

PROFORMA FOR SUBMISSION OF PROGRESS REPORT

Name of HI/NewGen IEDC	L.J INSTITUTE OF ENGINEERING & TECHNOLOGY NEWGEN IEDC
Name of the Chief Coordinator	Ms Debopriya Chakroborty
Period under Review	November 2018 to October 2019

1. Initiatives/Activities Undertaken as per the Action Plan Submitted:

[A] To inculcate the spirit of innovation and entrepreneurship amongst S&T students

Sr. No.	Activities	Outcome/Achievements
1	IoTthon	A workshop aimed at developing the skills of students in the domain of Internet of Things. During this workshop, they learned interfacing of sensors with cloud and techniques to collect data from remote places.
2	Presentation skills	It was organized for students of all branches. During our incubation interactions, we noticed a lot of void in the presentation skills of students. Thus we planned and came up with a 2 day workshop on presentation skills in which we included refining the presentation pattern of the ideas with better clarity and confidence.
3	IoT Plug & Play	IoT being one of the emerging technologies, we found many students interested in involving this technology in their projects. But we also found that these students don't have much clarity about the in and out of the technology. Plug and play IoT, a session which gave them much breakthrough about the basic understanding of how IoT works in solving user problems.
4	Virtualty into reality	During the preincubation phase of our projects we have released rapid prototyping as a very important step in the pre commercialization phase. Never the less, rapid prototyping involves much more than just 3D printing. We aimed to created an atmosphere where we can provide an amalgamation of software and hardware portions of product designing, hence the session virtualty into reality
5	Architype	Find problems is an art which needs to be developed and to do this, we conducted a week long process where students were asked to visit places and find problems and then prepare a solution around it.

6	Stadd Pro	Civil engineering being the core engineering branch and the backbone of development of any country. But it still lacks innovation
7	Design Thinking Workshop	Some of the world leading brands such as apple, google and others follow the design thinking approach in growing their businesses. The best part of design thinking is, it doesn't have an exclusive right to be owned. It is a though process which needs to be imbibed irrespective of being an innovator or not. This workshop aims to empower the participants with pragmatic tools and techniques to enhance creative thinking and innovation in their budding businesses or even routine activities to obtain superior results.
8	Falcon (The Robotics Club)	Robots, Robotics A fascinating world of excitement, technology and development. In L.J.I.E.T, Robotics club named – “FALCON” which participates in regional, national level robotics events and also does robotics workshops. The journey of Robocon started from 2013 with a bunch of enthusiastic students. ROBOCON is an annual international robotics event conducted by Asia-Pacific Broadcasting Union (ABU) in different countries. Every year a new theme is introduced which brings about a fresh vibe in all the robotic-nerds. Generally, the theme of Robocon represents the culture of the country hosting the event. One team from each country represents and competes in the competition.
9	Blackhawks (The Automotive Club)	<p>Team Blackhawks is a team of L.J. institute of engineering and technology. The team consists up to 25 members of under graduate students and a faculty advisor. The team was started in 2014 by a group of auto enthusiasts students which designs, analysis, fabricate and construct All-terrain vehicle(ATV). We participate in various international and national competitions like SAE BAJA, MEGA ATV, ATVC, GTU ATV etc.</p> <p>In year 2020 team has its 6th edition since 2014 and has grew up significantly in performance. In 2014 our ATV weighed 375 kgs and by optimizing our design and material we reduced the weight of ATV to 152 kgs in 2020. We were able to reduce the weight by keeping safety as our No. 1 priority. Top speed of our ATV has been increased from 55 kmph to 74 kmph over the years. We also started making our own customized components by proper sound engineering technique in which we learn about the industry. We make our own customized ATV frame and other components by inhouse fabrication.</p>
10	IPR Awareness	We noticed that IPR awareness was not prevalent

		amongst students and thus we conducted a workshop in IPR awareness. This includes sessions on prior art search and then we applied for 40 provisional patents.
11	Code Geek workshop	We found a lot of students interested in designing apps and games of their own. We also found that apps and games have a lot of entrepreneurial potential if worked out well thus we conceptualized the code geek workshop.

[B] To identify, develop & commercialize students' innovative ideas

Sr. No.	Activities	Outcome/Achievements
1	L J Innovation Village	Acting as a driving force in building the backbone of the innovation ecosystem, L J has been organizing L J Innovation Village since 2013. It provides an opportunity to innovators to interact with students, faculties, industrial experts and potential seed investors. The additions and deletions during this process ignites a creative instinct in the innovator.
2	L J Startup week	L J Startup week comprises of <ol style="list-style-type: none"> 1. Idea Improvisation 2. BMC/TMC training 3. Market study 4. Product Development 5. Customer Validation 6. Lean Startup methodologies 7. Mentor – Innovator relationship building 8. Multi domain mentoring 9. 12-15 hours of rigorous mentoring 10. One to many mentoring
3	L J Institute of Innovation & Entrepreneurship	LJIIE is a finishing school for nurturing innovators and entrepreneurs. It is a 80-100 hours coursework. This course is designed for bridging the minute gaps which exists in the entrepreneurial journey of budding entrepreneurs. The special features of this coursework includes <ol style="list-style-type: none"> 1. 30+ mentors for prototype development or service building. 2. 10+ specific domain mentors 3. Financial support under central and state government.
4	The Patent Week	This is a step zero just before L J Innovation Village,

		we planned to go one step forward in the commercialization process by understanding the patentability of our innovations. We were successful in filing 40 provisional patents. In the coming year we are planning to file the final patents and fill another round of provisional patents.
5	Smart Gujarat Hackathon for New India	In collaboration with Department of Technical Education, Govt of Gujarat. We hosted the regional round of smart Gujarat hackathon. We catered around 1400+ attendees including students, mentors and industrial experts.

[C] To enhance Industry-Academia interaction

Sr. No.	Activities	Outcome/Achievements
1	Faculty Hackathon	A faculty hackathon was conducted for development of faculties in association with jhaveri associates. The idea was to provide faculties with real life challenge in construction industry. The faculties were asked to design customized houses.
2	L J Design Centre	A platform to develop the designing skills of students and faculties. The centre has now catered to over 500 students in industrial design. The centre has also started training industry professionals.
3	Master rooms for industries	This initiative aimed to increase the presence of industry inside academic campus. In this initiative we provide master rooms of a few industries in our IoT lab. This ensured that our projects got timely mentoring and the projects developed can be industry ready.
4	Financial Hackathon	This hackathon was launched in association with financial institutions to improve the economic literacy of students. Through this initiative, the companies were able to identify talent in financial sector.

2. Other important highlights (new initiatives), if any:

- We have developed the Industrial 4.0 compliant Lab for product Development and were able to get 3 companies on board for co-development.
- We have organized a pure fundraising event of upto 1 million dollars. We invited applications from all over India. Within a promotion of 15 days we got 55+ registrations, out of which we selected 10 best pitches and invited them for a closed door pitching in front of potential investors.