein bioconformatics. Being a research and innovation driven company with a focus on translational research, PBPL works in close collaboration with academic institutes in India and other countries. Our ultimate aim is to bridge the gap between fundamental scientific concepts and socially responsible commercialization

Contributing Editors from MMK & SDM Mahila Mahavidyalaya

1. Bharathi N
2. Sukrutha K.S.
3. Padma B.S.
4. Shivabeerappa M
5. Rajarajeshwari R
6. Santhosh D.H.
7. Gayathri R
8. Pavithra V
9. Devaki KK
10. Chaitanya Pandit

PREFACE

This book reports the Proceedings of the "ITECHNARY" held from 30th April to 31st May, 2022 organized by MMK & SDM Mahila Maha Vidyalaya in association with Samvidya Trust ®, Mysuru, Ryan Publishers, Tiruchirappalli and Prosetta Bioconformatics Pvt Ltd, Mysuru. The event celebrated National Technology Day in the form of National Level Competitions through online mode. The program was inaugurated on 11th May, 2022 and ended with valedictory function on 31st May, 2022 followed by the award ceremony. Registration for the competitions began form 30th April, 2022 onwards wherein competitions such as e-Poster, Model Making, Memery, Project Presentation, Photography and Essay competitions were conducted. Each event had a specific theme on Impact of Science and Technology to Mankind. A total of 51 entries all over Karnataka state and neighboring state registered for the competitions. 13 judges were invited to the judge the event. We thank all the participants for making this event a success and all the judges for their timely cooperation.

The team for ITECHNARY has worked very hard to bring out the proceedings in this manner. I am sure this will set the pace to conduct this type programs in the coming years as an annual event.

CONTENTS

Remarks from President of SDM Education Society

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

Scientific knowledge is being applied for practical purpose which has positively affected human life in the form of technology. The hard yet menial tasks are completed easily thus solving problems associated with daily lifestyle. Civilization has been defined through the building structures, farming practices, trade routes, health care, etc. The potential of ease for such amenities has categorized a civilization as being more advanced than the previous order. This is because of the kind of technology existing in those eras and how far it has made work such as farming, building cities, travel, trade, etc easier, effective and quicker. As mankind has identified and harnessed the discoveries, technology has effectively linked together all countries on earth, helping to create globalization, and making it easier for economies to grow and for companies to do business. Technological solutions have made more problems less. Technology however is like a double-edged sword wherein less- than- desired impacts are also there. However, by being aware of the negative impact as human beings with the sense of reason, it is our duty to use what technology has to offer wisely in order to create more positive impacts on society. This way life is better for multitudes greatly affecting education, agriculture, transportation, and communication sectors within societies globally. As one has quoted

"…the larger purpose of all technology is to eliminate human drudgery".

The purpose of technology is to shape lives for the better, to such an extent that a country like our nation must one day achieve amenities like universal healthcare for every citizen, a healthy and safe environment, equity in education and in whichever field one chooses, a functional and accessible government, surplus food for all, etc. These are all tenets of a civilized society.

As I would like to conclude, with access through technology comes inclusivity of all beings.

Remarks by President of the program, on ITECHNARY
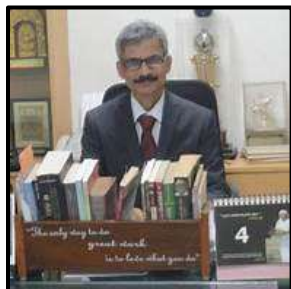
Prof. Sainath Malligemade
Principal
MMK & SDM Mahila Maha Vidyalaya,
Mysuru

11th May, 1999 was declared as National Technology Day by the then Honorable Prime Minister, Atal Bihari Vajpayee to acknowledge the nuclear tests in Pokhran. Since then, this day is celebrated to commemorate all the indigenous technology that has shaped our civilization to betterment by solving prevalent problems. This year's theme "Integrated Approach of Science and Technology towards Sustainable Future" stresses upon the fact that technology exists due to scientific principles.

MMK & SDM Mahila Maha Vidyalaya is working towards imparting quality and relevant education with the mission of empowering women to build an enlightened society. Over the years, the college has strived to grow in all aspects of imparting education. With the belief that science and technology is the heart of the economy of any nation, an Innovation and Incubation Centre is established in the college to motivate students to pursue research. Several in-house projects are also funded by the college providing a firsthand experience at research. Under the incubation centre, guest lectures by experts, science day celebrations, etc are organized

The event ITECHNARY, is first of its kind being celebrated by a science degree college. The aim of the event is to provide a platform for students to showcase their talent and increase their awareness about the real time applications of science and technology in today's world. This is also a giant step towards achieving the very purpose of the innovation and incubation centre – Providing a first-hand experience about research and its application to students. This event will be an opportunity for the students to gain knowledge and be exposed to the current trends in science and technology which will empower them to face the global challenges.

We wish the participants of Itechnary and the readers of these proceedings Good Luck.

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

Dr. Wethroe Kapfo
Assistant Professor and Head,
Department of Biochemistry and Coordinator,
Innovation and Incubation Centre
MMK & SDM Mahila Mahavidyalaya
Mysuru

The ability to convert a discovery into an invention is one of the unique features of a human being. These inventions have the sole purpose to simplify routine work, giving room and time for mankind to explore and achieve unimaginable heights. The human race has created a niche in the ecosystem through the evolution and shaping of civilizations. History provides such evidences and today the immense progress that we witness is called technology. As the human mind is distinctly curious about the dynamics and mechanics of the surrounding environment, we have come to an understanding of the fundamental principles governing various phenomena. This, we have termed as science. The industrial revolution, therefore, has taught us that science and technology are concerted and crucial for developing a community. Neither can exist without the other. As we reminisce the significant changes in the lifestyle of recent decades, it is imperative to acknowledge the influence science and technology has had in shaping our civilization.

The term ITechNary is a combination of Itinerary and Technology. It projects the journey that technology has travelled in shaping the human civilization. In order to commemorate the National Technology Day which is celebrated every year on 11th of May, the Innovation and Incubation Centre, MMK & SDM Mahila Mahavidyalaya decided to observe the event by conducting national level competition in different events for students from Higher Secondary School to Research Scholars. Science and Technology is not confined to an exclusive stream, but revolves and involves all manners of studies. Thus, this one-of-a-kind event was open to students from all streams of Science, Engineering, Medicine, Arts and Commerce. Having initiating this, the objective is to celebrate this program as an annual program and create a platform to showcase the talents of the young geniuses nationwide. The following proceedings records the selected entries of students in all events in order to expose the efforts and talents of the young minds. This being our first celebration, the program was successful and as Coordinator of the Innovation and Incubation Centre I am grateful to the Management of SDM Education Society, Principal of the college, committee members, student council, guest and judges for their support in organising this event. The

sponsors have encouraged the organisers by their donations. Our associates, Samvidya Trust ®, Ryan Publishers and Posetta Bioconformatics Private Ltd have actualised the bridge between academia and industry, further strengthening the objective of the program. The highlight of the event, however, goes to the students form various colleges and places who participated in the events of the program. It is my sincere wish, therefore, that these proceedings will encourage more students in future to showcase their talents in larger sclae.

Message from the Inaugurator of the Program

Dr. Gnana Prakash
Registrar (Evaluation)
University of Mysore
Mysuru

We all know, "**For a sustainable future, every nation needs the latest technology**….. Happy National Technology Day to everyone." "Each and every innovation is a small step taken towards the growth of the country…. On the National Technology Day, lets salute our scientists for their services and achievements in the field of science and technology.   Best wishes on National Technology Day."

One machine can do the work of fifty ordinary men. No machine can do the work of one extraordinary man. The art challenges the technology and technology inspires the art.

 The theme for 2022 is "**Integrated Approach in Science & Technology for Sustainable Future**". The theme was launched by Union Minister Jitendra Singh.

National Technology Day to commemorate India's technological achievements, including Operation Shakti at Indian Army's Pokhran Range in 1998. After five successful nuclear tests, **Ex-PM Atal Bihari Vajpayee** declared India a nuclear state, the sixth country to do so.

The science today is the technology of tomorrow.   Technology has a significant role in our day-to-day life and considering its contribution to the strengthening of the economy; National Technology day becomes substantial.

Technology plays an important part in our daily lives, and when we consider its contribution to economic growth, National Technology Day becomes crucial. It is a day to remind Indians of the country's technical advances. Technology helps us stay organised, connected, healthy, and safe. Technology increases productivity and provides us with new insights into how the world operates.

Every year on this day, officials pay honour to India's scientists for their achievements. We can all agree that technological growth is affecting the country's livelihood and status. National Technology Day is observed in India to honour the remarkable hard work and achievements of Indian scientists.

Since National Technology day is one of the most auspicious days in the history of India, it is celebrated by the government of India by handing over awards to the people who have contributed immensely to the advancement of technology.

By appreciating the efforts of the scientists and engineers, India marks the importance of science in our life and how young people should adopt this field of career. Some students do not opt for science or engineering because they think it is a complex subject.

National Technology Day shows us the power of technology. It symbolizes all the things that can be achieved with the proper utilization of technology. This encourages other technological endeavors. This day is a monumental part of India's history. It highlights their great achievements and points to an even more successful future. Innovative advancements such as these further encourage development in the science, research, engineering, and technology fields. A success story like this inspires more growth and development in the field. India is pioneer in many technologic like in space, pharmaceuticals, software, health care…… etc. As I mentioned earlier, on May 11, 1998, the country conducted three successful nuclear tests at the Indian Army's Pokhran Test Range under Operation Shakti. Two more nuclear tests were conducted on May 13, led by late President Dr. A.P.J. Abdul Kalam, which made India an official member of the elite club of nuclear power nations. However, that was not all India's Defence Research and Development Organisation achieved. On the same day, they also tested their first indigenous aircraft, Hansa-3, and conducted a successful test firing of the Trishul missile.

The Prime Minister at the time, Atal Bihari Vajpayee, declared May 11 as a day of significant achievement for the country, and National Technology Day was observed for the first time on May 11, 1999. Since then, the Technology Development Board has been honoring scientists and engineers and their technological innovations that have added to the growth of India. Technology is only advancing day by day and Indians have always made huge contributions to the advancement of Tech with great inventions.

Technology is essential in strengthening the country, but it has also become a much intricate part of people's lives. Technology is helping people connect and work better in the education sector, business, and much more. Without technology, you could not have imagined talking with your loved ones on the mobile phone or reading news on a device like a laptop and getting to know what is happening in different countries. During covid all of you utilized technology very effectively for your academic purposes. Technology has held us to have a better standard of living, and it has offered a variety of employment opportunities to people. With the help of technology, you can access the internet, without which you could not have imagined globalization. The education sector and entertainment industry have

become much more advanced with outstanding graphics 3D games & movies. With online schools and colleges, distant learning has become accessible. I request all the young students to utilize technology for good cause and be successful in this connection MMK & SDM Mahila Maha Vidyalaya organized and celebrating National & Technology Day and National Level Competitions.

I congratulate principal of this college Dr. Sainath Malligemadu for organizing ITECHNARY to encourage students to participate and show their talents and contribute for the technology developments. I am very glad to be a part of this event. I wish you good luck, thank you one and all.

Key note address by the Chief Guest of the Inauguration program

Dr. Dharma Prasad M
CEO and Chief Scientist
Prosetta Bioconformatics Pvt Ltd
Mysuru

Future Technologies and skills, how can I be the best?

The current generation an "Instant Generation" that is experiencing tech disruptions such as Jio and Zerodha using Aadhar to disrupt the market. Gone are the days when we had to wait for days to months to even years for getting simple amenities such as a scooter or a landline connection. **Digital consumption is escalating.** YouTube, Netflix, etc have enabled streaming services more accessible, purchase is simpler thanks to eCommerce like Amazon, food delivery is a reality because of services of Zomato and Swiggy, hassles of transport is taken care of by Ola, Uber, etc., handling finance is tech based and one can voice his/her opinion on a global platform through twitter, facebook, instagram, etc. Future businesses are setting towards Internet of Things, Artifical Intelligence, New Energy, Robotics, Biotechnology, 3D printing which require continuous innovation and collaborative research. As the job scenes in future will shift towards gig economy, history continues to remind us of competition from unknown sectors overshadowing the then technological trends. In the search for talented and dedicated taskforce among the younger generation leadership ideals are shifting from IQ to EQ, creativity over clerical and problem solving over mere intelligence. Indeed, the reducing attention span of an average human has to be first overcome to excel. How does one need to be successful?

Invest in:

1. Self- learning, talent, skills, circle of competence
2. Developing Communication Skills
3. Improve Attitude / Emotional Intelligence
4. Consistent Energy / Passion / Self Management
5. Maintain Integrity
6. Choose right / Perception / Social intelligence
7. Own business
8. Other business through equity
9. Start early- compounding effect

Key note address by the Chief Guest of the Valedictory program

Dr. Arunkumar G. S.
Scientist and Head
Molecular Biology Lab and
Mulberry Pathology
Division of Biotechnology

Science and technology; At Past, Present and Future

The science of today is the technology of tomorrow. The current advancement in technology has made a growth in e- business and increased popularity of internet. Over the years, technology has revolutionized our world and daily life. Science and technology (S&T) made everything fun and easier. It puts every minute information at our fingertips.

- ✓ S&T at ancient era
- ✓ 1940s and 1950s, new information technology was developed to enhance military and university operations.
- ✓ Many revolution in agriculture and allied sector for food production

S&T in the history of India; during 1965, the slogan "Jai Jawan, Jai Kisan" by our Prime Minister Late Shri Lal Bahadur Shastri. Later, **during 1998**, the then Prime Minister of India, Shri Atal Bihari Vajpayee, also added "**Jai Jawan, Jai Kisan, Jai Vigyan**", expressing his support of science. And now, our present Prime Minister, initiated the slogan "Make in India".

S&T have been implemented to the every aspect of modernization in every nation. Modern gadgets have been introduced to every walk of life and have solved many problems. Whatever improvement in today is because of S&T. Villages are getting developed to towns and towns to cities thus expanding the greater horizons of economy. India is a fast developing country in the sense of S&T.

We are now in digital world!!!!!!! It has made education easy and today we have multiple options to clear our doubts, ask questions or have a live interaction with teachers. It has became fully integrated into our lives. It begins to connect us around the globe. Advancement in technology has increased automation of manufacturing, convenience in travelling, innovation and creativity, easy flow of information, improved customer & business relationship, improved Human Resources Management, and easy access to medical care & service. **Overall it is improving the quality of life.**

S&T are important threads in global society that enable people to live better lives.

- ✓ Communication systems
- ✓ Astronomy
- ✓ Semiconductor devices
- ✓ Automobiles and electronic devices,
- ✓ Bio-electronic devices
- ✓ Building and architectural design techniques and
- ✓ Computers have all seen significant advances in technological advancement.

Along with it, the availability of new technologies

- Machine learning
- Aartificial intelligence
- Robotics
- Cloud computing.

Challenges at present and future perspectives of S&T

Compatibility of medicines, technologies and innovations for integration??????.

Children are being addicted to cell phones which could affect their health adversely!!!.

Humans are being replaced by machines. Yet the positivity of technology has covered the negativity of it. The way we humans live is changing every day. Each day we come across new technology science and development.

Bottlenecks of S&T

The role of technology in war increased dramatically because of the nuclear weapons, **bio-warfare** and bio-weapons, poison gas, and the tank, missile, portable machine gun, submarines, and hand grenade.

Recent technologies in life sciences

Biotechnology is the leading force to help us solve problems that we, as humans, were responsible for creating. The major advantages are improve health and life span, increases crop production, improves agriculture and food sectors where tougher strains of crops can be grown to make them protected from disease. Animal breeding,

- ✓ Fermentation
- ✓ Medical diagnosis
- ✓ Recombinant DNA technology
- ✓ Omics approaches
- ✓ Medical diagnosis
- ✓ Bioinformatics

- ✓ Bio-energy
- ✓ Bio-fuels and genetically modified transgenic animals and plants
- ✓ Genome editing
- ✓ Chromosome walking
- ✓ Genome sequencing
- ✓ Nanotechnology

# Address by the Guest of Honor for Valedictory function of ITECHNARY

Dr. P.F. Steffi,
Assistant Professor,
PG and Research Department of Microbiology
Cauvery College for Women (Autonomous),
Trichy-18

Science and technology have always played an important role in Indian culture. Natural philosophy, as it was known in ancient times, was vigorously pursued at institutions of higher learning. Scientific knowledge enables us to make new observations about the world, expand our scientific and technological knowledge, and create new technologies. Science and technology cause us to think, feel, and even dream in novel ways. From that point forward, the Government of India has gone all out to lay out a cutting-edge Science & Technology foundation in the country. The Department of Science and Technology assumes a crucial part in advancement of science and innovation in the country. In this day and age, the job of science and innovation is key. We want Science and Technology in each circle of our life like to treat sicknesses illness like cancer.

E-Posters on

"Impact of Science and Technology on Mankind"
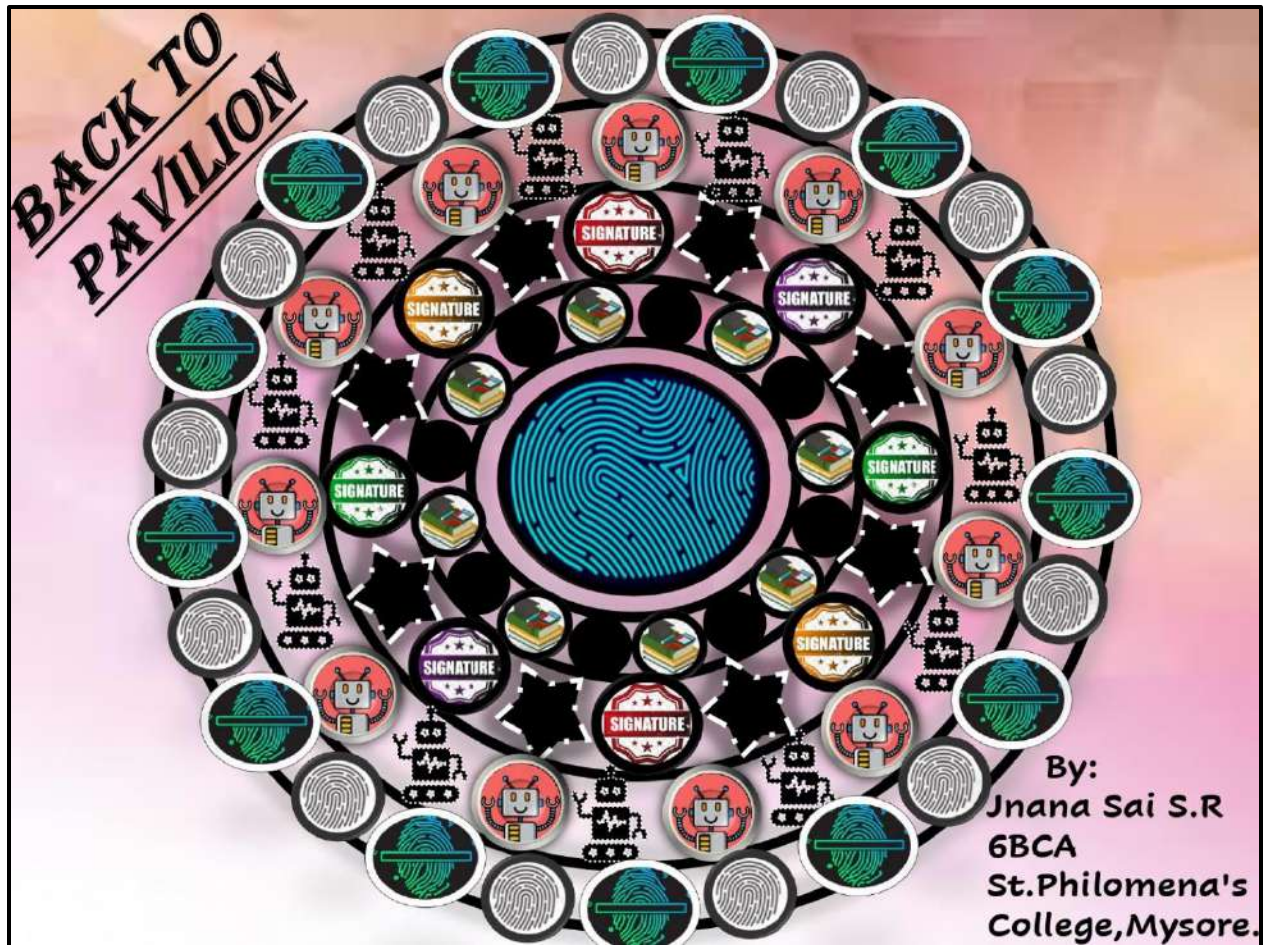
Jnana Sai S.R.
III BCA
St. Philomena's College
Mysuru
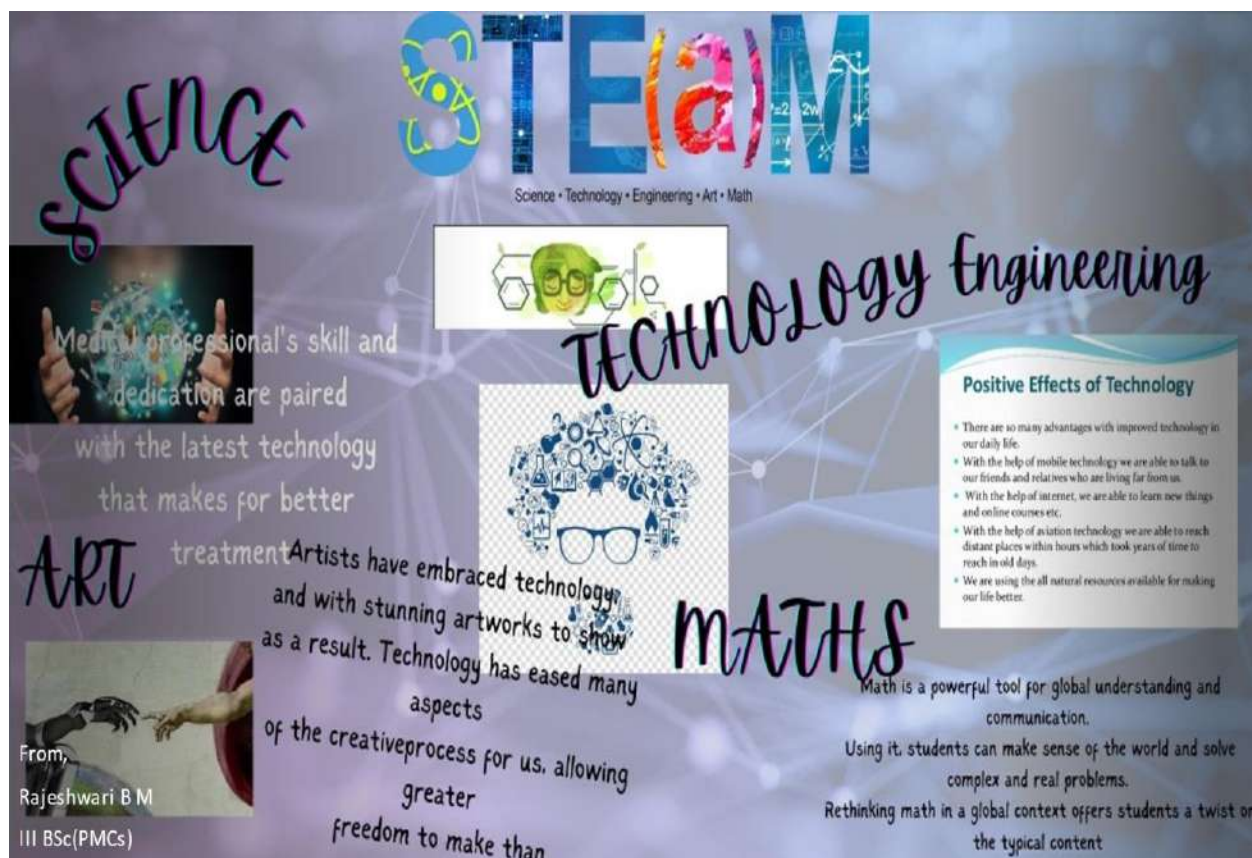
Rajeshwari B M
III BSc (PMCs)
MMK &SDM Mahila Maha Vidyalaya
Mysuru women

Memery on

"Impact of Science and Technology on Mankind"

People : AI will take over the world and destroy humans!!
Meanwhile AI :

	A	B
1	JAN	January
2	FEB	Febuary
3	MAR	Maruary
4	APR	Apruary
5	MAY	Mayuary
6	JUN	Junuary
7	JUL	Juluary
8		

Scientists be like :

Years of academy training wasted!

Artificial intelligence be like:

SOMETIMES MY GENIUS...
IT'S ALMOST FRIGHTENING

People who believe AI will take over the world :

[perspiration intensifies]

Hema Shastri
II BSc Psychology
JSS AHER
Mysuru
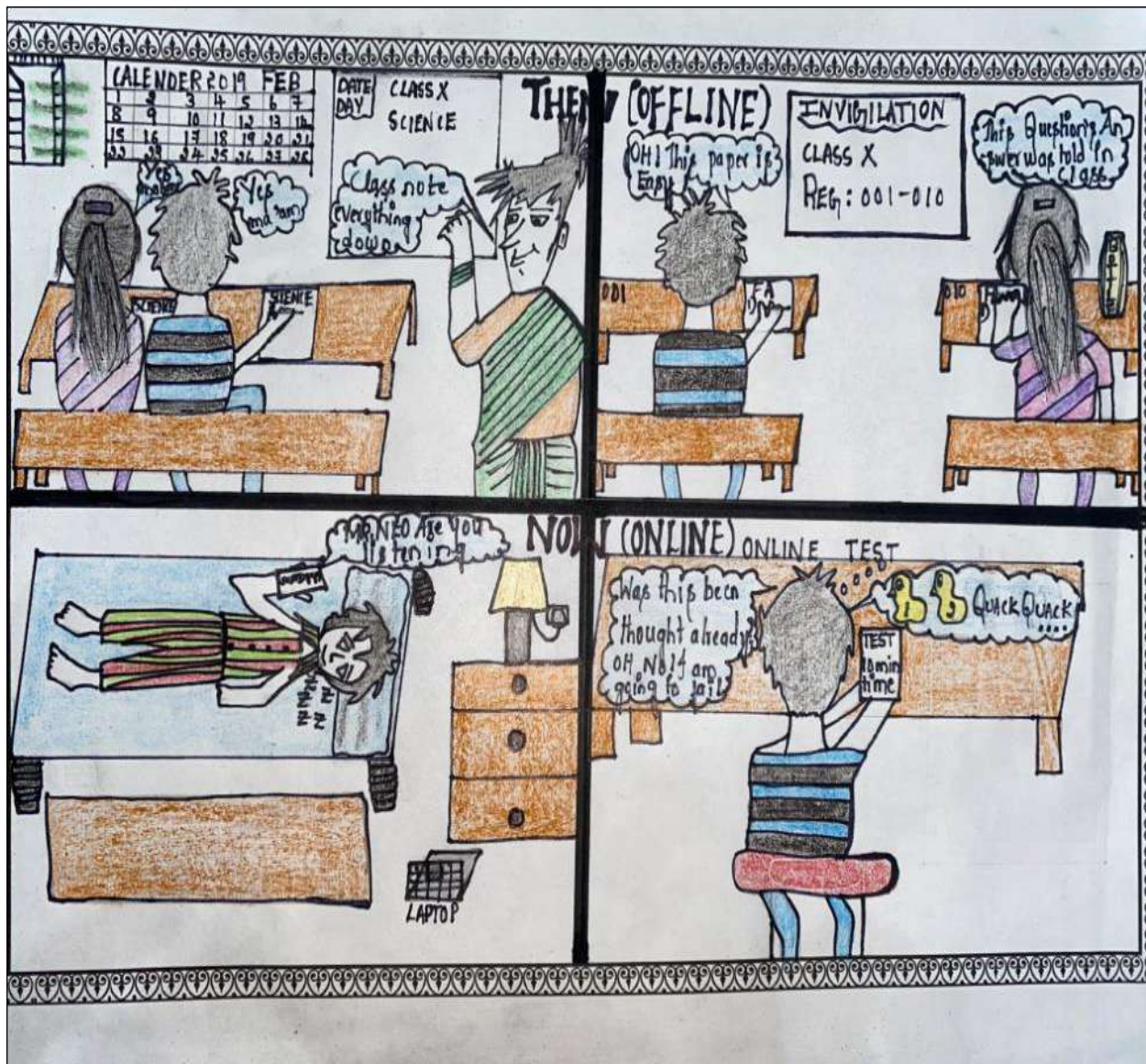
Meghana Naganna and Mahimashree,
III BSc BMBt
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Mysuru
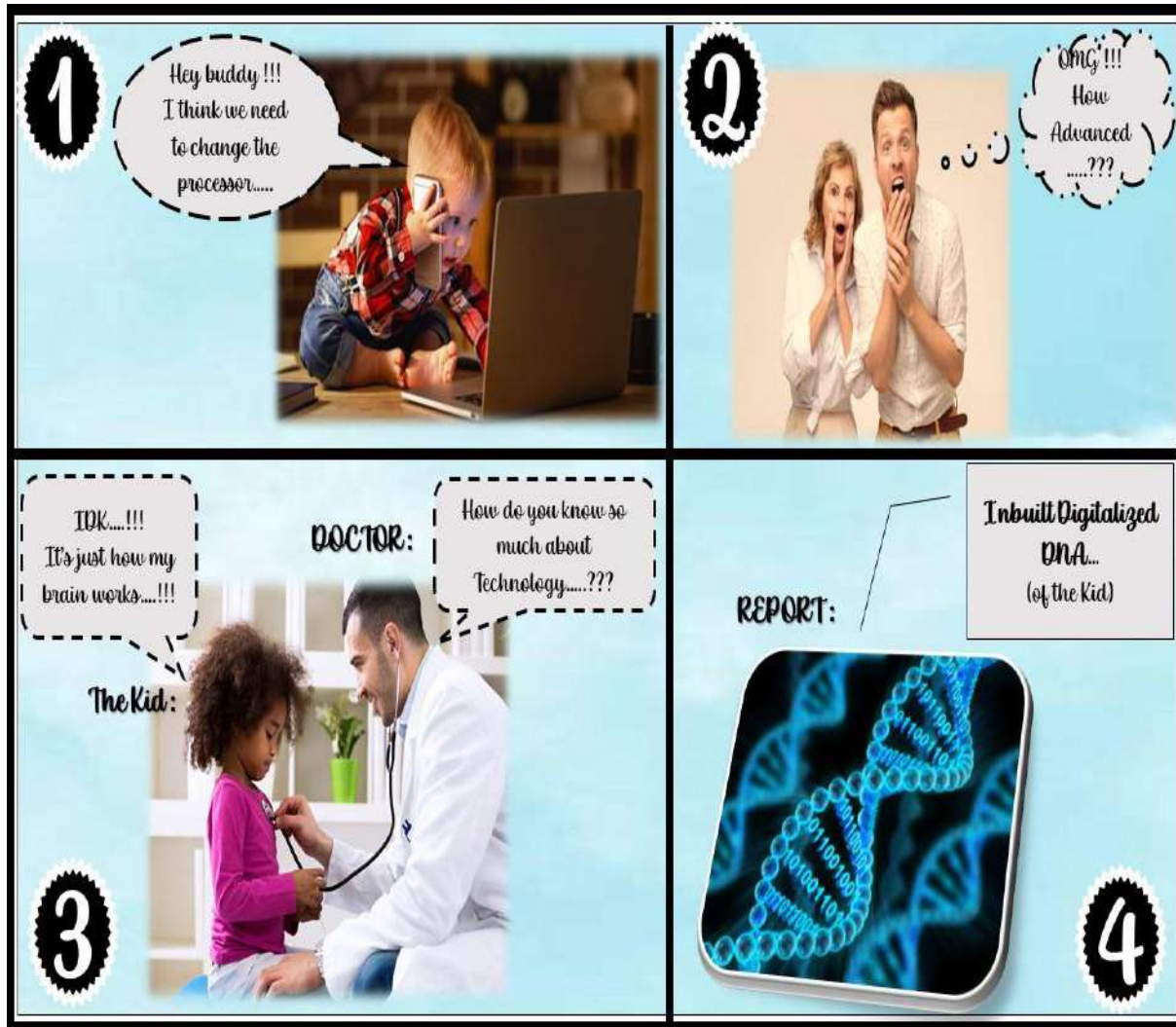
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Project Presentation on

"Integrating Science and Technology for Nation Building in Health, Agriculture, Food and Environment Sectors"

BACTERIAL ANALYSIS OF STREET FOOD

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University College of Science Tumkur.

ABSTRACT

Food borne diseases encompass a wide spectrum of illness caused by the ingestion of contaminated food. Contaminated street food is often claimed to occur food borne diseases. Therefore, in concern with public health issue, this study was undertaken to assess the microbial contamination of different types of street food available from local vendors. The qualitative microbial tests were done by dilution plate technique. Identification of particular group of bacteria or species was performed using gram staining nature and biochemical test respectively. The mesophilic microorganism such as *Enterobacter, Escherichia coli, Staphylococcus, Bacillus cereus* and *Salmonella* spp. were also found. The study results here highlight a discreet microbiological quality of street food underlining the importance of hygienic-sanitary surveillance of this type of food.

Keywords: food borne diseases, street foods, mesophilic microorganism.

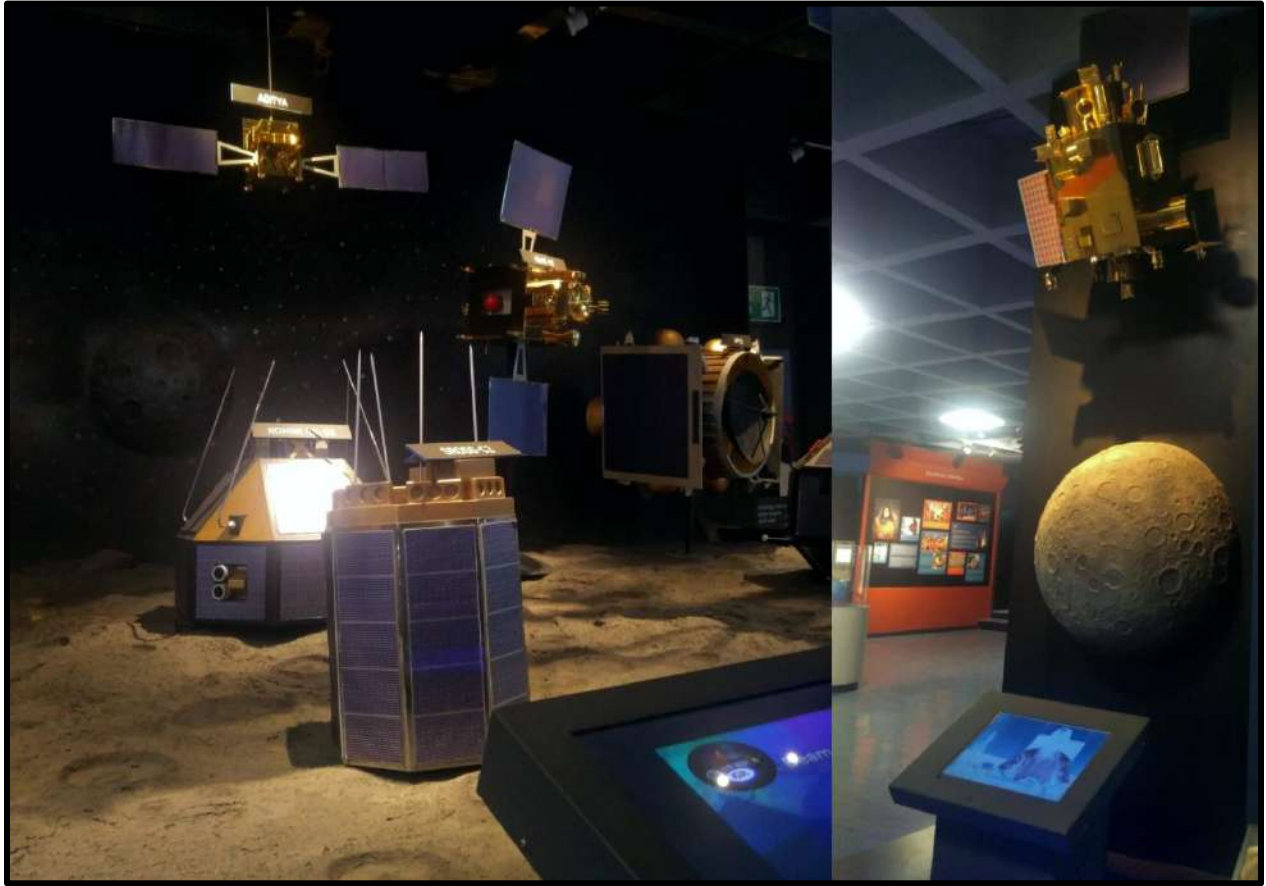# INTEGRATING SCIENCE AND TECHNOLOGY IN AGRICULTURE

Sonika.T.R and Ashwini. A,
Maharani's Science College for Women, Mysore

- Agriculture is the back bone of India.

- Indian agriculture has begun 9000BC.

- 58%of people have depended on agriculture

- India has highest net crop area

- Global economic super power.

Photography on

"**Technology has been a boon or bane to mankind**"

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Essays on

Impact of Science and Technology to Mankind

MAN WITH SCITECH (*IN PURSUIT OF RE-THINKING)*

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 The science of today is the technology of tomorrow. The current advancement in technology has made a growth in e- business and increased popularity of internet. Over the years, technology has revolutionized our world and daily life. Science and technology made everything fun and easier. It puts every minute information at our fingertips.

In recent times, technology have changed the world upside down. The onset of global pandemic witnessed it all. One of the biggest challenges faced during pandemic other than impact on India's economy due to lockdown and getting vaccination was faced by students. The efficiency to adopt and improve learning methods have become more indespendible than ever. Learning never ended. Though continuous learning gained relevance in the back drop of technologies that came into existence just a decade ago, it is obligatory for new technologies to evolve and play a major role in nations growth. Those online classes, the uncertainty of their future doomed students. Distanced learning had loosen the connectivity and interaction between student and teacher. Along with it, the availability of new technologies said as machine learning, artificial intelligence, Robotics cloud computing had a tremendous change in education system. Chalk   and Blackboard have been replaced styluses and smart board.

Fig 1. Drones which identify the disease of a plant

Not only in education system many other fields have been developed including banks, markets, transport system etc. Part of them are e-commerce, neobanking or net banking, wireless chargers, VR gaming, interacting gadgets such as Siri, Alexa and Digital textbook, drones, LED streetlights etc.

By all these life of humans as become way too simple without any complications. These technologies have paved the way for multi-functional devices. Today solar panels are built, which use sunlight to generate electricity. In California over 5000 miles solar finals are built. There's been a first electric race

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boat made in Italy and in our Mysore green transport were initiated by CESC. There's ain't a problem that technology can't solve. From preserving parchment to re-storing old monuments technology is used. The best example was digitization of OSI'S rare manuscript event that took place in Mysore, where about 70,000 manuscripts that dated back to more than 700 years in all language were conserved. We have reached out to moon, Mars using satellite and rocket. Now we aim to harness the versatility, nutritive value and texture to transform food. Our vision of food system is based on principles of going vegan, making it a fordable, natural and sustainable. There has been many techniques involved to improve the food system those are road farming home farming and so on.

Fig 2. Rooftop gardening

As a result it is happy to note that highly competent technologies and science behind it as met the ever changing challenges in the era of Globalization. But what shouldn't be happening is the negative impact of technologies on Mother Nature. We can't blindly ignore its effect on Environment.

In the mindset of innovating things, the consequences of unexpected outcome are neglected. Tech effect the human brain, increases isolation, obesity, lack of sleep, leads to depression, job insecurity. decreases communication and intimacy. It also has increased unlawful acts such as terrorism, hacking of data, theft of power, cyber crimes etc. The influence of tech on students as made them difficult to focus on their tasks, reduced their social interaction, decreased solving ability, creativity in them.

It's not that we use technology We live technology, can't help it now. But we have to come to our conscious before technology replaces human. The world as we have created, it is the process of our thinking, it cannot be changed without changing our mind. So, it's hard to stand by, whether the improvement in science and technology has benefited or not. Give a thought.

IMPACT OF SCIENCE AND TECHNOLOGY TO MANKIND

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Technology even with its best advantages has negative implications on human health, both physical and mental. We are aware of people facing depression, anxiety, fatigue, tiredness, eyestrain, due to over usage of technology. However in this day and age, the technology is further causing the sleep disorder called "SOMNABULISM" a condition known as "SLEEPWALKING". An unusual behavior, where a person gets up and walks around while in state of sleep. They undergo a NREM (Non-Rapid Eye Movement) sleep, in which condition, they do not see the same way they do when they are awake, they appear to be awake but actually are still sleeping with their eye open.

There have been cases of sleepwalking like, jumping off a roof top, getting hit by a vehicle, or climbing a tall structure etc. These issues are mainly caused by the overuse of technology, and the dependency on wide varieties of applications like gadgets, social media, online education software's etc. These primarily affect the lifestyle and sleep cycle of adults, as most of them are deliberately adhered to, over-night gaming, sleep texting, watching movies, browsing, or work over dues.

Per a study by THE NATIONAL SLEEP FOUNDATION, 15% of adults who experienced sleepwalking did activities like, walking, driving, dressing, cooking, peeing in the wardrobe, climbing out of window, while in the state of sleep. While this disorder was common among children due to inheritances or extreme fatigue during the 80's & 90's. However, this has changed, with over 10 million cases reported in India recently among teenagers and adults due to overuse of technical gadgets.

The main reason being, the brightness of these gadgets, which prevent the release of sleep hormone called "Melatonin" which promotes the illness "INSOMNIA"- an inability to sleep adequately, which leads to circulatory, brain disorders, respiratory disorders such as "APNEA", and mental disorders. These may lead to major impact on the personality, low self esteem, emotional imbalance, anxiety etc. These also lead to physical issues like, eye strain, fatigue and tiredness which contribute to "NACROLEPSY" - the loss of neurons in the region of Hypothalamus that specialize in the production of hormone known as Hypocretin or Orexin.

The radiation & magnetic field exposure emitted from gadgets causes headache & interrupts sleep patterns, promotes stress on both physical and mental health.

So, we must choose to use the technology limitedly and with caution. Like, avoiding continuous use of gadgets, usage of gadgets in darkness, sleep texting, and using anti-glare glasses, exercising, comfortable chairs and natural environment, etc. It is necessary to take a break, have a good rest to help maintain both our mental and physical health. Thus technology, while benefiting, also has its negative implications on mankind.

IMPACT OF SCIENCE AND TECHNOLOGY ON MANKIND

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Numerous powerful technologies are developed within the current global situation to help people in their homes and offices. Mobile phones the Internet pave way for faster and easier communication. New technology has a control on our daily lives in every field, including automobiles, cell phones, computers, networks, and power. Indeed, advances in new technology have always had a major impact on humans. However, new information technology is becoming more complex, with cloud computing, new security methods, and encoding. It's a well known indisputable fact that new information technology benefits not only programmers, database managers, hardware engineers, and network analysts, but also the typical user. Within the 1940s and 1950s, new information technology was developed to enhance military and university operations.

Children have benefited from the introduction of the internet and cell phones. To the older generation, this new technology is novel and unprecedented in their lives. New science and technology provide breakthroughs in our lifetimes and the lifetimes of children that will have a significant impact on the world in which we live. It is hoped that scientific advancements and technological advances in medical science will lead to the cure of cancer, HIV/AIDS, and other life-threatening diseases. From clinical trials for pharmaceuticals to robotics for complex surgery, new medical technology is constantly being developed.

New science and technology can also sooner or later result in mainstream alternative fuel vehicles, civilian spacefaring, video game conferences, a world network of private wireless electronics, data transmission at the speed of thought, global warming reversal, and much too many other innovations to list. The foremost recent computing research isn't just limited to medical, business, gadget, IT, space, and educational fields. However, it'll end in improved health, increased knowledge, and increased power.

Scientific studies have shown that India has made significant advances in science and technology. The country has developed innovative methods, products, and higher-quality goods. India has made rapid progress in cutting-edge science and technology fields such as space research and atomic energy. There is a need to plan and organise in such a way that intellectuals can be channelled in the right direction and given the right opportunities. Science and technology are effective tools for progress and change. It is being integrated into the mainstream of economic planning in agriculture, industry, and services. During the post-independence period, India has made unprecedented progress in the fields of scientific research and technology, and there are numerous opportunities. The country's resources are used to maximise output for the benefit of humanity and the improvement of life quality.

To summarise, science and technology are important threads in global society that enable people to live better lives. Communication systems, astronomy, semiconductor devices, automobiles, and everyday electronic devices, bio-electronic devices, building and architectural design techniques, and computers have all seen significant advances in technological advancement.

IMPACT OF SCIENCE AND TECHNOLOGY ON MANKIND

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Today's world begins with the word '**Science & Technology**' since we are born till our death we are dependent on these terms. Each day starts with jogging, yoga, meditation, and gym where we use smartwatches to track distance covered, calories burnt, heartbeat, stress level, and the result of an intense workout. We come across various **household gadgets, toys, television, laptops, mobiles, iPods, smartwatches, robots, home theatres, air conditioners, fans, cars, motorbikes, heavy trucks, and bicycles** all are essential parts of our living without this utilization our life is incomplete.

Science has grown beyond one imagination. It is growing drastically and there is no such disease that our scientists and doctors can't cure. There is a demand for **Nutritionists** for a **personalized dietary supplement chart** that contains carbohydrates, proteins, fats, minerals, and vitamins in one column and quantity per day in another column depending on individual lifestyle. Our **research and development** are coming up with new research project and ideas.

As we move towards a greener society, **Biotechnology** is the leading force to help us solve problems that we, as humans, were responsible for creating. The major advantages are **improve health and life span, increases crop production, improves agriculture and food sectors where tougher strains of crops can be grown to make them protected from disease.** Over the last century, the number and range of biotechnologies have rapidly increased. From the discovery of the structure of **DNA** in **1953**, leading to numerous applications, includes **animal breeding, fermentation technology, medical diagnosis, recombinant DNA technology, proteomics and genomics, medical diagnosis, bioinformatics, bio-energy, bio-fuels and genetically modified transgenic animals and plants.**

Nowadays we are using **Technology** in different parts of our lives. It is the core strength of our nation. The role of technology in **war increased dramatically because of the nuclear weapons, bio-warfare and bio-weapons, poison gas, and the tank, missile, portable machine gun, submarines, and hand grenade.** It has made **education easy** and today we have multiple options to clear our doubts, ask questions or have a live interaction with teachers. It has became fully integrated into our lives; we live more fully in a **digital world**. It begins to connect us around **the globe**. Advancement in technology has **increased automation of manufacturing, convenience in travelling, innovation and creativity, easy flow of information, improved customer & business relationship, improved Human Resources Management, and easy access to medical care & service**. Overall it is **improving the quality of life.**

Though we welcome these blessings of Science and technology, we have to consider the darker side of the picture. **Machines have led to unemployment, loss of social skills, increased laziness, health risks, world destruction weapons, high maintenance costs, violation of business ethics, etc.** No, technology hasn't done more harm than good, there's no doubt that technology has many side effects but just imagine what our society would have looked like if Technological advancements wouldn't have place. **"Rightly used science can bring heaven on earth." "Technology is a Good Servant but a Bad Master."**

IMPACT OF SCIENCE AND TECHNOLOGY TO MANKIND

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Margaret Beckett has quoted a stating "Humankind has the science and technology to destroy itself or to provide prosperity for all. But while science offers us these opportunities, science will not make that choice for us. Only the moral power of a world acting as a community can". Any person who believes in both the positive and negative impact of science and technology can attest to this.

While science and technology is an interdisciplinary topic, even though it is based on facts, they will always be incorporated with multiple perspectives and different opinions. In the present global situation, nobody can deny the fact that the world is reliant on science and technology. From the alarm that wakes us up to the switching of light is all based on applied sciences. From the beginning to the end of our day we use technology. It helps people to communicate, learn and explore. It has enhanced the quality of life and has raised economic growth.

Undoubtedly technology has changed the way we live our lives. But has it made our future easier or more complicated is a thought that still has to be untangled. In today's time, science is no more just about life, it has become a lifestyle. People not only want to expand their scientific knowledge but also use it as a tool to live a better life. Whether it is about dealing with illness or about innovations, science has always backed us. It has helped humans to create and evolve. Vaccines, genetically modified crops, medical therapies, and satellites can be good examples of this.

While everybody appreciates the positive impact of science and technology, its negative impact is unhidden. Fake news, mental disorders, pollution, and degradation of natural habitats are some examples of this. Doubtlessly it has influenced both physical and mental wellbeing. It has swayed Human relationships as well. Especially after the pandemic, the dichotomy between the boon and bane of science and technology has expanded. Covid 19 pandemic has pivoted science and technology to a more diversified region. It has led to a lot of innovations and improvements in the research field. At the same time, it has caused a devastating global economic crisis. As we realize, we understand the overuse of technology can be dangerous while using it productively can give us the desired result.

In conclusion, Science and technology have a major effect on globalization and civilization. While technology has been an unconditional supportive tool in people's lives, science has been a blessing to the universe. Even after exploring a lot of answers in this scientific world, what science and technology hold for our future is still some sort of an enigma. The impact of science and technology on mankind is partially beneficial and partially detrimental.

IMPACT OF SCIENCE AND TECHNOLOGY TO MANKIND

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"Science and Technology" are the two small words yet, they contain the whole world and mankind in them. 'Science and Technology' most of the time go together and their impact on mankind has been in such a way that we humans have started to be a part of these technologies. Starting from a small toothbrush till a huge spacecraft technology has almost invaded the mankind. Human intelligence has given rise to these technologies and science has been developed in a huge way. These can have both positive and negative impacts on humans.

When I asked my grandparents about their lifestyles in 70s and 80s and compared it to the present I got a visualization of how science has impacted on mankind. If we view at a basic level, improvements in production of electricity have helped us to be more productive. We get water supply directly to our place which has reduced the work, time and energy to get water. Technology in agriculture like agricultural robots and drones are capable of assisting farmers and help them focus more on yield.

Invention of computers led to a new era. Computers brought people closer and facilitated contacts between them using email, chatting, video conference and social media. It has changed the way people related to one another and their living environment. As well as how humans organize their work, their communities and their time. Phone and gadgets makes us feel the whole world is just on the tip of our hands. Technologies in transportation sector like autonomous rail rapid transit, hover bike, maglev train, vactrain, self-driving cars have reduced time, work and energy just for movement and have helped people to keep up with the fast moving world. Above all these, we focus more on improving or health which is easier from science and technology. Body implants, prosthetics, DNA and mRNA vaccinations, organ transplantation, Nano medicine and other technologies have totally changed our health positively.

With positivity the negativity of technology has increased. Children are being addicted to cell phones which could affect their health adversely. Humans are being replaced by machines. Yet the positivity of technology has covered the negativity of it. Bullock carts have turned into cars and cars have turned into flying cars. We used to say our future is flying cars and now we already have them. We will have other technologies shortly which we think it is the future. The way we humans live is changing every day. Each day we come across new technology science and development. Technology has to be a part of our life and not the whole of our life. But the future is becoming present and technology is engulfing u

IMPACT OF SCIENCE AND TECHNOLOGY TO MANKIND

Ekshu Sai

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"The science of today is the technology of tomorrow" – Edward Teller.

We live in a generation where everything is at a rocket speed growth of technology. From having control of everything at the tip of our fingers to managing the world with the knowledge of science, our present and future are sustained thanks to technology. But the actual question arises here, does technology still have an adverse effect on mankind?

There maybe two outcomes to the above question. One, even though technology hasn't yet taken over the whole world, but has a vital role in influencing the society. Our day to day slightest tasks are reliant on technology which leads them to lose their dependency. In support to the above sentence, how often do we visit the library to read books? Over the time, we have become so dependent on our phones that we intend to search even the smallest information from it and disregard the hand written information, or how we click snaps of food every time before eating rather than enjoying that present moment. The list goes on, from infants to aged people's, technology has a control over their lives in all manner of ways.

On the contrary, without the potential progress in science and technology, the evolution of mankind wouldn't have been possible. Taking a look at the history of India and its association with science and technology, starting from the year 1965, the slogan "Jai Jawan, Jai Kisan" by our Prime Minister Late Shri Lal Bahadur Shastri was uncertain that scientific developments wouldn't help the nation progress. Later in the year 1998, the then Prime Minister of India, Shri Atal Bihari Vajpayee, also added "Jai Jawan, Jai Kisan, Jai Vigyan", expressing his support for the equal importance of science and also as a significant part in the development of the nation and assists in having a good global position. And lastly, our current Prime Minister, Shri Narender Modi, initiated the slogan "Make in India", which focused on creating jobs with the help of science and technology. The proper skill would help people in employment and improve the economic growth of the nation. Also, not only does it improves economic growth it does also improves the development of the country. Since years India has been depended on other countries in the field of science. Now its emerging as a self-reliant nation with "Made in India" products and services on a global network with the help of science and technology.

 In conclusion, science and technology has left its marks in every aspect of human life. The footprints of science and technology has spread from transportation to education to medical field to agriculture and many more. With technology life is easier, but with each gain there is always a chance of loss. It can never be controlled but can be managed with proper balance.

Essays on

"Rebooting the Economy through Science, Technology and Research Translations (RESTART)"

REBOOTING THE ECONOMY THROUGH SCIENCE, TECHNOLOGY, AND RESEARCH TRANSLATIONS (RESTART)

Arpitha Somayaji
Research Scholar, Jain (Deemed to be University), Bangalore.

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Research, science, technology, and innovation play an important role in economic performance. Changes in the innovation process can be connected to the increased role of innovation and technological change. Improved labor force capacities and the generation of new knowledge and technology are regarded to aid national economic development when scientific activity is increased. Technology is widely acknowledged as the primary source of economic growth. Technological advancement enables more efficient production of better goods and services. It's difficult to translate scientific and technological discoveries into new products. In recent years, the Indian government has established a National Innovation Council and declared a Decade of Innovation.

Technology influences every aspect of economic activity in one way or another, as follows:

1. **Research and development**- To overcome the current difficulty, research must be brought closer to the industry. Research and development must be more in-depth, relevant, quick, and influential, as well as tightly linked to the industry. Scientific development in the modern era was also reliant on the tools available to researchers. For example, the germ theory, undoubtedly one of the greatest medical breakthroughs of all time, was made feasible by a combination of enhanced microscopy and better lab techniques. Fast computing and laser technology are two formidable scientific tools that have recently become available and constitute complete breaks from the past. Machine-learning algorithms are used by powerful computers to detect patterns that human minds could not have imagined.

2. **Self-reliance**- Self-reliance must become the new slogan to lessen the widespread economic impact of the current crisis and prepare for a stronger recovery. It is necessary to reduce reliance on imports and for the Indian industry to play a significant role in the global supply chain. Domestic enterprises must be encouraged to produce crucial elements, known as fermentation-based APIs.

3. **New age technology-** The fifth generation of mobile network communication technology, or 5G, promises high-value social and commercial applications, ushering in a "hyper-connected society" in which technology will play an even larger part in people's lives.

4. **The emergence of new services and industries**- Numerous government services are now accessible via the internet and mobile phones. One of the most important modernization trends is cloud computing. Novel materials, such as special-purpose metals, engineering polymers & blends, graphene, composites, and others, will be crucial in the future revamping of the industry's product lines. These materials will be the foundations for cutting-edge technological solutions to complicated functional issues. Today's world is evolving toward mass customization and mass specialization, and technology such as 3-D printing is playing an important role.

In conclusion, Science and technology policy is undergoing significant changes, and a broader understanding of science, technology, and innovation policies would be extremely beneficial. Access, inclusion, and equity are ethical values that can be utilized to evaluate policy achievements. In the Indian context, this makes more sense because it connects societal development with science and technology policy. It also reflects current thinking on inclusive and sustainable growth.

REBOOTING ECONOMY THROUGH SCIENCE, TECHNOLOGY AND RESEARCH TRANSLATIONS (RESTART)

Harshitha Mallik, Research Scholar, University of Mysore
MMK & SDM Mahila Maha Vidyalaya

Introduction

"Every sunset is an opportunity to reset". **Modern India has had a strong focus on science and technology, realising that it is a key element for economic growth**.

The formula of 4Ts needs to be strictly adhered to for the opening up of the economy, that is, **Testing, Tagging, Tracing, and Tracking.** The entire spectrum of economic activities one way or another is dependent on technology.

Rebooting Economy

Self-reliance: In order to mitigate the widespread economic impact due to the present crisis and to prepare for a stronger recovery, **self-reliance** has to be the new mantra.

- There is a need to minimize the dependence on imports and the Indian industry to play a major role in the global supply chain, encourage domestic firms to make fermentation based APIs.
- The Indian pharmaceutical industry is the world's third-largest drug producer by volume and the country's market manufactures 60 percent of vaccines globally, industries are dependent on ingredients for antibiotics and vitamins. Promotion, plays a major role.

Research and Development

Research needs to be brought closer to the Industry in overcoming the present challenge. The pandemic is a great opportunity for R&D and needs to be used for strengthening it.

- The Covid-19 crisis has unfolded some of the best medical advancements and innovations in history like **drug discovery, vaccines, and diagnostic tools, and other medical devices,** as well as ways to preserve electronic health records.
- Plausible translations, prototyping, start-ups, and Industry have seen immense growth, readymade solutions are not available.

Industries and Advanced Materials:

The novel materials such as special-purpose alloys, engineering polymers & blends, graphene, composites, etc. will be the key to revamping the industry's product lines in the future.
Investment in such knowledge-based value-added materials will go a long way in accelerating the economic activities and ensuring an attractive return for the industry.

Digital transformation in Manufacturing:

The manufacturing companies are undergoing digital transformation due to the Covid-19 pandemic.

- The world is moving towards **mass customization and mass specialization** today, and technology (3-D printing) plays).
- Artificial intelligence , machine learning , the Internet of Things , and robotic process automation are among the technologies that will make **Industrial Revolution 4.0.**
- The **fifth generation of mobile network** communication technology or 5G holds the promise of applications with high social and economic value, leading to a 'hyper-connected society' in which technology will play an even more important role in people's lives.
- **5G will also add a new dimension to the missions like Digital India and Smart Cities.**, through 5G Test Bed at IIT Chennai.

Conclusion

Covid-19 is here to stay for a longer duration, this means that we need to develop long-term mechanisms to sustain our efforts of social distancing and ensuring that crowding does not occur at any place, **Policy Initiative,** Collaboration and cooperation between industry and academia are most important in this period, **Relook FDI policy** are some of the major things that has to be concentrated for the connectivity.
In today's scenario, virtual collaboration is the key to connect globally to fight against the common challenge of Covid-19, and collaboration between countries must continue with much vigour.

Award Winners

Name of the Competition	Name of the awardee	Award
E-Poster	Jnana Sai, III BCA, St. Philomena's College, Mysuru	I Prize
Memery	Meghana N and Mahimashree III BSc. BMBt, MMK & SDM Mahila Maha Vidyalaya, Mysuru	I Prize
	Jnana Sai, III BCA	II Prize
Model Making	Mohammed Moinulla Shariff and Syed Abu Anas III BCA	I Prize
	Shafin Khanum and Nachiketh.M	II Prize
Project	Milleny N Y, Bindushree S and Nagashree K S	I Place
	Faizan shariff, Hiba hurain and Tarannum fathima	II Place
Essay on Impact of Science and Technology to Mankind	Rajalakshmi M, III BSc BMBt, MMK & SDM Mahila Maha Vidyalaya, Mysuru	I Prize
	Amrutha V, 2nd BSc. PMCs, MMK & SDM Mahila Maha Vidyalaya, Mysuru	II Prize
	Hema Shastri BSc. Psychology JSS Academy of Higher Education and Reseacrh, Mysire	Potential of Escellence
Essay on Rebooting the Economy through Science, Technology and Research Translations (RESTART)	Arpitha Somayaji, Research Scholar, Jain (Deemed to be University), Bangalore.	I Prize
Photography	Lavanya N, I Year BSc, SBRR Mahajana First Grade College, Mysuru	I Prize
		II Prize

Photo Gallery

Inauguration of ITECHNARY by inaugurator Prof. Gnana Prakash, Registrar (Evaluation), University of Mysore, Mysuru
(Left to Right: Smt. Sukrutha KS, Dr. Dharma Prasad M, Prof. Gnana Prakash, Prof. Sainath Malligemadu, Prof. Bharathi N and Dr. Wethroe Kapfo)

Inaugurator's Address   **Chief Guest's Address**   **Presidential Remarks**

Inauguration of Valedictory Function by Dr. Arunkumar G.S, Scientist C, Central Sericulture Research and Training Institute, Mysore
(Left to Right: Smt. Sukrutha KS, Dr. Arunkumar G.S, Prof. Sainath Malliegmadu, Prof. Bharathi N, Dr. Wethroe Kapfo, Ms. Ifra)

Chief Guest Address   **Address by Guest of Honor, Dr. Steffi P.F**

Releasing Proceedings of ITECHANRY 2022- Journey of technology in shaping civilization

Award Ceremony

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Smt. Harshitha, Alumni of the college (Batch of 2017-2018)

Alumni of the college, Batch of 2018- 2019