



KURUKSHETRA UNIVERSITY TECHNOLOGY INCUBATION CENTRE (KUTIC)

UNDER RUSA 2.0

**ANNUAL REPORT
2019 -2020**

KUTIC



KURUKSHETRA UNIVERSITY TECHNOLOGY INCUBATION CENTRE



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INTRODUCTION

“**Kurukshetra University Technology Incubation Centre (KUTIC)** established under KURUKSHETRA UNIVERSITY RUSA PROJECT SOCIETY (KURPS) a society registered under “The Haryana Registration and Regulation of Societies Act, 2012”, Registration Number 02255, date 21.05.2019 and established by and at Kurukshetra University, Kurukshetra.

Vision

To create an environment to translate knowledge and innovation into successful entrepreneurs

Mission

KUTIC will create an environment for fostering, support innovation and knowledge-based entrepreneurship among the Kurukshetra University community contributing to wealth and social value creation through successful ventures.

Objectives

- ❑ To foster and create a culture of entrepreneurship among students, alumni, and faculty, by providing them opportunities and infrastructure to translate their ideas into products.
- ❑ To facilitate incubatees with mentoring and conducive environment to nurture their innovative ideas.
- ❑ To liaison with funding resources, government agencies, industrial associations, chambers of commerce and industries to generate funding for incubatees

Outcomes

- Creation of ecosystem for nursery incubatees, which will foster out of box thinking among students through innovation competitions.
- Improve industry-academia interaction.
- Generate employment and promote new technology/knowledge/innovation based startups.
- Creation of entrepreneurship tempo amongst students.

ADVISORY BOARD MEMBERS



Dr. Anil Jain

President, Vaiseshika Electron Devices,
Ambala Cantt.

<https://www.linkedin.com/in/anil-jain-ph-d-a0465672/>

Dr. Anil Jain, holds a Ph.D. in Instrumentation from BITS, Pilani. He is also concurrently adjunct Professor at BITS, Pilani in the Department of Electronics and Electrical Engineering. He is an Institution of Electronics and Telecommunication Engineers (IETE) fellow. In April 2000, he received the 14th Lal C Verman Award from the IETE, New Delhi, for outstanding contributions in the field of quality control, precision measurement and standardization. In July 2004, he was also awarded the National Award for quality products in process control instrumentation by the Ministry of Small Scale Manufacturing, Government of India, New Delhi.



Dr. B. S. Satyanarayana

Founder, Satya Bharathi
Consultants, Bengaluru

<https://www.linkedin.com/in/bukinakere-s-satyanarayana-04887424/>

Prof. B.S.Satyanarayana, holds a Ph.D in Electrical Engg , a first in the area of Vacuum nano-electronics at Cambridge University UK. He has earlier held responsibilities including those of CEO, Vice Chancellor, CTO, COO, Strategic Planning, Analysis & Implementation (Institution building & branding, infrastructure creation, compliance enabling, change management), R&D, Think Tank Head & Skilling. He has published over 170 papers in journals and conference proceedings and delivered over more than 300 invited & contributed talks. He has been featured in Indian and International print & visual media. He holds 4 patents and has filed 10 more patents



Prof. Dinesh Goyal

Professor, Thapar University, Patiala

<https://www.linkedin.com/in/dinesh-goyal-13026325/>

Prof. Dinesh Goyal, a Professor in Applied Microbiology and Biotechnology at Thapar University, Patiala. His research interest includes working with bioremediation microbial systems to improve soil fertility and crop production, development of cost effective protocol for mass production of microbial inoculants, etc. He has published more than 100 papers, holds two patents, 14 book chapters, and guided several B. Tech project work and 62 M. Tech and M. Sc. Thesis work. And 16 graduates with a Ph.D. 25 projects sponsored with research and technology demonstration completed



Mr. Vivek Atray

(I.A.S Retd.) Corporate Mentor
& Advisor, Chandigarh

<https://www.linkedin.com/in/vivek-atray-9464434/>

Mr. Vivek Atray, ex IAS, is a Motivational Speaker, Mentor, Advisor, Author and Visiting Professor. He has given 8 TEDx Talks and 3 JOSH Talks. Over 1.80 million people have seen his videos on YouTube. He is the founder of SUVICHAR Think Tank, Visiting Professor at Shoolini University, member of the CSR .He is also a founder of the Vibrant Networking Forum, Chandigarh Literary Society and Co-Convenor of INTACH Chandigarh. He is a member of the Governor's Advisory Council for Chandigarh UT.



Ms. Sarita Mishra

Founder, Green Cosmos and
Only Naturals, Bengaluru

<https://www.linkedin.com/in/sarita-mishra-870884a/>

Ms. Sarita Mishra, is a Founder of Green Cosmos and Natural, Bengaluru, She is an investor for Axis Global Solutions. She also worked as a Scientific Officer at Bhabha Atomic Research Centre, Department of Atomic Energy, India. She did Management Program for Women Entrepreneurs from Indian Institute of Management Bangalore.

ADVISORY BOARD MEMBERS



Mr. Nipun Padha

Vice President, MoMAGIC

Technologies Pvt. Ltd.

Gurgaon, Haryana

<https://www.linkedin.com/in/padhan/>

Mr. Nipun Padha, a technology professional with broad experience of working in and on the business. His specialities include Market development, new product introduction, Market research, program management and ASIC Design and Development Management. He did his M. Sc. in Microelectronics from Kurukshetra University, Kurukshetra.



Prof. Anurag Srivastava

Professor at ABV-Indian Institute of
Information Technology and
Management,
Gwalior

<https://www.linkedin.com/in/anurag-srivastava-2a4b097/>

Prof. Anurag Srivastava, He is Mentor for Advanced Materials Research Group, CNT Lab, IIITM. He is also Coordinator for Technology Innovation and Incubation Centre, IIITM. He is Editor in Chief, American Scientific Publisher journal of Systems Analysis and Software Engineering Associate Editor, American Scientific Publisher journal Quantum Matter Associate Editor, IJEEE.. Experienced professor with a established track record of working in the education management field. Having strong knowledge and technical competencies in Material Science, Nanotechnology, Software development, Technology, Incubation and Startups.

ADVISORS/MENTORS

❑ KUTIC has created a pool of mentors and advisors to support the incubatees and startups. The panel consists of experts in various fields and we are trying to increase the number of mentors and advisors to have more experts from a range of fields to support the young entrepreneurs.



Dr. Uddhab Kr. Bharali,

D.Sc, Padma shri awardee
Director-Innovation, Dibrugrah University
and Tezpur University.

<https://www.linkedin.com/in/uddhab-bharali-a4a90525/>

Dr. Uddhab Bharali, received Padma Shri award in 2019, in the field of Science and Engineering grassroots innovations. He has created and patented more than 140 brilliant inventions made from things that we see or use on a daily basis. His innovations made lives better of people living in many rural areas.



Mr. Devendra Jain

Director, Pluss Advanced Technologies
Pvt Ltd Gurgaon, Haryana

<https://www.linkedin.com/in/devendra-jain-8998381/>

Mr. Jain, did his post graduation in chemistry and polymer technology (U.K.). He has over 45 years of technical experience in the field of plastics and polymers. His credit has several accomplishments in basic and applied research development of synthetic paper based on BOPP being the major patent he holds.



Mr. Ilam Chand Kamboj

Managing Partner at Kamboj Law Chambers And
Insolvency Professional, Gurgaon.

<https://www.linkedin.com/in/ilam-chand-kamboj-92a39a5/>

Mr. Kamboj, is the founder and managing partner of Kamboj Law Chambers, a consulting company for corporate and business law and management consultancy, dealing with all kinds of management, legal and secretarial concerns including strategic strategy, enhancement of management process, best corporate practices and controls.



Prof. Chittaranjan Kole,

Raja Ramanna Fellow, Govt. of India,
ICAR-NIPB, Pusa, New Delhi, India.

Prof. Chittaranjan Kole is an internationally renowned scientist with an outstanding professional career spanning over 30 years. His research contributions, specifically in the fields of Agro-nanotechnology, Plant Genomics, Biotechnology and Biodiversity, have been leading to the Outstanding Crop Scientist Award, which was conferred upon him by the International Crop Science Society in 2012.



Mr. Uday Wankawala

Chief Executive Officer at
Atal Incubation Centre-
Rambhau Mhalgi Prabodhini, Thane, Maharashtra.

<https://www.linkedin.com/in/udaywankawala/>

He has been actively involved as a collaborator, facilitator and motivator in the Indian Startup Ecosystem since 2010. He is involved in conceiving, planning and providing overall leadership for AIC-RMP with a goal to nurture and support New Age entrepreneurs for New Age India.



Mr. Kunal Nandwani

Cofounder and CEO
uTrade Solutions, Mohali, Punjab.

<https://www.linkedin.com/in/kunalnandwani/>

Mr. Kunal, is a start-up entrepreneur with expertise in technology, financial markets, block chain, electronic commerce and angle investing. He is author of Published Book "Squaring the Blockchain Circle" and upcoming Startup Book

ADVISORS/MENTORS - ALUMNI



Dr. Vinay Kumar

Co-founder & Director
PathShodh Healthcare, Bengaluru.

<https://www.linkedin.com/in/dr-vinay-k-chauhan-b0b760191/>

Dr. Vinay, an alumnus of Kurukshetra University, Kurukshetra. He did his Ph.D in Nano Science and Engineering from Indian Institute of Science, Bangalore. Bio-sensing technologies invented by Dr. Vinay are at the heart of PathShodh Health care. He has an extensive history in inventing and developing the new innovations for biosensor applications.



Mr. Prashant Gaur

Founder & Director
Enzibeta Biotech, Hyderabad.

<https://www.linkedin.com/in/prashantgaur1/>

Mr. Prashant, an alumnus of Kurukshetra University, Kurukshetra. He is a versatile bench Scientist and active project manager with 17 years of fermentation research, involved in selection of clones, optimisation of the fermentation process, characterisation and scale-up.



Dr. Varsha Singh

Asst. Professor, Chitkara University,
Founder & Director

Medzak Healthcare Pvt. Ltd, New Delhi
<https://www.linkedin.com/in/dr-varsha-singh/>

Dr. Varsha an alumnus of Kurukshetra University, Kurukshetra. Her research interest includes non-communicable diseases, biomarker discover for organ cross talk, evolutionary studies. She and her team at MedZak developed multiuse point of care device, Meibox, a low-cost, portable point-of-care integrated diagnostic imaging system for ocular health. It can diagnose 9 different ocular diseases.



Mr. Vikas Rana

Group Manager
(Non Volatile Memory design),
Member of Technical Staff,
ST Microelectronics, Noida.

<https://www.linkedin.com/in/vikas-rana-55029815/>

Mr. Vikas, an experienced engineer with a established track record in semiconductor industry. Skilled in non-volatile memory (FTP, MTP, eFlash , etc) Embedded device design, debugging, analog circuit design, and CMOS design. Solid engineering professional with a Masters Degree in Electronic Science, Kurukshetra University.



Mr. Sanjay Ahuja

Vice President, Accenture,
Bengaluru.

<https://www.linkedin.com/in/sanjayah/>

Mr. Sanjay, an alumnus of Kurukshetra University, Kurukshetra. A tenacious technocrat with 24 years of intense track record in the IT sector's corporate planning and transformation programme, consultant and advisory, manger, centre of excellence, system management, business creation and partnerships management.

ADVISORS/MENTORS



Dr. Sandip Patil

**Founder & Director
E-Spin Nanotech, Kanpur.**

<https://www.linkedin.com/in/dr-sandip-patil-87863814/>

Dr. Sandip, is an entrepreneur, technologist, Founder and Director of E-Spin Nanotech Pvt. Ltd, IIT Kanpur. A PhD in Chemical Engineering, IIT Kanpur. Some of his innovative work has featured in scientific news in CNN(U.S. edition), Mint and the wall street journal. He is a recipient of many prestigious awards that bear witness to his entrepreneurial and research skills.



Dr. Neera Tewari Singh

**Assistant Professor,
Michigan State University, USA.**

<https://www.linkedin.com/in/neera-tewari-singh-424b1a1a/>

Dr. Neera, is an Assistant Professor at Pharmacology & Toxicology at Michigan State University, USA. Her research's key long-term aim is to undertake both basic and translational studies in order to improve accepted and more efficient target counter measures/therapies, primary against dermal and ocular injuries from exposure to chemical threats.



Dr. Darshana Joshi

**Co-founder, VIGYANshaala,
STEM Educator & Mentor .**

<https://www.linkedin.com/in/darshana-joshi1210/>

Dr. Darshana Joshi, holds a doctorate from Cambridge University, U.K. A passionate physicist and former student leader who is committed to mentoring younger learners and bringing more women into STEM disciplines. Over 4 years of experience in experimental soft matter and biophysics and 3+ years of experience in growth of semiconductors, characterization, processing, and manufacturing of devices.



Dr. Shivani Gupta

**Co-founder
Inochi Care, New Delhi .**

<https://www.linkedin.com/in/shivani-gupta-7b47a127/>

Dr. Shivani, holds a doctorate in biotechnology from BITS, Hyderabad with expertise which aligns multidisciplinary research with needs of society and industry. She is also i-Fellow School of international Bio-design.



Habib Ali

**Founder & CEO
Beable Helalth, Hyderabad.**

<https://www.linkedin.com/in/habibali123/>

Mr. Habib, did his M. Tech in Biomedical Engineering from Manipal Institute of Technology. He is a fellow from Cambridge Judge Business School. He has also worked as a Co-founder for Seelen Healthtech Pvt. Ltd.



Nidhi Agarwal

**Principal Scientist,
Pluss Advanced Technologies
Pvt. Ltd, Gurgoan.**

<https://www.linkedin.com/in/nidhi-agrawal-6892a241/>

Ms. Nidhi, received "Science Meritorious" award for her M. Phil Thesis, which focused on "enzymatic studies of nucleosides". Her research experience includes chemical synthesis of UV active compounds for DNA labelling, Stable Phase Change Material is one of the products that brought about a significant change in product pattern developed at PLUSS.



Ankit Jhanwar

**Vice President
Pluss Advanced Technologies
Pvt. Ltd.**

<https://www.linkedin.com/in/ankit-jhanwar-52659699/>

Mr. Ankit, a graduate in Polymer Science and Engineering from IIT, Roorkee. He also completed a certificate course from the prestigious London School of Economics and Political Science in Entrepreneurship, Management and Global Leadership. At PLUSS, Ankit is head of Corporate Planning. He is expert in strategic planning and market forecasting and review.



Dr. Archana Chugh

**Associate Professor,
Indian Institute
of Technology Delhi.**

<https://www.linkedin.com/in/archana-chugh-a21b9b17/>

Dr. Archana Chugh, is Associate Professor, Kusuma School of Biological Sciences, IIT Delhi. Her research interest includes Cell Penetrating Peptides (CPPs), Marine Bioprospecting and Plant Based Therapeutics. She is a qualified patent agent and has vast expertise in the area of Intellectual Property Right (IPR).



Rajani Bhandari

**Senior Manager, Accenture
Technologies Ltd, Bengaluru.**

<https://www.linkedin.com/in/rajani-bhandari-9150a44/>

Rajani Bhandari has over 19 years of experience in leadership, management and engineering, with the ability to deliver quality solutions. Relentless problem solver applying analytical, design and technical skills to oversee the entire development of software cycle.

PROJECT ACTION GROUP OF KUTIC



Dr. Anurekha Sharma

Professor, Dept. of Electronic Science,
Coordinator



Dr. Anil Kumar Mittal

Professor, University School of
Management.
Member



Dr. Anita Yadav

Professor,
Dept. of Bio-Technology,
Member



Dr. Ashwani Mittal

Associate Professor,
Dept. of Biochemistry, IIHS,
Member



Dr. Hardeep Anand

Associate Professor,
Department of Chemistry.
Member



Dr. Reeta Devi

Assistant Professor,
Dept. of Electronics and Communications
Engineering, U. I.E.T
Member

Incubation Consultant



Dr. Srinadh Mattaparthi

“TRIGGERING THE SPIRIT OF INNOVATION- INNOVISION - 2019”



INNOVISION-2019



Kurukshetra University Technical Innovation Competition 2019

A newly established Kurukshetra University Technical Incubation Centre (KUTIC) invites new and original ideas from the Science and Engineering students which have potential for new innovations for Innovision-2019. The competition aims to encourage younger generation Scientists and Engineers for the brilliant innovations.

Eligibility

Category-I: Pre-final year UG/PG students of Physical Science, Engg., Life Sciences and Pharmacy (from UTD, Institutes & Affiliated Colleges)

Category-II*: Students of Final Year & Alumni

Category-III*: Research Scholars

*Only UTD and Institutes on the campus

Schedule

Last Date of online submission : 15th Sept., 2019

Notification of shortlisted proposals : 30th Sept, 2019

Presentation of shortlisted proposals : 16th Oct, 2019

Start of the Project : 16th Oct, 2019

Completion of the Project : 31st Jan, 2020

Final Presentation and Evaluation : 10th Feb, 2020

Announcement of Awards : 15th Feb, 2020

Prize distribution : 28th Feb, 2020

Prizes

First : ₹ 70,000 (one prize for each category I, II & III)

Second : ₹ 50,000 (for category I only)

About the Competition

Proposals are invited for the execution and demonstration of original research and development ideas in the domains of Physical Sciences, Chemical Sciences, Basic Life Sciences, Pharmaceutical Sciences and Engineering.

Proposals may include (but not limited to) executable concepts for an experimental demonstration or prototype setup/system development (Related to themes like Energy, Environment, Agriculture & Rural Development, Health, Drones, App Development, any other).

Only one team (**not more than 3 students in a team**) per college will be allowed to participate. However, there is no restriction on the number of teams from UTD/Institutes in the campus.

Selected teams shall be called for proposal presentation at KUTIC. **Selected proposals may be given grant upto ₹ 3 Lakhs for implementation of the project.**

The selected proposals have to be executed by the students between October 2019 to January 2020 in the respective departments/college/institute.

For details visit: www.kuk.ac.in ; Contact: kutic@kuk.ac.in

URL for submission : <https://forms.gle/Mcv4PA6B1fo7sQku8>



TRIGGERING THE SPIRIT OF INNOVATION- INNOVISION 2019

Introduction

“Kurukshetra University Technology Incubation Centre (KUTIC) invited new and original ideas from the Science and Engineering students which have potential for new innovations for Innovision-2019, which was launched on August 20th 2019.”

The aim of the competition is to:

- ❑ Support new and original ideas, which have potential for innovations. The competition will provide a prestigious regional platform to showcase their ideas of research and innovation.
- ❑ Popularizing science among young students.
- ❑ Recognition and nurturing of young talent within the University.
- ❑ Creating awareness among students about science and allied topics and its application to society.

Teams Shortlisted

On October 16, 2019, Kurukshetra University Technology Incubation Centre (KUTIC) conducted evaluation of Innovision 2019 projects carried out under Science & Technology and Life Science in various categories. A total of 50 teams participated in the competition: **19** Teams in Category I (Pre-Final year), **27** Teams in Category II (Final Year & Alumni), **4** teams in Category III (Research Scholars). 20 projects out of 51 recommended for grant on the basis of their potential to address environmental issues, water problems, IOT, organic farming, power electronics and innovative design. The funding for the projects execution ranging from Rs 3000 to Rs 1.5 Lakhs.



FINAL EVALUATION OF INNOVISION 2019 PROJECTS

Final Evaluation

Feb. 15th
2020



On February 15, 2020, Kurukshetra University Technology Incubation Center (KUTIC) conducted a final evaluation for Innovision-2019 projects carried out under Science & Technology and Life Sciences category at the AIH Committee Hall, KUK. The evaluation was held in the presence of evaluation committee members, including Dr. Anil Jain - President of Vaiseshika Electron Devices, Ambala Cantt.; Professor Dinesh Goyal- Dept of Biotechnology, Thapar University, Patiala and Mr. Devendra Jain - Pluss Advanced Technologies Private Limited, Gurgaon. along with PAG members of KUTIC from 10 am to 5 pm.

A total 16 out of 20 teams successfully executed their projects and participated in the final assessment. The assessment was done based on various criteria, i.e. majorly development of prototype, go to market strategy, target market and competitive advantage, by the evaluation committee members. 5 out of 16 ideas/proposals in various categories were chosen as final winners. It was proposed by evaluation committee members and PAG –KUTIC that, these 5 best ideas shall present the proof of concept/prototype that has potential for translating into a product during the National Science Day on dated 28th February 2020 in the presence of eminent personality *i.e.* Dr. Uddhab K. Bharali, a Padmashri Awardee (2019) for Science & Engineering-Grassroots Innovation and worthy Vice Chancellor of KUK, Dr. Kailash C. Sharma. The event closed by felicitating the evaluation committee members and by a vote of thanks.



INNOVISION-2019 PRIZE DISTRIBUTION

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On February 28th, 2020, The event starts with the science exhibition, Chief guest Dr. Uddhab K. Bharali Padma Shri Awardee 2019, inspected the projects exhibited and displayed by InnoVision-2019 competitors in the field of science and technology. On this occasion, chief guest interacted with all the project members and appreciated in developing the prototypes for their innovations. A large number of students, faculty and other guests thronged the science exhibition. Then welcome of the guests and introduction of the Chief Guest and Importance of Science Day by Prof. R.K. Sharma, Dean Life Sciences. Followed by light lamping ceremony. Prof. Anurekha Sharma, Co-ordinator KUTIC, gave an account of the activities to be carried out at the KUTIC, which are: development of nursery incubators by organizing student invention competition, organization of expert talks and workshops and incubating startups.

Prof. Manjula Chaudhary, apprised the audience about various events and activities carrying out in the University. She mainly emphasised on different activities going under RUSA project. **Prof. Kailash Chandra Sharma**, Vice Chancellor, KUK, addressed the gathering by welcoming the Chief Guest Dr. Uddhab Bharali and shared his experiences about the innovations. He also shared the various events and activities carrying out in the University. Further, he appreciated KUTIC Coordinator Prof. Anurekha Sharma and the team, for their continuous efforts in encouraging and motivating the students to take part in the innovation ideas. He urged the students to innovate to meet local needs, and thus contribute to making in India.

Dr. Uddhab K. Bharali, Chief Guest addressed the audience by interacting students about the terminology innovation. Further, he shared his experience and how he came up with 140 innovations with simple design and mechanism, their usefulness in agricultural work. He talked about his innovations, how these energy-efficient and low-cost machines are simplifying several agricultural processes for many. Further, he emphasised on his innovation for differently disabled persons and helping out them.

Then, the InnoVision-2019 competition winners were felicitated at the hands of chief guest Dr. Uddhan K. Bharali. Finally, the event closed by felicitating the speaker and vote of thanks by Dr. Srinadh and followed by national anthem.

Feb. 28th
2020

WINNERS OF INNOVISION-2019 COMPETITION

Feb. 28th
2020

INNOVISION-2019
WINNERS



**Team: Ms. Sudha Yadav,
Ms. Neha Kumari, Mr. Parshant**

Class: M.Sc. (I Year)

Department/Institute: Electronic Science
Department, KUK

Title of the project: “Centralized Home
Automation System”

Category: I (Pre-Final Year)

Cash Prize: 70,000/-



**Team: Mr. Ajay Chauhan, Mr. Vishal Saini
and Mr. Rajat Kumar**

Class: B.Sc. (II Year)

Department/Institute: Electronic science and IT
department, Sanatan Dharma College, Ambala
Cantt

Title of the project: “Home Appliance Control
Using Speech Recognition”

Category: I (Pre-Final Year)

Cash Prize: 50,000/-



Team: Ms. Amit Phogat

Class: Research Scholar

Department/Institute: Botany department,
Kurukshetra University

Title of the project: “Studies on extraction
and quantification of secondary
metabolites from ROSA DAMASCENA
and wild varieties”

Category: II (Final Year)

Cash Prize: 70,000/-



**Team: Mr. Chander Mohan, Mr. Naval
Kishore Mehta and Dr. Sanjay Singh**

Class: M.Tech (II Year)

Department/Institute: Electronic science
department, Kurukshetra University

Title of the project: “AI for Classroom
Teaching Assessment”

Category: II (Final Year)

Cash Prize: 50,000/-



**Team: Mr. Anuj Sharma, Mr. Neeraj and
Ms. Kriti**

Class: M.Sc. (Final Year)

Department/Institute: Institute of
Environmental Studies, Kurukshetra
University. Title of the project: “Judicious use
of organic waste from KUK campus to form
vermi compost – An economic and
commercial approach”

Category: II (Final Year)

Cash Prize: 10,000/-

INVITED TALKS

Date

Activity

Description

▲ September 3rd 2019

Invited Talk by
Dr. Anil Jain
(President, Vaiseshika
Electron Devices, Ambala Cantt.)

Title: Innovation: the locomotive
Engine for Growth of Young India

▲ September 4th 2019

Invited Talk by
Mr. Vivek Atray
(IAS retd) Mentor,
Advisor, Columnist and Visiting Professor

Title: Creative Thinking and Innovative
Practices

▲ September 12th 2019

Invited Talk by
Mr. Ranjan Malik
(Co-founder & Managing Partner at
PRIMALISE, Bengaluru)

Title: Ecosystem Innovation: Where the
Small is Big

▲ September 27th 2019

Invited Talk by
Er. Anil Pradhan
Founder, International Public School
For Rural Innovations(IPSFRI), Odisha

Title: Innovation in education with aid
of science and technology



INVITED TALK



- Kurukshetra University Technology Incubation Center (KUTIC) opened its activities in Kurukshetra University's Senate Hall in the presence of Prof. Kailash Chandra Sharma, Vice-Chancellor, KUK, Prof. Manjula Chaudhary, Nodal Officer RUSA & Dean, Academic Affairs and the speaker of the day Dr. Anil Jain, President, Vaiseshika Electron Devices, Ambala Cantt. along with the members of Project Action Group(PAG) Prof. Anurekha Sharma, Prof Anita Yadav, Prof. Anil Mittal, Dr. Hardeep Anand and Ms Rita Devi.
- Prof. Anurekha Sharma, Coordinator KUTIC, gave an account of the activities to be carried out at the Technology Incubation Center, which are: development of nursery incubators by organizing student invention competition, organization of expert talks and workshops and incubating startups.
- The center's activities were kicked off by unveiling the poster followed by the vice-chancellor's inaugural address. In his speech, the Vice-Chancellor called on the students to think out of the box and simply not rely on bookish information. He urged them to innovate to meet local needs, and thus contribute to making in India. He stressed the Chandrayaan-2 project is the latest example of Make in India and Innovation. Whole world is in awe of India's achievement, which is using fully home-grown technology. India is proving on every front, so why would the Kurukshetra University lag behind others. He said that having a speaker who is not only an innovator, but also Kurukshetra University alumnus, who has contributed to Mars Orbiter Project and Chandrayaan-2 is indeed a moment of great honor.
- **Dr. Anil Jain**, in his talk entitled "Innovation: Locomotive Engine for Young India Development," said that the shrinking job market and the weakening of the economy made the situation very difficult for newly qualified engineers and scientists. The precipitating factors for low work prospects consist primarily of abysmally low ability set of trained youth and un-connectivity with the entire industrial world. He said he is here to answer students' concerns and show them the road map to turn their persona from an ordinary young Indian citizen to an ambitious Indian nation-builder. .

Sep. 3rd
2019

INVITED TALKS

The invited talk for the faculty of life sciences and pharmaceutical science organized by KUTIC was held in senate hall of Kurukshetra University in presence of Prof. Rajneesh Sharma, Dean of life sciences & Dean of pharmaceutical sciences, and the speaker of the day Mr. Vivek Atray (IAS Retd. & Motivational Speaker) along with the members of Project Action Group Prof. Anurekha Sharma, Prof. Anita Yadav and Dr. Hardeep Anand.

Mr. Vivek Atray, engaged the students on Creative Thinking and Innovative Activities. He inspired students to be different from the crowd in his lecture, and told them that real fear in life is like everyone else. He shared how he allowed the students to sit idle and think about themselves and their surroundings. He added that Calmness of mind is the key to success and it is human tendency that ideas generate in a relaxed and calm mind always. Mr. Vivek Atray compared life with a chess game and told the students that everyone will be packed in the same box after the game is over, now is the time to play the game before it gets over, people lose creative mentality as they grow up so it's best to keep the creative mind alive forever.

Mr. Ranjan Malik, an innovation specialist, speaker and writer/Co-founder and managing partner at PRIMALISE, was speaker of the event. He interacted and apprised the gathering about the continuous and rapid development of start-ups in the new world. He emphasizes on the fact that innovative ideas do not require a comfort zone or accessibility of resources ,all it requires is the zeal of doing something and enthusiasm of creation. He gave example of a concentration camp in Germany where having a book with you was a considered as crime but in the same environment people were writing books. He also claimed the *conventional schooling pattern that conditions a child to think only of the routine* and nothing else with the visual presentation he explained various parameters and processes in start-up business which included: *Challenging mental models ,Business model innovation ,Ecosystem innovation, replacement of Stagnant Market etc.*



Sep. 4th
2019



Sep. 12th
2019



INVITED TALK



Kurukshetra University Technology Incubation Centre (KUTIC) presents
INVITED TALK ON
INNOVATION IN EDUCATION WITH AID OF SCIENCE & TECHNOLOGY
By
Er. Anil Pradhan
Founder IPSFRI (School for Rural Innovation) , Navonmesh Prasar Foundation

Sep. 27th
2019

On September 27th 2019, Kurukshetra University Technology Incubation Center organized an invited talk on the topic Improving Rural Education by Science And Technology. This event was held in Senate Hall, KUK and was presided by. Prof. Anil Vohra, in presence of Speaker of the day Er. Anil Pradhan along with the members of programme action group: Prof. Anurekha Sharma, Prof. Anita Yadav, Prof. Anil Mittal, Dr. Hardeep Anand and Ms. Reeta Devi. Followed by, Prof. Anurekha Sharma, Coordinator KUTIC, welcomed the speaker as the youth icon of India. She urged students to think out of the box and stressed that Creativity follows on from Initiation and Motivation. Age has little to do with creativity, she added that, Er. Anil Pradhan is perfect example. Prof. Anita Yadav informed students about different competitions under BIRAC (Biotechnology Industry Research Assistance Council). Ms. Veena, research scholar, Biotechnology Department, introduced the speaker.

Er. Anil Pradhan, the youth innovation icon, lead designer of Asia's first student satellite mission, founder of IPSFRI School Orrisa, He communicated with the community and talked about the value of creativity and the sacrifices he made to achieve the success. He emphasized the fact that whether it is time or perseverance, Expenditure Always Pay back. He explained to the students how he started to think differently from a village in Orissa and the hardships he went through, saying that everyone could do it. Er. Anil Pradhan showed the students videos and images of his school where learning is not imposed as classes but is served as experiment and enjoyment. The school runs on the principle of $E + E = E$ i.e. *Environment + Experiment = Experience*

All the students of his school are village children of economically weak background and are part of **tab based learning from the age of 9 -10** years. His school comprises of the labs called as *Tod Phod Jod, Kabbad se Juggad, Design Innovation Lab, Hydro lab* etc. Now the school has got aids from South Korea, China and Indian Government. IIT Delhi Rural Innovation Program has also joined up the project work with the school. He emphasized on the fact that Failure is the second name of success *You can never achieve success unless you fail in your attempts.*

INVITED TALKS

February-2020

Date

Activity

Description

▲ February 7th 2020

Invited Talk by
Dr. Neera Tewari Singh
(An affiliated faculty of institute of integrative toxicology, Michigan State University, USA)

Title: Toxic Chemical Exposure

▲ February 11th 2020

Invited Talk by
Dr. Dharshna Joshi
CEO- Vignanshaala

Seminar on Women Innovators in STEM
Title: Inclusivity, Innovation and Interdisciplinary

▲ February 19th 2020

Invited Talk by
Prof. S. S Gosal, Director of research in Punjab Agricultural University (PAU) and
Dr. Archana Chug, Associate Professor, IIT Delhi

Seminar on
Innovation in Plant sciences

▲ February 20th 2020

Invited Talk by
Dr. Varsha Singh,
Founder & Director
Medzak Healthcare Pvt. Ltd

Seminar on
Innovations in Life Sciences

INVITED TALK



On February 07, 2020, Department of Biochemistry, Kurukshetra University, Kurukshetra organized an invited talk sponsored by Kurukshetra University Technology Incubation Centre in Kurukshetra University's senate hall. The event started with welcome speech and followed by short speech by Guest of Honor, Prof. R. K. Sharma., Dean Life Sciences. The guest speaker was Dr. Neera Tewari Singh, Assistant Professor at Michigan State University, USA.

Prof. Anurekha Sharma, Coordinator KUTIC gave an account of the activities to be carried out at the Technology Incubation Centre, which are: development of nursery incubators by organizing student invention competition, organization of expert talks and workshops and incubating startups. Then the guest speaker Dr. Neera Tewari Singh was heartily welcomed and introduced by Prof. Ranjan Gupta, Dept. of Bio-Chemistry., KUK.

Dr. Neera Tewari Singh, in her talk, discussed about her research study to develop approved and more effective targeted therapies against ocular and dermal injuries resulting from exposures to chemical threats. How these chemical agents from industries and pesticides that can cause long term effects. Further, she also discussed on current research focusing on investigating the role of mast cells and related inflammatory responses to elucidating skin, systemic and/or lung injury mechanisms that lead to severe toxicity diseases induced by exposure to vesicating agents in civilian populations and war veterans a like. Finally, she interacted and motivated the students about the research opportunities on toxicology and pharmacology. The event closed by felicitating the speaker and vote of thanks.

**Feb. 7th
2020**

SEMINAR ON WOMEN INNOVATORS IN STEM



On February 11th, 2020, Women in STEM Forum in collaboration with Kurukshetra University Technology Incubation Centre (KUTIC) organized a seminar on women innovators in STEM in Kurukshetra University Senate Hall in the presence Prof. Kaislash Chandra Sharma, Vice Chancellor, KUK, Prof. Manjula Chaudhary, Nodal Officer RUSA and Dean Academic Affairs. Followed by Prof. Anurekha Sharma, Coordinator KUTIC, gave an account of the activities to be carried out at the Technology Incubator Centre, which are: development of nursery incubators by organizing student Innovision 2019 competition, organizing of expert talks and workshops and incubating startups.

Prof. Manjula Chaudhary, Dean Academic Affairs KUK, in her talk, apprised the audience about the objectives and outcomes about different activities undergoing in RUSA project and women in STEM at KUK. Later, the chief guest of the event **Prof. Kaislash Chandra Sharma**, Vice Chancellor KUK addressed the gathering with his valuable words about activities going around the campus, especially how women were actively participating and organising events. He appreciated all the organising team members, participants, invited guests speakers who are involved in Women in STEM event.

Further, the invited speaker **Dr. Dharshna Joshi**, CEO- Vignanshaala, shared her experiences on how they inspire and promote next-generation STEM learners by communicating current as well as novel scientific concepts through hands-on activities and demonstrations and create a multi-tier peer mentoring network for capacity building in early career researchers (PhDs, Masters' students) through science communication and public engagement in India. In her presentation, she talked about how 3I's for designing the future together "Inclusivity, Innovation and Interdisciplinary" Then, followed by the second invited speaker of the day **Dr. Saroj Jaipal**, Principal Scientist CCS Haryana Agricultural University, Hisar. In her talk, she discussed about advancement and innovation in agricultural system that are changing the world. How agriculture is changing through innovation and science and technology. The event closed by felicitating the speaker and followed vote of thanks

Feb. 11th
2020



INVITED TALK

On February 19th, 2020, Department of Botany organized a seminar on “**Innovations in Plant Sciences**” in collaboration with Kurukshetra University Technology Incubation Center (KUTIC). The event was held in the Faculty lounge of KUK in the presence of Chief Guest-Prof. Manjula Chaudhary, Dean Academic Affairs; Prof. Neelu Sood, Chairperson-Department of Botany; Dr. S. S Gosal & Dr. Archana Chugh, Speakers of the day; Prof. Anurekha Sharma - Coordinator KUTIC, other faculty members and students.



Prof. S. S Gosal, a director of research at Punjab Agricultural University (PAU), has been the recipient of various academic honors, including the Award of Royal Society, London (Bursary). His lecture was very interesting. During his talk, he had an enthusiastic conversation with students and shared his research experiences. In his talk, he emphasized particularly in plant tissue culture and recent advances related to it. He also shared his innovative idea with the students about assembling of plant traits in different ways to solve various problems related to medical challenges. Besides that, he gave a detailed overview of plant breeding methods and traditional biotechnology approaches and correlated with entrepreneurship. In his talk, he also discussed about current innovations in plants sciences and impact not only in agriculture but also in the economy of the country. Finally, he concluded with his remarks that there are tremendous opportunities in plant sciences and students can think about their career in it.

**Feb. 19th
2020**

Dr. Archana Chug is an associate professor in Anupama school of Biological Science, Indian Institute of Tech, New Delhi. She has an expertise in the area of Intellectual Property Right (IPR).

Her session was so insightful that it cleared everyone’s concerns on patent processing and procedures belonging to new innovations. She gave an overview stating that IP Rights typically grant the creator an exclusive right for a certain period of time to use his/her creation. She advised the students that patents are needed to foster innovation, they are not only to incentivize innovation but also help to achieve best tradeoff.

In her talk, she discussed in detail about patent rights and also elaborated about how one can promote innovation by creating market of ideas. Later, she highlighted on different types of IPRs such as Trade Marks, Trade Secrets, Copyrights & Patents. Finally, she emphasized the significance of research and innovations to the students and described how one can generate their ideas into economical values. Nearly 300 participants had attended the event, including students, research scholars and faculty members from various Departments of Life Sciences and Sciences.



INVITED TALK



On February 20, 2020, Department of Bio-Chemistry of Institute of Integrated & Honors Studies (IIHS) organized a seminar on the topic entitled, “Innovations in Life Sciences” in collaboration with KUTIC in the smart conference room of the IIHS, KUK. **Dr. Varsha Singh**, an Assistant Professor of Chitkara University (Chandigarh) and Founder & Director of Medzak healthcare Pvt. Ltd, New Delhi was the speaker of the day. In her talk, she gave an overview of her innovative product, *i.e.* Meibox, a low-cost, portable point-of-care integrated diagnostic imaging system for ocular health. She talked about how 300 million people worldwide suffering from visual defects with lack of proper and low cost diagnosed equipment’s/tools. Considering this serious issue, she along with her team developed multiuse (4 in 1) point of care device diagnosing 9 different ocular diseases. She explained that the existing ocular testing equipments are very expensive, sophisticated and non-transportable and not available in rural/semi-urban areas while her Meibox is a multi-use, non-invasive, cost-effective and easy to transport in any part of the world. In addition to her startup work, she also discussed about her academic research as well, *i.e.* personalized prediction of multiple organ dys-regulation and health risk events under non-communicable diseases. Besides that during question hours she shared all the challenges related to the process of developing of Meibox *i.e.* from getting of such innovative idea to generation of funds with students. She motivated the students about innovation and its necessity in the growth of the country. The event was closed by felicitating the speaker and by a vote of thanks.

**Feb. 20th
2020**





October-2019

WORKSHOP: START UP, SPIN UP AND ACCELERATE



WORKSHOP: START UP, SPIN UP AND ACCELERATE



On 17th and 18th of October, the Kurukshetra University Technology Incubation Centre organised its first workshop on Start up, Spin up and Accelerate. The event was held in Senate hall, Kurukshetra University, Kurukshetra in the presence of invited speakers **Dr. Sangeeta Devni**, **Ms. Sarita Mishra** and **Mr. Narinder Jassal** Prof. Anurekha Sharma, Coordinator KUTIC, Prof. C. C. Tripathi, Director U.I.E.T, PAG Members of KUTIC and students. The purpose of the workshop was to encourage the students and budding entrepreneurs to develop new set skills and fostering entrepreneurship.

Ms. Sarita Mishra, started her talk by introducing the audience about some famous scientist entrepreneurs of all the time. She then discussed various elements bridging the gap between science and business. Followed by she gave a detailed overview of types of business entities for registering a business such as private limited company, Limited Liability Partnership (LLP), sole proprietorship, etc. She also addressed the students that choosing the right form of company or sector for any business helps in improving the chance of financial and operational success. Further, she discussed how one can take startup leap by considering few important elements such as scientific and business training, mentors support at every stage of startup journey, and personality traits. Followed by next speaker of the day, **Mr. Narinder Jassal**, enlightened about PRISM's Technopreneur Promotion Programme which allows individuals to avail the govt. Grants up to rupees 20 lakh for their start-ups. He also defined innovation as the sum of creativity and commercialisation.

Dr. Sangeeta Devni, in her talk, stated that a Guru or a Mentor is the light who guides us through the dark to great heights and explained the Kundli for the business. She then discussed about the technology, business models and platforms and the revenue models. Dr. Sangeetha, has shared her experience in drafting a business plan for their business. The event wrapped up by felicitation of the guests and vote of thanks with a short inspiring quote by Jim Rohn. -Whatever good things we build, end up building us.

Second day of the workshop was started by an invited talk on Intellectual Property Rights(IPR) by Ms. Sarita Mishra. In her talk, she introduced the audience how Intellectual Property Rights is most valuable asset of technology startup. She then discussed the advantages of IPR such as, increases valuation of a startup, generate revenue streams through licensing and cross licensing, earn royalties by licensing and can be sold to generate revenue.. Further, she discussed type of intellectual properties available and gave a detailed overview on each and every type. Finally, she shared few examples of IPR such as types of IPR, confidential agreements and how a balance sheet important for a startup.



Oct. 17th & 18th
2019





December 2019

ACADEMIA-INDUSTRY INTERACTION



ACADEMIA-INDUSTRY INTERACTION

On December 3rd 2019, Kurukshetra University Technology Incubation Center (KUTIC) initiated its first Academia-Industry interaction with Ambala Scientific Instruments Manufacturing Association (ASIMA) in the Central Phoenix Club, Ambala Cantt. The ASIMA attended this meeting with its Chairman's representing different clusters of Ambala industry such as Microscope, Exporters, Electronics, Electricals, Heating/Cooling/Pharmacy, Glassware, Models, Physics, Agriculture/Medical, Engineering, Packaging and suppliers.

The purpose of the meeting is to 1. Develop a symbiotic relationship between Ambala Industries and University for mutual growth and benefit of industries and academia, thereby developing strong industry-academia interaction, 2. To identify the areas where faculty can help Industries in solving their technical problems in different science and technology domain depending upon the expertise and 3. To identify the areas where student support can be taken for strengthening the industry-academia interaction by providing students opportunity to provide services for upgradation of the technology or providing solutions for betterment of a product. This will eventually lead to service based startups .

The meeting started with a Welcome address by Mr. Sanjay Gupta, President of ASIMA followed by an introduction of all the current members of ASIMA and members of PAG, KUTIC. Mr. Gupta in his address note, he presented a brief history of the Ambala Industries. He mentioned that OSAW (short name of - Oriental Science Apparatus Workshops) was the first industry established in Ambala in 1920. In 1952, this industry worked remarkably and produced its first scooter which was ridden by Mr. Jawahar Lal Nehru, the first Prime Minister of India. Currently, about 2000 entrepreneurs are actively involved in this industry with an annual turnover of around INR 2000 crores (which includes both trading and import). In spite of that Ambala Industry is not at that height where it supposes to be. He further stated that low volume production and goods/equipments imported from China are the problematic issues that need to be addressed for the future growth of the Ambala industry. Moreover, he admitted that lack of actual knowledge input in terms of R&D is not appropriate and if this issue is not addressed in time will hamper the future growth of this industry.

Jan. 24th
2020

A detailed discussions were held to develop a symbiotic relationship between Ambala Industries and Kurukshetra University for the mutual growth and benefit of industries and academia, thereby developing a strong industry-academia interaction. It was resolved that a program such as 'Know Your Product' can be undertaken for this purpose. Further, it was also discussed that, a visit of ASIMA delegates to different departments of the University was agreed upon by all the members to identify the areas where university faculty can help Industries in solving their technical problems in different science and technology domain depending upon their expertise. To identify the areas where student's support can be taken for strengthening the industry-academia interaction and also to develop the entrepreneur skills in the student, it was discussed and mutually agreed by all the members that technical report writing program for various scientific products of the industry should be assigned to the students. A mentor from industry and university may guide the students for this work. It was further discussed that reverse engineering is one of the way to develop a competitive and effective product. Therefore, short-/long- term training/project work may be undertaken by the students as the opportunity to provide services for up-gradation of the technology or providing solutions for betterment of an industrial product. This will eventually lead to service based startups. Finally, Mr. Vikas Varma was appointed as a Coordinator for problem sharing between the University and Ambala Industry. It was discussed and mutually agreed by all the members that problems related to unique/scare things or theme based challenges of the industry would be shared by him which will be floated to all departments of the university by KUTIC to find out the best possible solutions. Meeting ended with a vote of thanks by the President-ASIMA.

ACADEMIA-INDUSTRY INTERACTION

On January 24th, 2020, Kurukshetra University Technology Incubation Center (KUTIC) organized an Academia-Industry Interaction meeting with Ambala Scientific Instruments Manufacturing Association (ASIMA delegates). The purpose of the meeting is to develop a symbiotic relationship between Ambala Industries and University for mutual growth and benefit of industries and academia, thereby developing strong industry-academia interaction

The event started with a welcome address by Prof. Anurekha Sharma, Co-ordinator KUTIC, followed by an introduction of Guest of Honour, Prof. Anil Vohra, Dean R&D KUK, all members of PAG, KUTIC and all the members of ASIMA delegates.

Prof. Anil Vohra, appraised the ASIMA delegates

A detailed discussion was held where student's support can be taken for strengthening the academia-industry interaction to develop the entrepreneur skills in the student by floating live projects (Real time projects of Industries working on). Delegates from ASIMA has advised the students of KUK to attend the events conducted by the ASIMA industries to develop a symbiotic relationship by exchanging the academic knowledge and industries skills.

Further, they have also discussed and mutually agreed about challenging problems related to the industry would be shared by ASIMA members which will be floated to all departments of the university by KUTIC to find out the best possible solutions. Later, members of ASIMA has visited different department laboratories in the University and interacted with chairperson,

faculty members and identify the areas where university faculty can help industries in solving their technical problems. Further, during the meeting with Vice- Chancellor, It was proposed that, an MoU agreement should be established between the ASIMA industry and KUTIC to develop symbiotic relationship between Ambala Industries and Kurukshetra University for the mutual growth and benefit of industries and academia. The event was ended by a vote of thanks by Prof. Anurekha Sharma.



Jan. 24th
2020



LET'S TALK WITH YOUNGPRENEURS



**KURUKSHETRA UNIVERSITY TECHNOLOGY
INCUBATION CENTRE(KUTIC)**

In Collaboration with UJET Kurukshetra

Organises



LET'S TALK WITH YOUNGPRENEURS

Invited Talk Series Feb-2020

Venue: UJET Auditorium Time: 2:00 pm to 5:00 pm



Dr. Vinay Kumar - 24th Feb. 2020

PathShodh Healthcare - Co-founder & Director

Anjani Mashelkar Inclusive Innovation Award 2018

MIT under 35 innovators for the year 2017

CII Innovation Award 2017

Nidhi Agarwal - 24th Feb. 2020

Pluss Advanced Technologies Pvt. Ltd. - Principal Scientist

MIT under 35 innovators for the year 2016

DST-Lockheed Martin Innovative Growth Program award-2015



Prashant Gaur - 25th Feb. 2020

Enzibeta Biotech - Founder & Director

Hello Tomorrow Challenge: Top 500 deep tech start-up-2019

IKMC TOP 3 in industrial biotech - 2019

BIG-BIRAC grant award -2016



Shivani Gupta - 25th Feb. 2020

Inochi Care - Co-founder

MedTech Innovator Asia Pacific Showcase Program 2019

pfizer Entrepreneurship Award 2018

MIT under 35 innovators for the year 2016



Dr. Sandip Patil - 26th Feb. 2020

E-Spin Nanotech-Founder & Director

TIME India Start-up Innovator for the year (2017)

Awarded Top 5 Nano Technology Companies in India 2016 by SiliconIndia (2016)

Spirit of Manufacturing Awards: Most Promising International Business Leader Award (2015)



Ankit Jhanwar - 26th Feb. 2020

Pluss Advanced Technologies Pvt. Ltd.-Vice President

MIT under 35 innovators for the year 2017

Wockhardt Technology Activist of the Year 2017

Top five Innovators under the FICCI-DST Lockheed Martin India Innovation Growth Prog.



FOR REGISTRATION <https://forms.gle/dDiQmNyuTbAjygrD8>



SCAN QR CODE

Last date for registration: 20th Feb.2020

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February-2020

LET'S TALK WITH YOUNGPREENEURS

On February 24th, 2020, Kurukshetra University Technology Incubation Center (KUTIC) in collaboration with U.I.E.T, KUK, organized an event Let's Talk With Youngpreneurs, Invited Talks. The event was held in U.I.E.T Auditorium in the presence of Prof. Anil Vohra, Dean R&D and Prof. B. Prasad, Dept. of Electronics Science, invited speakers Dr. Vinay Kumar and Ms. Nidhi Agrawal, Prof. C.C. Tripathi, Director, U.I.E.T, PAG members of KUTIC, other faculty and students. The event started with welcome speech by Prof. C.C. Tripathi. Followed by Dr. Srinadh Mattaparathi, Incubation Consultant gave an account of the activities to be carried out at the KUTIC, which are: development of nursery incubators by organizing student invention competition, organization of expert talks and workshops and incubating startups. Then speaker's introduction by Prof. Anurekha Sharma and Dr. Sunil Dhingra



Dr. Vinay Kumar, (CEO & Cofounder: PathShodh Healthcare), He is an Indian Institute of Science, Bangalore alumnus with Ph.D. in Nano Science and Engineering. Bio-sensing technologies invented by Dr. Vinay are at the heart of PathShodh Healthcare. He has an extensive history in inventing and developing the new innovations for biosensor applications. Dr. Vinay himself, now on insulin pump therapy, is a juvenile diabetic (IDDM).

His Ph.D. work resulted in several patents and innovative diagnostic techniques for various markers of the disease. Dr. Vinay has much to his credit for scientific publications and patents. He also brings experience in the semiconductor industry for many years. The title of the talk for the day, is “My Journey with Pathology and Biosensors Technology” In his talk, he personally shared his own experience of being diagnosed diabetic at the age of 14 and he never halted his steps and created the first low cost device in the world for diagnosing Diabetes and 8 other health problems, only device in the world which can perform Glucose, HbA1c and Glycated albumin tests for efficient glycaemic control

Feb. 25th
2020



Ms. Nidhi Agrawal, (Principal Scientist: PLUSS Advanced Technologies Pvt. Ltd.), Nidhi graduated from St. Stephens College, Delhi University (2005) in Chemical Sciences and did her postgraduate degree in Organic Chemistry, where she was named the best student of the year. She submitted her M.Phil Thesis in 2007. That focused on 'enzymatic nucleoside research' and won the prestigious 'Science Meritorious' prize. She created a team and created a few PCM's (Phase change Material). Form Stable PCM is one of the products that brought about a significant change in product pattern developed at PLUSS. The title of the talk for the day is “Innovating Plusustainability” Innovator of PCM, that helps to stabilise the temperature in cold areas like ladakh where night temperatures are usually below -20 degree Celcius. She explained the key points to innovate are interdisciplinary skills, agenda, exchange of ideas, meeting people and perseverance .Her project PCM is a relief to people of hilly regions from the nail biting winds



The event closed by felicitating the speaker and vote of thanks by Dr. Anuradha, Dept. of Mechanical Engineering UIET. The event closed by felicitating the speaker and vote of thanks.

LET'S TALK WITH YOUNGPRENEURS



On February 25th, 2020, Kurukshetra University Technology Incubation Center (KUTIC) in collaboration with U.I.E.T, KUK, organized an event Let's Talk With Youngpreneurs, Invited Talks. The event was held in U.I.E.T Auditorium in the presence Prof. R. K. Sharma, Dean Life Sciences, invited Mr. Prashant Gaur, Prof. C.C. Tripathi, Director, U.I.E.T, PAG members of KUTIC, other faculty and students. The event started with welcome speech by Dr. Ashwani Mittal. Followed by Dr. Srinadh Mattaparthi, Incubation Consultant gave an account of the activities to be carried out at the KUTIC, which are: development of nursery incubators by organizing student invention competition, organization of expert talks and workshops and incubating startups. Then speaker introduction by Prof. Anita Yadav

Mr. Prashant Gaur – Founder, Enzibeta Biotech, Hyderabad, a versatile bench Scientist and active project manager with 17 years of fermentation research, involved in selection of clones, optimisation of the fermentation process, characterisation and scale-up. In addition he is also involved in leading and overseeing research and development programs and pilot projects. The title of the talk for the day “Starup: A Roller Coaster Ride” In his talk, he shared his unforgettable experience during his Master’s program in KUK campus. Further, he started his talk by interacting with the students about how to set the startup and shared his experience in setting of his company. He categorically said “Start ups are like Roller coaster rides and not a one night fight”. The event was end by vote of thanks by Mr. Archit Sharma, Asst. professor, UIET.

Feb. 25th
2020



LET'S TALK WITH YOUNGPRENEURS



**Feb. 26th
2020**

On February 26th, 2020, Kurukshetra University Technology Incubation Center (KUTIC) in collaboration with U.I.E.T, KUK, organized an event Let's Talk With Youngpreneurs, Invited Talks. The event was held in U.I.E.T Auditorium in the presence of Prof. Shyam Kumar, Dean Engineering, invited speakers Dr. Sandip Patil and Mr. Ankit Jhanwar, Prof. C.C. Tripathi, Director, U.I.E.T, PAG members of KUTIC, other faculty and students. The event started with welcome speech by Prof. C.C. Tripathi. Followed by Dr. Srinadh Mattapparathi, Incubation Consultant gave an account of the activities to be carried out at the KUTIC, which are: development of nursery incubators by organizing student invention competition, organization of expert talks and workshops and incubating startups. Then speaker's introduction by Dr. Hardeep Anand and Dr. Ashwani Mittal.

Mr. Ankit Jhnawar, a graduate in Polymer Science and Engineering from IIT, Roorkee (2011). He also completed a certificate course from the prestigious London School of Economics and Political Science in Entrepreneurship, Management and Global Leadership, and additionally earned the CFA Institute level 2. At PLUSS, Ankit is head of Corporate Planning and is actively involved in forecasting sales and revenue purchasing deals, scheduling and reviewing MIS, and working closely on production planning and management of financial activities. He is expert in strategic planning and market forecasting and review. The title of the talk for the day "Why most Innovations fail". He started his talk by Q&A to interact with students. Then he shared his journey of mistakes and improvements failures and success. Later, he discussed about PCM (Phase change Material), that helps to stabilise the temperature in cold areas like ladakh where night temperatures are usually below -20 degree Celcius. Further, he also discussed about the innovations and products of Pluss Advanced Technologies. Finally, he also shared marketing aptitude as it is important for product to be innovative as well as sustainable.

Dr. Sandip Patil, he is an IIT-Kanpur alumnus, An enthusiastic first-place researcher at IIT-K also an epitome of entrepreneurship.. He holds a PhD in Chemical Engineering, and specializes in nanotechnology and adhesives. Dr. Sandip is also a co-inventor of an Indian patent on composite reusable adhesive and that of a US patent which is under process. Some of his innovative work on fabrication of composite reusable adhesives has featured in scientific news in CNN (U.S. edition), Mint and the Wall Street Journal.

The title of the talk for the day "Create a Brand and Transform Your Dream Into Reality". In his talk, he personally shared his journey, raising from small village to successful business person. Later, he talked about the various products of his company such as face masks, electro spinning machines etc. Further, he also shared the importance of technology based products, especially nanotechnology products in various applications. He ignited the students to work hard and continuously and be consistent He also added that problems are actually opportunities to work, to create, to empower.

The event closed by felicitating the speaker and vote of thanks by Dr. Srinadh, Incubation Consultant, KUTIC.





March-May 2020

Fight Against COVID-19: IDEAthon 2020





KUTIC ACTIVITIES DURING LOCKDOWN

<u>Date</u>	<u>Activity</u>	<u>Description</u>
▲ March 30 th 2020	KUTIC-IDEAthon: A Fight Against COVID-19 – Call for Proposals	The programme aimed to encourage and involve the KUK community in the fight against the COVID 19 pandemic situation
▲ April 18 th 2020	Invited Talk by Mr. Sanjay Ahuja, Vice- President, Accenture, Bengaluru.	Webinar on Artificial Intelligence Powered Engineering
▲ April 22 nd 2020	Invited Talk by Dr. Ashwin Kotnis, Associate Professor Department of Biochemistry All India Institute of Medical Sciences (AIIMS) Bhopal, Madhya Pradesh.	Webinar on "Research and Innovation opportunities for seeking a solution to COVID-19 pandemic"
▲ May 2 nd 2020	Invited Talk by Ms. Rajani Bhandari, Senior Manager at Accenture Technologies Ltd, Bengaluru.	Webinar on "Embedded Systems and Internet of Things"
▲ May 9 th 2020	Invited Talk by Mr. Habib Ali, CEO & Founder, Beable Health, Center for Healthcare Entrepreneurship (CfHE) – IIT Hyderabad.	Webinar on "ARMABLE" GAME based ARM REHABILITATION DEVICE"



KUTIC ACTIVITIES DURING LOCKDOWN

<u>Date</u>	<u>Activity</u>	<u>Description</u>
▲ May 13 th 2020	Invited Talk by Mr. Parshant, MSc- Electronic Science Department, KUK.	First Student's Tech Talk on "Arduino Programming"
▲ May 16 th 2020	Invited Talk by Prof. B.S.Satyanarayana, Founder & CEO, Satya Bharathi Consultants, Bengaluru.	Webinar on "A Multidisciplinary Systems Approach To 21st Century Education 4.0 Based Experiential Learning, For Enabling Employment, Research, Innovation & Entrepreneurship"
▲ May 22 nd 2020	Invited Talk by Mr. Uday Wankawala, Chief Executive Officer at Atal Incubation Centre- Rambhau Mhalgi Prabodhini, Mumbai.	Webinar on "Student iDEA to Startup journey"
▲ May 30 th 2020	Invited Talk by Dr. Anil Jain, President, Vaiseshika Electron Devices, Ambala Cantt.	Webinar on "Leveraging Modern Tools of Communication to optimize your Entrepreneurial Initiatives"

KUTIC-IDEAthon

KUTIC-IDEAthon: A Fight Against COVID-19 – Call for Proposals



The poster features the KUTIC logo (a stylized 'K' with a lightbulb) and the Kurukshetra University logo at the top. The central text reads 'KUTIC-IDEAthon' in large red letters, followed by 'A FIGHT AGAINST COVID-19' in black. Below this is a stylized illustration of a red virus particle with yellow spots and a green outer shell. The text 'CALL FOR PROPOSALS' is written in blue. Further down, it states: 'SUBMIT ORIGINAL AND INNOVATIVE IDEAS: LOW COST SANITIZERS, VENTILATORS, MASKS, IMMUNOMODULATORS, AI-BASED APPS ETC. (PROTOTYPE NOT MANDATORY)'. It also mentions 'ELIGIBILITY: STUDENTS, RESEARCH SCHOLARS, ALUMNI.' and 'LAST DATE FOR THE SUBMISSION: 3RD MAY 2020'. A QR code is provided for submission, with the URL <https://forms.gle/ZcMWg9eHHkKUZSn7> and the text 'SCAN QR CODE'. At the bottom, it says 'KURUKSHETRA UNIVERSITY TECHNOLOGY INCUBATION CENTRE'.

March 30th
2020

As the entire world is taking all necessary steps to ensure that we are prepared to meet the challenge and danger presented by the growing COVID 19 pandemic – The Corona virus.

Kurukshetra University Technology Incubation Centre (KUTIC) took initiative and launched KUTIC-IDEAthon programme on March 30th 2020 to encourage and involve the Kurukshetra University community to take part in the fight against COVID 19 by calling proposals to develop low cost sanitizers, low cost ventilators, masks, immunomodulators and AI-based apps.

A total of 20 teams participated in KUTIC IDEAthon and 12 teams out of 20 have been shortlisted for the final evaluation (in person presentation), which will be held in the month of August tentatively after 15th August, 2020/ whenever students will be allowed to come to the university.

Webinar on “Artificial Intelligence Powered Engineering”

WHAT ARE THE COMPONENTS OF ARTIFICIAL INTELLIGENCE...

ARTIFICIAL INTELLIGENCE

- Computer vision and audio processing are used to detect objects and people in images and videos.
- Natural language processing is used to understand and generate human language.
- Machine learning algorithms are used to learn from data and make predictions.
- AI is used to automate repetitive tasks and improve efficiency.
- AI is used to analyze large amounts of data and identify patterns.
- AI is used to create personalized recommendations and user experiences.

EMERGING AI TECHNOLOGIES & SOLUTIONS

AI TECHNOLOGIES

- SENSE**
 - Computer vision
 - Speech Recognition
 - Image Processing
- COMPREHEND**
 - Natural Language Processing
 - Language Processing
 - Knowledge Representation
- ACT**
 - Deep Learning
 - Reinforcement Learning
 - Robotics

SOLUTIONS

- Administrative Systems
- Health Monitoring
- Customer Analytics
- Virtual Agents
- Speech Analytics
- Health Analytics

...ALONG WITH THE COMPOUNDING EFFECT OF DIGITAL TECHNOLOGIES...

TIMELINE OF AI

- 1943**

TURING TEST

Alan Turing invented the "Turing Test", which set the bar for an intelligent machine, a computer that could fool someone into thinking they were talking to a real person. Grey Walter built some of the first ever robots.
- 1950**

I, ROBOT

I, Robot was published—a collection of short stories by science fiction writer Isaac Asimov.
- 1956**

"ARTIFICIAL INTELLIGENCE"

Sanjay Ahuja

Sanjay Ahuja (You)

Srinadh Sharma (You)

Anurekha Sharma (You)

Sanjay Ahuja (You)

Others in the meeting (14)

Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on “Artificial Intelligence Powered Engineering” on 18th April 2020, its first activity during lockdown to encourage the students helping in broaden their skills to attain new knowledge in addition to regular academic subjects. Prof. Manjula Chaudhary, Dean Academic Affairs, was the guest of the honor for the webinar and Mr. Sanjay Ahuja, Vice-President, Accenture Technologies Ltd. Bengaluru, was the speaker of the day, who was welcomed by Dr. Srinadh, Incubation Consultant, KUTIC. The invited talk was preceded by short speech by Prof. Manjula Cahudhary. She gave an account on various activities going under RUSA 2.0 project and appreciated the speaker for his contribution in giving the talk. Followed by, Prof. Anurekha Sharma, Coordinator KUTIC has introduced the speaker to the audience and appraised the audience about the objectives of the webinar. Mr. Sanjay Ahuja, started his talk by giving an insight of timeline of Artificial Intelligence (AI) from Turing (1950) to Eugene Goostman, Alexa (2014). He then talked about classifications of AI such as strong AI and week AI, followed by the evolution of outcomes and solutions provided by Artificial Intelligence (AI). Further, he discussed about the industrial evolution from mechanical to Cyber Physical World, which has evolved over a period of time, converging Information and Operational Technology. He gave a detailed overview of technologies encompassed by Artificial Intelligence such as, virtual agents, robotic process automation, natural language processing, image recognition and machine learning. Then he discussed about various components of Artificial Intelligence (AI), emerging AI technologies and solutions, how AI play an important role in modern world in various fields like banking, healthcare, transportation, communications etc. Further, he also discussed about how different levers were useful to create value from AI, that each AI value lever delivers specific and tangible benefits to the enterprise. Later, he talked about risks and challenges of AI, and shared an example how AI is used to diagnose the COVID 19. Finally, he gave an overview of opportunities in the field of Artificial intelligence. The webinar was attended by 75 participants of Science and technology stream, who participated with a lot of zeal during the interactive session with the speaker. Webinar ended with a vote of thanks.

April 18th
2020

MACHINE LEARNING FOR COVID-19 AN EXAMPLE OF THE PRINCIPLES OF SENSE, COMPREHEND AND ACT

Drone based monitoring for COVID19 suspects

Smart Helmets based detection for body temperature and COVID19 suspect

CCTV based Social Distance monitoring and alert

Image Source: <https://www.foxnews.com/health/coronavirus-ai>

AI RISKS AND CHALLENGES

UNINTENDED CONSEQUENCES

COMPLIANCE CHALLENGE

OPPORTUNITY TO UNLOCK TRAPPED VALUE

Webinar on “Research and Innovation opportunities for seeking a solution to covid-19 pandemic”

Funding opportunities for innovations

COVID-19 HOW DOES IT AFFECT YOU?

Airlens Minus Corona

- IIT and AIIMS alumni have developed a device called Airlens Minus Corona that will travel on streets to sterilise the city.
- It will sterilise the surfaces which may cause the spread of the coronavirus in hospitals, bus stops, railway stations, shopping malls and other public places
- It electrifies water droplets to kill coronavirus using charged or ionised water droplets.
- Such ionised water droplets can help in the oxidation of viral proteins into non-harmful molecules. Oxidation is one of the most potent antimicrobial tools.

Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on “**Research and Innovation opportunities for seeking a solution to covid-19 pandemic**” on **22nd April 2020** to make the students aware of the health risks posed by Covid-19 and the ways in which science and technology may be used to seek viable solution in a short time. The speaker of the day **Dr. Ashwin Kotnis**, Associate Professor, Department of Biochemistry, All India Institute of Medical Sciences (AIIMS) Bhopal, Madhya Pradesh who was welcomed by Dr. Srinadh, Incubation Consultant, KUTIC and introduced by Prof. Anurekha Sharma, Coordinator KUTIC the faculty and the students. Dr. Ashwin Kotnis gave an insight into outbreak of Coronavirus, factors affecting Covid19 and the challenges of tackling of corona virus. He gave a detailed overview of how SARS CoV2 virus can cause the Covid19 disease affecting various organs of the body. He emphasized the role of R&D in finding a viable solution to tackle pandemic by making lost cost herbal/organic sanitizers, masks, ventilators, drug development, etc. He discussed few innovations from the students from different part of the country and world for detection and prevention of COVID-19. He encouraged the students to come up with innovative solutions to detect SARS-Cov2 by developing low cost technology based on AI and mobile applications and use the knowledge of life sciences for development of PPE, masks and drugs. He gave an overview of funding opportunities, which can give a kick-start to their ideas and translate them into viable innovative products. He also assured the students of all help at his end and urged KUTIC to consider the possibility of signing an MOU with AIIMS, Bhopal. The webinar, was attended by around 100 participants, who participated with a lot of zeal in the interactive session with the speaker. Webinar ended with a vote of thanks.

**April 22nd
2020**

Drones

Students from IIT, Guwahati have made a drone equipped with an automated sprayer. This drone can be used to sanitise public areas like roads, parks, which could help in preventing spread of coronavirus.

Network analysis for repurposing of drugs

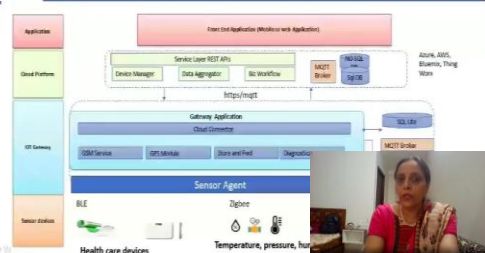
Webinar on “Embedded Systems and Internet of Things”



Embedded systems examples In Your Daily Life



Architecture of IoT



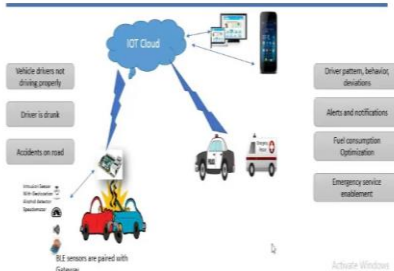
Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on “**Embedded Systems and Internet of Things**” on **02nd May 2020**. The speaker of the day **Ms. Rajani Bhandari**, Senior Manager, Accenture Technologies Ltd. Bengaluru, who was welcomed by Dr. Srinadh, Incubation Consultant, KUTIC and introduced by Dr. Reeta Devi, PAG Member, KUTIC. Ms. Rajani Bhandari, introduced the audience to Embedded systems, its specific functions, how embedded software is in every electronic devices used in our daily life such as mobile phones, digital camera, washing machine etc. She then discussed about embedded systems and its importance in IoT, their characteristics of real-time computing, low power consumption, high availability which are becoming key enablers of IoT. She also introduced the audience about need of Internet of Things (IoT), how IoT connects all the potential devices to interact with each other by using internet to provide comfort life to humans. How network physical objects such as devices, sensors, actuators that are connected on the internet, how each connected object is uniquely identified and has the ability to transfer data over a network without a human to human or human to computer interaction. Then she gave a detailed overview of IoT, characteristics of IoT, fundamental components of IoT such as sensors/devices, gateway, cloud and user interface and architecture of IoT. Followed by detailed discussion on applications of IoT in various fields such as logistics and supply chain, vehicle monitoring and accident rescue, healthcare, agriculture, and mines. Further, she discussed the challenges in IoT such as security, privacy, handling huge data volumes, real time actions and complex event processing. Later, she discussed about edge computing and data storage closer to the device to reduce latency issues and how IoT enables device monitoring and controlling efficiently in real-time. Finally, she interacted with students and discussed the opportunities in the field of IoT. The webinar was attended by 130 participants, who participated with a lot of zeal in the interactive session with the speaker. Webinar ended with a vote of thanks.

May 2nd
2020

IoT in Agriculture

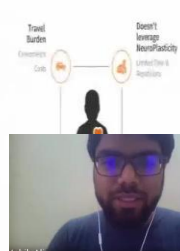
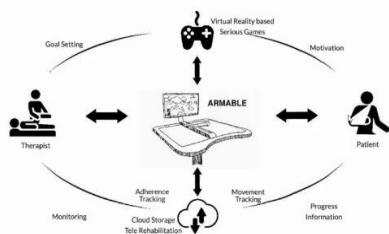


Vehicle Monitoring and Accident Rescue



Webinar on “ARMABLE – A Game Based Arm Rehabilitation Device”

PATENTED ARM REHABILITATION DEVICE PROBLEM



Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on “**ARMABLE – A Game Based Arm Rehabilitation Device**” on **02nd May 2020**. The speaker of the day **Mr. Habib Ali**, Founder & CEO, Beable Health, Hyderabad, who was welcomed by Dr. Reeta Devi, PAG Member, KUTIC and introduced by Prof. Anurekha Sharma, Coordinator KUTIC. Mr. Habib Ali, started his talk by interacting with the students about entrepreneurship, and risk management in entrepreneurship. Then he shared his personal experiences regarding his academics, work experience, passion for entrepreneurship and how he has started his Beable Health startup. Later, he introduced the audience a four step process, observe, problem, Needs statement and Outcomes, how one can be successful regardless of field whether it is a job or startup. Focusing on startups, he further emphasized on four step processes, how one should observe what’s happening around them, identify the problem that people are facing, identifying the need of people and finding the solution which leads to successful startup. He also introduced the audience about his innovative arm rehabilitation device, which aimed at neuro-rehabilitation of stroke victims and rehabilitating upper motor impairment victims due to conditions such as cerebral palsy, multiple sclerosis, traumatic brain injury, fracture, frozen shoulder etc. He also stated that, the innovative device “ArmAble” addresses a growing need for the upper limb for intensive, stimulating and regular rehabilitation therapy. Further, in his insightful presentation, he projected the working of Armable rehabilitation device used by various paralyzed people. The webinar was attended by around 100 participants, who participated with a lot of zeal in the interactive session with the speaker. Webinar ended with a vote of thanks.

May 9th
2020



Tech Talk on “Arduino Programming”.

ARDUINO TECH-TALK

Parshant

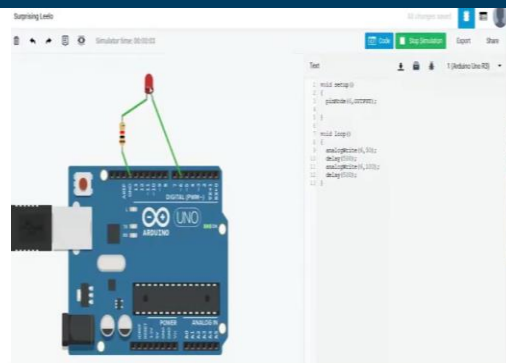
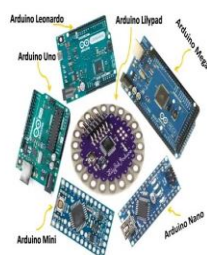
WHAT'S ON YOUR ARDUINO



Kurukshetra University Technology Incubation Centre (KUTIC) opened its first students “Tech Talks” (Online) activity, a talk series on business ideas and technology-related topics during lockdown to encourage and motivate the students to broaden their skills on various technology related areas. Dr. Ashwani Mittal, PAG member, KUTIC has given the welcome address and asserted why student Tech Talks were important. The first “Tech Talk” was held on 13th May 2020 and the title of the talk was “**Arduino Programming**”. Mr. Vikas Varma, Founder: M/s Electromotive Engineers at HSIIDC, Saha, was the Technical expert for the event. The invited talk was preceded by short speech by Mr. Vikas Varma. He shared his valuable experiences on Embedded Systems, Digital Electronics and Power Electronics. He appreciated the KUTIC community for the great initiative and congratulated the speaker for his good start. **Mr. Parshant**, of M.Sc. Electronic Science, KUK was the speaker of the day. Mr. Parshant, started his talk by introducing himself and gave an insight of his talk about arduino programming. He gave a detailed overview of Arduino, the essential components of Arduino and how arduino platform is used to build the projects in the field of electronics. He also introduced to the audience about different types of arduino such as Arduino Nano, Arduino Mini, Arduino Uno etc. and suggested Arduino Uno is one of the most popular boards in the Arduino family and a good choice for beginners. Further, he gave a detailed overview on Thinkercad, and how thinkercad is used for 3D design, electronics and coding. Besides this, he also gave a live demo to audience regarding how to program in arduino by explaining step by step instructions. The Tech Talk was attended by 75 participants from Science and Technology stream, who participated with a lot of zeal during the interactive session with the speaker. Tech Talk ended with a vote of thanks.

May 13th
2020

DIFFERENT TYPES OF ARDUINO



Webinar on "A Multidisciplinary Systems Approach To 21st Century Education 4.0 Based Experiential Learning, For Enabling Employment, Research, Innovation & Entrepreneurship"

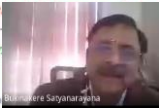
A Multidisciplinary Systems Approach To 21st Century Education 4.0 Based Experiential Learning For Enabling Employment, Research, Innovation & Entrepreneurship

Prof. B. S. Satyanarayana Ph.D (Cambridge UK)

Founder & CEO, Satya Bharathi Consultants, Bangalore

Emeritus Professor & Strategic Consultant (Munich)
Executive Financial Advisor

Former Founder Vice Chancellor, BML Munshi



Global Innovation Index (GII)2019

India Ranked 52nd /129 Nations (GII)

- | | |
|---------------------------------|-----------------------------|
| 1. Switzerland (number 1) | 11. Korea, Republic of (12) |
| 2. Sweden (3) | 12. Ireland (10) |
| 3. United States of America (6) | 13. Hong Kong (China) (14) |
| 4. Netherlands (2) | 14. China (17) |
| 5. United Kingdom (4) | 15. Japan (13) |
| 6. Finland (7) | 16. France (16) |
| 7. Denmark (8) | 17. Canada (18) |
| 8. Singapore (5) | 18. Luxembourg (15) |
| 9. Germany (9) | 19. Norway (19) |
| 10. Israel (11) | 20. Iceland (23) |

Indian ranks 77th in global Sustainable Development Index (SDI)

Assessment based on about 116 indicators

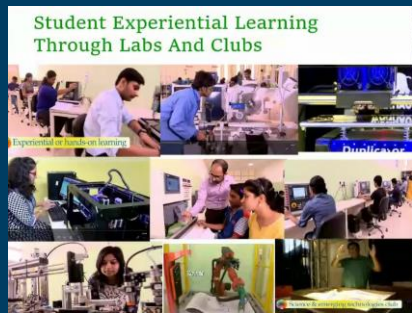
broadly grouped into 5 sub-indexes:

- Natural Capital,
- Resource Efficiency & Intensity,
- Intellectual Capital,
- Governance Efficiency, and
- Social Cohesion.



Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on "A Multidisciplinary Systems Approach To 21st Century Education 4.0 Based Experiential Learning, For Enabling Employment, Research, Innovation & Entrepreneurship" on 16th May 2020. The speaker of the day Prof. B. S. Satyanarayana, Founder & CEO, Satya Bharathi Consultants, Bengaluru, who was welcomed by Dr. Hardeep Anand, PAG Member, KUTIC and introduced by Prof. Anurekha Sharma, Coordinator KUTIC. Prof. B. S. Satyanarayana, in his talk introduced his organization Satya Bharathi consultants' vision and approach. He also shared his organization's principle is to Teach, Reach and Enshrine. In his lecture, Prof. B. S, Satyanarayana, emphasized on education and learning for education 4.0, how universities must align their teaching with technical developments in order to prepare potential students for the opportunities by integration of skills in curriculum documents, it is also necessary to indentify the knowledge levels and skills at both practice and policy level. It may be considered similar to replacing manual jobs with machine handled tasks that occurred in the 21st Century as a revolution. By stating, the key 21st Century skills will be 4C's Critical Thinking, Collaboration, Communication and Creativity. Then he gave an overview of current Indian higher education scenario, how India projected to be a \$ 5 Trillion economy by 2023, soon 600 Million people in the age group of 15 to 30 would need quality education and skilling. how education 4.0, 21st Century framework for skills and Industry 4 in the Era of knowledge economy is expected to be as learner centric, facilitating life long learning, multidisciplinary focused and ability to laterally and critically think and leverage the skills and competency. He then discussed about world intellectual property, shared his views on how countries like US, China and other European countries has filing Patents every year. Later, he introduced the audience about simple approaches to enable ourselves to be employable, innovative, research oriented and entrepreneurial. In his talk, he also stated that innovation can happen with a multidisciplinary approach and never with a linear or one-dimensional approach. Further, he also shared that, through multi-disciplinary immersive experimental and a system design thinking approach how they have been working towards outcomes in a systematic way. Finally, he also gave an overview about the industry, academic and government policy collaborations with their organization. The webinar was attended by around 150 participants, who participated with a lot of zeal in the interactive session with the speaker. Webinar ended with a vote of thanks.

May 16th
2020



Experiential learning Enabled projects



Webinar on “Student IDEA to Startup Journey”

Webinar:
Student iDEA to Startup journey

By:
Uday Wankawala
(CEO, AIC-RMP)

Purpose...close to your heart
Important for articulation

PASSION YOU ARE GREAT AT IT
MISSION YOU LOVE IT
PROFESSION YOU ARE PAID FOR IT
VOCATION THE WORLD NEEDS IT

-PURPOSE

Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on “**Student IDEA to Startup Journey**” on **22nd May 2020**. **Mr. Uday Wankawala**, CEO, Atal Incubation Centre-Rambhau Mhalgi Prabodhini, Mumbai, was the speaker of the day, who was welcomed by Dr. Ashwani Mittal, PAG member, KUTIC. Followed by, Prof. Anurekha Sharma, Coordinator KUTIC introduced the speaker to the audience attended the webinar. Mr. Uday Wankawala, began his talk by sharing his vast experience on startup ecosystem, guiding and mentoring various startups. He then discussed the process of Student idea to startup journey, how one can lead successful startup journey by considering some of the personality traits such as passion, setting a mission that we want change or solving a problem, to self-belief or confident on what we work on, hunger to learn more new things and being truthful. By presenting a graph, he gave a detailed overview of entrepreneurial journey, how one shall find a purpose through analysis of four components like Passion, Mission, Profession and Vocation. He also discussed about how a student can take an entrepreneur's journey and what are the opportunities to look out while studying. He then shared his working experiences with various student entrepreneurs and their startups, which includes Team Prayaas, Greensole, and Ashioto Analytics for their brilliant performances. Then he emphasized the steps to develop an idea for a business model. Followed by he gave valuable suggestions on how to use different platforms such as What's app, Facebook, friends, and other college network to effectively build a business while in college. Finally, he shared an foundation programme for budding entrepreneurs organizing by Atal Incubation Centre – RMP academy. The webinar was attended by around 150 participants, who participated with a lot of zeal during the interactive session with the speaker. Webinar ended with a vote of thanks.

**May 22nd
2020**

Steps in your journey

- Idea, Innovation (problems) & Idea validation
- Opportunity Evaluation (3Cs- Competition, Competency, Customer)
- Customer traction
- Experimentation
- MVP
- Business Model

ATAL
INCUBATION
CENTRE

Foundation Programme (Online) For Budding Entrepreneurs

INTRODUCTION

Why?

Innovation Entrepreneurship are the keywords in these challenging times as we see job loss, reverse migration, etc., young professionals will have to look at Startup as an alternative Career path.

By Whom?

Certified Entrepreneurship Educators & delivered by practicing entrepreneurs, Angel

Programme Day(s) & Time 04th June 2020 To 27th Ju



Webinar on "Leveraging Modern Tools of Communication to optimize your Entrepreneurial Initiatives"

Leveraging Modern Tools of Communication to optimize your Entrepreneurial Initiatives

by
Anil Jain

Ph.D. (BITS, Pilani)
President , Vaiseshika Electron Devices
Mentor & Advisor
Kurukshetra University
Technology Incubation Centre

Website

- The most potential and yet-to-be-explored field by the entrepreneurs to promote their product , services and capabilities.
- Build your website right from the first day of your Venture .
- Upload activities, papers



Kurukshetra University Technology Incubation Centre (KUTIC) organized a webinar on "**Leveraging Modern Tools of Communication to optimize your Entrepreneurial Initiatives**" on **30th May 2020**. The speaker of the day **Dr. Anil Jain**, President, Vaiseshika Electron Devices, Ambala Cantt. who was welcomed by Dr. Srinadh, Incuabtion Consultant, KUTIC and introduced by Dr. Reeta Devi, PAG Member KUTIC. In his talk, **Dr. Anil Jain**, gave his opening statement on importance of communication as a fundamental need of a human being to interact with the fellow beings. He then shared his views on tools of communication used in earlier days such as message on a piece of paper tied to the feet of pigeon (Pigeon mail), telegraph conveying short messages instantaneously through Morse Code, letter writing and fax machine a photocopy of the written textual and printed message and documents. Further, he introduced, how communication technology is advancing rapidly by creating an impact on modern entrepreneurship. He then emphasized on how modern tools such as Website, LinkedIn and YouTube can be used by the entrepreneurs to promote their product, services and capabilities. He also shared an example how a 6 Year Old South Korean Girl makes 6 million US \$ in 2 Years with the help of YouTube. Finally, he gave a valuable comment to the participants especially to the students, "Leveraging Modern Tools of Communication is your prerogative .You can encash it or you can squander it". Anything available Free-of-Cost has more chances of being "WASTED". For an entrepreneur, it is needed to connect with others and foster relationships through powerful communication tools for entrepreneurial success. The webinar was attended by 180 participants, who participated with a lot of zeal in the interactive session with the speaker. Webinar ended with a vote of thanks.

May 30th
2020

LinkedIn

- International Community of experienced peers and specialists.
- LinkedIn provide connectivity to you with potential mentors across the globe.
- Start Communication through search of potential sta



Sumit Kansal
PLS REMOVE UMA FLIP ASAP



ACKNOWLEDGEMENTS

Kurukshetra University Technology Incubation Centre (KUTIC), would like to express sincere and deep sense of gratitude to **Prof. Manjula Chaudhary**, Dean Academic Affairs & Nodal RUSA Officer for the initiating the Technology Incubation Centre at Kurukshetra University, Kurukshetra and providing guidance throughout the development of Incubation Centre.



Prof. Manjula Chaudhary,

Dean Academic Affairs & Nodal RUSA Officer, KUK

Backbone of KUTIC: Student Co-ordinators

Kurukshetra University Technology Incubation Centre (KUTIC), would like to thank all the student co-ordinators for actively helped in organising all the activities organized by KUTIC. Without their diligence and hard work, KUTC wouldn't have been able to meet its deadlines.

- Vikramjeet
- Manisha Solankey
- Ankita
- RIMPY KAMBOJ
- Mahak mittal
- Anuj Sharma
- Vipin Bala
- Veena
- Kunal Malik
- Shruti
- Sheetal Kaushik
- Aanchal
- Ajay Sharma
- Himanshu Jain
- Amit Tanwar
- Sewata Goyal
- Arun Kumar
- Soubhagya Parida
- Govind
- Harpreet Kaur
- Vinod Kumar
- Parshant Sharma
- Jitin Gera
- Madhu Sharma
- ROHIT SHARMA
- Rajat Kumar
- Tanya Kaushal
- Jorawar Bura
- Gurpreet Kaur
- Dwaraka
- Nishtha Chuhan
- Anju Devi
- Rajendra Gupta
- SHALEEN
- Mridula Mittal
- Manisha yadav
- Manisha Yadav
- Yoginder Singh
- Sunabh Garg
- Sonu Devi
- Hardeep Kaur
- Satender Kumar
- Upasana
- Nikitha Phogat
- Harpreet Singh
- Chetan Kumar
- Kalpana Bishnoi
- Sanjeev
- Guramrit Singh
- Dharam Dass
- Manisha Chauhan
- Nikita
- Sunil Kumar
- Sabeena
- Rajiv Kumar
- Itra Singh
- Om Prakash
- Harsh
- Amit phogat
- Inderjeet Singh
- Manisha
- Annu Kaushik
- Simran Arora
- Sheetal Yadav
- Harpreet Kaur



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KUTIC

Kurukshetra University Technology Incubation Centre

Technology Incubator

Kurukshetra University, Kurukshetra

