



## NOVATE+ 2021

### National Level Annual Hackathon

January- May, 2021

#### Brochure

**CALL FOR PROJECT PROPOSALS**

**NOVATE+ 2021**

**Confluence of Academia, MSMEs and Start-ups to Address Real World Problems**

**Funding Support of Upto INR 25 Lacs for 10 Projects**

**Cash prize of INR 5 Lacs to best project implementation**

ELIGIBILITY	THEME	SUBMISSIONS
<ul style="list-style-type: none"><li>Open to students, academicians, entrepreneurs, start-ups from anywhere in India</li><li>Collaboration with at least one MSME industry/start-up is mandatory</li><li>Endorsement letter must be obtained from the partner MSME industry/start-up</li></ul>	<ul style="list-style-type: none"><li>We look for project proposals that address real world problems faced by the MSME industries and start-ups of our country</li><li>Problem areas may vary from engineering, sciences to business management, IT solutions etc</li></ul>	<ul style="list-style-type: none"><li>Submissions are due by <b>January 31, 2021</b></li><li>Applicants are required to fill an online submission form – <a href="http://tinyurl.com/novate2021">tinyurl.com/novate2021</a></li><li>Team must include one representative from the partner MSME or start-up</li><li>Proposals will be reviewed by experts, and funding will be awarded to the shortlisted ideas</li></ul>

**Additional Information**

- Chitkara University has Govt. of India sponsored Technology Enabling Centre (TEC), where the prime objective is to develop an ecosystem in which university's research/technologies can be used by the MSMEs in addressing various challenges.
- Chitkara University has NewGen IEDC wherein funding support is given to academic projects with good commercial potential for building real world solutions.
- Chitkara University NewGen IEDC and TEC are going to anchor NOVATE+ 2021

**Organized by:** Chitkara University  
**Anchored by:** NewGen IEDC and DST Technology Enabling Centres (TEC)

Visit: [newgeniedc.chitkara.edu.in](http://newgeniedc.chitkara.edu.in) for more details  
Contact: [culedc@chitkara.edu.in](mailto:culedc@chitkara.edu.in)

#### Details of the Event

NOVATE+ is an annual competition organized by CURIN wherein innovative engineering ideas are awarded funding for developing advanced level prototypes. Overtime, this competition has become one of the biggest platforms in the region for showcasing innovative project ideas and for winning prototyping funding. In addition to funding support, this forum also provides a platform where participating teams receive mentoring, expert guidance and collaboration opportunities.

This year NOVATE+ 2021 was organized during January 2021 – May 2021 with a theme Confluence of Academia, MSMEs and Start-ups to Address Real World Problems. We encouraged students and faculty members to reach out to industry to understand their problems and submitted

joint projects in collaboration with industry partners. We aimed at supporting only those projects where there was a possibility of developing solutions that could be immediately deployed in field with support from industry partners. In order to facilitate industry collaborations, we identified several MSMEs in the region and we connected them with people from academia for writing joint projects for NOVATE+ 2021.

This idea of industry-academia collaborations for submitting joint projects was appreciated by the prospective participants and we received 79 entries in the competition with as many as 39 industries including MSMEs and start-ups participating in it. A panel of reviewers critically analyzed each of these project proposals and it recommended 22 projects for jury round. The jury round of the competition was held during April 16-17, 2021 and we had invited two seasoned industry professionals to witness the live presentations made by these 22 teams.

The jury comprised of four members:

- Dr. Shivraj Dhaka – *Counsellor, Indian Green Building Council*
- Mr. Sachin Bharadwaj – *DGM, Sigma Electric Manufacturing Corporation.*
- Dr. Sachin Ahuja – *Director, Research*
- Dr. Gurjinder Singh – *Assistant Professor* being the internal members from Chitkara University.

Jury round began with the keynote address by Dr. Archana Mantri – Vice Chancellor, Chitkara University, Punjab. She discussed about the importance of this year's theme and she laid emphasis on meaningful collaborations for doing good projects. Each team made a very compelling presentation that was applauded by jury members and after every presentation there were healthy and constructive discussions.

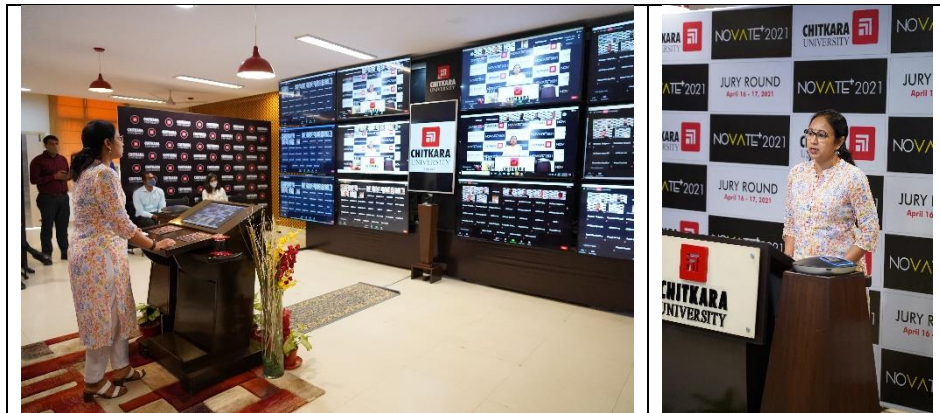
NOVATE+ 2021 was anchored by Chitkara University NewGen IEDC, Chitkara University TEC (both these entities have been set-up by DST, Govt. of India in Chitkara University), and Institution's Innovation Council (IIC). We also received support from industry who endorsed NOVATE+ 2021. Eco Laboratories & Consultants Pvt. Ltd, Medhaavi Center for Automotive Research, Genesis Controls, Sapiens Labs and Aujus Technology were the industry partners. Thanks are due to all the patrons of NOVATE+ 2021.

The core team from CURIN, Chitkara University that organized NOVATE+ 2021 included Sagar Juneja – Asst. Dean, Dr. Sachin Ahuja – Director (Research), Dr. Gurjinder Singh – Asst. Professor and Dr. Prateek Srivastava – Asst. Professor.

## 22 Finalists for the Jury Round

Day 1 – April 16, 2021	Day 2 – April 17, 2021
<ol style="list-style-type: none"> <li>1. Advanced Water Purification Device</li> <li>2. Automatic Carting Trolley</li> <li>3. Automatic Coil Winding Machine</li> <li>4. Automatic Water Surface Cleaner</li> <li>5. Bin Farming for Healthy Beings (Agronic Culture)</li> <li>6. Centralised Delivery and Management System</li> <li>7. Design of Nano-bubble Generator for STP</li> <li>8. Development of a Novel, Low-cost TOC on Line Analyser with UV Oxidation &amp; Conductivity as a parameter to measure Organic Content in Water</li> <li>9. Development of Carrier System of Ivermectin Targeting Lungs</li> <li>10. Diesel Engine Injector Driver Circuit</li> <li>11. Fire Alarm System</li> </ol>	<ol style="list-style-type: none"> <li>12. Fully Automated Timed Controlled Wireless Water Automation System</li> <li>13. Fully Automatic Bottle Labelling Machine for Pharma Industries</li> <li>14. High Temperature Erosion / Corrosion Behavior of Alloy Powder Coatings on Boiler Steels</li> <li>15. Home Composter</li> <li>16. Hybrid Electric Tricycle</li> <li>17. Hybrid Tea Vending Machine based on Solar Thermal</li> <li>18. Indigenous CCTV Camera Surveillance System</li> <li>19. IoT Enabled Automation System for Agriculture</li> <li>20. Liquid Filling and Sealing of Hard Gelatin Capsules</li> <li>21. Rodent Surgical Table</li> <li>22. Smart E - Education for All</li> </ol>

### Images of the Event



*Dr. Archana Mantri – Vice Chancellor, Chitkara University, Punjab delivered keynote address*

### Industry Partners



TE+ 2021

