

Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram [ARI-U-0455][U-0455]

Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

| Completion of Action Items (status as on 7th November 2022) | Status |
|--|--------|
| Registered in the NISP portal for I&E Policy Adoption | Yes |
| Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy | Yes |
| Institute has Action Plans for Implementation of the I&E Policy | No |

Contact:

| | |
|---------------|---|
| Faculty Name: | Dr Sudhir Varadarajan |
| Designation: | Associate Professor & Dean (Design, Innovation, Incubation) |
| Email ID: | sudhir@iiitdm.ac.in |
| Mobile No. | 9003041822 |

1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

| Annual Performances of IIC Institute | Stars Secured |
|--------------------------------------|---------------|
| IIC 1.0 (2018-19) | 1,2,3 |
| IIC 2.0 (2019-20) | 2.5 |
| IIC 3.0 (2020-21) | 3.5 |
| IIC 4.0 (2021-22) | 2 |

Contact:

| | |
|---------------------------------|---------------------------------------|
| IIC President of the Institute: | Dr Tapas Sil |
| Designation: | Dean (Design, Innovation, Incubation) |
| Email ID: | tapassil@iiitdm.ac.in |
| Mobile No. | 9444332542 |

1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

| Sr. No. | Name of the Faculty IA | Level of Training | No of I&E Expert Talks/Sessions Conducted |
|---------|------------------------------|-------------------|---|
| 1 | Dr S Jayavel | Basic | 0 |
| 2 | Dr. Pandiyarasan Veluswamy | Advance | 0 |
| 3 | P M Sriram Bhaskar | Advance | 0 |
| 4 | Dr Kumar Prasannajit Pradhan | Basic | 0 |
| 5 | Dr Sreekumar M | Basic | 0 |
| 6 | Dr Naveen Kumar | Basic | 0 |
| 7 | Dr Karthik C | Basic | 0 |
| 8 | Dr. Ram Prasad Padhy | Basic | 0 |
| 9 | Dr Senthil Kumaran | Basic | 0 |
| 10 | Dr Rohini P | Basic | 0 |
| 11 | Gokul Rajasekaran | Basic | 0 |
| 12 | VSS Iyer | Advance | 0 |
| 13 | Dr Jayachandra Bingi | Basic | 0 |
| 14 | Dr Priyanka Kokil | Advance | 0 |
| 15 | Dr Tapas Sil | Basic | 0 |

1.4) Participation in KAPILA/SIH Program

| | | |
|--|--------|-----|
| HEI Registered in the KAPILA Portal | U-0455 | Yes |
| HEI Participated in the Smart India Hackathon (2022) | U-0455 | Yes |

Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

2.1) Academic Courses in Innovation, Entrepreneurship and IPR

| Srno | Title of Course | Course Code | Academic Year | Type of Course | Level of Course | Course Offering Department/ Centre/ Unit Name | Total Credit Score |
|------|---|-------------|---------------|----------------|-----------------|---|--------------------|
| 1 | Systems Thinking for Design | DES201T | 2020-21 | Core Course | Bachelor | Department of Mechanical Engineering | 2 |
| 2 | Designing Intelligent Systems | DES203T | 2020-21 | Core Course | Bachelor | Department of Mechanical Engineering | 2 |
| 3 | Sociology of Design | MAN202T | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 4 | Entrepreneurship and Management Functions | MAN301T | 2020-21 | Core Course | Bachelor | Department of Mechanical Engineering | 2 |
| 5 | Sustainable Design | MAN301T | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 6 | Product Management | MAN303T | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |

| Srno | Title of Course | Course Code | Academic Year | Type of Course | Level of Course | Course Offering Department/ Centre/ Unit Name | Total Credit Score |
|-------------|---|--------------------|----------------------|-----------------------|------------------------|--|---------------------------|
| 7 | Design for Quality and Reliability | DES302T | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 8 | Data Analytics | MAN502T | 2020-21 | Core Course | Bachelor | Department of Mechanical Engineering | 2 |
| 9 | Innovation Management | MAN407T | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 10 | Innovation Studio | MAN407T | 2020-21 | Core Course | Bachelor | Department of Mechanical Engineering | 2 |
| 11 | Product Design Practise | INT303 | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 12 | Systems Thinking for Design | DES201T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 13 | Designing Intelligent Systems | DES203T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 14 | Sociology of Design | MAN202T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 15 | Entrepreneurship and Management Functions | MAN301T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |

| Srno | Title of Course | Course Code | Academic Year | Type of Course | Level of Course | Course Offering Department/ Centre/ Unit Name | Total Credit Score |
|-------------|---|--------------------|----------------------|-----------------------|------------------------|--|---------------------------|
| 16 | Sustainable Design | MAN301T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 17 | Product Management | MAN303T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 18 | Design for Quality and Reliability | DES302T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 19 | Data Analytics | MAN502T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 20 | Innovation Management | MAN407T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 21 | Innovation Studio | MAN407T | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 22 | Product Design Practise | INT303 | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 2 |
| 23 | Foundation for Engineering and Product Design | DS1000 | 2020-21 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 3 |

| Srno | Title of Course | Course Code | Academic Year | Type of Course | Level of Course | Course Offering Department/ Centre/ Unit Name | Total Credit Score |
|------|---|-------------|---------------|-----------------|-----------------------|---|--------------------|
| 24 | Foundation for Engineering and Product Design | DS1000 | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 3 |
| 25 | Smart Product Design | DS2001 | 2021-22 | Core Course | Bachelor | School of Interdisciplinary Design and Innovation | 3 |
| 26 | Bio-inspired Design | DES512 | 2020-21 | Elective Course | Bachelor, Master, PhD | Department of Mechanical Engineering | 3 |

2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

| Srno | Title of Course | Academic Year | Type of Certificate Program | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Program Start Date | Program End Date |
|------|-----------------|---------------|--|--|--|---------------------|---------------------|
| 1 | COVIDYA | 2020-21 | Entrepreneurship Development Program (EDP) | Central Govt. Agency | MaDeIT Innovation Foundation | 12-12-2020 00:00:00 | 24-12-2020 00:00:00 |

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

| Sr. No. | Type of the Unit | Name of Unit | In-charge Name | Contact no | Email | Govt. Schemes |
|---------|------------------|---------------|-----------------|------------|---------------------|---------------|
| 1 | Tinkering Lab | Tinkering Lab | Dr Naveen Kumar | 6369438985 | nkumar@iiitdm.ac.in | |

3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

| Sr. No. | Name of Unit | In-charge Name | Contact no | Email | Govt. Schemes |
|---------|------------------------------|-----------------------|------------|---------------------|------------------|
| 1 | MaDeIT Innovation Foundation | Dr Sudhir Varadarajan | 9003041822 | sudhir@iiitdm.ac.in | DST/NSTEDB/NIDHI |

3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

| Sr. No. | Type of the Unit | Name of Unit | In-charge Name | Contact no | Email | Govt. Schemes |
|---------|------------------|--------------|---|------------|----------------------|--------------------|
| 1 | IPR Cell | IPR Cell | Dr Jayachandra Bingi & Dr Ramprasad Padhy | 9940340934 | iprcell@iiitdm.ac.in | Seed Grant Support |

Section 4: Generation and Support of Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|---------|---|------------------------------------|---|--|------------------------------|--|
| 1 | Sparsh - Enhancing Tactile Feedback on Virtual Keyboard | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Shubham Gannamraju | Student |
| 2 | Remote water charging Technology | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | ANAKAPALLI SAHITHI PRAKARSHA | Alumni |
| 3 | Remote water charging Technology | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | ANAKAPALLI SAHITHI PRAKARSHA | Alumni |
| 4 | Viropana - The Robotic Nurse Assistant | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Manas Srivastava | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|-------------------------------|------------------------------------|--|--|---------------------------------|---|
| 5 | HazGuard | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | P. Harish Shanmugam | Student |
| 6 | Customer Dynamics | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Manas Sivakumar | Student |
| 7 | Smart Outdoor Digital Signage | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | S Abaethan | Student |
| 8 | Hydro-Sif | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Sam Prabhu | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|---|------------------------------------|--|---|---------------------------------|---|
| 9 | Health Monitoring Device | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Kunal Shilbhadra | Student |
| 10 | Slates with Footstep public power generation system | Academic Requirement/Study Project | 2021-22 | TRL 6 : Prototype system tested in intended environment close to expected performance | Marni Prujit | Student |
| 11 | Mirai | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Nimmagadda Sree Dhyuti | Student |
| 12 | EYE CANE | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | saurabh bijenian | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|-------------------------------------|------------------------------------|--|---|---------------------------------|---|
| 13 | Marsh Rover | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Samuel Tom Joseph | Student |
| 14 | Power Efficient Surveillance System | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | S.Karthikeyan | Student |
| 15 | VENUS | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Vyshnav K | Student |
| 16 | Anti-Sleeping alarm device | Academic Requirement/Study Project | 2021-22 | TRL 6 : Prototype system tested in intended environment close to expected performance | Ajmeera Pavan Kumar | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|---|------------------------------------|--|--|---------------------------------|---|
| 17 | Packman - Right Size Packaging | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | | |
| 18 | Alcohol detecting and vehicle ignition locking system | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | VISHAL K | Student |
| 19 | CleanLake - Microplastic Filtration System for Small Water Bodies | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Radhika Mittal | Student |
| 20 | SMART PLANT MONITORING SYSTEM | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | krishan yadav | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|---|------------------------------------|--|---|---------------------------------|---|
| 21 | Instant Braille code printer for blind people to identify objects | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | PALNATI RAHUL REDDY | Student |
| 22 | Jal Alert - Pipeline Monitoring System | Academic Requirement/Study Project | 2021-22 | TRL 6 : Prototype system tested in intended environment close to expected performance | Yash Kumar Sahu | Student |
| 23 | Self Cleaning - Monolithic Toilets | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Sukesh J R | Student |
| 24 | Smart Helmet For Mining workers | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Aman Chandra Pandey | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|---|------------------------------------|--|--|---------------------------------|---|
| 25 | MEDICINE DISPENSER | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | KANDREGULA VENKATA SAI KIRAN | Student |
| 26 | smart water tap | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Akhilshwar reddy varra | Student |
| 27 | Adjustable Wheel chair | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | K. Harsha Vardhan Reddy | Student |
| 28 | Network based EV charging system for communities and private spaces | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Abhishek | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|--------------------------------|------------------------------------|--|--|---------------------------------|---|
| 29 | Colling phone case | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | RISHAV PASWAN | Student |
| 30 | RAILWAY TRACK CRACK DETECTOR | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | PERUMALLA SRIKANTH KUMAR | Student |
| 31 | MRI compatible mattress warmer | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | sama aneesh | Student |
| 32 | Cahew Nut harvesting tool | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | KAMIREDDY NITESH | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|---|------------------------------------|--|--|---------------------------------|---|
| 33 | MODERN HEADLIGHTS SYSTEM | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | K SAHANA | Student |
| 34 | Manual control of Water Pump using mobile phone | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Chavva Manjunath Reddy | Student |
| 35 | walker to climb stairs | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | SHIVASHISH DASH | Student |
| 36 | Anti Collision System | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | CHRISTO TONY | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|--|------------------------------------|--|---|---------------------------------|---|
| 37 | Smart Concrete Curing System | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Yalamanchili Murari | Student |
| 38 | Vehicle Door Proximity Sensor | Academic Requirement/Study Project | 2021-22 | TRL 6 : Prototype system tested in intended environment close to expected performance | Santosh Dangi | Student |
| 39 | Euphony | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Taniya Satheesh Kulkarni | Student |
| 40 | Underground water pipe leak detection system | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | G Naveen Kumar | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|--|------------------------------------|--|--|---------------------------------|---|
| 41 | Enhanced Solution for medical organisation to decentralize data to avoid medical delays and data corruption. | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Shubh Pathak | Student |
| 42 | Bitcaller - Video Calling in low bandwidth. | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | P. Pranav Sai` | Student |
| 43 | SpecGrip | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Mohit Bhasme | Student |
| 44 | Extraction and Monitoring of Farms | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Ayush Bachan | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|--------------------------------|------------------------------------|--|---|---------------------------------|---|
| 45 | Bio-gas Digester | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Anupama | Student |
| 46 | PIEZOELECTRIC KEYBOARD | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Chetan Poorna Marti | Student |
| 47 | Smart Helmet | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Kakkad Yash Sanjay | Student |
| 48 | Inpackt - Right size Packaging | Academic Requirement/Study Project | 2021-22 | TRL 6 : Prototype system tested in intended environment close to expected performance | Chaitanya | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|---|------------------------------------|--|--|---------------------------------|---|
| 49 | Mobile application for depression | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | SHRADDHA SHUKLA | Student |
| 50 | Sun tracking solar panel | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | B. Srihari Naik | Student |
| 51 | Wi-USB Hub | Academic Requirement/Study Project | 2021-22 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Utkarsh Verma | Student |
| 52 | Semi-Automated Large Vessel Cleaning Machine | Academic Requirement/Study Project | 2021-22 | TRL 5 : Large scale prototype tested in intended environment | Chaganti Bhanu PrakashRaghava | Student |
| 53 | SMART Automatic Household Window Control System | Academic Requirement/Study Project | 2020-21 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Chirugudu Noah Sujiv Raj | Student |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|--|---|--|---|---------------------------------|---|
| 54 | Fraats - The Digital University Experience | Academic Requirement/Study Project | 2020-21 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Akula Vishal | Student |
| 55 | LitSAN: light based sanitizer | Independent Assignment/Non-academic Study Project | 2020-21 | TRL 9 : Full commercial application, technology available for consumers | Jayachandra Bingi | Faculty |
| 56 | Soil Moisture Management | Academic Requirement/Study Project | 2020-21 | TRL 6 : Prototype system tested in intended environment close to expected performance | Shaleen Agarwal | Student |
| 57 | The Dental gun | Academic Requirement/Study Project | 2020-21 | TRL 6 : Prototype system tested in intended environment close to expected performance | Hemanth Hanumanthu | Student |
| 58 | Leguerre Gaussian & Hermit Gaussian mode converter | Academic Research Assignment/Industry Sponsored Project | 2020-21 | TRL 9 : Full commercial application, technology available for consumers | Jayachandra Bingi | Faculty |

| Sr. No. | Innovation Name | Developed as part of | FY of Development (FY. 2020-21,2021-22) | TRL Stage | Team Lead/Innovator Name | Current Engagement of Team Lead in Institute |
|----------------|--|------------------------------------|--|--|---------------------------------|---|
| 59 | Joy of speaking and hearing, A collar mic for presenter and Android app for audience | Academic Requirement/Study Project | 2020-21 | TRL 5 : Large scale prototype tested in intended environment | Manas Kumar Mishra | Student |
| 60 | Segmented Recycling of Residential Wastewater for Non-Potable uses | Academic Requirement/Study Project | 2020-21 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | BURLE LAKSHMI SOUMYA | Student |
| 61 | LIFE SAVER DEVICE | Academic Requirement/Study Project | 2020-21 | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Pawan Kumar | Student |

Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

| Sr. No. | Startup/Venture Name | Startup/Venture Registered as | CIN No/LLP/OPC/RC No |
|---------|-------------------------------|--|---|
| 1 | Kameleon Technologies | Limited Liability Partnership Firm (LLP) | AAZ-0287 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/imPlace7299643.png) |
| 2 | Magronic Contrivance Pvt Ltd | Private Limited Firm (Pvt. Ltd.) | U29309PY2018PTC008264 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 3 | IRONMEN TECHNOLOGIES PVT LTD | Private Limited Firm (Pvt. Ltd.) | U93000TZ2021PTC037104 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 4 | WAY2GROW AGRITECH PVT LTD | Private Limited Firm (Pvt. Ltd.) | U01110TN2021PTC141462 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 5 | WAY2GROW AGRITECH PVT LTD | Private Limited Firm (Pvt. Ltd.) | U01110TN2021PTC141462 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 6 | SPACECOLD ENERGY SOLUTIONS | Private Limited Firm (Pvt. Ltd.) | U6300TZ2022PTC038120 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 7 | Kritan Innovation Enterprises | Limited Liability Partnership Firm (LLP) | 0000 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/imPlace,Business/Management Innovation5168920.jpeg) |

| Sr. No. | Startup/Venture Name | Startup/Venture Registered as | CIN No/LLP/OPC/RC No |
|---------|---|--|---|
| 8 | Chimertech Private Limited | Private Limited Firm (Pvt. Ltd.) | U72900TN2021PTC148404 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 9 | Scermlind Healthcare Innovations Pvt Ltd | Private Limited Firm (Pvt. Ltd.) | U93090TZ2019PTC031523 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 10 | HONEYCORE PRODUCTS PRIVATE LIMITED | Private Limited Firm (Pvt. Ltd.) | U21099TN2020PTC137636 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 11 | Fibtec Enterprises | SME Registered Unit (Valid GST No.) | null |
| 12 | VLOG Innovations LLP | Limited Liability Partnership Firm (LLP) | AAR-1274 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 13 | VLOG Innovations LLP | Limited Liability Partnership Firm (LLP) | AAR-1274 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 14 | Modern Engineering Works | Limited Liability Partnership Firm (LLP) | 0000 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) Place,Business/Management Innovation5041791.PNG) |
| 15 | Modern Agriculture Technology Innovation Center LLP | Limited Liability Partnership Firm (LLP) | AW-9011 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |

| Sr. No. | Startup/Venture Name | Startup/Venture Registered as | CIN No/LLP/OPC/RC No |
|----------------|---|--|--|
| 16 | Modern Agriculture Technology Innovation Center LLP | Limited Liability Partnership Firm (LLP) | AW-9011 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 17 | Scermlind Healthcare Innovations Pvt Ltd | Private Limited Firm (Pvt. Ltd.) | U93090TZ2019PTC031523 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 18 | Smart chaat vending machine | Private Limited Firm (Pvt. Ltd.) | U74999KA2019PTC120885 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 19 | Canary Biosensors | Limited Liability Partnership Firm (LLP) | AAV-0017 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 20 | Proleg LLP | Limited Liability Partnership Firm (LLP) | AAW-7826 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 21 | Proleg LLP | Limited Liability Partnership Firm (LLP) | AAW-7826 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 22 | Tharam-Thiran Green Energy Flow Private Limited | Private Limited Firm (Pvt. Ltd.) | U31900TN2022PTC151382 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |
| 23 | Tharam-Thiran Green Energy Flow Private Limited | Private Limited Firm (Pvt. Ltd.) | U31900TN2022PTC151382 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |

| Sr. No. | Startup/Venture Name | Startup/Venture Registered as | CIN No/LLP/OPC/RC No |
|---------|----------------------|--|---|
| 24 | Canary Biosensors | Limited Liability Partnership Firm (LLP) | AAV-0017 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontest/im) |

S < [REDACTED] > Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

| Sr. No. | Collaborated Agency Name | Collaborated Agency Type | Period of Collaboration (No. of Years) | Current Status of Collaboration | Date of MOU / Agreement Signed on | View |
|---------------|--------------------------|--------------------------|--|---------------------------------|-----------------------------------|------|
| No Data Found | | | | | | |

Section 7: Intellectually Property (IP) Generated and Commercialization

7.1) IPR Filed and Published (Copyrights & Design only)

| Sr. No. | Title/Name of IP (Copyright/Design Only) | Type of IP | IP Registration Number of Copyright/Design | Date of Filed/Published | Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society? |
|---------|---|------------|--|-------------------------|--|
| 1 | Bottle holder with four jaws | Design | 325337-003 | 02-01-2020 | No |
| 2 | Bottle holder and cap cutting device | Design | 325337-002 | 02-01-2020 | No |
| 3 | Round shaped bottle holder with two jaws | Design | 325337-001 | 02-01-2020 | No |
| 4 | Multi Cooking Pan | Design | 343478-001 | 12-01-2021 | No |
| 5 | Surgical drilling guide to drill bone with different drill bits and angles for fracture fixation of femur | Design | 360156-001 | 08-03-2022 | No |
| 6 | COVIDYA | Copy Right | 4563132 | 17-03-2021 | Yes |

7.2) Patents Filed by HEI

| Sr. No. | Title/Name of Patent | IP Registration Number | Date of Filed/Published |
|---------|--|------------------------|-------------------------|
| 1 | Bio-Signal Processing using SNN based on BCM Rule | 202141019404 | 27-04-2022 |
| 2 | Natural fibre cleaning machine and methods of removing residues thereof | 202141042365 | 19-09-2021 |
| 3 | Automatic material ejection systems and methods of discharging by-products thereof | 202141043721 | 27-09-2021 |
| 4 | Automatic log cutting system and methods of delivering cut-pieces thereof | 202141043705 | 27-09-2021 |
| 5 | Automated system for sequential loading of agricultural wastes and methods thereof | 202141045222 | 05-10-2021 |

| Sr. No. | Title/Name of Patent | IP Registration Number | Date of Filed/Published |
|----------------|--|-------------------------------|--------------------------------|
| 6 | An Improved Thermoelectric Cooling System | 202241012048 | 07-03-2022 |
| 7 | Wholistic wearable device for monitoring of post angioplasty status of patients | 202041037135 | 28-08-2020 |
| 8 | Wearable device to continuously monitor one leg and mimic that behaviour onto another amputated leg | 202041039810 | 14-09-2020 |
| 9 | Compound Visual Perception Device | 202141005838 | 11-02-2021 |
| 10 | Electrically switchable optical mode converter | 202141007641 | 23-02-2021 |
| 11 | A container with self purifying system for liquids | 202141009697 | 09-03-2021 |
| 12 | Automatic agricultural waste processing system and delivery of multiple value added products | 202141039815A | 02-09-2021 |
| 13 | System for extracting indigenous products from banana pseudo-stem wastes | 202141041148 | 14-09-2021 |
| 14 | Automated system for peeling and segregating sheaths and inner core from banana pseudo-stem wastes | 202141042205 | 17-09-2021 |
| 15 | Supply chain and logistics aiding system and methods of connecting supplier and transporter thereof | 202141049782 | 30-10-2021 |
| 16 | Smart Jacket for all weather conditions | 202141043353 | 24-09-2021 |
| 17 | A dumbbell shaped stent optimized for maximum radial strength and minimum expansion force | 202141059231 | 19-12-2021 |
| 18 | A new rhombus shaped stent design with C–connector for better overall performance and enhanced life | 202141056817 | 07-12-2021 |
| 19 | An integrated smart motorcycle throttle system | 202241027144 | 11-05-2022 |
| 20 | A nose-shaped stent design for longer life-span and better flexibility suitable for SS316L and Co-Cr Materials | 202241026735 | 09-05-2022 |
| 21 | A low-cost manufacturing stent with half-moon shaped pattern, enhanced expandability and minimum recoil | 202241026594 | 08-05-2022 |
| 22 | Flexible conveyor assembly as part of automatic transfer system for handling banana sheaths | 2021141052036 | 12-11-2021 |

7.3) Patent Published / Granted Data

| Sr. No. | Patent Registration Application No | Patent Title | Patent Application Date | Status of Patent Applications | Patent Published / Granted Calendar Year | Institute applied the Patent as | View |
|---------|------------------------------------|--|-------------------------|-------------------------------|--|---------------------------------|--------------------------|
| 1 | 202241026735 | A NOSE-SHAPED STENT DESIGN FOR LONGER LIFE-SPAN AND BETTER FLEXIBILITY SUITABLE FOR SS316L AND Co-Cr MATERIALS | 09-05-2022 | Published | 2022 | Applicant | View (/) |
| 2 | 202241027144 | AN INTEGRATED SMART MOTORCYCLE THROTTLE SYSTEM | 11-05-2022 | Published | 2022 | Applicant | View (/) |
| 3 | 202241026594 | A LOW-COST MANUFACTURING STENT WITH HALF-MOON SHAPED PATTERN, ENHANCED EXPANDABILITY, AND MINIMUM RECOIL | 08-05-2022 | Published | 2022 | Applicant | View (/) |
| 4 | 202141059231 | A DUMBBELL SHAPED STENT OPTIMIZED FOR MAXIMUM RADIAL STRENGTH AND MINIMUM EXPANSION FORCE | 19-12-2021 | Published | 2022 | Applicant | View (/) |
| 5 | 202141056817 | A new rhombus shaped stent design with C-connector for better overall performance and enhanced life | 07-12-2021 | Published | 2021 | Applicant | View (/) |

| Sr. No. | Patent Registration Application No | Patent Title | Patent Application Date | Status of Patent Applications | Patent Published / Granted Calendar Year | Institute applied the Patent as | View |
|---------|------------------------------------|---|-------------------------|-------------------------------|--|---------------------------------|---------------------------|
| 6 | 202141049782 | SUPPLY CHAIN AND LOGISTICS AIDING SYSTEM AND METHODS OF CONNECTING SUPPLIER AND TRANSPORTER THEREOF | 30-10-2021 | Published | 2021 | Applicant | View (/L) |
| 7 | 202141042205 | AUTOMATED SYSTEM FOR PEELING AND SEGREGATING SHEATHS AND INNER CORE FROM BANANA PSEUDOSTEM WASTES | 17-09-2021 | Published | 2022 | Applicant | View (/L) |
| 8 | 202141041148 | SYSTEM FOR EXTRACTING INDIGENEOUS PRODUCTS FROM BANANA PSEUDOSTEM WASTES | 14-09-2021 | Published | 2022 | Applicant | View (/L) |
| 9 | 202141009697 | A CONTAINER WITH SELF PURIFYING SYSTEM FOR LIQUIDS | 09-03-2021 | Published | 2021 | Applicant | View (/L) |
| 10 | 202141007641 | ELECTRICALLY SWITCHABLE OPTICAL MODE CONVERTER | 23-02-2021 | Published | 2021 | Applicant | View (/L) |
| 11 | 202141005838 | COMPOUND VISUAL PERCEPTION DEVICE | 11-02-2021 | Published | 2022 | Applicant | View (/L) |

| Sr. No. | Patent Registration Application No | Patent Title | Patent Application Date | Status of Patent Applications | Patent Published / Granted Calendar Year | Institute applied the Patent as | View |
|---------|------------------------------------|---|-------------------------|-------------------------------|--|---------------------------------|--------------------------|
| 12 | 202041039810 | WEARABLE DEVICE TO CONTINUOUSLY MONITOR ONE LEG AND MIMIC THAT BEHAVIOR ONTO ANOTHER AMPUTATED LEG. | 14-09-2020 | Published | 2021 | Applicant | View (/L |
| 13 | 202041037135 | WHOLISTIC WEARABLE DEVICE FOR MONITORING OF POST ANGIOPLASTY STATUS OF PATIENTS | 28-08-2020 | Published | 2022 | Applicant | View (/L |
| 14 | 201941018940 | THERMAL TO ELECTRIC FEEDBACK COOLING PATCH | 13-05-2019 | Granted | 2020 | Applicant | View (/L |
| 15 | 201941018939 | SINGLE LINE SPECTROSCOPIC DEVICE FOR MILK FAT AND ADULTERATION DETECTION | 13-05-2019 | Published | 2020 | Applicant | View (/L |

7.4) IP Commercialized and Transferred to Industry/Startup

| Sr. No. | Name of Technology Licenced/Transferred/Commercialized | Technology Type | Patent/Licence Holder name (Institute Co-ownership is Must) | Technology Transferred to | Name of Licensee | Date Tran: Tech |
|---------------|--|-----------------|---|---------------------------|------------------|-----------------|
| No Data Found | | | | | | |

Declaration

To,
The ARIIA Committee
MHRD's Innovation Cell
New Delhi

Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Prof. DVLN Somayajulu** (Head of Institute) and **Dr. Sudhir Varadarajan** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

The Head of Institute

Nodal officer

Prof. DVLN Somayajulu,
Head of the Institution,
Indian Institute of Information Technology, Design &
Manufacturing, Kancheepuram,
Chennai, Tamil Nadu

Dr. Sudhir Varadarajan,
Nodal Officer,
Indian Institute of Information Technology, Design &
Manufacturing, Kancheepuram,
Chennai, Tamil Nadu