



Sardar Vallabhbhai National Institute Of Technology, Surat

NEWSLETTER

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Association for Harnessing Innovation and Entrepreneurship

In Association With:

Sardar Vallabhbhai National Institute of
Technology, Surat

Department of Science and Technology
(DST), NIDHI-TBI, Government of India.

Student Startup & Innovation Policy
(SSIP), Gujarat Government



**'Faith is of no evil in absence of strength.
Faith and strength, both are essential to
accomplish any great work.'**

Sardar Vallabhbhai Patel



Message from Director-SVNIT

Dr.S.R.Gandhi

I am indeed delighted to see the growth of ASHINE to promote entrepreneurial activity at SVNIT which will in turn result in commercialization of new technology concepts in different disciplines of Science and Technology. This was possible with active association of the Department of Science and Technology, Government of India to establish this Technology Business Incubator and with further support under the Students Start-up Initiative Policy of the Government of Gujarat to undertake pre-incubation activities for the apt students with innovative ideas.

The activities of ASHINE in terms of motivational talks, expert talks, hackathons, Panel discussions, etc. as you reveal from this newsletter have been organized to inculcate the drive to identify the most promising societal need which are of immediate applications and of practical relevance as well as easy for commercialization. Since inception, the growth in terms of Start-ups Groups developed, products developed and activities listed in the newsletter is encouraging. A new facility is under progress to house the Incubators and all related activities. With dedicated efforts of the faculty colleagues engaged and the staff recruited for this purpose, I have no doubt that ASHINE activities will soon have exponential growth. We at ASHINE always welcome your inputs and suggestions to achieve the goals for betterment of societal needs.



Message from Dean (R&C)

Dr.A.A.Shaikh

The journey of ASHINE initiated at SVNIT is going to be recognized soon at various levels through the efforts of intense team members. The focus on need based research will definitely contribute to surrounding industry and societal issues. The activities taken up recently in campus are drive for translation to innovative business from conventional one considering the need of futuristic products, which is needed for present youth.

The support rendered by funding agencies and SVNIT authority has become back born to grow entrepreneurship through inculcating smart activities. I am confident that support available through team members, experts and available technical infrastructure will encourage innovators to provide deliverables with remarkable height.



Message from Professor In-Charge (Research Park)

Dr.J.Banerjee

As India transits from a developing nation to a developed one, the scope for innovation will shift from the core technology sector to the social sector. Identifying our societal needs and providing economic solutions to them can bring parity in our society. Socio-economic challenges for the sub-urban and rural society of our nation are many. ASHINE has been initiated to identify such social issues and provide the talented young innovators of South Gujarat region opportunities to address them.

I am happy to witness the steady progress of this association. With the induction of a new CEO and Incubation Manager, I am sure of an exponential expansion in our activities in forthcoming months in terms of sensitizing students and using their ideas to provide the solution to socio-technological issues in our neighborhood.

ABOUT ASHINE

SVNIT Surat in association with the Department of Science and Technology (DST), Government of India, has established a NIDHI-TBI (Technology Business Incubator) named ASHINE (Association for Harnessing Innovation and Entrepreneurship). ASHINE which is a section 8 (not-for-profit) company aims to promote entrepreneurial activity on SVNIT campus and commercialization of R&D efforts across all disciplines of Engineering and Technology including Energy, Environment and Manufacturing. It also extensively undertakes pre-incubation activities for students under the SSIP policy of the Government of Gujarat. It also envisions developing incubation activities in other sectors in the coming years with support from various government/semi-government and private entities.

OUR VISION

To be an ecosystem for entrepreneurs to start a viable enterprise with global competence for sustainability and inclusive growth.

OUR MISSION

To facilitate entrepreneurship that blends creativity, innovation, product design, and engineering for employment creation and wealth generation.

OBJECTIVES



- To promote and support entrepreneurship and innovation and allied concepts across SVNIT, Surat, other institutes of National Importance as well as other technical institutes.
- To implement and handle operations and management of startup and innovation incubators.
- To develop, frame and implement policies to support startups.
- To extend the state of the art laboratories and other world-class incubation and pre-incubation facilities to startups, entrepreneurs and innovators.
- To support IPR awareness and registration activities.

OUR EVENTS



Motivational talk by Diamond Tycoon- Shri Govind Dholakia on “My Mantra on Social Development”

Shri Govind Dholakia-Chairman-SRK Exports Pvt.Ltd. is Diamond tycoon and a philanthropist who established India’s leading diamond manufacturing company with an annual turnover of more than US \$ 1.2 Billion. His journey is full of thrill and struggle as he started as a diamond cutter at the tender age of 13. He is the finest human being and an impeccable leader, the qualities which have made Shri Ramkrishana Exports Pvt.Ltd (SRK) one of the most ethical and valued organizations in India today.

Shri Dholakia is the only Indian to receive a prestigious leadership award from the U.S green building council. He is the regular speaker at IIM-Ahmedabad, IIT-Delhi & ISRO.

Expert talk by Prabir Bhattacharjee on “My Journey from job to Startup”

Mr. Prabir Bhattacharjee is SVNIT alumni from the Department of Mechanical engineering. He is a leading entrepreneur and is the founder of the corporate panda brand and is the owner/Partner at Triomphe Excellar, Bahrain and Hizo Fze, Dubai. He is also a black belt in lean six sigma and lead auditor ISO 9001, 14001, 18001.



Expert talk by Rachit Khator on “How to create a startup company”

Mr. Rachit Khator is SVNIT alumni and a founder of startup Stackby. At the event, he shared his experience as VC of a company and as the CEO of his own company.



HackDotSlash- Root To Ideas-1.0

OBJECTIVE

ASHINE, SVNIT Surat conducted a national level Hackathon DOTSLASH - Root to Ideas, a 30 hours long event with the aim to build a platform for Hackers or software developers around the world to use their innovative skills to create soft tools which are useful for the society. The main aim of the event is to promote innovation at the National level.

THEMES

- Smart City
- Healthcare
- E-Campus

EVENT OUTCOME

It was a productive event for participants as they kept themselves to work and honed their skills in the best possible way. The participants learned a lot in terms of teamwork, efficiency, and practicality of projects in the real world.

Some fine ideas based on the latest issues of healthcare, e-Campus, etc were delivered by the participants that can be promoted & implemented for the benefit of society. Work on various trending technologies like Machine Learning, Block-chain, etc was encouraged during the event that signified the importance of advanced technologies.

DETAILS OF BENEFICIARY

The 134 students participated (total 38 teams) from 19 colleges across the nation. Certificates were distributed to the winners and all the participants as well.



SPONSORS



DETAILS OF SPONSORS

- Bluestacks: Prizes for winners worth \$200
- Midas Blue: Prizes for winners worth \$100
- JetBrains: Goodies and stickers
- Pop: Goodies and gift hampers for winner worth \$100

WINNERS OF THE EVENT

1. Team Short OK Plz (L D Engineering College, Ahmadabad)
2. Team AndroTech (SVNIT Surat)
3. Team Rogue Nation (SVNIT Surat)

HackDotSlash- Root To Ideas-2.0

OBJECTIVE

ASHINE conducted 2nd National level Hackathon-DotSlash -Root to Ideas a 30 hours long event with the aim to challenge the students to think out of the box and offer innovative, disruptive and sustainable solutions to build smart applications that would help address major real-world problems of our society.



THEMES

- Smart City
- Healthcare
- E-Commerce
- Rural Solutions
- Fintech
- Tourism
- Entertainment
- Social Cause
- Education
- Retail



JUDGES PANEL

- Supriya Srivatsa
- Pritam Baral
- Ashish Rajpurohit
- Pratik Desai

DETAILS OF BENEFICIARY

Out of of 142 shortlisted participants,102 participants turned up for the event. Out of 66 projects (46 Teams +20 Individuals), 7 were shortlisted for presentation

SPONSORS



WINNERS OF THE EVENT

- 1.Team Pheonix (SVNIT, Surat): Project-CrawlVid
- 2.Team DobaraMatPuchnaa (SVNIT, Surat): Project- Voice Assistance
- 3.Team Probability (K.J. Somaiya College of Engineering): Project-Safely Reached

ETHEREUM TRACK WINNER

- 1.Team Kryptic Indians (D.J. Sanghvi College of Engineering)

HackDotSlash- Root To Ideas-3.0

OBJECTIVE

ASHINE conducted the 3rd national level Hackathon DOTSLASH - Root to Ideas, a 30 hours long event with the aim to challenge the students to think out-of-the-box and offer innovative, disruptive and sustainable solutions to build smart applications that would help address major real-world problems of our society.

THEMES

- Developer Tools
- E-Governance
- Women Safety
- Fintech
- Technology in Branding
- Environment Conservation
- Entertainment
- Healthcare
- Education
- Cost Reduction

JUDGES PANEL

- Shubham Chintalwar: A tech enthusiast and the Co-Founder of Spinaxon.
- Anand Parikh: Co-Founder of Shira MedTech
- Rachit Khator: An active innovator and the founder of Stackby
- Vineeth Srinivasan: A software engineer with demonstrated capability in solving real-world problems using data-driven decisions

DETAILS OF BENEFICIARY

Out of 138 shortlisted participants, 120 participants turned up for the event.

SPONSORS



WINNERS OF THE EVENT

1. Team Tronics (Birla Vishwakarma Mahavidyalaya, Anand): Project: IoT node
2. Team Twelfth Hour (SVNIT, Surat): Project: Notes Kitty
3. Team CodeMonks (SPIT, Mumbai): Project: SUNROOF Solar

AGORA.IO TRACK WINNER

1. Team Bugo ka Bug, Debug (SVNIT, Surat)
2. Team Hardfault
3. Team Mechies

OUR STUDENTS ACHIEVEMENTS

Vaibhav Maheshwari, our incubatee and his team designed a solution using a smart mirror. They enabled customers to try clothes digitally and checkout without any need for billing queues. For this, they were rewarded by 1 Lac INR of cash prize by Synchrony at BSE Building, Mumbai.



Preet Kadivar and team has won seed funding of 1 Lac INR to build his product further in the competition Young India Challenge conducted at IIT Delhi. His idea was based on sustainable tourism and the renting of heavily fashionable foreign tourists.



Team CredUPI-Vaibhav Maheshwari & Ujjwal Kumar won the runner up spot at ICICI Appathon-2019. They won a cash prize of 3 lakh INR for providing a solution that enables credit card payments on UPI instead of bank accounts that currently is the case.



Prize of 2 Lakhs INR won by Rahul Narkhede from SSIP, Gujarat Government under 'Student Open Innovation Challenge'.



Jay Rathod and Vaibhav Maheshwari were 2nd runner-up at NEC Transportation Hackathon and won 20K INR.



OUR STARTUPS

Chatbots AI Pvt.Ltd

ChaturBots is an AI-based Chatbot Company which helps automate customer engagement to drive sales and provide an enhanced user experience.



Solution Offered

The NLP algorithm would scrap the website data and understand it. Thus when the client/ customer asks a question to the bot, it would be able to respond to the query. As a failsafe, if the bot doesn't have a sufficient threshold of confidence in the answer a human agent takes over.

Soleil Edutec Pvt.Ltd

A cloud-based SaaS product that derives analytics from written (offline) exams.

Solution Offered

The proposed technology uses data analytics to analyze the vast amount of data (big data) collected from checked answer sheets and uses it to create a personalized learning path for every student.



GRADEAZY

Aanjaneya Aerodynamics Pvt.Ltd

In response to our honorable Prime Minister's Make in India and Udaan initiatives, it is proposed to Design, develop and manufacture a totally indigenous multipurpose, medium-sized transport for civil & military applications using unique innovative design concepts.



OUR STARTUPS

Chikitsak

CHIKITSAK is a healthtech startup working to build a network of patients through its various disease communities. CHIKITSAK is also working to make hospitals friendly through its option of hospital pages. Patients will be able to connect with doctors and healthcare service providers very easily and their health data will be organized for future use.



Solution Offered

The proposed technology uses data analytics to analyze the vast amount of data (big data) collected from checked answer sheets and uses it to create a personalized learning path for every student.

Vysion Technologies

Provide IOT, AI and cloud computing-based smart technology solutions for the betterment of citizens of the country. A smart sewage monitoring device monitors the sewage level and notifies the respective Municipal Corporation in order to avoid sewage overflow and to achieve rapid maintenance.



Solution Offered

Developed a smart manhole monitoring device that monitors the sewage level of each manhole with help of sensors and notify respective Municipal Corporation on a mobile application in order to avoid sewage overflow.

PROTOTYPES SHOWCASE

Development of Ball on Plate Balancing System



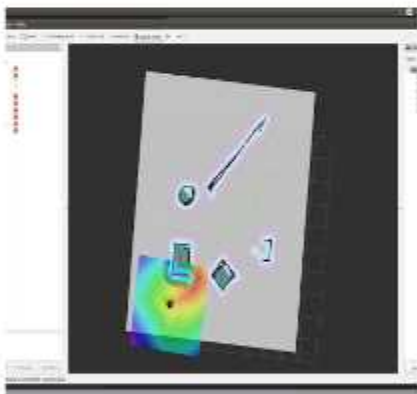
Development of Nonlinear Control System for Autonomy of Quad-Rotor



Alkali activated concrete using steatite powder



Brain-Computer Interfacing



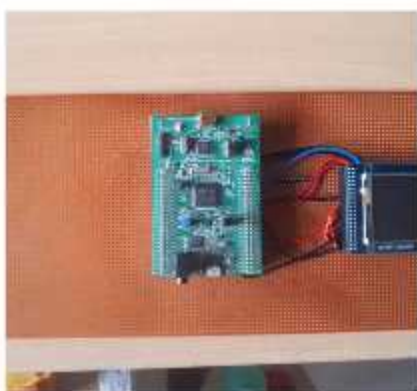
Implementation of Impedance-source Inverter (ZSI)



Plant Leaves based Waste Water Treatment



E-Writer using ARM processor



Low-Cost Cleaning Solution for Solar PV Panel



Development of Various Products from Water Hyacinth



PROTOTYPES SHOWCASE

Real-Time Sign
Language Recognition
System Using Machine
Learning



Solar Thermal-
Parabolic Trough with
active tracking



Vertical Axis Hydraulic
Turbine



Design and
Fabrication of Rice
Crop Cutter



ROS based Robotic
System for precision
Farming



Graphene-based Nano-
composite for
supercapacitor
application



Fe_3O_4 Nanoparticles
decorated with
quantum Dots for
targeted imaging in
Biological system



Electric Tricycle for a
physically
handicapped person



TEAM ASHINE

DIRECTORS

- Dr.S.R.Gandhi: Director, SVNIT, Surat
- Dr.A.A.Shaikh: Dean (Research & Consultancy), SVNIT, Surat
- Dr. J. Banerjee: Prof. I/C (Research Park),SVNIT, Surat

FACULTY IN-CHARGE

Infrastructure Development	:	Dr. G.R. Vesmawala & Dr. N.D.Jariwala
Finance & Accounts	:	Dr. N.D.Jariwala & Dr. S.N.Shah
Procurement	:	Dr. H.K.Dave & Dr.G.C.Jadeja
Startup & Incubation	:	Dr. G.C.Jadeja & Dr. G.R.Vesmawala
Student Projects & Events	:	Dr. S.N.Shah & Dr. H.K.Dave

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