

A Report on National Symposium on Futuristic Technologies 2019



Date: 3rd & 4th October

Organized by BVM Engineering College

Venue: BVM Auditorium

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ACKNOWLEDGMENT

This Symposium was impossible for us without the efforts and valuable inputs of our college and faculties. We extend our great acknowledgment and appreciation to the following persons for their inputs that were very significant in making this event possible:

The first and the most acknowledged persons are **Dr. Jagdish Rathod, Dr. Darshan Dalwadi & Dr. Mukesh Shimpi** who were the Convener, Organizing Secretary & Event Coordinator respectively of National Symposium on Futuristic Technologies 2019. They were very helpful to us from planning to execution of the program. They have inspired us to arrange such kind of events for the better future of everyone.

They gave us many opportunities for organizing the Symposium by their professional and academic guidance, fairness and responsiveness to queries which makes them a role model for us. Therefore, we are extending our gratitude to them. We also acknowledge Dr. Indrajit Patel (Principal, BVM Engineering College) who has been very faithful to us, he was always ready for solving problems related to the Symposium and constantly supported us. We thank everyone who have directly and indirectly been a part of NSFT'19 for their valuable collaborations.

Lastly, we thank all the delegates and the hardworking team of NSFT'19 for sparing their valuable time for the symposium and making it a huge success. We also thank all the sponsors who have partnered with team NSFT BVM and made this event a huge success.

The Objective of National Symposium on Futuristic Technologies 2019

The symposium's theme was on delivering advanced knowledge for the futuristic technologies in the domain of Cyber and Information Security, Cloud Computing, Information Technology, Internet of Things, Space Technologies, Machine Learning, Smart Villages, etc. to improvise and cultivate futuristic technologies for both delegates and academic professionals. This symposium focused on the theme "**Challenges and Opportunities in the Future Technologies**" in different domains. The speakers who have an illustrious career and experience in their respective fields of knowledge delivered the talk at our program. As India is advancing in technology day by day, their expertise helped our student delegates to understand the scenario from firsthand experience. Delegates and academic professionals who are in diverse fields of engineering came to know about the challenges and opportunities for the same.

Outcome of the Symposium for Delegates: The delegates gained knowledge in the various Futuristic Technologies.

The Event had a total of **400+ delegates** from all over the country which includes Students, Academic Professionals & Industry Experts.

The Symposium hosted a total of **8 Distinguished** speakers who shared their wonderful views and experience in their domains with everyone.

DAY 1 (3rd October): National Symposium on Futuristic Technologies 2019

The Day 1 of National Symposium on Futuristic Technologies 2019 was full of enthusiasm and joy for all the delegates as well as the organizing team of NSFT'19. The delegates had informative and wonderful interactions with our distinguished speakers on that day.

The Day 1 included the following Events:

1. Inauguration Ceremony of the National Symposium on Futuristic Technology 2019.
2. Inauguration Ceremony of ELARC Lab of Birla Vishvakarma Mahavidyalaya Engineering College.
3. Session on Electrifying Vehicles.
4. Session on Remote Sensing and Space Technologies.
5. Session on Smart Home Solutions.
6. Session on Spacifying the Internet.

Inauguration Ceremony of National Symposium on Futuristic Technologies 2019

The Inauguration Ceremony of the event commenced on October 3, at 10:00 AM with prayer and lightning the lamp. Dr. Indrajit Patel, Principal, BVM Engineering College, graced the ceremony and welcomed everyone to NSFT'19. He inspired the delegates with his motivational words and energetic approach. Er. Prayasvin Patel, CMD, Elecon Group of Companies as the Chief Guest of the function motivated the delegates with his enlightening thoughts. Er. Bhikhubhai Patel, Chairman, Charutar Vidya Mandal and the President of the opening ceremony of NSFT'19, gave his blessings to all the delegates and encouraged them towards building a brighter and prosperous future. The inauguration ceremony was concluded by Vote of Thanks.



Figure 1: Inauguration Ceremony



Figure 2: Inauguration Ceremony



Figure 3: Inauguration Ceremony, MoU signing between BVM Engineering College and Entuple Technologies Pvt. Ltd.

Inauguration Ceremony of ELARC Research Center of Electronics Department, Birla Vishvakarma Mahavidyalaya Engineering College

ELARC is a center of excellence that was developed by the ENTUPLE. The Lab is for Electromagnetics, Signal Processing, Antenna Design, Radio Frequency Designs. The Lab has various scopes for the students who are enthusiastic to research in these domains. This Lab is Inaugurated by Chief Guest Er. Prayasvin B Patel, Chairman of Charutar Vidya Mandal, Er. Bhikhubhai Patel, Chairman of Charutar Vidya Mandal and Dr. Shiv, Ex-ISRO.



Figure 4: Inauguration of ELARC

Session on Electrifying Vehicles

Mr. Nihar Raj is Vice President at ABB India Ltd, Business Head, Power Consulting, Asia Region. Mr. Raj is a senior management professional with rich experience in handling the business across the globe. He has delivered an informative, interactive and innovative Session on **Electrifying Vehicles**. He has inspired a lot of delegates to design Electric Vehicles and solved various doubts of the for the same.



Figure 5: Mr. Nihar Raj delivering a session on Electrifying Vehicles

Session on Remote Sensing and Space Technology

Dr. Shiv Mohan was the Keynote Speaker for National Symposium on Futuristic Technologies 2019. He is a Microwave Remote Sensing Specialist, EX-ISRO. He served ISRO for about thirty-three years (1978 - 2011) and evolved microwave remote sensing applications in India. He was the Principal Investigator of many International Announcements of opportunity research projects on microwave remote sensing from European Space Agency, NASA/DLR, Japanese Exploration Agency and Italian Space Agency. He delivered an informative session **on Remote Sensing & Space Technologies**. He explained the Remote sensing process in depth. So many space enthusiast delegates got more knowledge about the Remote Sensing & Various Space Technologies. Overall, it was a great informative session.



Figure 6: Dr. Shiv Mohan delivering Session on Remote Sensing & Space Technologies

Session on Smart Home Solutions

Ms. Namrata Doshi is the Creative Consultant for Architectural Design, Experience Design, Master Planning, Retail Interiors and VM. An industry expert and independent design consultant for architecture, interiors and experience design. Some consulting assignments involve builder projects, showroom designs, retail food outlet experience designs etc. Currently, as an experienced green building trainer, she helps companies train and build teams for green building technology. Client and individuals include known names like Apple, Bluestar, Siemens, Lodha Group, Blue Resorts and Spa, Infosys, TCS, etc. Ms. Doshi delivered an enlightening session on **Smart Home Solutions**. Though she is an architect, she has immense knowledge of sensors which makes the home smart. Many delegates got to know about various smart sensors and got their doubts cleared regarding those sensors. She also explained about various smart home devices and how they have an upper hand in our lives. The session spread awareness amongst the delegates about how the future is improving with such technologies.



Figure 7: Ms. Namrata Doshi delivering Session on Smart Home Solutions

Session on Spacifying The Internet

It was the last session of the day. Mr. Siddharth Rajhans is a United Nations Policy Officer. He is a Harvard educated first-generation technology entrepreneur, a Silicon Valley Technocrat, management researcher, TEDx and entrepreneurship speaker and Pioneer of the Outernet Technology in India and the Asia Pacific Region. His Startup “**Spacify**” which has been working to provide satellite-powered internet or “**Outernet**” in Singapore and parts of rural India as part of the Digital India initiative. This was the same project in which he received the patronage of the Former President of India Dr. APJ Abdul Kalam. He delivered an informative session on his startup and covered the journey throughout his life. He also shared his wonderful experience of various known companies like Facebook, Google, Apple. He indeed motivated the delegates to go for startups in the futuristic domains.



Figure 8: Mr. Siddharth Rajhans delivering Session on Spacifying The Internet

DAY 2 (4th October): National Symposium on Futuristic Technologies 2019

It was another exciting day of NSFT'19 where all the delegates were more excited and enthusiastic because the previous day. The entire day was divided into various sessions which were:

1. Session on Future With 5G.
2. Session on Cyber Threats & Future Landscape.
3. Session on Virtualizing Reality.
4. Session of Smart Villages to Smart Nation.
5. Closing Ceremony.

Session on Future with 5G

Mr. Subodh Gajare, Senior Architect, Cisco R&D Centre, Bangalore has over 25 years of experience in the IT and Telecom Industry. Core activities involve Platform Development, testing, validation, designing, operations and developing solutions across technologies. Currently, he is a Solution Architect for Cisco - Design and implements solutions for Service provider and Enterprise customers - based on SDN/NFV, IoT, Mobility (4G to 5G transformation), Security, Virtualization, Cloud, Designing s/w Orchestration platforms for end-to-end management of networks. He delivered his session on the **Future with 5G**. In this session, he explained the architecture of 5G as well as its future scope in various domains like Healthcare, IoT, Automobile Industry etc. According to delegates, it was the most interesting session of the day. All the delegates gained in-depth knowledge of 5G Technology.



Figure 9: Mr. Subodh Gajare Delivering the Session on Future With 5G

Session on Cyber Threat Landscapes and its Future Landscape

Lt. Col. Naresh Chaudhary is the Chairman and Managing Director of the Council of Information Security, Instructor at Military College of Telecommunication Engineering. He is an experienced chairperson with a demonstrated history of working in the nonprofit organization management industry. He is a strong business development professional from the Indian Military Academy. He delivered his session on **Cyber Threat Landscapes and its Future Challenges**. He spread awareness amongst all the delegates regarding cybercrimes happening all over the country and the kind of precautions that must be taken to avoid such situations. He also explained the case studies of various countries which suffered due to cybercrimes.



Figure 10: Lt. Col. Naresh Chaudhary Delivering Session on Cyber Threat Landscapes and its Future Challenges

Session on Virtualizing Reality

Mr. Vivek Sharma is the Founder and CEO of Kingster636 Games. He is also a Unity Expert and an AR/VR Specialist. He has a rich background of 3D data architecture and designing with a vast experience of working with Unity3d, Cocos2dx, Unreal Engine, Microsoft HoloLens, Goggle Tango, ARKit, ARCore. He has developed a lot of games for multiple platforms (Android, iOS, Tizen, Universal Windows, P.S, Xbox, etc). He delivered the session on Virtual Reality (VR) as well as Augmented Reality & Mixed Reality. He gave a hands-on experience of VR as well as AR by creating an AR-VR app using Unity to all the delegates. He also explained the wonderful startups associated with Augmented and Virtual Reality so that the delegates can create their own startups on AR & VR.



Figure 11: Mr. Vivek Sharma Delivering Session on Virtualizing Reality

Session on Smart Villages to Smart Nation

Mr. Ankur Borwankar is the Liaison Officer for Strategic Operations under the South Asia Working Group (IEEE Smart Village Community). He is a lawyer by profession and still is ever ready to help and solve the societal problems and helping them being named as Smart. He is currently associated with the work of ISV South Asia Working Group. He delivered his session on **Smart Villages to Smart Nation**. He made the delegates aware about the concepts of Smart Villages and made them enthusiastic for creating villages that will drive to make our nation smart.



Figure 12: Mr. Ankur Borwankar Delivering Session on Smart Villages to Smart Nation

Closing Ceremony:

After Completion of the Entire Symposium, the coordinators of this Symposium were appreciated for their work in NSFT'19 by giving them a memento. Finally, with great joy & pleasure, the event was concluded with picture of the NSFT'19 TEAM and the National Anthem.



Figure 13: Team of National Symposium on Futuristic Technologies 2019

Proud Sponsors of National Symposium on Futuristic Technologies 2019

