



J-HUB, JNTUH **News Letter for the Year 2019-20**

Director's Message

JHUB is a University's Innovation Ecosystem envisioned to nurture the culture of Innovation, excitement in creating new products and solutions to real time problems for the benefit of the society. It's an opportunity for students to try out their first venture while on campus. It is a unique platform of programs, networks, mentors and facilities to test their innovation mettle and tech startup incubation.



Vision

J-Hub is envisioned to be recognized as a leading hub of innovation, research translation, tech-product development and knowledge intensive tech-startup incubation.

Mission

The mission of J-Hub is to nurture and catalyse ideas, match the strength of student talent and R&D across the university with the entrepreneurship and networking opportunities in the region and globally to incubate tech-enterprises and solutions.

J-HUB Goals

Short-Term Goals:

1. To seed innovation and entrepreneurial spirit in all the engineering graduates of the university.
2. Develop in graduates knowledge, understanding and skills from different disciplines to design and create products impacting the quality of the graduates coming out of the university.
3. Identify brilliant ideas and support translation of such ideas to successful products.

Long Term Goals:

1. To incubate tech-enterprises out of research findings that will promote technological innovation.
2. Collaborate and co-work with relevant stakeholders on innovation and entrepreneurship development for tech-enterprises.
3. Develop a complete innovation eco-system to build in students entrepreneurial confidence and incubate tech-startups.
4. To become the focal point for tech-solutions and tech enterprises.
5. To attain Self-Sufficiency in conducting all activities planned in J-Hub

About JHUB

The JNTUH -Innovation Hub (J-Hub) is a University Wide Innovation Initiative that fosters the culture of Innovation and empowers creative graduating engineers, faculty, research scholars and alumni to pursue innovation, applied research and knowledge intensive tech-startup incubation.

The Innovation Hub offers access to its stakeholders, a spectrum of programs, experts, labs, collaborators, networks and spaces to catalyze innovation, knowledge intensive businesses and tech-enterprises and concurrently equips the graduates with skills to compete for and succeed in high demand jobs.

Model of J-Hub

Launched in January 2018. J-HUB works in a Hub and Spoke model with JLABS at constituent and affiliated colleges to seed the dynamic culture of innovation and the central JHUB at the University campus to develop the knowledge, skills and experiences in translating ideas to products and start-ups. Around 90 constituents/Affiliated colleges have established J-Labs to seed in the dynamic culture of Innovation and host a calendar of events to advance the University's strategic objective to achieve excellence through innovative mindset. Winning teams from college level get deeper enblement and focussed help at university campus to catalyse ideas, match the strength of student talent and R&D across the university with the entrepreneurship and networking opportunities locally, national level and globally to incubate tech-enterprises and solutions critically relevant to the society.

Activities

Hackathon League 2019

The first official Hackathon league organised by JHUB was themed 'Sustainable Development Goals'. The 17 Sustainable Development Goals (SDGs) prescribed by the United Nations are believed to stimulate and align student innovations in the areas of critical importance to the world in general and India in particular. A series of 15 Hackathons have been organised across different institutions in the State during Jan-Feb 2019. The Vice Chairman of AICTE - Dr. Poonia, along with the Vice Chancellor of JNTUH, have formally launched the league. With 200-250 students participating in each of the Hackathons, the Hackathon league saw a participation of over 3500 students from about 60 colleges. The students have picked a few industry 4.0 skills such as AIML, IOT, Block-chain etc., during the Workshops conducted at the Hackathons. The innovative minds hacked for over 36 hours at a stretch to build a prototype of their idea on Health care, Agriculture, Water Conservation, Industry and Infrastructure. Students ideated and hacked overnight to demo their proof of concept. Nearly 450 ideas have been demoed in all. The Top 3 teams of each of the Hackathons have been invited for a Bootcamp at JHUB to compete for the Top 20 of the University. With a Strong Mentor Connect from Industry, Alumni and HYSEA Innovation Forum, the students have received the best of mentoring in this journey.

Central Hackathon for winners of the 15 Hackathons was held at JHUB. It was composed of a 3 day Bootcamp during March 16-18, 2019, on Ideation, 23rd March, 2019, Prototype Demonstration, and 29-30th March 2019, for Internal Screening/External Jury Presentations and Award Ceremony.

A total of 169 students who were winners at various Hackathons conducted in the league have registered for the Central Hackathon. As part of the Central Hackathon during March 16-18, 2019, Ideation Screening was done using 5 panels, each comprising of 2 jury members from Industry, and Faculty Mentors from various colleges. During this period a training session was also conducted on Business Plan, IoT, Presentation Skills, AI/ML on March 18th, 2019. 94 students have been shortlisted to work on 18 different ideas with one Industry Mentor and one Faculty Mentor.



Make it to



J-HUB HACKATHON LEAGUE

Scan the QR code to register:



Time to hone your skills


Platform to demonstrate your Innovation Quotient


Challenge your Disruptive Mettle

Engage with a Passionate Community

THEME:

INNOVATE FOR SUSTAINABLE DEVELOPMENT

Dreams to start-up 

 <p>SMART MACHINES JNTUH college of engineering hyderabad 21-22 December 2018</p>	 <p>AGRI-TECH & RURAL DEVELOPMENT Anurag group of institutions 21-22 December 2018</p>	 <p>RURA-THON CMR Engineering College 04-05 January 2019</p>
 <p>AGRI-TECH & RURAL DEVELOPMENT Geethanjali College of Engineering and Technology 05-06 January 2019</p>	 <p>RUTWHA JNTUH College of Engineering Jagdal 07-08 January 2019</p>	 <p>AGRI-TECH & WATER CONSERVATION JNTUH College of Engineering Manthani 09-10 January 2019</p>
 <p>RENEWABLE HACK JNTUH College of Engineering Sultanpur 10-11 January 2019</p>	 <p>WOMEN SAFETY Malla Reddy Engineering College for Women 11-12 January 2019</p>	 <p>ENERGY CONSERVATION CVR College of Engineering 11-12 January 2019</p>
 <p>SKILLING ENGINEERS FOR RURAL INDIA ACE Engineering College 18-19 January 2019</p>	 <p>MEZZANINE TECHNOLOGIES & DIGITAL TRANSFORMATION VNR VJIT 18-19 January 2019</p>	 <p>HEALTH-TECH & AGRI-TECH Spoorthy Engineering College 19-20 January 2019</p>
 <p>SMART AUTOMATION SOLUTIONS FOR MSME Sreenidhi Institute 01-02 February 2019</p>	 <p>HACK FOR FARMING Vidya Jyothi Institute of Technology 02-03 February 2019</p>	 <p>AGRI-TECH & WATER CONSERVATION Nalla Malla Reddy Engineering College 07-08 February 2019</p>

Our Partners:



EXCITE 2019

EXCITE 2019, A six week Product Engineering workshop focussed on Innovation and Value centred product development has concluded on June 30th 2019. While many of the Engineering students vying placement opportunities have joined coaching centres during summer, there are a few who challenged their innovative mettle to create tech product solutions at JHUB, JNTUH. Teams of students pursued their Innovative Ideas for the past six weeks to build product prototypes with active support from Industry mentors, CEOs of startups and serial entrepreneurs. 30 teams of Engineering students with winning ideas at various Hackathons have experienced hands-on product Engineering to build market centred solution with IoT, AI and Blockchain technologies. The unique value of the workshop was that the participants had a chance to meet and interact with nearly 40 mentors during the six weeks as they built their Innovative products. The students had the opportunity to present their prototypes before the Grand Jury consisting of startup enablers, Investors, serial entrepreneurs. Delivering the valedictory address the Vice-Chancellor JNTUH Prof. A. Venugopal Reddy has emphasised the need for Innovation to succeed in the knowledge society. He said the University being cognizant of the need of Innovation and tech- startup incubation has taken a lead in establishing JHUB. JHUB would be a platform for Innovation Ecosystem where the students can pursue their innovative ideas and tech-startup incubation. Mr. Deepak Kumar Pelluru Vice-president Infosys Ltd, Hyderabad in his address called for product development with greater focus on developing niche for oneself, Research on world wide developments, system level design, scalability and Unique and compelling User Experience during product development . Mr. IsaacRajkumarHysea Innovation forum has highlighted the need for focus on Security and Privacy and Data Visualization in the digital age.Prof.N.Yadaiah Registrar JNTUH spoke on the occasion and motivated the students to make best use of the JHUB platform in converting their ideas to startups.

The most promising products based on their Uniqueness, Execution and Impact Creation have been announced at the Valedictory Session.

1. Sparcar – A parking solution for inadequate parking lots for cars
 1. Talking Fingers - AI based sign language to audio conversion system to help dumb people communicate effectively
 2. Automatic book Lending machine – A Kiosk for automatic book lending and return in Libraries
 3. Compact Bin – Plastic waste management System
 4. iNetra - Connecting the rural patients to Expert ophthalmologists for early detection of eye diseases
 5. Smart Airpurifier – An economical airpurifier for congested and polluted places
 6. Smart Cane – An aid for the blind to warn dangers of obstacles and fire
 7. Smart Band for senior citizens - A gesture based IoT device for senior citizens to aid communication and fall prevention.

ENLITE 2019

ENLITE 2019 kickstarted at JHUB on 1st June 2019 morning 10 am. After the mandatory registrations were done the students started the day by evaluating their individual ideas in the framework given in forenoon. Post that they pitched the individual ideas and out that the facilitators Director Jhub and Dr.Radhika Meenakshi selected 20 ideas.



On 2nd the students took a self assessment test to understand their style of entrepreneurship and then proceeded to form teams of five with diversity criteria given for gender and college. Eighteen teams formed and the ideas allotted.

On 3rd the teams started Lean business model canvas wherein they learnt to build 3-4 versions of the business with their ideas. They also went for market survey.

On 4th the team did competition analysis in the afternoon while in the morning they had guest talks from renowned product managers.

5th June went out for market research survey.



On 6th June the teams did an entire day sessions on understanding Markets, segmentation target and positioning of their market mix.

On 7th June the teams were exposed to 7 young entrepreneurs who shared their story and took part in a panel discussion themed challenges of startups.

On 8th June the teams learned about finance, costs and revenues. And also learnt about pitching and business plan.

On 10th June the teams pitched their idea to an eminent jury of three entrepreneurs from BYST and AIC -WE HUB

In all the teams were given 10 worksheets which were marked for submission time and content.

The final pitch carried 100 marks while the 10 worksheet and business plan report carried 150 marks. The winners were judged by the highest achieved out of 150.



There were good ideas like

- a. car protect shield,
- b. light weight school bag,
- c. oudormeter,
- d. farm help,
- e. bacteria scanner
- f. shoe bomb detector
- g. platform for startup
- h. posture detector etc



Enlite is game based dominantly on WADHWANI FOUNDATION'S VENTURE VOYAGER GAME. The WF VV kit for the game was used as worksheets for the Enlite students. All in all a good learning of entrepreneurial experience.

IGNITE 2019

TIME TABLE, RESOURCE PERSON AND PARALLEL SESSIONS OF THE PROGRAM

DATE	TIME	TOPIC	TRAINER	TIME	TOPIC	TRAINER
26/06/2019	09:30 a.m. to 11:00a.m.	SOFT SKILLS	ADITI MUNDHRA	09:30 a.m. to 11:00a.m.	EXPECTATION	AVANISH MUNDHRA
	11:30a.m. to 13:00p.m.	CREATIVITY	ADITI MUNDHRA	11:30a.m. to 13:00p.m.	IDEATION	AVANISH MUNDHRA
	13:30p.m. to 15:00p.m.	INNOVATION	ADITI MUNDHRA	13:30p.m. to 15:00p.m.	VISUALIZATION	AVANISH MUNDHRA
	15:30p.m. to 17:00p.m.	GROWTH MINDSET	ADITI MUNDHRA	15:30p.m. to 17:00p.m.	CREATIVITY	AVANISH MUNDHRA
27/06/2019	09:30 a.m. to 11:00a.m.	PLANNING	AVANISH MUNDHRA	09:30 a.m. to 11:00a.m.	COLLABORATION	NIHAR AGRAWAL
	11:30a.m. to 13:00p.m.	PROTOTYPING	AVANISH MUNDHRA	11:30a.m. to 13:00p.m.	APTITUDE	NIHAR AGRAWAL
	13:30p.m. to 15:00p.m.	EXECUTION	AVANISH MUNDHRA	13:30p.m. to 15:00p.m.	ENTREPRENEURSHIP	NIHAR AGRAWAL
	15:30p.m. to 17:00p.m.	INNOVATION	AVANISH MUNDHRA	15:30p.m. to 17:00p.m.	CREATIVITY	NIHAR AGRAWAL
28/06/2019	09:30 a.m. to 11:00a.m.	EMPATHY	ABHIMANYU BHARDWAJ	09:30 a.m. to 11:00a.m.	CUSTOMER FEEDBACK	AVANISH MUNDHRA
	11:30a.m. to 13:00p.m.	STORYTELLING	ABHIMANYU BHARDWAJ	11:30a.m. to 13:00p.m.	PRODUCT EVOLUTION	AVANISH MUNDHRA
	13:30p.m. to 15:00p.m.	PROBLEM STATEMENT	ABHIMANYU BHARDWAJ	13:30p.m. to 15:00p.m.	MARKETING	AVANISH MUNDHRA
	15:30p.m. to 17:00p.m.	DESIGN THINKING	ABHIMANYU BHARDWAJ	15:30p.m. to 17:00p.m.	FINANCIAL MODELLING	AVANISH MUNDHRA

DETAILS AND OUTCOME OF THE SESSION

The sessions involved a lot of hand-on training sessions like:

- **30 circle exercise** – This exercise helped to think creatively and out of the box
- **Draw your neighbour's face** – This exercise helped to take out judgemental.
- **Make and fly a plane** – This exercise made them think beyond conventions and assumptions.
- **Ideating and making a business proposal** – This exercise allowed them to think empathetically, make a business proposal and present to all.
- **Make life size structures of Batsmen and Bowlers** – This exercise helped them to collaborate with strangers, work in a team and make something from nothing.
- **Design thinking - Finding problem statements** – This exercise made them ideate on a topic, find all the problems possible, discuss and zero down to the top most searing problem.
- **Design thinking – Prototyping** - Find the solution for the problem and prototype the same.
- **Design thinking – Expert advice and Customer Feedback** – Prototyping and evolving the product through expert advice and customer feedback.
- **Design thinking – Storytelling** – Presenting the final prototype to the world.

OUTCOMES

The students had clean and neat take-aways with the hands-on sessions, expert talks and feedback loops. Some of the key outcomes were:

- CREATIVITY and INNOVATION quotient of the students have more than doubled up.
- TEAMWORK & COLLABORATION has been instilled both in terms of working with friends and complete strangers.
- TEAM DYNAMICS – Managing the pros and cons of working in a team, working with a team lead, becoming a leader himself and leading from the front.
- EMPATHIZING – Knowing the pain is not enough, one has to feel it to create an acceptable solution to a problem statement.
- MINIMUM RESOURCES MAXIMUM UTILIZATION – Learn the art to do your best from what you got. Minimalism should be the theme of life.
- DESIGN THINKING – Find a problem, ideate a solution, prototype, collect feedback, evolve the prototype. This loop is the crux of design thinking
- ENTREPRENEURSHIP MINDSET – Think like an entrepreneur to curate a stable, affordable and scalable solution.

Device, smartphone app to make eye screening affordable

All-woman team of 4 engineering students mentored by J-Hub develops 'iNethra'

SPECIAL CORRESPONDENT
HYDERABAD

A team of four engineering students from a college affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, has developed a device and mobile app to make vision screening easy, accessible and affordable too.

iNethra, the product, comprises a handy, stick-like device with a lens on one end and connected to a smart phone camera on the other side. While this helps in clicking the retinal image of the patients, the mobile app helps in sharing and receiving information related to the eye condition. The clicked images are uploaded to the app for the doctor to access and analyse them. There is a provision in the app for the doctor to note details about the eye condition, provide tips and if required refer them to hospitals, said K. Bhavya Sri and D. Neelima, two members who received a certificate on behalf of the team for participating in 2019 national cohort of the Boeing University Innovation Leadership Development programme.

The certificate, presented to them by IT Secretary



iNethra team members D. Neelima and K. Bhavya Sri with the prototype of the eye screening device at T-Hub on Monday. • N. RAVI KUMAR

Jayesh Ranjan at an event in T-Hub on Monday, said they have successfully completed the regional level workshop held earlier this month at T-Hub Foundation. M. Srija and D. Sai Sowmya are the other members. Aiding them was J-Hub, the incubator at JNTU, by way of mentoring, shaping their idea and business plan and making connections with doctors, according to Ms. Bhavya Sri.

On the way forward, Ms. Neelima said with the prototype in hand, the team looked forward to getting funds to take the project forward and simultaneously improvise the device and cut down the costs. Initially, the plan is to pursue a B2B (business-to-business) model under which partner eye clinics would approach patients coming to public health centres.

Mr. Ranjan, who is also

We are looking forward to getting funds to take the project forward and simultaneously improvise the device and cut down the costs.

D. NEELIMA
Team member

officiating as Vice-Chancellor of JNTU, told the Entrepreneurship Day celebrations at T-Hub how Hyderabad boasts of a strong start-up eco-system, including the high quality J-Hub incubator. The affiliated colleges of JNTU too have set up their own incubator and with J-Hub connected on a hub and spoke model.

Tracing the growth of the "vibrant and dynamic innovation eco-system" of Hyderabad and the emergence of T-Hub, the senior official said a lot has changed including the mindset of people towards start-up and entrepreneurship. T-Hub CEO Ravi Narayan, founder of Thickshake Factory M. Yeshwant Nag, GrabOn founder Ashok Reddy and MapMyGenome founder Anu Acharya participated in a panel discussion.



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