IIIT Kottayam - Efforts for Promoting Culture of Innovation

In recruitment process the First choice of IT Companies is Innovative Brain

*IIIT Kottayam is One of the fastest growing IIIT in India*

Our final product or output is nothing but the quality of our students, which are acceptable to IT industry as well as globally renowned Institutes for higher studies. Every institute tries to map the academic activities in the curriculum. But curriculum design has limitations. The IT Industry wants *innovative programming brains* with

1. Knowledge of recent technologies,
2. Hands on experience,
3. Research-oriented problem-solving attitude,
4. Real-time industry experience with international exposure,
5. Knowledge of complexities of software design
6. Experience of working and team and leading the teams

backed by internationally accepted Certifications etc. The curriculum may not give justice to all these parameters. It can be achieved by creating culture of Innovation, through different routes, which are not part of curriculum. Let's see how we "the IIIT Kottayam community" resolved this issue through **12 points program** and are producing INDUSTRY 4.0 READY students.

I. Nurturing Innovation Culture through Funded Research Projects

1. Projects -Sanctioned: 34 (worth 9.38 Crores)
2. Funding Proposals under various stages of evaluation & considerations: 91 (worth 137.20 Crores)

Total: **125 Projects worth Rs. 146.58 Crores**

The details are provided in the Tables 21 and 22 at the end of this document.

II. Nurturing Innovation Culture through Incubation Centers and Start-ups

3. Incubation Centers:
   - MSME Incubation Center: Submitted 38 Start-up project proposals (Rs. 5.53 Crores) and incubating 01 start-up company with funding.
   - AIC Incubation Center (NITI Aayog) - Submitted 31 (Rs. 41.11 Crores) Start-up project proposals and incubating 23 start-up companies

Total start-up funding proposals: **69 of Rs. 46.64 Crores**
Incubating start-ups: **23**

The details are provided in the Tables 23 and 24 at the end of this document.

Thus, in last 3 years, Sanctioned and Submitted Projects in Research & Innovation Category are **194** (i.e. 125 + 69) and total project cost is **Rs. 193.22 Crores**
III. Nurturing Innovation Culture through Coding / Programming Culture

Online Teaching, Learning and Training: On 26 Jan 2021, started YouTube Channel for providing high level training for C/C++ languages. Till date uploaded 607 Videos, which equivalent to 3 months training. Got overwhelming response. More than 23000 (Twenty-Three Thousand) views in just 5 months. https://www.youtube.com/channel/UCDMHOBgLbMtpaZoy-zwQOjw

To promote Coding / Programming Culture, IIIT Kottayam has established various student’s chapters and coding clubs. They organize various events on regular basis.

<table>
<thead>
<tr>
<th>SN</th>
<th>Students Chapters</th>
<th>Faculty In-charge</th>
<th>List of Activities Carried Out Under Each Student’s Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IEEE Student Branch (SB)</td>
<td>Dr. Kala S</td>
<td>1. First IEEE SB Newsletter was published on 18th May 2021, marking the first anniversary of IEEE Student Branch approved by IEEE USA.</td>
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<tr>
<td></td>
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<td>2. <strong>Technical events conducted:</strong></td>
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<td></td>
<td></td>
<td></td>
<td>• Techsemble – Inquzzitive (National Level Quiz competition) – 8th August 2020</td>
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<td>• Techsemble – GNIDOC (National level Reverse Coding Competition) – 11th August 2020</td>
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<td></td>
<td>• Content Writing competition (Within SB) – 10th Jan 2021</td>
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<td>• Poster designing competition. (Within SB) – 10th Jan 2021</td>
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<td></td>
<td>• International Science Day Celebration (CIENCIA)- Inter College Competition across India, for <strong>one week</strong> (February 23-27, 2021)</td>
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<tr>
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<td>o Ciencia – Quiz</td>
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<td>o Ciencia - Talk Tech</td>
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<td></td>
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<td>o Ciencia – Debate</td>
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<td></td>
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<td>o Ciencia - Idea Pitching</td>
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<td></td>
<td></td>
<td></td>
<td>o Ciencia - Article Writing</td>
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<td></td>
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<td></td>
<td>• WebHacks - 29th May 2021</td>
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<td>• Guess the output - 13th June 2021</td>
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<td>3. <strong>Achievements:</strong></td>
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<td></td>
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<td></td>
<td>• IEEE Student Members from IIIT Kottayam are in Core Team of IEEE Kerala Section. (Core Technical Members, Webmaster)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>• Student members of IIIT Kottayam serve as resource persons for various Seminars/Webinars in Student Branches of other institutes.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>• Student member got <strong>Best Mentor Award</strong> for the topic ‘Machine Learning’</td>
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<td></td>
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<td></td>
<td>• Student members participated in various events conducted by Student Branches of other institutes and bagged prizes.</td>
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<td>• Student members in the organizing team of IEEE-LINK (Local Integrated Network of Kerala IEEE Students)</td>
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<td></td>
<td>4. <strong>EXECOM meeting</strong> conducted every month, within SB</td>
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<td>5. <strong>EXECOM members attend the Chair’s meet, Branch Counselor’s meet and general body meetings</strong> conducted by Kerala Section and Kochi Hub.</td>
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<td>6. All the events conducted by IEEE SB are regularly updated in IEEE-USA via the portal.</td>
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<td>7. <strong>Webinars</strong></td>
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<tr>
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<tr>
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<td>-------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 1. | Students Chapters |                  | i. IoT for Agriculture- Dr. Javed G S, Intel Bangalore & Kings Consultant Education, Bengaluru  
ii. Advanced Vehicular Technology for Intelligent Transportation Systems - Dr. Shrikanth Tangade, MDC Chair & SAC Mentor, IEEE Bangalore Section, SAC Ambassador, IEEE Asia-Pacific R10 |
| 2. | ACM Chapter       | Dr Divya Sindhu Lekha | 1. 24th October 2018 - Workshop on "Design Thinking"  
2. 08th March 2019 - ACM Women in Computing  
3. Membership Drive  
4. Through and beyond Covid-19: Integrating social responsiveness and technology- Mr. Rejin Narayanan (Ingen Robotics) and Mr. Jim Seelan (TCS)  
5. Industry 4.0 for Discrete Manufacturing- Thadeus Devasagayam, Consultant - Digital Manufacturing  
7. New Frontiers in Cloud and Edge Computing for Big Data & Internet-of-Things Applications-Dr. Rajkumar Buyya, Director, Cloud Computing and Distributed Systems (CLOUDS) Lab, The University of Melbourne, Australia  
8. Mulsemedia in 360 VR- Dr. George Ghenia, Professor, Brunel University London.  
9. How to become a self-taught programmer- Prasanth Lalapeta, Co-Founder and UI Specialist at Fidisys  
10. PYNQ- Python Productivity on ZYNQ- Hemanth Kumar, Application Engineer CoreEL Bengaluru  
11. How to formulate a high Impact publication - Prof. (Dr.) Sabu Thomas, Vice Chancellor, MG University, Kottayam, Kerala  
12. AI - The Cyber Defence- Dr. Rizwan Ahmed, CTO, DILAPLEX  
13. Cryptocurrencies Blockchain- Dr. Shashidhar R, SEAS, BENNETT UNIVERSITY  
14. Deep Learning, Dr. Sahana Prabhu, Data Scientist, Robert Bosch  
15. Simulation of Smart Home using Cisco Packet Tracer- Dr. Vijay Kumar Bohot, SEAS, BENNETT UNIVERSITY  
16. IT Industry Expectation from Engineering Students, - Dr. Rekha Mathews, HR, Nissan Global  
17. Scientific Writing Using LaTeX: A Hands-on- Dr. Praveen Pawar, Assistant Professor, IIIT Bhopal  
18. Placement Tips and Tricks- Aravind Warrier, HR Director at Rapid Value  
19. Engineering Roadmap & Introduction to CPP- Mr. Mohan Roy, Mr. Devanshu Monga, GeeksforGeeks Mentor, GeeksforGeeks Campus Manager  
20. Industry Expectations from Engineering Students- Mr. Robin Tommy, TCS Rapid Labs Head  
21. CV Building for Jobs and Internships- Aravind Warrier, HR Director at Rapid Value |
| 3. | GeeksForGeeks Students Chapter | Dr. Victer Paul | 1. Online technical event: Fastest Fingers First –A technical competition where students are given some technical advancements in the industry as MCQ  
2. Webinar on “Placement Tips and Tricks Webinar” by Aravind Warrier, HR Director at Rapid Value |
To produce globally employable students, in addition to Coding / Programming Clubs, our 12 faculty members are providing training of Programming, Data Structures and Algorithms in the evening extra coaching classes for developing “6 Star Coders” and preparing the students for Global Coding Competitions and Hackathons. Our students grabbed many prestigious prizes and awards. Let’s see the Coding Performance of IIIT Kottayam Students:

Table 1: Activities of Student’s Chapters

<table>
<thead>
<tr>
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<tr>
<td>3.</td>
<td>Webinar on “Engineering Roadmap &amp; Introduction to CPP” by Mohan Bishnoi - GeeksforGeeks Associate Mentor, Devanshu Monga - GeeksforGeeks Campus Manager</td>
<td></td>
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<tr>
<td>4.</td>
<td>Webinar on Industry Expectation from Engineering Graduates webinar by Mr. Robin Tommy, Head TCS Rapid Labs</td>
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<td>5.</td>
<td>Online web development event: WebHacks 1.0</td>
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<td>6.</td>
<td>Webinar on “CV Making for Jobs and Internships” by Mr. Aravind Warrier, HRD at RapidValue</td>
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<tr>
<td>7.</td>
<td>MCQ based online event: Guess the Output – A technical coding event to predict the output of the snippet in C programming language</td>
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</tr>
<tr>
<td>4.</td>
<td>Code Chef Student Chapter</td>
<td>Dr. Victer Paul</td>
<td>1. A one-week days learning sprint: 5 days of technical concepts and competitive coding sessions conducted by the students of IIIT Kottayam.</td>
</tr>
<tr>
<td>5.</td>
<td>2. Organized HackoonaMata – an online Intra-IIITK hackathon</td>
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<tr>
<td>5.</td>
<td>Coding Ninjas Club</td>
<td>Dr. Victer Paul</td>
<td>1. MoU signed in April.</td>
</tr>
<tr>
<td>2.</td>
<td>Initial discussion with Coding Ninjas Coordinator is done through online mode.</td>
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<tr>
<td>3.</td>
<td>Selection of Student coordinators for technical activities is in progress.</td>
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<tr>
<td>1.</td>
<td>Activities like online coding competition, technical stream guidance, and technical support for placement are planned from June 2021.</td>
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</tbody>
</table>

Table 1: Activities of Student’s Chapters

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<tr>
<th>SN</th>
<th>Coding Event</th>
<th>Achievements</th>
<th>Student Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Runner up position for the problem statement “Facilitation of Document Upload for Online Applications” in IEEE Gov-TechThon, A 36 hours IEEE Virtual Hackathon supported by Oracle, NIC India (30th October 2020 to 1st November 2020)</td>
<td>A V S Adityavardhan, Ananta Bhotla, Sathya Krishna, Vinay Y</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>A student qualified in Google Summer of Coding for two years 2018 and 2020 with total cash award of $5400.</td>
<td>Mr. Rahul Badami</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>A team of students stood 2nd all over India in prestigious Smart India Hackathon 2020 with a cash award of Rs. 75,000. Problem Statement: IC469</td>
<td>Team name: Competent developers Mr. Vishal Shivakumar Kanakamamidi, Mr. Anuj Srivastava, Mr. Rishav Jaiswal, Ms. Mattarpatti Satya Bhargavi, Mr. Konjety Keerthi Sreenivas, Mr. Dharavathu Neehari Naik</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>A team won under category 'Best Innovation in Idea Stage' to earn the Eir fellowship support (monthly Rs. 33,000 for a year) from the Hackathon - Hack and Reboot organized by Startup Incubation and Innovation Centre (SIIC), IIT Kanpur under the Technology Incubation and Development of Entrepreneur Scheme (TIDE 2.0) supported by the</td>
<td>Mr. Vishal Shivakumar Kanakamamidi, Mr. Anuj Srivastava, Mr. Rishav Jaiswal, Ms. Satya Bhargavi</td>
<td></td>
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<tr>
<td>SN</td>
<td>Coding Event Achievements</td>
<td>Student Participants</td>
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<tr>
<td>5</td>
<td>A student is selected for the final round in Game Development World Championship 2020</td>
<td>Mr. Sameer Ahmed</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>A student has won the MIT Covid19 Challenge: India Turning the Tide with a cash award of 500$</td>
<td>Mr. Adityavardhan AVS</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>A team was qualified for the final round in the Smart India Hackathon 2020.</td>
<td>Team name: Aviato Mr. Suryapal Singh Asolia Rao, Mr. Kshitij Pal, Mr. Vedant Sandeep Joshi, Ms. Amritha Haridasan, Mr. Joel Mathew Philip, Mr. Utkarsh Trivedi</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>A student emerged as a Top Performer and Winner CellStrat AI Lab- Hands-on Hackathon June 2019, Bangalore</td>
<td>Mr. Vishal Shivakumar Kanakamamidi</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Many students qualified for CodeVita 2020, including 1st year students</td>
<td>Mr. Yarlagadda Sai Bhavadeesh, Mr. Aditya Mutharia</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Two teams secured rank within 25 among the 200+ teams participated in NIT Delhi Reverse Coding Challenge, 2019</td>
<td>Mr. Pushpam Saxena</td>
<td></td>
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<tr>
<td>11</td>
<td>A student achieved World Rank 3 in January Code Challenge 2020 on HackerEarth</td>
<td>Mr. Prabal Kalia</td>
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</tr>
<tr>
<td>12</td>
<td>A student holds 5 CSES world records for the fastest codes and code-golf.</td>
<td>Mr. Prabal Kalia</td>
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</tr>
<tr>
<td>13</td>
<td>In HackerEarth July Circuits, 2019, two student secured rank within top 200 out of 10000 participants globally.</td>
<td>Mr. Prabal Kalia Mr. Anshuman Mishra</td>
<td></td>
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<tr>
<td>14</td>
<td>A 1st year student ranked 40 globally amongst 3000 participants in the Codechef January Cook-off 2020.</td>
<td>Mr. Seshathri</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>A student was selected among the top 50 candidates for the ZS Data Science Challenge 2019</td>
<td>Mr. Mannem Srinivas (2016 batch)</td>
<td></td>
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<tr>
<td>16</td>
<td>A student was selected for LiFT Scholarship 2020 under Blockchain Blockbusters given by Linux Foundation</td>
<td>Mr. Utkarsh Trivedi</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>A group of students were selected to participate in the finals of Version Beta Hackathon held at MANIT Bhopal</td>
<td>Team “Snowdens”: Mr. Ayush Rai, Mr. Anshuman Mishra and Mr. Rahul Badami</td>
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<tr>
<td>18</td>
<td>A team has won 51st rank among 5000+ participants in Classify the Lunar Rock: HackerEarth Data Science Competition, October 2019.</td>
<td>Mr. Vishal Shivakumar Kanakamamidi</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>A team of students were shortlisted among the top 3 in the National Event (Onsite POC Participation) in SBI National Hackathon - Automate for Bank 2018</td>
<td>Competent Developers: Mr. Vishal Shivakumar Kanakamamidi, Mr. Anuj Srivastava, Mr. Ayush Rai</td>
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<td>21</td>
<td>A team reached the Pre-Finals in the prestigious E-Yantra Robotics Challenge 2019, sponsored by Ministry of Education and conducted by IIT Bombay.</td>
<td>Mr. Shiva Kumar Marepally, Mr. Vishnu Kanhth B, Mr. Anshuman Gaurav and Mr. Bivek Benoy Paul</td>
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<tr>
<td>SN</td>
<td>Coding Event Achievements</td>
<td>Student Participants</td>
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</tbody>
</table>
| 22. | Most of the students have cleared the first round of Google CodeJam 2020, Kick Start 2020, Hashcode 2020 and Facebook HackerCup. | **Google Hash Code 2020**  
Rank–4234: Aashish Sharma, Ashwin Nair  
Rishabh Anand, Anshu Kumar  
Rank–6724: Srivatsan Harish, Deshaboina Yashwanth, Lakshin Kumar, Sai Tejashwin  
Rank–7171: Pushpam Saxena, Nikil Ghanghor, Kaushal Samant, Dhrurji Vats  
Rank–7732: Kishore Prasad, Dheenadhayalan, Seshathri  
Rank–8005: Alwin Sebastian, Nevin John Selby, Shriganesh Bhide, Tanishq Jain  
Rank–8264: Venati Prudhvi, Saikowsik Vellaturi, Sri Rama Varshith Potharlanaka  
Rank–8385: Kumar Sunny, Shashank Singh Abhijith S Babu, Beri Bhanu Vishnu, Vardhan Reddy  
Rank–9107: Ruchika Sreedhar | |
<p>| 23. | One of the team was among the top teams called for Onsite Demonstration in RAKATHON 2.0, November 2019 | Mr. Vishal Shivakumar Kanakamamidi, Mr. Kishav Jaiswal, Ms. Mattaparti Satya Bhargavi |
| 24. | A student got qualified for the Onsite Finals in CodeWars- FlairFiesta’19, a National coding event organized by IIIT Kota in 2019 | Mr. Prabal Kalia |
| 25. | A student has won 3rd Place in Co&lt; div/&gt; App Hackathon organized by Freshworks in June 2020 | Mr. S J Sameer Ahmed |
| 26. | A student securing FIRST place in GNIDOC during Techsemble organized by IEEE Student Branch of IIIT Kottayam in association with IEEE Kerala section in August 2020 | Mr. Ashwin Nair |
| 27. | Students have qualified for the final round in Inter IIIT coding competitions. | |
| 28. | Selected for Grand Finale (dates for finale to be announced) Toycathon, 2021 Government of India | Rahul Barnwal |
| 29. | First Position in CIENCIA 2021 organized by IEEE SB IIIT Kottayam | Rahul Barnwal |
| 30. | 3rd Position in Fastest Fingers organized by GFG IIIT Kottayam Student Chapter | Rahul Barnwal |</p>
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<th>Student Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.</td>
<td>Granted 1 Year access to Param-YUVA 2 Supercomputer by CDAC for research activities</td>
<td>Prasanna Devadiga</td>
</tr>
<tr>
<td>32.</td>
<td>Winner in Top-5 projects at IEEE Codeathon, a Hackathon organized by IEEE North Cap University India</td>
<td>A V S Aditya Vardhan</td>
</tr>
<tr>
<td>33.</td>
<td>Project Development in Version Beta 3.0 organized by MANIT</td>
<td>AVS Adityavardhan, J V Sathya Krishna</td>
</tr>
<tr>
<td>34.</td>
<td>Shortlisted to participate the final round presentation in Hackerflow Hackathon organized by Surveysparrow</td>
<td>A V S Adityavardhan, J V Sathya Krishna, Yashwanth Deshaboina, M G Crishtopher</td>
</tr>
<tr>
<td>35.</td>
<td>Finalists in Giftabled Hackathon</td>
<td>A V S Adityavardhan, J V Sathya Krishna, Yaddanapudi Vinay, Yashwanth Deshaboina</td>
</tr>
<tr>
<td>36.</td>
<td>Secured global rank 1926 out of 10k+ participants in Google Kickstart round B 2020</td>
<td>Seshathri</td>
</tr>
<tr>
<td></td>
<td>Secured Global Rank 817 out of 12k+ participants in Google Kickstart round C 2021</td>
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<tr>
<td></td>
<td>Secured Global Rank 2051 out of 10k+ participants in Google Kickstart round D 2020</td>
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<td>37.</td>
<td>Secured 1st rank in GNIDOC (reverse coding contest) during TECHSEMBLE organized by IEEE Student Branch of IIIT Kottayam in association with IEEE Kerala</td>
<td>Seshathri</td>
</tr>
<tr>
<td>38.</td>
<td>Secured 1st rank in GNIDOC (reverse coding contest) during TECHSEMBLE</td>
<td>Seshathri</td>
</tr>
<tr>
<td>40.</td>
<td>Secured Global Rank 1066 in Google Code Jam 2021</td>
<td>Aditya Mutharia</td>
</tr>
<tr>
<td>41.</td>
<td>Secured a global rank of 6307 (National Rank: 2174) in Google Hash Code 2021</td>
<td>Amritansh Singh</td>
</tr>
<tr>
<td>42.</td>
<td>Secured rank 2 in the event COD-IT ACM Student Chapter organized Don Bosco Institute of Technology, Mumbai by in July 2020</td>
<td>Ashish Gusain</td>
</tr>
<tr>
<td>43.</td>
<td>Secured rank 15 in the event Janatahack: Cross-sell Prediction organized Analytics Vidhya by in September 2020</td>
<td>Ashish Gusain</td>
</tr>
<tr>
<td>44.</td>
<td>Secured rank 9 in the event HackerEarth Machine Learning challenge: Adopt a buddy organized by HackerEarth in July 2020</td>
<td>Ashish Gusain</td>
</tr>
<tr>
<td>45.</td>
<td>Secured Second prize at Web Hacks organised by GFG student chapter, IIIT Kottayam</td>
<td>Shashank Kumar Srivastava</td>
</tr>
<tr>
<td>46.</td>
<td>Secured a global rank of 6495 in Google Hash Code 2021 conducted in Feb 2021</td>
<td>Rishabh Srivastava</td>
</tr>
<tr>
<td>47.</td>
<td>Secured a global rank of 5091 in Google Hash Code 2021</td>
<td>Cyril Kunjumon</td>
</tr>
<tr>
<td>48.</td>
<td>4th rank in MLH Local Hack Day organized by Major League Hacking (MLH) in April 2021</td>
<td>Rishabh Srivastava</td>
</tr>
<tr>
<td>49.</td>
<td>Secured 1st Position in HackoonaMata Hackathon conducted by IIIT Kottayam</td>
<td>Som Sagar</td>
</tr>
<tr>
<td>50.</td>
<td>Secured Second prize at Idea Pitching organized by IEEE CIENCIA 2021</td>
<td>Shashank Kumar Srivastava</td>
</tr>
<tr>
<td>51.</td>
<td>Secured First prize at Web Hacks organised by GFG student chapter, IIIT Kottayam</td>
<td>Cyril Kunjumon</td>
</tr>
</tbody>
</table>
SN | Coding Event Achievements | Student Participants
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52. | Secured a global rank of 959 in Google Hash Code 2021 | Aryan Yadav, Hrishabh Joshi, Prabal Kalia, Ritik
53. | Secured a global rank of 1066 in Google Code Jam 2021 | Aditya Mutharia

Table 2: Achievements in National & Global Coding Competitions, Hackathons and Coding Ranks

IV. Nurturing Innovation Culture through Real-World Problem-Solving Culture

The following is the list students project, which is not a part of syllabus. The students have developed these software projects on their own or under the guidance of teachers of IIIT Kottayam.

<table>
<thead>
<tr>
<th>SN</th>
<th>Name of Student</th>
<th>Number of projects done</th>
<th>Title of the Projects, which are not part of curriculum</th>
<th>Name of the Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ashish Gusain</td>
<td>2</td>
<td>1. Calendar project, 2. Net-banking website</td>
<td>Dr. Chitra M T, Dr. Bibal Benifa</td>
</tr>
<tr>
<td>2.</td>
<td>Vibhor Vij</td>
<td>3</td>
<td>1. Simple MP3 player on Java, 2. Basic functionalities of a compiler, 3. Hand gesture recognition using OpenCV</td>
<td>Dr. Chitra, Dr. Renjith P., Dr. Bibal Benifa</td>
</tr>
<tr>
<td>3.</td>
<td>Shubham Mishra</td>
<td>1</td>
<td>Music app using react native</td>
<td>Dr J.V Bibal Benifa</td>
</tr>
<tr>
<td>4.</td>
<td>Arvind Rajpurohit</td>
<td>2</td>
<td>Artiller, Sentiment Analyzer</td>
<td>Dr Benifa</td>
</tr>
<tr>
<td>6.</td>
<td>Rahul Kumar Singh</td>
<td>2</td>
<td>1. Social networking website, 2. Machine learning projects</td>
<td>Dr. Benifa, Dr. Jaykrushna Sahoo</td>
</tr>
<tr>
<td>7.</td>
<td>Neeraj S</td>
<td>5</td>
<td>1. MP3 Player (JAVA), 2. Priority App (JAVA), 3. Image Captioning (Python), 4. Genetic Algorithms (Python), 5. Head Gaze Detection (Python)</td>
<td>Dr. Chitra, Dr. Bibal Benifa, Dr. Jayakrishna Sahoo, Dr. Anoop, Dr. Bibal Benifa</td>
</tr>
<tr>
<td>8.</td>
<td>Deepesh Sharma</td>
<td>2</td>
<td>1. Custom dataset object detection, 2. Sentiment analysis of code mixed multilingual language</td>
<td>None</td>
</tr>
<tr>
<td>SN</td>
<td>Name of Student</td>
<td>Number of projects done</td>
<td>Title of the Projects, which are not part of curriculum</td>
<td>Name of the Supervisor(s)</td>
</tr>
<tr>
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<tr>
<td>4</td>
<td></td>
<td></td>
<td>4. Image-Annotation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5. Seafood Application</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6. Dance Form Classifier</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>7. Internet of ledgers</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8. IoT Dashboard</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>9. Arduino based flight controller</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10. Blind Man Stick</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Tumun shaily</td>
<td>7</td>
<td>1. Home automation,</td>
<td>Dr. Ebin, Dr. Benifa, Dr.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Drone</td>
<td>Kala S</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3. YouTube downloader</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4. Voice enabled speaker</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5. Pixel automation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6. screen recorder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>7. facial recognition.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Pattan Salimkhan</td>
<td>2</td>
<td>1. Voice Recognition System-Developed a system which recognize speech of speaker and can be used for searches and automated WhatsApp.</td>
<td>Self-Project</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. IOT based gas recognition system -IOT system for detecting gas and make alarms to ring.</td>
<td>Dr. V. Panchami</td>
</tr>
<tr>
<td>13</td>
<td>Sameer Ahmed S J</td>
<td>1</td>
<td>Enterprise Vulnerability Management- Penetration testing, Vulnerability analysis and Reporting of various vulnerabilities in various applications was performed.</td>
<td>Industry Project-Shakti Ray - Tata Consultancy Services</td>
</tr>
<tr>
<td>14</td>
<td>Sandeep Vangapandu</td>
<td>1</td>
<td>License plate detection with Python, OpenCV and pytesseract -Detecting the vehicle number plate from an image and converting into text</td>
<td>Internship- Bosch</td>
</tr>
</tbody>
</table>

**List of Projects (2018 Batch, Third Year)**

<p>| 15 | Yarlagadda Sai Bhavadeesh | 1 | Cable Tv Book |
| 16 | Snehamol Balan | 2 | 1. Full Stack Web Development - User Profile Website Creation, 2. Data Science - Eda For Titanic Dataset And Build Various Classification Models And Suggest The Best Model |
| 19 | Anjali | 1 | Movie recommender System | Self-Project |
| 20 | Jonnalagadda Venkata Sathyu Krishna | 4 | 1. Dance studio registration Application -It a platform for who are interested to learn dance in online. | Self-Project |
|    |                |                         | 2. Online voting system -Online voting system as part of the college election. | Dr. Divya Sindhu lekha |
|    |                |                         | 3. Coupon generator for shubamastu shopping mall | Team project |</p>
<table>
<thead>
<tr>
<th>SN</th>
<th>Name of Student</th>
<th>Number of projects done</th>
<th>Title of the Projects, which are not part of curriculum</th>
<th>Name of the Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Macharla Sindhuja</td>
<td>3</td>
<td>4. Covid cases dashboard- It helps to know how cases are increasing day by day and how many people are getting recovered from covid</td>
<td>Self-Project</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1. Online Voting System- It is a Web application developed to meet the college club elections. Main objective is to reduce manual work and making easier for students when they are inaccessible.</td>
<td>Dr. Divya Sindhulekha</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Chatbot- Developed Chat bot in google's Dialogflow platform.</td>
<td>Self-Project</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3. Fighting game (javascript)</td>
<td>Self-Project</td>
</tr>
<tr>
<td>22</td>
<td>Nikhil Kumar Ghanghor</td>
<td>1</td>
<td>Offensive Language Identification in Dravidian Languages</td>
<td>Self-Project</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Troll Memes Classification-Used various unimodal models to classify the memes into troll/not troll which were Resnet, Inception, BERT, XL, Roberta, Albert.</td>
<td>Self-Project</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hope Speech Detection in Dravidian Languages</td>
<td>Self-Project</td>
</tr>
<tr>
<td>23</td>
<td>Sai Kumar Avu</td>
<td>1</td>
<td>Healthy Bharath- It’s an e commerce website</td>
<td>Self-Project</td>
</tr>
</tbody>
</table>

**List of Projects (2019 Batch, Second Year)**

<table>
<thead>
<tr>
<th>SN</th>
<th>Name of Student</th>
<th>Number of projects done</th>
<th>Title of the Projects, which are not part of curriculum</th>
<th>Name of the Supervisor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Abhijith S Babu</td>
<td>1</td>
<td>Brain Steaks</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>25</td>
<td>Vishnu Narayanan A</td>
<td>1</td>
<td>Quiz platform</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>26</td>
<td>Cyril Kunjumon</td>
<td>2</td>
<td>1. Food Delivery App 2. Image Editor and Facial Recognition GUI using Python</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>27</td>
<td>Som Sagar</td>
<td>1</td>
<td>Image editor with real-time facial recognition GUI using python</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>28</td>
<td>Saikowsik Vellaturi</td>
<td>1</td>
<td>Image editor with real-time facial recognition GUI</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>29</td>
<td>Hrishabh Joshi</td>
<td>3</td>
<td>1. PenIt-Personal Blogging WebApp 2. Weather Todo App, 3. Stonks (group project)</td>
<td>2 projects are done as self-skills Enhancement. Stonks project is under guidance of Dr. Victer Paul (under progress).</td>
</tr>
<tr>
<td>30</td>
<td>Ringriansuiyang</td>
<td>2</td>
<td>1. Anime website front end using HTML, CSS, JAVA SCRIPT 2. Image editor with real-time facial recognition GUI using Python</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>31</td>
<td>Syed Faiz Hasan</td>
<td>3</td>
<td>1. Heart Disease Predictor Website 2. PenIt (Blog Website) , 3. Enlace (Cultural Fest Website) 4. Alchemy- Alchemy is full-stack MERN project which allows users to add, delete and like posts. It is provided with authentication system along with Google Sign In. 5. DevIn- DevIn provides all the useful resources required for any Computer</td>
<td>Self-supervised Under Cultural Committee</td>
</tr>
<tr>
<td>SN</td>
<td>Name of Student</td>
<td>Number of projects done</td>
<td>Title of the Projects, which are not part of curriculum</td>
<td>Name of the Supervisor(s)</td>
</tr>
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<td>----------------------------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>32</td>
<td>Ananthakrishnan N B</td>
<td>1</td>
<td>Quiz app with basic Django &amp; JS</td>
<td>Self-Project</td>
</tr>
<tr>
<td>33</td>
<td>Venati Prudhvi Reddy, Sri Rama Varshith P, Mahesh Vanam, Sk. L. L. Bahadur, Bhargawa</td>
<td>1</td>
<td>Sudoku Auto-Solver</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>34</td>
<td>Hrishabh Joshi</td>
<td>5</td>
<td>Enlace frontend webpage, Movie_Buffer, others compiled in separate submission</td>
<td>Trendles club, self enhancement , others</td>
</tr>
<tr>
<td>35</td>
<td>Akhil Sai.B</td>
<td>1</td>
<td>Voice Assistant</td>
<td>Dr. Victer Paul</td>
</tr>
<tr>
<td>36</td>
<td>Nimit Gaur</td>
<td>2</td>
<td>1. Python 2D RPG game- It's a game developed in Python using pygame library. 2. Distress of an Anti-Virus- It's a retro style game developed in Unity and scripted in C#. The concept is that the player is an anti-virus and have to protect the computer from attack of a virus by reaching the core region before the virus. Player can deploy barriers to slow down Virus by typing given code.</td>
<td>Self-Project</td>
</tr>
<tr>
<td>37</td>
<td>Bhanu Krishna Prasad.V</td>
<td>2</td>
<td>1. AdviceByte- This is a web application, which is used to create a community of people with ideas to create a startup and mentors to help them. 2. Exploratory data analysis of the income of adults</td>
<td>Team project</td>
</tr>
<tr>
<td>39</td>
<td>Nikhil Menon</td>
<td>2</td>
<td>Tic-Tac-Toe Game 1. Snake-Game- A simple snake game made on Canvas on the Web.</td>
<td>Self-Project</td>
</tr>
</tbody>
</table>

Table 3: Beyond Syllabus - Students Projects

V. Nurturing Innovation Culture through Research Activities

- The faculty members (including administrative staff) have published or presented more than 800 research papers till date, which includes 20 research papers of BTech students and 01 research paper with Technical Supporting Staff. [link to student publications](https://www.iiitkottayam.ac.in/#/studentPublication), [link to research publications](https://www.iiitkottayam.ac.in/#/researchPublication)
- UG Research Activities:
## SN | UG Research Papers with 4 Best Paper Awards | Guided by Faculty
--- | --- | ---
### Dr. Shajulin Benedict (6 Research Papers)
### Dr. Bini A. A (3 Research Papers)
### Dr. V. Panchami (3 Research Papers)
### Dr. J. V. Bibal Benifa (1 Research Papers)
### Dr. Ebin Deni Raj (1 Research Papers)
IIIT Kottayam Kerala: Efforts for Promoting Culture of Innovation – Updated on 10th Sept 2021

<table>
<thead>
<tr>
<th>SN</th>
<th>UG Research Papers with 4 Best Paper Awards</th>
<th>Guided by Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.</td>
<td>Vedant S Joshi, Dr. Ebin Deni Raj, “FYEO: A Character Level Model For Lip Reading”, 8th International IEEE Conference on Smart Computing and Communications (ICSCC 2021), Muthoot Institute of Technology and Science Puthencruz, Ernakulam, Kerala, 1-3 July 2021, <strong>Best Paper Award</strong> in the track Intelligent Systems and Analytics.</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>Dr. Kala S. (3 Research Papers)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Tumun Shaily, Kala S, &quot;Bacterial Image Classification using Convolutional Neural Networks&quot;, 17th IEEE INDICON 2020, New Delhi, December 11-13, 2020</td>
<td>Dr. Kala S.</td>
</tr>
<tr>
<td>16.</td>
<td>Shivakrishna G, Kala S, &quot;Sewage monitoring system for smart cities using Internet of Things&quot;, International Conference on Research in Technology and Management, Kolkata, Feb 26-28, 2021, <strong>Best Paper Award</strong></td>
<td>Dr. Kala S.</td>
</tr>
<tr>
<td>17.</td>
<td>Mahesh M, Nalesh S, Kala S, &quot;Bandwidth-Efficient Sparse Matrix Multiplier Architecture for Deep Neural Networks on FPGA&quot;, in 34th IEEE International System-On-Chip Conference (SOCC), Las Vegas, NV, USA, September 14-17, 2021</td>
<td>Dr. Kala S.</td>
</tr>
<tr>
<td>18.</td>
<td>Mahesh M, Nalesh S, Kala S, &quot;Hardware acceleration of SpMV multiplier for deep learning&quot;, in 25th IEEE International Symposium and Test (VDAT), Jaipur, India, September 2021</td>
<td>Dr. Kala S.</td>
</tr>
</tbody>
</table>

**Individual Contributions**

<table>
<thead>
<tr>
<th>SN</th>
<th>UG Student’s Research Papers</th>
</tr>
</thead>
</table>

**Table 4: UG Student’s Research Papers**

- Nine faculty members has received Best Paper Awards in prestigious conferences.

<table>
<thead>
<tr>
<th>SN</th>
<th>IIIT Kottayam Faculty-Best Paper Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Akash K Nair, <strong>Jayakrushna Sahoo</strong>, “Edge eye: A voice assisted campus navigation system for visually impaired” <strong>IEEE 3rd international Conference</strong> on Signal Processing and Communication, Karunya Institute of Technology and Sciences, Coimbatore, May 2021</td>
</tr>
</tbody>
</table>
Table 5: Best Paper awards – IIIT Kottayam Faculty Members

- From 2021, IIIT Kottayam has started Post Doc. Under “SERB-National Post-Doctoral Fellowship” and “CSRI Post-Doctoral Fellowship” schemes, 6 Post Doc scholars have applied under the guidance of IIIT Kottayam faculty members, including Director.
- IIIT Kottayam has successfully organized two IEEE International conferences and announced the third one in Feb 2022.

<table>
<thead>
<tr>
<th>SN</th>
<th>Patent / Copyrights</th>
<th>Date of Application</th>
<th>National / International</th>
<th>Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wireless Vehicle Monitoring System and Method Thereof</td>
<td>April 2018</td>
<td>Indian Patent</td>
<td>Dr. Koppala Guravaiah (Co-Inventors: Dr. R Leela Velusamy NIT Tiruchi)</td>
</tr>
<tr>
<td>2</td>
<td>Autonomous device for harvesting fruits</td>
<td>September 2020</td>
<td>Indian Patent</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>3</td>
<td>A method for implementing convolutional neural networks using Winograd minimal filtering and GEMM</td>
<td>October 2018</td>
<td>Indian Patent</td>
<td>Dr. Kala S (Co-inventors: Babita R Jose, Jimson Mathew, Nalesh S)</td>
</tr>
<tr>
<td>4</td>
<td>Smart Bin with Rewarding Tracker</td>
<td>November 2020</td>
<td>Indian Patent</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>5</td>
<td>Automatic Fish Feeder</td>
<td>December 2020</td>
<td>Indian Patent</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>6</td>
<td>Digital Cost Meter for Fused Deposition Modeling (FDM) 3D Printers</td>
<td>December 2020</td>
<td>Indian Patent</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>7</td>
<td>Scalable space structured ledger framework for Industrial Internet of Things using Block chain technique</td>
<td>August 2021</td>
<td>Australian Patent</td>
<td>Dr. Ragesh, Dr. Shajulin Benedict with PhD scholars Mr. Besil and Mr. Rajesh</td>
</tr>
</tbody>
</table>

Table 6: Patents applied by faculty of IIIT Kottayam

9. Revocable Multi Authority Attribute Set Based Encryption for Cloud Storage 28/08/2021 National Dr. Ragesh G K
<table>
<thead>
<tr>
<th>SN</th>
<th>Editor / Reviewer of Journal</th>
<th>IIIT Kottayam Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reviewer, IEEE Transactions on VLSI Systems</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>2</td>
<td>Reviewer, IEEE Transactions on Neural Networks and Learning Systems</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>3</td>
<td>Reviewer, IEEE Access</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>4</td>
<td>Reviewer, IET Signal Processing</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>5</td>
<td>Reviewer, The Journal of Supercomputing, Springer</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>9</td>
<td>Reviewer: IEEE Transactions on Industrial Informatics, Impact factor: 9.112</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>10</td>
<td>Reviewer: IEEE Access</td>
<td>Dr. Arun Cyril Jose</td>
</tr>
<tr>
<td>11</td>
<td>Reviewer: IEEE Sensors</td>
<td>Dr. Arun Cyril Jose</td>
</tr>
<tr>
<td>12</td>
<td>Reviewer: IEEE Transactions on Intelligent Transportation Systems</td>
<td>Dr. Arun Cyril Jose</td>
</tr>
<tr>
<td>13</td>
<td>Reviewer: Journal of Internet Technology</td>
<td>Dr. Arun Cyril Jose</td>
</tr>
<tr>
<td>14</td>
<td>Reviewer: KSII Transactions on Internet and Information Systems</td>
<td>Dr. Arun Cyril Jose</td>
</tr>
<tr>
<td>15</td>
<td>Reviewer: ACM Transactions on Asian and Low-Resource Language Information Processing</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>16</td>
<td>Reviewer: Knowledge Management and research Practice</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>17</td>
<td>Reviewer: European Journal of Remote Sensing</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>18</td>
<td>Reviewer: Intelligent Service Robotics</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>19</td>
<td>Reviewer: Neural Computing and Applications</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>20</td>
<td>Reviewer: Journal of Applied Remote Sensing</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>21</td>
<td>Reviewer: Cluster Computing</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>22</td>
<td>Reviewer: CCF Transactions on s</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>23</td>
<td>Pervasive Computing and Interaction (TPCI)</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>24</td>
<td>Reviewer: Multimedia Tools and Applications</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>25</td>
<td>Reviewer: IEEE Access</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>26</td>
<td>Applied Soft Computing</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>27</td>
<td><strong>Editor-in-chief</strong> (Computer Science), International Journal of communication and computer Technologies, ISSN - 2278-9723</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>28</td>
<td><strong>Associate Editorial Board Member</strong>, Journal Recent Advances in Computer Science and Communications, ISSN: 2666-2566.</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>29</td>
<td><strong>Editorial Board Member</strong>, Journal of Autonomous Intelligence, ISSN: 2630-5046.</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>30</td>
<td><strong>Editorial Board Member</strong>, Journal of the Institute of Electronics and Computer, ISSN: 2643-8240</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>31</td>
<td><strong>Special Issue Editor</strong>: Journal Recent Advances in Computer Science and Communications, ISSN: 2666-2566.</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>32</td>
<td>Reviewer, Applied Soft Computing, Elsevier</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>33</td>
<td>Reviewer, Entertainment Computing, Elsevier</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>34</td>
<td>Reviewer, Journal of Engineering Science &amp; Technology</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>35</td>
<td>Reviewer, International Journal of Applied Evolutionary Computation (IJAEC), IGI Global. ISSN: 1942-3594</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>36</td>
<td>Reviewer, International Journal of Swarm Intelligence, Inderscience.</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>37</td>
<td>Reviewer, Data in Brief, Elsevier</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>38</td>
<td>Reviewer, Expert Systems with Applications, Elsevier, IF 5.4</td>
<td>Dr. Rubell Marion Lincy G.</td>
</tr>
<tr>
<td>39</td>
<td><strong>Special Issue Editor</strong>: Computing Journal, Springer</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>SN</td>
<td>Editor / Reviewer of Journal</td>
<td>IIIT Kottayam Faculty Member</td>
</tr>
<tr>
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</tr>
<tr>
<td>40.</td>
<td><strong>Special Issue Editor</strong>: SCPE journal</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>41.</td>
<td><strong>Special Issue Editor</strong>: IoT, Elsevier</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>42.</td>
<td><strong>Associate Editor</strong>: IEEE Access</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>43.</td>
<td>Reviewer: Computers and Industrial Engineering</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>44.</td>
<td>Reviewer: Journal of Parallel and Distributed Computing</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>45.</td>
<td>Reviewer: Multimedia Tools and Applications. IF 2.3</td>
<td>Dr. Keshab Nath</td>
</tr>
<tr>
<td>46.</td>
<td>Reviewer: Journal of Intelligent &amp; Fuzzy Systems. IF 1.8</td>
<td>Dr. Keshab Nath</td>
</tr>
<tr>
<td>47.</td>
<td>Reviewer: IEEE Internet of Things Journal</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>49.</td>
<td>Reviewer: International Journal of Communication Systems, Wiley</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>50.</td>
<td>Reviewer: SCPE journal</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>51.</td>
<td>Reviewer: Journal of Circuits, Systems, and Computers</td>
<td>Dr. Manjith B.C.</td>
</tr>
<tr>
<td>52.</td>
<td>Reviewer: Microelectronics Journal</td>
<td>Dr. Manjith B.C.</td>
</tr>
<tr>
<td>53.</td>
<td>Reviewer: Wiley Software Practice and Experience</td>
<td>Dr. Christina Terese Joseph</td>
</tr>
<tr>
<td>54.</td>
<td>Reviewer: Journal of Systems Architecture, Elsevier</td>
<td>Dr. Christina Terese Joseph</td>
</tr>
<tr>
<td>55.</td>
<td>Reviewer, International Journal of Pervasive Computing and Communications</td>
<td>Dr. Christina Terese Joseph</td>
</tr>
<tr>
<td>56.</td>
<td>Reviewer: IEEE Access</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>57.</td>
<td>Reviewer: IEEE Sensors</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>58.</td>
<td>Reviewer: IEEE Transactions on Intelligent Transportation Systems</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>59.</td>
<td>Reviewer: Wireless Networks, Springer</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>60.</td>
<td>Reviewer: Wireless Personal Communication</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>61.</td>
<td>Reviewer: IEEE Transactions on Computational Social Systems</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>62.</td>
<td>Reviewer: Computing, Springer</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>63.</td>
<td>Reviewer: Ad Hoc &amp; Sensor Wireless Networks</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>64.</td>
<td>Reviewer: Journal of ACM computing surveys</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>65.</td>
<td>Reviewer: Journal of Network and Computer Applications, Elsevier</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>67.</td>
<td>Reviewer: Journal of Big Data, Springer</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>68.</td>
<td>Reviewer: Journal of Super Computing, Springer</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>69.</td>
<td>Reviewer: Internet of Things, Elsevier</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>70.</td>
<td>Reviewer: International Journal of Machine Learning and Cybernetics, Springer.</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>71.</td>
<td>Reviewer: Journal of Theoretical Biology, Elsevier</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>72.</td>
<td>Reviewer: Journal of Grid Computing, Springer</td>
<td>Dr. J.V. Bibal Benifa</td>
</tr>
<tr>
<td>73.</td>
<td>Reviewer: ACM Transactions on Multimedia Computing, Communications and Applications</td>
<td>Dr. Jayakrushna Sahoo</td>
</tr>
<tr>
<td>74.</td>
<td>Reviewer: International Journal of Computing and Digital Systems</td>
<td>Dr. Jayakrushna Sahoo</td>
</tr>
<tr>
<td>75.</td>
<td>Reviewer: International Journal of Artificial Intelligence</td>
<td>Dr. Jayakrushna Sahoo</td>
</tr>
<tr>
<td>76.</td>
<td>Reviewer: Internet of Things</td>
<td>Dr. Jayakrushna Sahoo</td>
</tr>
<tr>
<td>77.</td>
<td>Reviewer: Asian Journal of Environment &amp; Ecology</td>
<td>Dr. Mathew C D</td>
</tr>
<tr>
<td>78.</td>
<td>Reviewer: Cornell Hospitality Review, USA</td>
<td>Dr. Mathew C D</td>
</tr>
<tr>
<td>79.</td>
<td>Reviewer: Commonground Publishing, USA</td>
<td>Dr. Mathew C D</td>
</tr>
<tr>
<td>80.</td>
<td>Editor: Journal of Economics and Technology Research, USA</td>
<td>Dr. Mathew C D</td>
</tr>
</tbody>
</table>

Table 7: Reputed International Journals: Editors & Reviewers from Faculty Members of IIIT Kottayam
Table 8: International Conference Reviewers from Faculty Members IIIT Kottayam

<table>
<thead>
<tr>
<th>SN</th>
<th>Name of Faculty Member from IIIT Kottayam</th>
<th>Number of PhD Guided other than IIIT Kottayam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Rajiv Dharaskar</td>
<td>13</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Shajulin Benedict</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Table 9: Number of PhD Guided other than IIIT Kottayam by Faculty Members of IIIT Kottayam

VI. Nurturing Innovation Culture through Two Way Industry Interface

1. From January 2020, IIIT Kottayam has started a unique course in India namely MTech in AI & Data Science for IT Working Professionals and from Aug 2021 started MTech in Cyber Security. IIIT Kottayam got overwhelming response from IT Sector and has admitted 122 students from 80 Leading IT Industries, which includes candidates with over 10 years of experience from top IT industries. This will dramatically enhance the industry based collaborative projects.
2. Admitted number of PhD scholars from IT Industry such as CDAC-Bangalore, Cognizant technologies, and so forth and they have preferred industry-based research projects.
3. TCS has conducted 1 credit course on Blockchain technology at IIIT Kottayam.
5. MOU with Industries: IIIT Kottayam has signed MOU with various organizations for incubation centers, T&P activities, Coding Clubs and Research Collaborations.

<table>
<thead>
<tr>
<th>SN</th>
<th>MoU Status</th>
<th>Organization</th>
<th>Date of MOU</th>
<th>Location</th>
<th>Purpose</th>
<th>Activities Carried Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Active</td>
<td>Symmetrix Computer Systems Pvt. Ltd.</td>
<td>23.09.2017</td>
<td>Bangalore</td>
<td>Joint incubation project work by Dr. Shajulin Benedict</td>
<td>Mentoring support for startups of AIC</td>
</tr>
<tr>
<td>2.</td>
<td>Active</td>
<td>Technical University Munich, Germany</td>
<td>18.04.2018</td>
<td>Germany</td>
<td>Collaborative Courses and Research activities</td>
<td>1. Continuous Faculty exchange programs. Our faculty has taken credit courses at TUM Germany</td>
</tr>
<tr>
<td>SN</td>
<td>MoU Status</td>
<td>Organization</td>
<td>Date of MOU</td>
<td>Location</td>
<td>Purpose</td>
<td>Activities Carried Out</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
<td>-----------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.</td>
<td>Active</td>
<td>Bose Information Technology</td>
<td>28.10.2018</td>
<td>Germany</td>
<td>Joint incubation project work by Dr. Shajulin Benedict</td>
<td>Initial discussions held for offering mentoring support to the startups of AIC.</td>
</tr>
<tr>
<td>4.</td>
<td>Active</td>
<td>Divella 3D Technologies Replicatron Research Labs Pvt. Ltd.</td>
<td>09.10.2018</td>
<td>Chennai</td>
<td>Joint incubation project work by Dr. Shajulin Benedict</td>
<td>Joint project development and patenting works with the PhD student.</td>
</tr>
<tr>
<td>5.</td>
<td>Active</td>
<td>Technolodge</td>
<td>25.11.2019</td>
<td>Cochin</td>
<td>T&amp;P by Dr. C D Mathew</td>
<td>1. One of our students Mr. Rumaise had developed an App called UNARV for the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>employment enhancement of Foreign Returnees due to Covid.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Discussion was held for Cooperative Bank Project</td>
</tr>
<tr>
<td>6.</td>
<td>Active</td>
<td>University of New Brunswick, Canada</td>
<td>02.12.2019</td>
<td>Canada</td>
<td>Research work with IIIT-Kottayam by Dr. Ebin Deni Raj</td>
<td>1. Participation in International Conference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Involved UG students and one PhD scholar on a project Forest Inventory and Tree</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Measurement via 360° Spherical Images</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3. Initiated the discussions on possible collaborations in the field of Cyber Security.</td>
</tr>
<tr>
<td>7.</td>
<td>Active</td>
<td>Reliance Corporate IT Park Ltd</td>
<td>16.01.2020</td>
<td>Mumbai</td>
<td>Joint incubation project work by Dr. Shajulin Benedict</td>
<td>Supporting startups by listening/commenting on their pitch decks.</td>
</tr>
<tr>
<td>8.</td>
<td>Active</td>
<td>DareToStart.org</td>
<td>29.07.2020</td>
<td>Germany</td>
<td>Joint incubation project work by Dr. Shajulin Benedict</td>
<td>Joint Indo-European hackathon program was organized in 2020.</td>
</tr>
<tr>
<td>9.</td>
<td>Active</td>
<td>NIMHANS Bangalore</td>
<td>03.10.2020</td>
<td>Bangalore</td>
<td>Collaborative Research work by Dr. Bini AA</td>
<td>From 15th February 2021, Ms. Sreelakshmi PhD scholar under Dr. Bini AA is doing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>collaborative research on Brain Computer Research at Department of Neurology,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NIMHANS Bangalore. It will continue till June 2021.</td>
</tr>
<tr>
<td>10.</td>
<td>Active</td>
<td>Build, Austria</td>
<td>30.12.2020</td>
<td>Austria</td>
<td>Joint incubation project work by Dr. Shajulin Benedict</td>
<td>Mutual visits of startups from India to Austria and vice-versa. Held up this year due</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>to COVID-19.</td>
</tr>
<tr>
<td>11.</td>
<td>Active</td>
<td>Sunrise Mentors Pvt. Ltd. (Coding)</td>
<td>20.04.2021</td>
<td>New Delhi</td>
<td>To improve the programming and</td>
<td>MoU signed in April.</td>
</tr>
</tbody>
</table>
### Table 11: MOUs with various Organizations

<table>
<thead>
<tr>
<th>SN</th>
<th>MoU Status</th>
<th>Organization</th>
<th>Date of MOU</th>
<th>Location</th>
<th>Purpose</th>
<th>Activities Carried Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Under Process</td>
<td>Ninjas), New Delhi</td>
<td></td>
<td></td>
<td>competitive coding skills of IIITK students, by Dr. Victor Paul</td>
<td>Initial discussion with Coding Ninjas Coordinator is done through online mode. Selection of Student coordinators for technical activities is in progress. Activities like online coding competition, technical stream guidance, and technical support for placement are planned from June 2021.</td>
</tr>
<tr>
<td>12</td>
<td>Active</td>
<td>Aster Digital Health Incubator</td>
<td>26.4.2021</td>
<td>Bangalore</td>
<td>Dr. Shajulin Benedict</td>
<td>Discussions to establish a Centre of Excellence of ASTER at our campus were carried out based on the signed MoU.</td>
</tr>
<tr>
<td>13</td>
<td>Under Process</td>
<td>Rubber Research Institute, Kottayam</td>
<td>-</td>
<td>Kottayam</td>
<td>Collaborative Research work by Dr. Shajulin Benedict, Dr. C D Mathew and Dr. Divya Sindhu Lekha</td>
<td>Joint research works were initiated for undertaking them along with the students/startups.</td>
</tr>
<tr>
<td>14</td>
<td>Under Process</td>
<td>Miles Education</td>
<td>-</td>
<td>India</td>
<td>For certificate courses by Dr. Ebin Deni Raj</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>Under Process</td>
<td>DPhi</td>
<td>-</td>
<td>Belgium</td>
<td>Certificate courses and Research by Dr. Rubell Marion Lincy G</td>
<td>-</td>
</tr>
<tr>
<td>16</td>
<td>Under Process</td>
<td>CDAC Trivandrum</td>
<td>-</td>
<td>Trivandrum</td>
<td>Collaborative PG Courses by Dr. Ebin</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>Under Process</td>
<td>UST Global</td>
<td>-</td>
<td>Trivandrum</td>
<td>T&amp;P by Dr. C D Mathew</td>
<td>T&amp;P activities</td>
</tr>
<tr>
<td>18</td>
<td>Under Process</td>
<td>Boat</td>
<td>-</td>
<td>Chennai</td>
<td>T&amp;P by Dr. C D Mathew</td>
<td>T&amp;P activities</td>
</tr>
</tbody>
</table>

6. Scientific and Industrial Research Organization (SIRO) status was received from the Department of Scientific and Industrial Research, Govt. of India.

7. Adjunct faculty members from industry engaged so far:
   a. Dr. Shabu B. Raj, Scientist, DRDO Bangalore
   b. Dr. Oommen K Mathew, Computational Genomics Scientist at AgriGenome Labs Pvt Ltd.
   c. Dr. Ranjit Thomas Abraham, Former Senior DRDO Scientist
   d. Dr. Sarika Lohana, State Bank Institute of Innovation and Technology, Hyderabad

8. Organized more than 20 Guest Lecturers of the experts from IT Industry. Details about 60 more events at [http://www.iiitkottayam.ac.in/#!/researchActivities](http://www.iiitkottayam.ac.in/#!/researchActivities) and at [http://www.iiitkottayam.ac.in/#!/events](http://www.iiitkottayam.ac.in/#!/events)
9. Around 20 mentors, including industrial mentors from Hawaii, Telefon Germany and Northeastern University USA, have registered for participating at AIC-IIIT Kottayam.

10. Received funding for industrial joint research projects from
   a. Microsoft- AI for Earth Grant USA
   b. Volkswagen Germany
   c. University of Klagenfurt BMFW Austria
   http://icentre.iiitkottayam.ac.in/energycompiler.html
   d. BEL

11. Most of the IIIT Kottayam students are going for industry internships. The following chart shows this.

<table>
<thead>
<tr>
<th>SN</th>
<th>Name</th>
<th>Internship Company and Field Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Abhishek Vishwakarma</td>
<td>Cavadium Retail</td>
</tr>
<tr>
<td>2</td>
<td>Adhyan</td>
<td>Web Developer, HPC Sphere Pvt Ltd, Delhi</td>
</tr>
<tr>
<td>3</td>
<td>Aditya Kumar Nayak</td>
<td>Core Java in central tool room and training center, Bhubaneswar,</td>
</tr>
</tbody>
</table>
| 4  | Anshuman Mishra    | 1. Stabilitygroup  
                        | 2. Ericsson                                                               |
| 5  | Ashish Gusain      | 1. Ericsson (Research Intern)                                              |
|    |                    | 2. Alphabt, Srimannagar, Alwarpet, Chennai (Artificial Intelligence)      |
|    |                    | 3. Bayes Labs, Bengaluru, Karnataka (Backend Developer)                   |
|    |                    | 4. Milkie Way Incorporation, Santa Clara, California, US (Full-Stack Developer) |
|    |                    | 5. Bharat Electronics Limited, Kotdwara (Web)                             |
| 6  | D Neehari Naik     | 1. IIT Madras Student’s startup                                           |
|    |                    | 2. DbyT Dynamics                                                           |
| 7  | Deepesh Sharma     | Vidooly Media Tech, Noida Uttar Pradesh                                   |
| 8  | Jaineel Fenal Dharia| In-touch Engineering Pvt. Ltd, Vadodara, Gujarat                          |
| 9  | Kshitij Pal        | 1. DRDO                                                                   |
|    |                    | 2. LeadingIndia.ai                                                        |
| 10 | Love Kumar         | DST-NIMAT (IIIT-Kottayam)                                                 |
| 11 | Mahfuz Hasan       | The Shaadi times                                                          |
| 12 | Mekala Uday Bhargav| Codespeedy Technologies                                                   |
| 13 | Neeraj S           | TCS                                                                       |
| 14 | Sameer Ahmed S J   | Big Clout Media LLC, Android App Developer                                |
| 15 | Santosh Sharma     | 1. The Sparks Foundation, Data Science & Analytics                         |
|    |                    | 2. JPMorgan Engineering Virtual Experience                                 |
|    |                    | 3. IIM Bangalore, Campus Ambassador                                       |
| 16 | Vishal Shivakumar  | 1. Niflr, Bengaluru Computer Vision                                         |
|    | Kanakamamidi       | 2. 56 Secure, Bengaluru, Computer Vision Research                         |
|    |                    | 3. Kontiki Innovation Labs, Bengaluru, Computer Vision                    |
|    |                    | 4. Robert Bosch, Bengaluru, Computer Vision Research                      |
| 17 | Vishnu Khanth B    | Dattendriya Data Science Solutions, Salem                                  |
| 18 | Sreelakshmi Ajith  | UST Global                                                                 |
| 19 | Ankit Anand        | UST Global                                                                 |
## Third Year (49/86) Batch 2018 – Internships 127

<table>
<thead>
<tr>
<th>SN</th>
<th>Name</th>
<th>Internship Company and Field Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Rishabh Jaiswal</td>
<td>UST Global</td>
</tr>
<tr>
<td>21</td>
<td>Sai Manoj</td>
<td>UST Global</td>
</tr>
<tr>
<td>22</td>
<td>Vedant Joshy</td>
<td>UST Global / TCS</td>
</tr>
<tr>
<td>23</td>
<td>Neeraj Sajeev Nair</td>
<td>TCS / SURVEY SPARROR</td>
</tr>
<tr>
<td>24</td>
<td>Ayush Rai</td>
<td>TCS</td>
</tr>
<tr>
<td>25</td>
<td>Sangeetha Suresh</td>
<td>Robert Bosch</td>
</tr>
<tr>
<td>26</td>
<td>Suryapal Singh</td>
<td>Ericsson</td>
</tr>
<tr>
<td>27</td>
<td>Mattapatty Satya Barghavi</td>
<td>Robert Bosch</td>
</tr>
<tr>
<td>28</td>
<td>Subham Mishra</td>
<td>SUD LIFE</td>
</tr>
<tr>
<td>29</td>
<td>Garvit Sharma</td>
<td>SUD LIFE</td>
</tr>
</tbody>
</table>
| 30 | A V Bhayya            | 1. Larsen & Toubro, Software Developer Intern  
2. Verzeo With Microsoft, Azure Cloud Computing  
3. Precify Erut-Lucirga private limited, Android App developer  
4. VISMAP Labs Private Limited, Android Development  
5. The Sparks Foundation, Data Science Research Intern  
6. RYD, Android App Developer  
7. Pyanalytix, Machine Learning Research Intern  
8. Widhya, Data Science Intern  
9. Mistry Brothers, Android App Developer  
10. LeadGenics, Web Designer  
11. Ericsson Global India Services, Software Frontend Developer                                                                 |
| 31 | A V S Adityavardhan   | 1. GeeksforGeeks, Technical Content Writer & Campus Ambassador  
2. Sanfoundry, Content Writing  
3. Tata Consultancy Services, Campus Ambassador  
4. Internshala, Campus Ambassador  
5. Bolt IoT, Campus Ambassador  
6. Scaler Academy, Freelance Content Writer  
7. UST Global, Deep Learning  
8. Techvolt Software Pvt. Ltd., Web Development  
9. SurveySparrow, Full Stack Web Development  
10. Artbook, Backend Developer  
11. Fleeks, Backend Developer  
12. Techolution, Data Science                                                                                                         |
| 32 | Abhishek Pasumarthi   | 1. The Sparks Foundation, Web development  
2. Exposys data labs, Software development                                                                                                                                |
| 33 | Allu Harsha Vardhan   | Hindustan Shipyard, Desktop Application Development (Chat Application)                                                                                                            |
| 34 | Ananthu Raghuvamsi    | Verzeo, Machine Learning                                                                                                                                                     |
| 35 | Anjali M N            | 1. Sparks Foundation, Machine Learning  
2. Verzeo, Machine Learning                                                                                                                                                    |
| 36 | Antony Francis        | Reliance JIO, Big Data Analysis and using different Python libraries                                                                                                           |
| 37 | Bhaskar Purohit       | 1. Proxima Alpha Pvt Ltd, Application Development  
2. Rootally AI, Application Development with implementation of ML in android apps                                                                                          |
| 38 | Bivek Benoy Paul      | 1. DbyT Dynamics, Android Development  
2. Verzeo, Machine Learning                                                                                                                                                    |
<table>
<thead>
<tr>
<th>SN</th>
<th>Name</th>
<th>Internship Company and Field Details</th>
</tr>
</thead>
</table>
| 39 | Dinesh Devaraneni          | 1. Sparks foundation, Web development  
2. Technocolabs, Deep learning                                                                                               |
| 40 | Gudi Avinash                | 1. Widhya, Web Development  
2. Exposys Data Labs, Software development  
3. The Sparks Foundation, Web Development                                                                                                    |
| 41 | Gummadi Avinash             | 1. Healthybharath, Web developer  
2. The-farmers, Web developer                                                                                                         |
| 42 | Jonnalagadda Venkata Sathya Krishna | 1. UST global, NLP  
2. HSMP solutions, Full Stack Development  
3. The Sparks Foundation, Data Science  
4. ArtBook the Platform, Software Development  
5. Verzeo, Machine learning                                                                                                             |
| 43 | Karthik B S                 | 1. UST Global, Data Science  
2. Verzeo & Microsoft AEP, Artificial Intelligence                                                                                           |
| 44 | Kothapalle Shyam Sundar     | Exposy Data Labs, Bangalore, Software developer                                                                                                                                          |
| 45 | Kushagra Manish             | NYTRO AI                                                                                                                                         |
| 46 | Kumari Misa                 | 1. Indian National Youth Foundation, Web Development  
2. Shine projects, Marketing, Sales  
3. Samagara Foundation, Web development                                                                                                      |
| 47 | Lavanya                     | Rinex, Machine Learning                                                                                                                          |
| 48 | M G Christopher             | 1. Daddy Santa Software Solutions, Web Development  
2. Iotiot.in, Deep Learning  
3. NIT Calicut, Deep Learning                                                                                                           |
| 49 | Macharla Sindhuja           | 1. Verzeo, Machine Learning  
2. The Sparks Foundation, Data Science  
3. UST Global, Datascience (NLP)                                                                                                           |
| 50 | Mahesh M                    | 1. UST Global, Distributed computing  
2. IIT Indore, Computer organisation and design                                                                                               |
| 51 | Meesala Sowmya              | IIT Indore, Computer networks and network security                                                                                                                                             |
| 52 | Muhammed Nihal K V          | 1. Verzeo, Machine learning  
2. Verzeo, Campus ambassador                                                                                                                |
| 53 | Muhammed Nizar E            | Kerala police, Cyber security                                                                                                                |
| 54 | Muskan Rana                 | Binge N Chill, Web Development                                                                                                                  |
| 55 | Nikhil Kumar Ghangbor      | 1. Robert Bosch Engineering And Business Solutions, Deep Learning  
2. Originating Motion Web Services Pvt. Ltd., Backend Development  
3. Amar Ujala Web Services Pvt. Ltd., Voice Apps  
| 56 | Pamarthi Kunal              | The Sparks foundation, Web Development                                                                                                           |
| 57 | Pamula Sarath Kumar         | Exposys Data Labs, Software Developer                                                                                                           |
| 58 | Pedada Venkata Harsha       | Verzeo, Machine Learning                                                                                                                        |
| 59 | Prabal Kalia                | 1. OPK eservices Pvt. Ltd., Web Development, Flask  
2. IBM, DevOps                                                                                                                                       |
| 60 | Prabhav Kumar Singh         | Vedantu, Machine Learning, Robert Bosch                                                                                                           |
| 61 | Pushpam Saxena              | 1. SMT Group PVT. LTD., MEAN Stack  
2. Goodera, Data Engineering Internship  
3. Connekt Technologies, Flutter                                                                                                               |
<table>
<thead>
<tr>
<th>SN</th>
<th>Name</th>
<th>Internship Company and Field Details</th>
</tr>
</thead>
</table>
| 62 | Rachit Verma          | 1. Concentrix, Machine Learning  
2. Tigerspike, Video Streaming / AWS Cloud / Node JS                                                   |
| 63 | Rahul Nayak BV        | 1. L&T Construction Equipment, Web Development  
2. Verzeo, Machine Learning                                                                          |
| 64 | Rumaise               | 1. Pollution Control Board Kerala, Android Development  
2. Echo vector United Kingdom, Android Development  
3. Hindustan Shipyard Ltd, Vishakhapatnam, Desktop Application  
4. Finleect, Dubai, Android Development  
5. Antrika, Blockchain  
6. IIIT Hyderabad Product Lab, Android Development  
7. Verzeo, Campus Ambassador  
8. Bharath Electronics Limited Bangalore, Blockchain                                                |
| 65 | Saarun P Nair         | Biztime IT Solutions, Full Stack Developer                                                            |
| 66 | Sai Kumar Avu         | 1. Healthy Bharath, Node js  
2. Verzeo, Machine Learning                                                                          |
| 67 | Sangeetha J           | Rinex, MI statistics                                                                                   |
| 68 | Shivansh Darshan      | UST Global                                                                                              |
| 69 | Snehamol Balan        | 1. Innovidutech Training with internship, Data Science  
2. Verzeo Edutech Training with Internship, Full Stack Web Development                                  |
| 70 | Sumadithya Sreenivasa | Widhya, Data Science                                                                                   |
| 71 | Sumana Bushireddy     | 1. Verzeo, Web Development  
2. Sparks Foundation, Data Science  
3. Widhya, Machine Learning                                                                         |
| 72 | Tejash More           | 1. Hexaware Technologies, Machine Learning  
2. Harman International, Data science                                                                  |
| 73 | Tijo Thomas           | 1. Microsoft Authorized education partner, Machine Learning  
2. Verzeo, Campus Ambassador                                                                         |
| 74 | Uppili Sandeep        | The sparks Foundation, Web Development and design                                                      |
| 75 | Vaisak Dileep         | 1. DbyT Dynamics, Android Development  
2. Verzeo, Machine Learning                                                                          |
| 76 | Vishnu Ajith          | Indian Academy of Sciences, Deep Learning for Bio-imaging                                               |
| 77 | Y Vinay               | 1. Verzeo, Machine Learning  
2. Reach Technologies, Data Science  
3. The Sparks Foundation, Web development  
4. Youth Empowerment Foundation, Social Activities (covid crisis fundraising)                         |
| 78 | Yarlagadda Sai Bhavadeesh | RedPositive Service OPC Private Limited, Flutter App Development                                      |

**Second Year (18/116) Batch 2019 - Internships 26**

<table>
<thead>
<tr>
<th>SN</th>
<th>Name</th>
<th>Internship Company and Field Details</th>
</tr>
</thead>
</table>
| 79 | Abhijith S Babu       | 1. MyCaptain, Social Media Marketing  
2. Prepbytes, Social Media Marketing                                                                  |
| 80 | Aditya Mutharia       | Aero Telcom Solutions Pvt Ltd, Web Development                                                        |
| 81 | Alwin Sebastian       | UST Global, Data Science - Computer Vision                                                             |
| 82 | Aryan Yadav           | Connekt Technologies, Web development, ReactJS developer                                               |
| 83 | Chandrima Meloth Jayaram | Mantrapoynt Inc., Web Designing                                                                      |
| 84 | Cyril Kunjumon        | Phyzok, Content writing                                                                                |
VII. Nurturing Innovation Culture through Internationalization

IIIT Kottayam is focusing on internationalization through:

1. Live MOUs with top ranking foreign universities such as Austria, Germany and Canada. MoU for faculty and student exchange with TUM, Germany. As per Times World University Ranking TUM Germany is 43rd Ranked top most University of the world.
2. Submitted or sanctioned 23 collaborative research projects with following countries

<table>
<thead>
<tr>
<th>SN</th>
<th>Country</th>
<th>Number of Projects from each country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Austria</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Brazil</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Brunei</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>European Union (EU)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Italy</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Japan</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>Malaysia</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Portugal</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Russia</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Serbia</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>USA</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

Table 13: 23 Collaborative research projects with 12 different countries
3. Received funding for industrial joint research projects from Microsoft, Volkswagen Germany etc.
4. Two faculty have done Post Doc from ICP, University, Stuttgart, Germany and TUM Germany. One faculty has done PG from Coventry University UK and PhD from Pretoria University South Africa. One faculty has done Post Doc from University of Linz, Austria.
5. Five globally renowned foreign academicians / industry personals are conducting special one credit UG courses.
6. IIIT-K faculty members have published Joint Research Papers with faculty of top foreign universities and industry personals.
7. IIIT Kottayam has successfully organized Second IEEE International conference.
8. Introduced foreign languages like French and Germany at first year level.
9. Our faculty Dr. Shajulin Benedict is taking credit courses at TUM Germany and faculty of TUM Germany is conducting credit courses at IIIT Kottayam.
10. Dr. Ebin has selected as an ACM Distinguished speaker in Data science by ACM (Association for Computing Machinery) for a tenure of three years.
11. Dr. Shajulin has organized Indo-European Entrepreneurial Hackathon – IEE-Hacks2020 on 27-29 Nov 2020: It is a Hackathon on IoT Cloud Analytics and Visualization for boosting Indo-European entrepreneurial interests. The organizing partners are:
   a. IIIT Kottayam
   b. AIC IIIT-Kottayam Foundation
   c. MSME Business Incubation Centre IIIT-Kottayam
   d. DaretoStart (Company), Germany.
12. Internship at Foreign University / Company

<table>
<thead>
<tr>
<th>SN</th>
<th>Name of Student</th>
<th>Foreign Internship - Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Yashwant Srivatsav, 2015 batch</td>
<td>USA</td>
</tr>
<tr>
<td>2.</td>
<td>Mannem Srinivas, 2016 Batch</td>
<td>USA</td>
</tr>
<tr>
<td>3.</td>
<td>Chatla Akileshwara Kumar, 2016 Batch</td>
<td>Austria</td>
</tr>
<tr>
<td>4.</td>
<td>Ashish Gusain</td>
<td>Switzerland, USA</td>
</tr>
<tr>
<td>5.</td>
<td>Rumaise</td>
<td>UK, Dubai</td>
</tr>
</tbody>
</table>

Table 14: Foreign Internships

VIII. Nurturing Innovation Culture through Boosting Learning Attitude and Learning Beyond Syllabus

1. Organized 32 Webinars for students and faculty during Covid-19 Pandemic in which speaker across the globe have participated and delivered the talks on various latest technologies.
2. In IT, the absolution rate of technologies is very high and no curriculum in the world can teach all the latest IT Technologies. Thus, students need to learn beyond syllabus through various Professional Certification options such as Coursera, Udemy, Ed tech, Swayam, NPTEL, Java, Oracle etc. In recruitment process, the IT companies are looking for lifelong learners. That is, they want candidates with Learning attitude and desire. The students can show these only through these certification courses. Most of the students of IIIT Kottayam are actively involved in this activity. More than 400 students have done these certification
courses. The following chart shows only few of them. During Covid Pandemic, we got free access to Coursera under “Coursera for Campus Response Program”.

<table>
<thead>
<tr>
<th>SN</th>
<th>Student Name</th>
<th>Pursued / Pursuing Course Name</th>
<th>Certification by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AVS Aditya Vardhan</td>
<td>Introduction to Tensorflow for AI, ML AND DL, Introduction to Deep Learning, Python zero to hero bootcamp, Introduction to Machine Learning, Career Edge knockdown the lockdown</td>
<td>Deeplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pierrean Data, Internshala Trainings, TCS IoN</td>
</tr>
<tr>
<td>3</td>
<td>Y. Vinay</td>
<td>Programming for everybody, Deep Learning, Machine Learning, Deep Learning- Specialization</td>
<td>Coursera/Stanford, Coursera/Deeplearning.ai</td>
</tr>
<tr>
<td>4</td>
<td>Vibhor Vij</td>
<td>Programming for everybody, Deep Learning, Machine Learning, Deep Learning- Specialization</td>
<td>Coursera/Stanford, Coursera/Deeplearning.ai</td>
</tr>
<tr>
<td>6</td>
<td>Vishal Shivakumar Kanakamamidi</td>
<td>Convolutional Neural Networks</td>
<td>Coursera, Internshala</td>
</tr>
<tr>
<td>7</td>
<td>Nikhil Kumar Ghanghor</td>
<td>Deep Learning, AI Tensorflow Developer, Deep Learning, AI Tensorflow Developer, Deep Learning, AI Tensorflow Developer</td>
<td>deeplearning.ai, Coursera, Coursera</td>
</tr>
<tr>
<td>8</td>
<td>Mekala Uday Bhargav</td>
<td>Python, Python Problem solving, Django, Java, Using Python to Access Web Data</td>
<td>Solo learn, Hackerrank, Youtube, Internshala, University of Michigan, Coursera</td>
</tr>
<tr>
<td>9</td>
<td>Anjali M N</td>
<td>machine learning, Interactivity with JavaScript, Python Project: pillow, tesseract, and opencv</td>
<td>Verzeo, University of Michigan, Coursera</td>
</tr>
<tr>
<td>10</td>
<td>Shubham Mishra</td>
<td>Coursera Machine learning, Python masterclass, Coursera Machine learning, Python masterclass</td>
<td>Stanford, Coursera, Udemy, Coursera</td>
</tr>
<tr>
<td>SN</td>
<td>Student Name</td>
<td>Pursued / Pursuing Course Name</td>
<td>Certification by</td>
</tr>
<tr>
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</tr>
<tr>
<td>12</td>
<td>Sohel Samirkhan</td>
<td>Capstone: Retrieving, Processing, and Visualizing Data with Python</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td></td>
<td>Modi Tamboli</td>
<td>Cyber Security and Internet of Things</td>
<td>Kennesaw State University, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cyber Security and Internet of Things</td>
<td>Kennesaw State University, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to Pointers and Memory Management in C/C++ Programming For Everybody</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COVID-19: What You Need to Know (CME Eligible)</td>
<td>Osmosis.org, Coursera</td>
</tr>
<tr>
<td>13</td>
<td>Abhijith S Babu</td>
<td>Web applications for everybody</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td>14</td>
<td>Vishnu Ajith</td>
<td>Neural Networks and Deep Learning</td>
<td>Deeplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization</td>
<td>deeplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vishnu Ajith</td>
<td>deeplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Convolutional Neural Networks</td>
<td>Deeplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Build a Modern Computer from First Principles: From Nand to Tetris Part1</td>
<td>Hebrew University of Jerusalem, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning</td>
<td>Deeplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Psychological First Aid</td>
<td>John Hopkins University, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Hardware of a Quantum Computer</td>
<td>Technical University Delft, EdX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Architecture, Algorithms, and Protocols of a Quantum Computer and Quantum Internet</td>
<td>Technical University Delft, EdX</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced JAVA Technologies</td>
<td>CDAC</td>
</tr>
<tr>
<td>15</td>
<td>D. Neehari Naik</td>
<td>Deep Learning and NLP A-Z™: How to create a ChatBot</td>
<td>Udemy</td>
</tr>
<tr>
<td>16</td>
<td>Paruchuri Sai Suhas</td>
<td>Python programming for everybody</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td>17</td>
<td>A. Nithin</td>
<td>Programming for Everybody (Getting Started with Python)</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University of Michigan Python Data Structures</td>
<td>Coursera</td>
</tr>
<tr>
<td>18</td>
<td>Alaka Jayan</td>
<td>Web Applications for Everybody</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HTML, CSS, and Javascript for Web Developers</td>
<td>Johns Hopkins University, Coursera</td>
</tr>
<tr>
<td>19</td>
<td>J V S Krishna</td>
<td>Machine learning</td>
<td>Verzeo</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete C++ programming</td>
<td>Emenwa Gobal, Udemy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete PHP opp concepts</td>
<td>Srinivasa Vanamala, Udemy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crash course Laravel 7 and vue js Bootcamp</td>
<td>Gerrit Vermeulen, Udemy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The complete 2020 PHP full stack web developer bootcamp</td>
<td>Srinivas Vanamala, Udemy</td>
</tr>
<tr>
<td>20</td>
<td>Sameer Ahmed S J</td>
<td>Programming, Data Structures and Algorithms Using Python</td>
<td>IITM, NPTEL</td>
</tr>
<tr>
<td>SN</td>
<td>Student Name</td>
<td>Pursued / Pursuing Course Name</td>
<td>Certification by</td>
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<td>----------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to Machine Learning</td>
<td>IIT Kharagpur, NPTEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Natural Language Processing (with honors)</td>
<td>National Research University Higher School of Economics, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Autopsy Basics and Hands On</td>
<td>Basis Technology, Autopsy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neural Networks and Deep Learning</td>
<td>DeepLearning.AI, Coursera</td>
</tr>
<tr>
<td>21</td>
<td>Ashish Gusain</td>
<td>Data Science</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Machine Learning</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Deep Learning</td>
<td>Coursera</td>
</tr>
<tr>
<td>22</td>
<td>Charles V.J.</td>
<td>Algorithmic Toolbox</td>
<td>University of San Diego, Coursera</td>
</tr>
<tr>
<td>23</td>
<td>Kumari Misa</td>
<td>Javascript, HTML5, CSS, Cybersecurity</td>
<td>University of Michigan, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Machine Learning – Stanford</td>
<td>Stanford – Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neural Networks and Deep Learning</td>
<td>Deplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Natural Language Processing In Tensorflow</td>
<td>Deplearning.ai, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Complete Self-Driving Car Course - Applied Deep Learning</td>
<td>Udemy</td>
</tr>
<tr>
<td>24</td>
<td>Anshuman Mishra</td>
<td>Deep Learning Specialization</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tensorflow Specialization</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RestAPI Certification</td>
<td>Hackerrank</td>
</tr>
<tr>
<td>25</td>
<td>Pushpam Saxena</td>
<td>Google IT Automation with Python</td>
<td>Google, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to Discrete mathematics for computer science</td>
<td>University of California San Diego &amp; National Research University Higher School of Economics, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Front end development with React</td>
<td>The Hong Kong University of Science and Technology, Coursera</td>
</tr>
<tr>
<td>26</td>
<td>Seshathri S</td>
<td>Oracle Certified Java Associate Programmer</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td>Vedant Sandeep Joshi</td>
<td>Deep learning Specialization</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tensorflow In Practice Specialization</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TensorFlow: Data And Deployment Specialization</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction To Data Science In Python</td>
<td>Coursera</td>
</tr>
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<td></td>
<td></td>
<td>Applied Plotting, Charting Data Representation in Python</td>
<td>Coursera</td>
</tr>
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<td></td>
<td></td>
<td>Applied Machine Learning in Python</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Complete 2020 Flutter Development Bootcamp with Dart</td>
<td>Coursera</td>
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<tr>
<td></td>
<td></td>
<td>Deep Learning Computer Vision™ CNN, OpenCV, YOLO, SSD &amp; GANs</td>
<td>Coursera</td>
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<tr>
<td></td>
<td></td>
<td>Drone Programming Primer for Software Development</td>
<td>Coursera</td>
</tr>
</tbody>
</table>
Table 15: Certificate courses (Out of over 400 entries only few are displayed)

IX. Nurturing Innovation Culture through Interdisciplinary Approach

1. The Data Science is the highly Interdisciplinary field of computer science. Our BTech and MTech Curriculum covers almost every important subject of “Data Science”.

<table>
<thead>
<tr>
<th>SN</th>
<th>Student Name</th>
<th>Pursued / Pursuing Course Name</th>
<th>Certification by</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Sagar Bhatia</td>
<td>Frontend web development with react</td>
<td>John Hopkins University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Frontend web development ui and frameworks: bootstrap 4</td>
<td>Hong Kong University of science and technology, Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HTML CSS JavaScript for web developer</td>
<td>John Hopkins University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hong Kong University of science and technology, Coursera</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>29</td>
<td>Abhimanyu Kumbhar</td>
<td>Introduction to Quantum Computing and Quantum Hardware</td>
<td>Summer School, IBM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practical Quantum Computing using Qiskit and IBMQ</td>
<td>Electronics &amp; ICT Academy (IIT Roorkee), Bootcamp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to Quantum Computing with IBM Quantum</td>
<td>The Coding School</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>30</td>
<td>Prasanna Devadiga</td>
<td>Deep Learning Specialization (5 courses total)</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Python for everybody Specialization (2 courses)</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Python for Data Science and Machine Learning Bootcamp</td>
<td>Udemy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete Tensorflow 2 and Keras Deep Learning Bootcamp</td>
<td>Udemy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>React - The Complete Guide (incl Hooks, React Router, Redux)</td>
<td>Udemy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Joel Mathew Philip</td>
<td>Introduction to Data Science in Python</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Convolutional Neural Networks</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNN in Tensorflow</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Improving Deep NN: Hyperparamertization</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neural networks and DL</td>
<td>Coursera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Structuring ML Projects</td>
<td>Coursera</td>
</tr>
</tbody>
</table>
Fig. 01: Data Science as well as Cyber Security are highly Interdisciplinary fields

2. Introduced Interdisciplinary subjects like Bio-Informatics at second year level.
3. Introduced 6 Management courses (one credit each) to boost entrepreneurial activities and to boost interdisciplinary activities in Finance and Management sectors.
   - Fundamentals of Economics
   - Principles of Management
o Business Communication Skills
  o Human Resource Management
  o Financial Management & Accounting
  o Operations and Supply Chain Management
5. Introduced highly interdisciplinary course namely MTech (Cyber Security) for working professionals from Aug 2021.

X. Nurturing Innovation Culture through Student’s Open-Source Contributions

We are focusing on developing open-source contribution culture through Coding platforms: GitHub, Sourceforge, Gitea, Apache Allura, Codechef, Codeforces, Spoj, A2oj, HackerEarth and Kaggle for ML, Data Science etc. It’s a time-consuming job and litter bit more time is required to see the results.

XI. Nurturing Innovation Culture through Networking of People & Development of Knowledge Base Society

IIIT Kottayam has organized hundreds of Events and Programs such as:
  1. Faculty Development Programs (FDP),
  2. Student’s Internship programs for external students
  3. Series of Webinars
  4. Seminars
  5. Conferences
  6. Symposums
  7. YouTube Channel for teaching programming languages C/C++
  8. Various Collaborative Activities for IIIT Kottayam and for Incubation Centers
  9. PhD Programs
  10. Post Doc Programs
  11. MTech for working professionals
  12. Faculty members of IIIT Kottayam has participated / conducted events in other institutes / organizations and participated as Resource Person, Editor, Reviewers etc.

Thousands of faculty members, students, research scholars, industry personals, academicians have joined these events / programs across the India & globe. It helped us a lot for developing Knowledge Base Society and for developing excellent networking of talented people across the globe.

<table>
<thead>
<tr>
<th>SN</th>
<th>Events Across India and the Globe – Conference / Seminar / Webinar / Symposium / FDP</th>
<th>Date</th>
<th>IIIT Kottayam’s Faculty Member as a Resource Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Bibliographic Data Analysis - Online - as part of Refresher Course in Data Analytics and Machine Learning, UGC-Human Resource Development Centre, University of Kerala</td>
<td>02.03.2021</td>
<td>Dr Divya Sindhu Lekha</td>
</tr>
<tr>
<td>2.</td>
<td>“Story of Unexplored Networks” (Research Explorations on Graphs and Complex Networks) – Online - as part of WOMEN</td>
<td>12.03.2021</td>
<td>Dr Divya Sindhu Lekha</td>
</tr>
<tr>
<td>SN</td>
<td>Events Across India and the Globe – Conference / Seminar / Webinar / Symposium / FDP</td>
<td>Date</td>
<td>IIIT Kottayam’s Faculty Member as a Resource Person</td>
</tr>
<tr>
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</tr>
<tr>
<td>3.</td>
<td>Research Writing as part of Online FDP on Research Tools – Online Hands-on Training, NSS College of Engineering Palakkad</td>
<td>25.03.2021</td>
<td>Dr Divya Sindhu Lekha</td>
</tr>
<tr>
<td>4.</td>
<td>Keynote speaker in the International Conference on Computational Intelligence and Digital Technologies ICCIDT2K21 hosted by Department of Computer Science and Engineering.</td>
<td>15.05.2021</td>
<td>Dr. Manjith B.C.</td>
</tr>
<tr>
<td>6.</td>
<td>TEQIP-III sponsored Five days FDP on IOT and Embedded applications, CUSAT, Kochi</td>
<td>07.02.2020</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>7.</td>
<td>KTU sponsored FDP on Recent Developments in Machine Learning and Data Science, TOCH Institute of Science and Technology, Kochi</td>
<td>03.06.2021</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>8.</td>
<td>FDP on Recent Research Trends in Communication Engineering, and the topic is “VLSI Implementation of Signal Processing Systems”, conducted by R&amp;D cell of Indra Ganesan College of Engineering, Trichy, Tamil Nadu</td>
<td>28.05.2021</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>9.</td>
<td>Technical Webinar on “Machine Learning and Deep Learning Architectures”, REVA University Bangalore</td>
<td>15.05.2021</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>10.</td>
<td>“Social Big Data”, as part of AICTE FDP at Sree Ramakrishna Engineering College, Coimbatore</td>
<td>28.11.2017</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>11.</td>
<td>&quot;Data Science and Data Engineering” at DST-NIMAT Cloud Solutions for Emerging IoT Applications,</td>
<td>22.12.2018</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>12.</td>
<td>STTP on &quot;Data Science and Artificial Intelligence” at St Gitts College of Engineering</td>
<td>16.10.2019</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>13.</td>
<td>Invited Talk on &quot;Trends in Data Science and Artificial Intelligence” at ToCH college of Engineering and Technology</td>
<td>11.02.2020</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>14.</td>
<td>Talk on “Machine Learning Research concerns and challenges” as part of AICTE FDP, organized by Amal Jyothi College of Engineering as part of 6-day STTP. The session can be accessed at : <a href="https://www.youtube.com/watch?v=bzjcWr4ITOW">https://www.youtube.com/watch?v=bzjcWr4ITOW</a></td>
<td>03.08.2020</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>15.</td>
<td>Invited Talk on “DATA SCIENCE – PROCESS, HYPE AND FUTURE” organized by Kristu Jayanthi College, ACM-W, Bangalore</td>
<td>24.6.2020</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>16.</td>
<td>FDP talk on “Sustainability and Big Data ” organized by College of Engineering Karunagappally as part of AICTE sponsored 5-day STTP on Big Data and Security. The session can be accessed at <a href="https://www.youtube.com/watch?v=bzjcWr4ITOW">https://www.youtube.com/watch?v=bzjcWr4ITOW</a></td>
<td>22.03.2021</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>17.</td>
<td>Keynote Speaker of International Conference on Innovative Applications of Emerging Technologies and Management, 2021 (ICIAETM-2021). Talk can be accessed at: <a href="https://www.youtube.com/watch?v=mQAw7Xbd_bA">https://www.youtube.com/watch?v=mQAw7Xbd_bA</a></td>
<td>9.04.2021</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>18.</td>
<td>Resource person of 5-day KTU sponsored FDP on “Research challenges and opportunities in Online social networks,” Organized by SCMS School of Engineering and Technology. Session can be accessed at : <a href="https://www.youtube.com/watch?v=4LT9u354zR0">https://www.youtube.com/watch?v=4LT9u354zR0</a></td>
<td>25.05.2021</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>SN</td>
<td>Events Across India and the Globe – Conference / Seminar / Webinar / Symposium / FDP</td>
<td>Date</td>
<td>IIT Kottayam’s Faculty Member as a Resource Person</td>
</tr>
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</tr>
<tr>
<td>19.</td>
<td>Invited talk on “Opportunities in Artificial Intelligence and data Science” as part of AlanTuring day celebration at St George’s college Aruvithara</td>
<td>23.06.2021</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>20.</td>
<td>ACM Invited talk on “Pursuing a career in Data Science” organized by Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada</td>
<td>25.06.2021</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>21.</td>
<td>Talk on &quot;Pursuing a CS Career&quot; organized by Computer Science and Technology, Madanapalle Institute of Technology &amp; Science, Madanapalle, Andhra Pradesh</td>
<td>14.08.2020</td>
<td>Dr. P. Victer Paul</td>
</tr>
<tr>
<td>22.</td>
<td>Delivered a talk on “IoT security” organised by Department Electronic and Communication Engineering, Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, Kerala, AICTE sponsored Faculty Development Program (FDP) on Internet of Things.</td>
<td>23.07.2019</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>23.</td>
<td>Delivered a talk on “Block chain Technology” AICTE sponsored Six days STTP on Emerging Trends in Cryptography and its Applications in Cyber Security organized by the department of Computer Science and Engineering at Vidya Academy of Science and Technology (TERM 1- 14-12-2020 to 19-12-2020)</td>
<td>16.12.2020</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>24.</td>
<td>Delivered a talk on “Block chain and its Applications” AICTE sponsored Six days STTP on Emerging Trends in Cryptography and its Applications in Cyber Security organized by the department of Computer Science and Engineering at Vidya Academy of Science and Technology (TERM 2- 21-12-2020 to 28-12-2020)</td>
<td>23.12.2020</td>
<td>Dr. Panchami. V</td>
</tr>
<tr>
<td>25.</td>
<td>Delivered a talk on “Block chain and Bitcoin” AICTE sponsored Six days STTP on Emerging Trends in Cryptography and its Applications in Cyber Security organized by the department of Computer Science and Engineering at Vidya Academy of Science and Technology (TERM 3- 1-2-2021 to 06-02-2021)</td>
<td>3.02.2021</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>26.</td>
<td>Delivered a talk on “Introduction to IoT and Design of IoT systems” TEQIP-II sponsored 6- days FDP on “Applications of Artificial Intelligence and IoT in Engineering” organized by department of Computer Science and Engineering at College of Engineering, Perumon, February 01-06, 2021</td>
<td>05.02.2021</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>27.</td>
<td>Delivered a talk on “Introduction to Blockchain Technology and its Applications ” organized by College of Engineering Karunagappally as part of AICTE sponsored 5-day STTP on Big Data and Security. March 22-26, 2021</td>
<td>23.03.2021</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>28.</td>
<td>Delivered a talk on “IoT Security: Lightweight Cryptography” organized by College of Engineering Karunagappally as part of AICTE sponsored 5-day STTP on Big Data and Security.</td>
<td>25.03.2021</td>
<td>Dr. Panchami V</td>
</tr>
<tr>
<td>29.</td>
<td>Delivered an invited talk on Applications of Mathematics in Engineering at Kongu Engineering College, Erode</td>
<td>26.03.2018</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>30.</td>
<td>Delivered an invited talk on Probabilistic PCA at AICTE Sponsored FDP - St. Gits College of Engineering Kottayam</td>
<td>16.10.2019</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>31.</td>
<td>Delivered an invited talk on Differential Equations and Its Applications at Queen Mary's College, Chennai</td>
<td>06.09.2019</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>32.</td>
<td>Delivered an Invited talk on Invariance of Differential Equations under one parameter Lie Transformation Groups at National Seminar on Advances in Algebra and Analysis at Queen Mary's College, Chennai</td>
<td>30.01.2020</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>SN</td>
<td>Events Across India and the Globe – Conference / Seminar / Webinar / Symposium / FDP</td>
<td>Date</td>
<td>IIIT Kottayam’s Faculty Member as a Resource Person</td>
</tr>
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</tr>
<tr>
<td>33</td>
<td>Delivered an Invited talk On Exact Solutions of Certain Fractional Partial Differential and Differential- Difference Equations by Using Invariant Subspace Method at National conference on Partial Differential Equations and its applications at Periyar University, Salem, Tamil Nadu</td>
<td>05.03.2020</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>34</td>
<td>Delivered an invited webinar talk on Application of Fractional Calculus An Update at Kongu Engineering College (Autonomous), Perundurai, Erode.</td>
<td>23.06.2020</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>35</td>
<td>Delivered an Invited talk On Lie Symmetry Analysis of Fractional Differential Equations at International conference on Dynamical Systems and Soft Computing, Gobi Arts College (Autonomous), Erode, Tamil Nadu.</td>
<td>05.03.2021</td>
<td>Dr Bakkyaraj T</td>
</tr>
<tr>
<td>36</td>
<td>A Master class on &quot;IoT Devices: Security and Applications&quot; at Department of Information Technology, BV Raju Institute of Technology, Telangana.</td>
<td>19.06.2021</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>37</td>
<td>A Topic &quot;Text Mining &amp; Natural Language Processing Applications and Techniques&quot; presented in Two Days Online Workshop on Tools &amp; Techniques of Data Mining at Department of Computer Science and Engineering, Vel Tech Rangarajan Dr.Sagunthala R&amp;D Institute of Science and Technology, Chennai.</td>
<td>27.04.2021 and 28.04.2021</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>38</td>
<td>A Topic &quot;Introduction to Natural Language Processing through NLTK&quot; presented in AICTE Sponsored Two weeks Online Faculty Development Programme on &quot;Data science using Python - II&quot; at Shri Vishnu Engineering College for Women, Andhra Pradesh. from 7th December to 18th December, 2020</td>
<td>17.12.2020</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>39</td>
<td>A Topic “Introduction to Natural Language Processing” presented in AICTE Sponsored Two weeks Online Faculty Development Programme on &quot;Data Science using Python - I&quot; at Shri Vishnu Engineering College for Women, Andhra Pradesh. from 23rd Nov to 5th Dec 2020</td>
<td>04.12.2020</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>40</td>
<td>A Short-Term Training Program on &quot;Technical writing using LATEX&quot; at National Institute of Information Technology Tiruchirappalli, Tamil Nadu.</td>
<td>19.11.2020 to 21.11.2020</td>
<td>Dr. Koppala Guravaiah</td>
</tr>
<tr>
<td>41</td>
<td>AICTE FDP organized by Charusat University, Gujarat, India on &quot;IoT for Air Quality Monitoring in Smart Cities</td>
<td>16.06.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>42</td>
<td>Talk on STTP organized by PSNA College of Engineering, sponsored by Centre For Faculty Development, Anna University, Chennai - 25. Topic: Serverless IoT For Sensor Applications</td>
<td>31.05.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>43</td>
<td>Keynote talk in International Conference on Smart Data Intelligence (ICSMDI 2021); Topic: &quot;Serverless Cloud Architecture for Deep IoT Analytics</td>
<td>29.04.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>44</td>
<td>Keynote Talk on STTP organized by GEC Barton Hill -- Topic: “Serverless Cloud Deployment for IoT Applications&quot;, sponsored event by DTE, Govt. of Kerala</td>
<td>23.02.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>45</td>
<td>Keynote Talk -- Topic: “Recent Trends in IoT and Funding Options&quot;, Workshop by State Project Felicitation Unit, Kerala</td>
<td>28.01.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>46</td>
<td>Keynote Talk -- Topic: “IoT-Cloud related Funding Schemes for Entrepreneurs&quot;, at COHORT-Impulse 2021</td>
<td>20.01.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>47</td>
<td>AICTE-FDP -- Keynote Talk on Topic: &quot;IoT for Wearable Applications&quot;, at SaintGits Engg. College, Kottayam</td>
<td>13.01.2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
</tbody>
</table>
Table 16: List of Resource Persons from IIIT Kottayam for Various Events Across the India & Globe

<table>
<thead>
<tr>
<th>SN</th>
<th>Title of FDP</th>
<th>Dates</th>
<th>Sponsored By</th>
<th>Number of Participants from Various Institutions across India</th>
<th>Organized by Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Machine Learning Algorithms and Applications</td>
<td>4-8, November 2020</td>
<td>AICTE-ATAL</td>
<td>52</td>
<td>Dr. Bini A. A.</td>
</tr>
<tr>
<td>2.</td>
<td>Internet of Things: Hardware, Software and Applications</td>
<td>December 7-11, 2020 (5 days)</td>
<td>AICTE-ATAL</td>
<td>147</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>3.</td>
<td>Cyber Security and Digital Forensics</td>
<td>December 1-5, 2020 (5 days)</td>
<td>AICTE-ATAL</td>
<td>100</td>
<td>Dr. Panchami V</td>
</tr>
</tbody>
</table>
IIIT Kottayam Kerala: Efforts for Promoting Culture of Innovation – Updated on 10th Sept 2021

### Table 17: Faculty Development Programmes (FDP) organized by faculty members of IIIT Kottayam

<table>
<thead>
<tr>
<th>SN</th>
<th>Title of FDP</th>
<th>Dates</th>
<th>Sponsored By</th>
<th>Number of Participants from Various Institutions across India</th>
<th>Organized by Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Serverless IoT for Societal Products</td>
<td>May 24.5.2021 to 28.5.2021 (5 Days)</td>
<td>AICTE ATAL</td>
<td>53</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>5.</td>
<td>Internet of Things</td>
<td>September 14.9.2020 to 18.9.2020 (5 Days)</td>
<td>AICTE ATAL</td>
<td>68</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>6.</td>
<td>Quantum Computing</td>
<td>July 12-16, 2021 (5 days)</td>
<td>AICTE ATAL</td>
<td>78</td>
<td>Dr. Kala S</td>
</tr>
</tbody>
</table>

### Table 18: Conference / Symposium / Seminar / Hackathons Organized by IIIT Kottayam

<table>
<thead>
<tr>
<th>SN</th>
<th>Conference / Symposium / Seminar / Hackathons Organized by IIIT Kottayam</th>
<th>Dates</th>
<th>In Charge Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Organized IoTCloud Analytics and Visualization -- HackICAV’18. The organizing partners are IIIT Kottayam, Rolta Foundation, and Incubation Centre. The ROLTA Foundation has funded this event (Rs. 150000)</td>
<td>7.12.2018</td>
<td>Dr. Shajulin Benedict IIIT Kottayam and Dr. Sohrab R. Bhot, ROLTA Foundation</td>
</tr>
<tr>
<td>2.</td>
<td>Organized ACM / IEEE-CS / CSI Sponsored Research &amp; Industry symposium on IoT Cloud (IoTCloud'21)</td>
<td>3 May 2021</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Shajulin has organized Indo-European Entrepreneurial Hackathon – IEE-Hacks2020: It is a Hackathon on IoT Cloud Analytics and Visualization for boosting Indo-European entrepreneurial interests. The organizing partners are IIIT Kottayam, AIC IIIT-Kottayam Foundation, MSME Business Incubation Centre IIIT-Kottayam, DaretoStart (Company) Germany.</td>
<td>27-29 Nov 2020</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>4.</td>
<td>First IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-20)</td>
<td>13-14 Feb 2020</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>5.</td>
<td>Second IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-21)</td>
<td>13-14 Feb 2021</td>
<td>Dr. Ebin Deni Raj and Dr. Jayakrushna Sahoo</td>
</tr>
<tr>
<td>6.</td>
<td>Announced Third IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-22)</td>
<td>13-14 Feb 2022</td>
<td>Dr. Jayakrushna Sahoo and Dr. Kala S</td>
</tr>
</tbody>
</table>

### Table 19: Summer / Winter Internship Program

<table>
<thead>
<tr>
<th>SN</th>
<th>Summer / Winter Internship Program</th>
<th>Dates</th>
<th>Internal / External</th>
<th>Faculty Members Involved</th>
<th>Number of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (In progress)</td>
<td>Sponsored</td>
<td>Dr. Divya Sindhu Lekha</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (In progress)</td>
<td>Internal</td>
<td>Dr. Koppala Guravaiah</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (In progress)</td>
<td>External</td>
<td>Dr. J. V. Bibal Benifa</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (In progress)</td>
<td>External</td>
<td>Dr. Christina Terese Joseph</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>Summer</td>
<td>11.06.2021 to 10.08.2021 (In progress)</td>
<td>External</td>
<td>Dr. Keshab Nath</td>
<td>1</td>
</tr>
<tr>
<td>SN</td>
<td>Summer / Winter Internship Program</td>
<td>Dates</td>
<td>Internal / External</td>
<td>Faculty Members Involved</td>
<td>Number of Participants</td>
</tr>
<tr>
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</tr>
<tr>
<td>6.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (In progress)</td>
<td>External</td>
<td>Dr. P. Victer Paul</td>
<td>3</td>
</tr>
<tr>
<td>7.</td>
<td>Summer</td>
<td>1.7.2021 to 31.8.2021</td>
<td>External</td>
<td>Dr. Shajulin Benedict</td>
<td>2</td>
</tr>
<tr>
<td>8.</td>
<td>Summer</td>
<td>1.6.2018 to 30.6.2018</td>
<td>External</td>
<td>Dr. Shajulin Benedict</td>
<td>3</td>
</tr>
<tr>
<td>9.</td>
<td>Summer</td>
<td>22.7.2019 to 17.8.2019</td>
<td>External</td>
<td>Dr. Shajulin Benedict</td>
<td>1</td>
</tr>
<tr>
<td>10.</td>
<td>Summer</td>
<td>Started on 07.06.2021 (In progress)</td>
<td>External</td>
<td>Dr. Bakkyaraj T</td>
<td>3</td>
</tr>
<tr>
<td>11.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (in progress)</td>
<td>External</td>
<td>Dr. Kala S</td>
<td>2</td>
</tr>
<tr>
<td>12.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (in progress)</td>
<td>External</td>
<td>Dr. Jayakrushna Sahoo</td>
<td>2</td>
</tr>
<tr>
<td>13.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (in progress)</td>
<td>External</td>
<td>Dr. Arun Cyril</td>
<td>2</td>
</tr>
<tr>
<td>14.</td>
<td>Summer</td>
<td>01.05.2019 to 15.06.2019</td>
<td>External</td>
<td>Dr Ebin Deni Raj</td>
<td>1</td>
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<tr>
<td>15.</td>
<td>Summer</td>
<td>07.06.2021 to 06.08.2021 (in progress)</td>
<td>External</td>
<td>Dr Ebin Deni Raj</td>
<td>2</td>
</tr>
<tr>
<td>16.</td>
<td>Institute Internship</td>
<td>07.06.2021 to 06.08.2021 (in progress)</td>
<td>External</td>
<td>Dr Panchami.V</td>
<td>1</td>
</tr>
<tr>
<td>17.</td>
<td>Institute Internship</td>
<td>07.06.2021 to 06.08.2021 (in progress)</td>
<td>External</td>
<td>Dr Rubell Marion Lincy G</td>
<td>1</td>
</tr>
<tr>
<td>18.</td>
<td>Institute Internship</td>
<td>02.07.2021 to 01.09.2021 (in progress)</td>
<td>External</td>
<td>Dr Rubell Marion Lincy G</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 19: Summer / Winter Internship Programs Offered by IIIT Kottayam for Internal & External Students

<table>
<thead>
<tr>
<th>SN</th>
<th>Training Program</th>
<th>Dates</th>
<th>Faculty Members Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Learning Week - Competitive Coding Sessions</td>
<td>22.12.2020 to 30.12.2020</td>
<td>Dr. P. Victer Paul, Dr. Ebin Deni Raj, Dr Koppala Guruvaiah, Dr. Jayakrushna Sahoo, Dr. Arun Cyril, Dr. Shyju Wilson</td>
</tr>
<tr>
<td>2.</td>
<td>STTP at IIIT-K: ARM Programming</td>
<td>22.03.2018 to 23.03.2018</td>
<td>Dr. Bini A. A</td>
</tr>
<tr>
<td>3.</td>
<td>Deep Learning for Computer Vision for MATLAB</td>
<td>05.08.2018</td>
<td>Dr. Bini A. A</td>
</tr>
<tr>
<td>4.</td>
<td>Workshop on Embedded Programming using ARM Microcontroller Development Boards</td>
<td>18.02.2020</td>
<td>Dr. Bini A.A</td>
</tr>
<tr>
<td>5.</td>
<td>Workshop on Development of Embedded Software using Altair Embed</td>
<td>19.02.2020</td>
<td>Dr. Bini A. A</td>
</tr>
<tr>
<td>6.</td>
<td>A one-day workshop on Internet of Things</td>
<td>13.01.2018</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>7.</td>
<td>Design Thinking</td>
<td>24.10.2018</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>8.</td>
<td>Tech Talk – Disruptive Technology</td>
<td>08.03.2018</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>9.</td>
<td>TechTalk –Cloud Computing</td>
<td>08.03.2018</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>10.</td>
<td>STTP at IIIT-K: Collaborative Teaching Cloud Computing</td>
<td>8.03.2018 to 15.03.2018</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>11.</td>
<td>Women Entrepreneurship Program</td>
<td>25.07.2019</td>
<td>Dr. Shajulin Benedict &amp; AIC Team</td>
</tr>
<tr>
<td>12.</td>
<td>Endeavor</td>
<td>31.07.2019</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>13.</td>
<td>DST-NIMAT Entrepreneurial training program</td>
<td>03.12.18 to 10.01.2019</td>
<td>Dr. Shajulin Benedict</td>
</tr>
</tbody>
</table>
Training Program | Dates           | Faculty Members Involved                              |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>14. Summer Training Program 2019: Industry-Research Oriented Summer course</td>
<td>May to June 2019</td>
<td>Dr. Shajulin Benedict a joint event with 3DDivella, Dolcerra, and IIT Professors</td>
</tr>
<tr>
<td>15. IDEATORS 2019</td>
<td>25.07.2019</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>16. Seminar: IT for Business – for Mangalam College of Engineering (19 students and 2 Faculties) conducted at IIIT-K</td>
<td>01.10.2019</td>
<td>Dr. Shajulin Benedict</td>
</tr>
</tbody>
</table>

Table 20: Training Programs Offered by IIIT Kottayam for Internal & External Students

XII. Building of Learning Space for Innovators (Construction Work)
Canteen and Guest House
Academic Block – Early Morning Fog

Kids Park
Roads in side the campus
Pathway from Canteen to Hostel

Arial View of Director’s Residence
Amphitheater (Open Air Theatre), Academic Block, Canteen and Director Residence

Director Residence and Staff Quarters
Hostel 2

Insight view of Quarters
Pleasant Weather: Academic Block, Canteen, Director Residence, Staff Quarter III and II
Entrance of Administrative Block
Administrative Block
Classrooms
IIIT Kottayam Kerala: Efforts for Promoting Culture of Innovation – Updated on 10<sup>th</sup> Sept 2021

Upcoming Hostel 3 and 4 (on 20<sup>th</sup> June 2021)

Upcoming Academic Block II (on 18 Aug 2021)
Upcoming Amphitheater (Open Air Theatre) (on 18 Aug 2021)
Appendix: Details of Project Funding Proposals

1. **List of 34 Sanctioned Research / Project Funding Proposals of Rs. 9.38 Crores**
   https://www.iiitkottayam.ac.in/#/researchProject

<table>
<thead>
<tr>
<th>SN</th>
<th>Project Funding Agency</th>
<th>Project Title</th>
<th>Funding in Rs.</th>
<th>Faculty / Organization Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Rolta Foundation</td>
<td>Organized IoTCloud Analytics and Visualization -- HackICAV’18. The organizing partners are IIIT Kottayam, Rolta Foundation, and Incubation Centre.</td>
<td>150000</td>
<td>Dr. Shajulin Benedict IIIT Kottayam and Dr. Sohrab R. Bhot, ROLTA Foundation</td>
</tr>
<tr>
<td>2.</td>
<td>Indo-Austrian project (OEAD-DST)</td>
<td>Energy Aware Scientific Workflow Compiler for Future Heterogeneous Systems Rs. 8,82,740</td>
<td>882740</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>3.</td>
<td>BEL</td>
<td>Exploration of Blockchain Technology and development of Secure Transaction and Smart Contract solutions</td>
<td>416400</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>4.</td>
<td>3DDDvella Technologies ltd</td>
<td>3D printing based smart manufacturing</td>
<td>250000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>5.</td>
<td>Atal Incubation Centre (AIC) by NITI Aayog</td>
<td>IoT Cloud Societal applications – Incubation Centre. In AIC scheme, the upper limit of funding is Rs. 10 Cr. For AIC IIIT-Kottayam, Rs. 34600000 has been sanctioned for 5 years.</td>
<td>36000000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>6.</td>
<td>MSME Business Incubation Centre</td>
<td>Approved as MSME Business Incubator. We could get up to Rs. 1 Cr for establishing the infrastructure and Rs. 15 Lakh per innovative idea. Infrastructure money will be funded after the acceptance of 2 approved ideas. Maximum 10 ideas may be approved per year. The project is for 5 years. Thus, the maximum funding for this project is Rs. 8.5 Cr in 5 years.</td>
<td>11500000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>7.</td>
<td>DSTNIMAT / TEDP</td>
<td>Technology based Entrepreneurship Development Programme Sanctioned till date Rs. 6 Lakhs (Rs. 3 Lakhs per year)</td>
<td>600000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>8.</td>
<td>AICTE ATAL FDP</td>
<td>IoT Cloud based Innovative Product development</td>
<td>93000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>9.</td>
<td>DST NIMAT</td>
<td>Training Program</td>
<td>350000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>10.</td>
<td>BEL, India</td>
<td>Industry Project</td>
<td>1000000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>11.</td>
<td>ACM/IEEE-CS/CSI sponsorship for organizing Symposium</td>
<td>IoT-Cloud Symposium</td>
<td>50000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>SN</td>
<td>Project Funding Agency</td>
<td>Project Title</td>
<td>Funding in Rs.</td>
<td>Faculty / Organization Involved</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>12</td>
<td>AICTE ATAL FDP</td>
<td>Serverless IoT for Societal Products</td>
<td>93000</td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>13</td>
<td>RRR Gig Jobs and Services Pvt. Ltd.</td>
<td>Social IoT and AI-assisted Gig Job Listing Portal</td>
<td>875000</td>
<td>Dr. Shajulin Benedict, Mr. Digo J. Sebastian and Mrs. Teresa Joy K. and students</td>
</tr>
<tr>
<td>14</td>
<td>DSIR-SIRO (Renewal)</td>
<td>Scientific Industrial Research Organization status (Tax exemption)</td>
<td>675000</td>
<td>Dr. Shajulin Benedict, Mr. Siju K.S.</td>
</tr>
<tr>
<td>15</td>
<td>Meluxina EURO HPC Supercomputer</td>
<td>Deep-learning assisted predictions5000 CPU and 2000 GPU node-hours</td>
<td></td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>16</td>
<td>CV Raman International Grant</td>
<td>HPC solutions for Hosting</td>
<td></td>
<td>Dr. Shajulin Benedict</td>
</tr>
<tr>
<td>17</td>
<td>Aster Medigroup Healthcare</td>
<td>AI and Cloud Systems Infrastructure worth Rs. 18 Lakhs</td>
<td>180000</td>
<td>Dr. Shajulin Benedict via. Dr. Christina, Dr. Keshab, Dr. Ragesh, and AIC Team</td>
</tr>
<tr>
<td></td>
<td>Dr. Ebin Deni Raj (6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Microsoft- AI for Earth Grant, USA</td>
<td>Artificial Intelligence for Detection and Classification of Diseases in Rice and wheat</td>
<td>1271288</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>19</td>
<td>Microsoft- AI for Earth Grant</td>
<td>Travel Grant for Conference at Microsoft Headquarter at USA</td>
<td>200000</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>20</td>
<td>Volkswagen Germany, German Centre for AI DFKI</td>
<td>Foundation AI FORA, Joint Collaborative Project of 5 nations (Germany, Estonia, USA, China, India) worth 1.5 million EURO</td>
<td>25000000</td>
<td>Dr. Ebin Deni Raj, Dr. Shajulin Benedict, Dr. Jayakrushna Sahoo &amp; Dr. P. Victer Paul, Dr. M.P Rajan</td>
</tr>
<tr>
<td>21</td>
<td>Project from Germany – Dr. Petra, 50 K Euro</td>
<td>AI and Social Problems</td>
<td>420000</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>22</td>
<td>Orzico, USA</td>
<td>Autonomous Fruit Picker</td>
<td>100000</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td>23</td>
<td>IIT Palakkad Technology IHub Foundation (IPTIF)</td>
<td>Scholarship for PhD scholar for 4 years, which can be extended further</td>
<td>2184000</td>
<td>Dr. Ebin Deni Raj</td>
</tr>
<tr>
<td></td>
<td>Dr. Kala S (4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>AICTE ATAL FDP</td>
<td>IoT enabled Systems for tomorrow’s Digital World</td>
<td>93000</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>25</td>
<td>AICTE ATAL FDP</td>
<td>Quantum Computing</td>
<td>93000</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>26</td>
<td>Industry Collaborative Project</td>
<td>Development of On Board Diagnostic System for Connected Cars / Two Wheelers</td>
<td>500000</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td>27</td>
<td>IIT Palakkad Technology IHub Foundation (IPTIF)</td>
<td>Scholarship for PhD scholar for 4 years, which can be extended further</td>
<td>2184000</td>
<td>Dr. Kala S</td>
</tr>
<tr>
<td></td>
<td>Dr. Panchami. V (3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>AICTE ATAL FDP</td>
<td>Cyber Security and Digital Forensics</td>
<td>93000</td>
<td>Dr. Panchami. V</td>
</tr>
<tr>
<td>29</td>
<td>AICTE ATAL FDP</td>
<td>Big Data Security and Analytics</td>
<td>93000</td>
<td>Dr. Panchami. V</td>
</tr>
<tr>
<td>30</td>
<td>IonQ Research Credits Program, USA</td>
<td>Post-Quantum Public Key Infrastructure</td>
<td>593142</td>
<td>Dr. Panchami. V</td>
</tr>
<tr>
<td></td>
<td>Dr. Bini A. A. (1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>AICTE ATAL FDP</td>
<td>Training proposal</td>
<td>93000</td>
<td>Dr. Bini A. A.</td>
</tr>
<tr>
<td></td>
<td>Dr. P. Victer Paul (1) + Joint Projects (1)</td>
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<tr>
<td>32</td>
<td>AICTE ATAL FDP</td>
<td>Sensor Data Analytics</td>
<td>93000</td>
<td>Dr. Victer Paul</td>
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<tr>
<td></td>
<td>Dr. J. V. Bibal Benifa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>AICTE ATAL FDP</td>
<td>Data Science</td>
<td>93000</td>
<td>Dr. J. V. Bibal Benifa</td>
</tr>
<tr>
<td></td>
<td>Dr. Divya Sindhu Lekha</td>
<td></td>
<td></td>
<td></td>
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</table>
### Table 21: Sanctioned Funded Projects

<table>
<thead>
<tr>
<th>SN</th>
<th>Project Funding Agency</th>
<th>Project Title</th>
<th>Funding in Rs.</th>
<th>Faculty / Organization Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.</td>
<td>IIT Palakkad Technology IHub Foundation (IPTIF)</td>
<td>Scholarship for PhD scholar for 4 years, which can be extended further</td>
<td>2184000</td>
<td>Dr. Divya Sindhu Lekha</td>
</tr>
</tbody>
</table>

Total: 9.38 Crores 93802570

### 2. List of Research / Project Funding Proposals Under Various Stages of Evaluation & Considerations: 91 Projects of Rs. 137.20 Crores

<table>
<thead>
<tr>
<th>SN</th>
<th>Project Funding Agency</th>
<th>Project Title</th>
<th>Funding in Rs.</th>
<th>Faculty Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Jayakrishna Sahoo (6) + Joint Projects (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>SERB; Start Up Grant (SRG) Scheme</td>
<td>Discovering Interesting High Utility Item-sets</td>
<td>1424000</td>
<td>Dr. Sahoo</td>
</tr>
<tr>
<td>2.</td>
<td>DST - TIDE</td>
<td>Data analytics for remote monitoring and healthcare of elderly population</td>
<td>5227000</td>
<td>PI: Dr. Anoop Jacob Thomas Co-PI (s): Dr. Arun Cyril Jose, Dr. Jayakrushna Sahoo</td>
</tr>
<tr>
<td>3.</td>
<td>AICTE ATAL Program FDP</td>
<td>Predictive Data Analytics</td>
<td>200000</td>
<td>Dr. Jayakrishna Sahoo</td>
</tr>
<tr>
<td>4.</td>
<td>SERB, Submitted Under “Start-up Research Grant” Scheme</td>
<td>Machine Learning based method to discover association rules with utility constraint</td>
<td>1700000</td>
<td>Dr. Jayakrishna Sahoo</td>
</tr>
<tr>
<td>5.</td>
<td>DST – SERB/SGR (Early Career Award)</td>
<td>Automation of Stress Recognition and monitoring in Campus Students based on Electro dermal Activity</td>
<td>2059500</td>
<td>Dr. Jayakrishna Sahoo</td>
</tr>
<tr>
<td>6.</td>
<td>DST- Technology Development Transfer, Science and Heritage Research Initiative (SHRI)</td>
<td>Edge architecture based intelligent aggregation pipeline for crowdsourcing in cultural heritage</td>
<td>3180000</td>
<td>PI: Dr. Jayakrishna Sahoo Co-PI: Dr. Ebin Deni Raj and</td>
</tr>
</tbody>
</table>

Dr. Panchami (13) + Joint Projects (2) |

<p>| 7. | NSTEDB, DST | &quot;New Generation IEDC incubation Centre&quot; | 2500000 | Dr. Panchami |
| 8. | Integrated Technology Interventions for Sustainable Environment (ITISE), June 2020 | &quot;A Safe, Self-Sustainable and Low-cost Device for monitoring and Preventing the Intrusion of Wild Animals and Insects/Pets into Agricultural Fields.&quot; | 1763000 | Dr. Panchami |
| 9. | MeitY May 2020 | A Low Cost IoT Enabled Device for Monitoring, Analyzing and Predicting Real Time Air Quality to Avoid Atmospheric Emission | 4600000 | Dr. Panchami |</p>
<table>
<thead>
<tr>
<th>SN</th>
<th>Project Funding Agency</th>
<th>Project Title</th>
<th>Funding in Rs.</th>
<th>Faculty Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Atal New India Challenge an initiated by Govt of India, Nov 2018</td>
<td>iFollow: A Mobile Application to reduce accidents and fatalities and to ensure road safety</td>
<td>6284000</td>
<td>Dr. Panchami</td>
</tr>
<tr>
<td>11</td>
<td>DST, December 2018</td>
<td>A Novel Lightweight Encryption Algorithm for IoT devices</td>
<td>1800000</td>
<td>Dr. Panchami</td>
</tr>
<tr>
<td>12</td>
<td>KSCSTE, February 2019</td>
<td>Asset Management and Verification using Blockchain Technology</td>
<td>2500000</td>
<td>Dr. Panchami</td>
</tr>
<tr>
<td>13</td>
<td>4th BRICS Young Scientist Conclave Campinas, Brazil</td>
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<td>14</td>
<td>SERB-National Post-Doctoral Fellowship</td>
<td>A Low-Latency, End to End Secure Medical Cyber-Physical System for Monitoring and Analysing the Physiological Data of Patients having Contagious Diseases</td>
<td>1620000</td>
<td>Dr. Panchami Guide Prof. Rajiv Dharaskar</td>
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<td>15</td>
<td>NIDHI4COVID2.0, National Science &amp; Technology Entrepreneurship Development Board (NSTEDB), DST</td>
<td>CoviCare: A Secure End to End Medical Cyber Physical System for Monitoring, Analysing and Alerting the physiological data of Corona Patients to Get Immediate medical Care And Treatment</td>
<td>1000000</td>
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<td>16</td>
<td>CSRI Post-Doctoral Fellowship</td>
<td>An Efficient Cyber-Physical System to analyse Electroencephalogram signals which Predicts and Detect Drowsiness in Divers using Artificial Intelligence</td>
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<td>17</td>
<td>IonQ Research Credits Program</td>
<td>Multiclass Prediction On Standard/ Large Dataset Using Variational Quantum Algorithms And Quantum SVMS</td>
<td>402948</td>
<td>Dr. Panchami. V</td>
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<td>18</td>
<td>IonQ Research Credits Program</td>
<td>Post-Quantum Public key Infrastructure</td>
<td>582787</td>
<td>Dr. Panchami. V</td>
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<td>19</td>
<td>Ministry of Electronics &amp; Information Technology (MeitY)</td>
<td>A Resilient and Hybrid Quantum-Safe Non-Interactive Cryptographic Key Exchange Scheme in Delay Tolerant Networks for Satellite Communications</td>
<td>8964000</td>
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<td><strong>Dr. J. V. Bibal Benifa (7) + Joint Projects (1)</strong></td>
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<td>20</td>
<td>DST- SUPRA</td>
<td>Automated Weed Removal from Farmlands Using Unmanned Aerial Vehicle</td>
<td>4449500</td>
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<td>21</td>
<td>DRDO - NAVAL</td>
<td>Underwater Object Tracking and Classification using AUV</td>
<td>7987000</td>
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<td>Funding in Rs.</td>
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<td>22</td>
<td>ISRO</td>
<td>Tropical Cyclone Detection using Machine Learning Techniques</td>
<td>1400000</td>
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<td>23</td>
<td>Department of Biotechnology, Government of India</td>
<td>Coral and Fish Species Classification using Deep Learning Approach</td>
<td>1600000</td>
<td>Dr. Bibal and PhD scholar Ms. Delsey</td>
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<td>24</td>
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<td>Development of analytical models for mining knowledge from text data</td>
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<td>25</td>
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<td>Smart IOT-enabled drones for precision agriculture</td>
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<td>27</td>
<td>MeitY</td>
<td>Development of an Intelligent Mobility Model to mitigate CO2 emission for alternative fuel vehicle in India</td>
<td>3620000</td>
<td>Dr. Victer Paul</td>
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<td>28</td>
<td>R&amp;D in IT Group, MeitY</td>
<td>Development of an Artificial Intelligence based Embeddable Application Module to Estimate and Mitigate Carbon Emission by Alternative Fuel Vehicles in India</td>
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<td>MeitY</td>
<td>Research lab for AI &amp; Data Science at IIIT-K</td>
<td>6000000</td>
<td>Dr. Ebin, Dr. Sahoo, Dr. Bibal, Dr. N. K. Narayana</td>
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<td>FIST scheme</td>
<td>Project Proposal On &quot;FIST-project (Level-1)&quot;</td>
<td>3110000</td>
<td>Dr. Ebin</td>
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<td>31</td>
<td>DST-NRDMS</td>
<td>An IOT based monitoring and prediction framework for precision agriculture</td>
<td>5074000</td>
<td>Dr. Ebin</td>
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<td>32</td>
<td>DST-NIMAT</td>
<td>Entrepreneurship in Data Science-Faculty Development Programme (FDP)</td>
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<td>33</td>
<td>SERB IMPRINT -II</td>
<td>Automatic Toll and Smart Real-Time Transportation Analytic System for Modern India</td>
<td>14446300</td>
<td>Dr. Ebin</td>
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<td>34</td>
<td>National Geographic Foundation, USA</td>
<td>A computer vision-based Fruit picker</td>
<td>20000000</td>
<td>Dr. Ebin</td>
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<td>35</td>
<td>Leonardo Dicaprio Foundation, USA</td>
<td>Rice leaf disease detection and prediction</td>
<td>6000000</td>
<td>Dr. Ebin</td>
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<td>36</td>
<td>Bill and Melinda Gates Foundation, USA</td>
<td>Neglected Tropical Diseases Data Innovation Incubator</td>
<td>20000000</td>
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<td>37</td>
<td>SERB- Core Research grant</td>
<td>An AI based robotic system for detection and</td>
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**Dr. Victer Paul (1)**

<table>
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<td>Development of an Intelligent Mobility Model to mitigate CO2 emission for alternative fuel vehicle in India</td>
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**Dr. Ebin Deni Raj (21) + Joint Projects (5)**

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<td>FIST scheme</td>
<td>Project Proposal On &quot;FIST-project (Level-1)&quot;</td>
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<td>Dr. Ebin</td>
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<td>31</td>
<td>DST-NRDMS</td>
<td>An IOT based monitoring and prediction framework for precision agriculture</td>
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<td>DST-NIMAT</td>
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<td>National Geographic Foundation, USA</td>
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<td>Leonardo Dicaprio Foundation, USA</td>
<td>Rice leaf disease detection and prediction</td>
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<td>SERB- Core Research grant</td>
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<td>38.</td>
<td>Leonardo Dicaprio Foundation, Los Angeles, California USA</td>
<td>classification of diseases in rice and wheat crops</td>
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<td>39.</td>
<td>DST</td>
<td>The AI based detection of root wilt, Tanjore wilt, leaf rot, stem bleeding in coconut trees</td>
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<td>DST-SERB MATRICS Scheme</td>
<td>BRICS (India, Russia and Brazil) collaborative Project (Total 1.5 Crores)</td>
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<td>TBI, DST</td>
<td>A mathematical model for citation network analysis of Indian origin academicians</td>
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<td>42.</td>
<td>TBI, DST</td>
<td>Prepared proposal for &quot;Technical Business Incubation TBC&quot;</td>
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<td>43.</td>
<td>DST</td>
<td>NM-ICPS, Rs. 120 Crore</td>
<td>400000000</td>
<td>Dr. Ebin, Joint project with IIIT Sri City, IIIT Kurnool, IIIT Kancheepuram</td>
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<td>44.</td>
<td>AICTE ATAL Program FDP</td>
<td>Data Science and Machine Learning</td>
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<td>NIDHI i-TBI</td>
<td>Incubation Center</td>
<td>50000000</td>
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<td>46.</td>
<td>CSRI-Post-Doctoral Fellowship (PDF)</td>
<td>Effective Strategies for Information Spreading In Online Social Networks</td>
<td>1980000</td>
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<td>47.</td>
<td>CSRI Project</td>
<td>Analysis of Cognitive methods for Effective Object Detection under adverse environments</td>
<td>5295000</td>
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<td>SERB</td>
<td>Explainability in Deep Learning model architectures for Responsible AI</td>
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<td>Dr. Ebin Deni Raj</td>
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<td>49.</td>
<td>SERB-National Post-Doctoral Fellowship</td>
<td>A novel smart contract-based framework with tracker tool to address the unethical practices and to maintain integrity in academic research</td>
<td>1620000</td>
<td>Dr. Sharon Moses J Guide Dr. Ebin Deni Raj</td>
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**Dr. Manjith (4)**

<p>| 50. | DST | Training Program on Entrepreneurship | 100000 | Dr. Manjith, Dr. Ebin |
| 51. | DST | India Serbia Collaborative project | 2400000 | Dr. Manjith, Joint project with IIIT Trichy, NIT Trichy, Indira Gandhi Delhi Technical University for Women (IGDTUW) |
| 52. | DST, India Japan Collaborative project | India Japan Collaborative project, Joint Workshops / Seminars, DST &amp; Japan Society for the Promotion of Science (JSPS) | 1000000 | Dr. Manjith, Joint project with IIIT Trichy, NIT Trichy, Indira Gandhi Delhi Technical University for Women (IGDTUW) |</p>
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<th>Faculty Involved</th>
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<td>DST SERB POWER scheme</td>
<td>A cyber physical system for maintaining the vegetation on urban areas</td>
<td>4460000</td>
<td>Dr. Manjith B.C., Dr. Panchami V., Dr. Divya Sindhu Lekha</td>
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<td>54</td>
<td>DST</td>
<td>India Portugal research grant</td>
<td>7000000</td>
<td>Dr. Kala</td>
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<td>55</td>
<td>Xilinx Inc USA</td>
<td>University grant sponsored by industry Xilinx Inc USA, for setting up a laboratory “Xilinx Women in Technology University Grand Program Fall 2020” $ 50,000 USD</td>
<td>3700000</td>
<td>Dr. Kala</td>
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<td>56</td>
<td>ASEAN-India Collaborative R&amp;D, AISTDF</td>
<td>With Universiti Sains Islam Malaysia (USIM), University Teknologi Brunei, Intelligent “Wearable Devices for Maternal Health Care”</td>
<td>2900000</td>
<td>Dr. Kala</td>
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<td>SERB Accelerate Vigyan</td>
<td>Deep Learning Architectures</td>
<td>200000</td>
<td>Dr. Kala</td>
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<td>58</td>
<td>DST</td>
<td>Workshop submitted to DST-SERB under Abhyas Karyashala</td>
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<td>Dr. Divya Sindhu Lekha</td>
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<td>59</td>
<td>DST - India-Italy Significant Bilateral Project Scheme</td>
<td>Realistic measures of robustness for real-world networks</td>
<td>3170500</td>
<td>Dr Divya Sindhu Lekha (PI), Dr. Dhanyamol (Co-PI)</td>
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<td>KSCSTE</td>
<td>Kerala State Young Scientist Award</td>
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<td>Association Rule Mining and Sequential Pattern Mining in a Nutshell: A Novel Sequence Graph-based Approach for Market Basket Data Analysis</td>
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<td>Dr Soumya George Guide, Dr Divya Sindhu Lekha</td>
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<td>SERB-DST</td>
<td>A study on phase retrieval from the magnitude data using regularization approaches for reconstruction of the data.</td>
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<td>Ministry of Earth Sciences</td>
<td>Satellite image enhancement for efficient Land Use and Cover Classification</td>
<td>1826264</td>
<td>Dr. Bini A. A.</td>
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<td>FA: DST/SERB</td>
<td>An automated system for detection and diagnosis of organ related and systemic diseases from eyes using fundus and OCT images</td>
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<td>Dr. Bini A. A.</td>
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<td>SERB</td>
<td>Multi Resolution Analysis and Restoration of Images Using Discrete Orthogonal Stockwell Transform: With Applications to Medical and Satellite Image Data</td>
<td>1571900</td>
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<td>Indo-US</td>
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<td>NITI Aayog</td>
<td>Smart Home security (ANIC challenge): Shortlisted for presentation</td>
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<td>IMPRINT 2018</td>
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<td>Toyota Foundation Japan</td>
<td>Blockchain Application for Mobility</td>
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<td>Dr. Shajulin</td>
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<td>Rajkumar G Guide Dr. Shajulin</td>
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<td>Women Entrepreneurial Seed Fund</td>
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<td>SERB Accelerate Vigyan</td>
<td>IoT Cloud Solutions for Productization – A Step to Entrepreneurship</td>
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<td>Joint MTech Program (40.28 Cr)</td>
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**Dr. Arun Cyril Jose (1) + Joint Projects (1)**

| 80. | 4th BRICS Young Scientist Conclave Campinas, Brazil |                                | 100000         | Dr. Arun Cyril Jose                                                          |

**Dr. Koppala Guravaiah (1)**

| 81. | SERB Startup research Grant | SES: Smart Environment Management System using Internet of Things | 863500         | Dr. Koppala Guravaiah                                                        |

**Dr. Kesab Nath (1)**

| 82. | SERB CRG                 | A Machine Learning Framework for Deploying Intelligent Reflecting Surface for Home-Based Healthcare over 5G | 2221544        | Dr. Kesab Nath                                                              |

**Dr. Bakkyaraj (3) + Joint Projects (1)**
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<td>DST-SERB MATRICS Scheme</td>
<td>Application of Local lie group Theory to time Fractional Porous Medium</td>
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<td>DST-SERB MATRICS</td>
<td>Application of Lie Group Theory to Certain Fractional order Differential and Differential – Difference Equations</td>
<td>660000</td>
<td>Dr. Bakkyaraj</td>
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<td>85</td>
<td>National Board for Higher Mathematics (NBHM), Department of Atomic Energy</td>
<td>On the fusion procedure and the cyclic characters of certain finite groups and algebras</td>
<td>605000</td>
<td>PI: Dr Geetha T, IISER Co-PI: Dr. Bakkyaraj</td>
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**Dr. Ragesh G K (3)**

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<td>650000</td>
<td>Dr. Ragesh G K Dr. Ebin Deni Raj Dr. Bini A A Dr. Bakkyaraj T</td>
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<td>87</td>
<td>Ministry of Electronics &amp; Information Technology (MeitY)</td>
<td>Developing Deep learning models for COVID-19 detection and tracking</td>
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<td>DST</td>
<td>Sensitizing Cyber Safety Awareness among Adolescent Girls And Young Women By Conducting Mobile And Virtual Exhibition In Kozhikode, Ernakulam, Kottayam and Thrivananthapuram Districts</td>
<td>2168320</td>
<td>Dr. Ragesh G K Dr. Rubell Marion Lincy G. Dr. Ebin Deni Raj Dr. Panchami. V</td>
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**Dr. Rubell Marion Lincy G. Joint Project (1)**

**Dr. Boddepalli SanthiBhushan (1)**

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**Dr. Manikandan V. M. (1)**

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<td>Third Eye: A smart spectacle to help blind people</td>
<td>800000</td>
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</table>

**Total** | | | 1372043218 |

Table 22: List of Research / Project Funding Proposals Under Various Stages of Evaluation & Considerations
3. Incubation Caters – AIC (NITI Aayog) and MSME Innovation / Start-Up Projects

The AIC (NITI Aayog) Incubation Center is incubating 23 start-up companies. Recently started MSME Incubation Center is incubating 01 start-up company with funding.

Note: In the following list of 69 submitted projects, 3 projects are rejected. They are related to incubation center and thus I have kept in this category.

3.1. MSME Incubation Center: Submitted 38 Start-up Project Funding Proposals

<table>
<thead>
<tr>
<th>SN</th>
<th>Project Funding Agency</th>
<th>Project Title</th>
<th>Funding in Rs.</th>
<th>Faculty / Incubates Involved</th>
<th>Sanctioned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MSME</td>
<td>Revenue oriented water quality prediction framework for smart-cities</td>
<td>13,00,000</td>
<td>Dr. Shajulin, Mentor: Dr. Rajan M.P</td>
<td>Submitted</td>
</tr>
<tr>
<td>2.</td>
<td>MSME</td>
<td>Most affordable Electric Motorcycle</td>
<td>1300000</td>
<td>Arpit Chauhan, Mentor: Dr. Shajulin</td>
<td>Submitted</td>
</tr>
<tr>
<td>3.</td>
<td>MSME</td>
<td>3D Modelling, Virtual Prototyping and Multi Physics Simulation based Product Development</td>
<td>1500000</td>
<td>Viswanath Krishnamani Mentor: Dr. Shajulin Benedict</td>
<td>Submitted</td>
</tr>
<tr>
<td>4.</td>
<td>MSME</td>
<td>E3 Homes Energy, Eco and Economy Friendly Smart Homes</td>
<td>1500000</td>
<td>Kaiparampil Lizbeth Joy, Mentor: Dr. Shajulin</td>
<td>Submitted</td>
</tr>
<tr>
<td>5.</td>
<td>MSME</td>
<td>Telecommunication &amp; Networking</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Ms. Anjali</td>
<td>Submitted</td>
</tr>
<tr>
<td>6.</td>
<td>MSME</td>
<td>Robotics</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Divvela Rakesh</td>
<td>Submitted</td>
</tr>
<tr>
<td>7.</td>
<td>MSME</td>
<td>Transportation &amp; Storage</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Kiren F Madekkal</td>
<td>Submitted</td>
</tr>
<tr>
<td>8.</td>
<td>MSME</td>
<td>Healthcare &amp; Life Sciences</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Ariharan T</td>
<td>Submitted</td>
</tr>
<tr>
<td>9.</td>
<td>MSME</td>
<td>Waste Management</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Denix M Sebastian</td>
<td>Submitted</td>
</tr>
<tr>
<td>10.</td>
<td>MSME</td>
<td>Design</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. K Viswanathan</td>
<td>Submitted</td>
</tr>
<tr>
<td>11.</td>
<td>MSME</td>
<td>Renewable Energy</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Faruq Khan Pareeth</td>
<td>Submitted</td>
</tr>
<tr>
<td>12.</td>
<td>MSME</td>
<td>Internet of Things</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Manojkumar Yadav</td>
<td>Submitted</td>
</tr>
<tr>
<td>13.</td>
<td>MSME</td>
<td>Waste Management</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mrs. N C Brintha</td>
<td>Submitted</td>
</tr>
<tr>
<td>14.</td>
<td>MSME</td>
<td>Renewable Energy</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mrs. Kaiparampil Lizbeth Joy</td>
<td>Submitted</td>
</tr>
<tr>
<td>15.</td>
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<td>1500000</td>
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<td>Submitted</td>
</tr>
<tr>
<td>SN</td>
<td>Project Funding Agency</td>
<td>Project Title</td>
<td>Funding in Rs.</td>
<td>Faculty / Incubates Involved</td>
<td>Sanctioned</td>
</tr>
<tr>
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<td>------------------------</td>
<td>------------------------</td>
<td>----------------</td>
<td>---------------------------------------------------------------------------------------------</td>
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<td>16.</td>
<td>MSME</td>
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<td>Dr. Shajulin Benedict via. Mr. Arya P Muralidharan</td>
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<td>17.</td>
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<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Basil C Sunny</td>
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<tr>
<td>18.</td>
<td>MSME</td>
<td>Logistics</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Kenny Thomas</td>
<td>Submitted</td>
</tr>
<tr>
<td>19.</td>
<td>MSME</td>
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<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Anto John</td>
<td>Submitted</td>
</tr>
<tr>
<td>20.</td>
<td>MSME</td>
<td>AI</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Binish Thaikkottathil</td>
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<tr>
<td>21.</td>
<td>MSME</td>
<td>Food &amp; Beverages</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Saji Sukumaran</td>
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<tr>
<td>22.</td>
<td>MSME</td>
<td>Technology Hardware</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Alrin A Jabin</td>
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</tr>
<tr>
<td>23.</td>
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<tr>
<td>24.</td>
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<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Sudharsanan E K</td>
<td>Submitted</td>
</tr>
<tr>
<td>25.</td>
<td>MSME</td>
<td>Renewable Energy</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. DML Industries</td>
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</tr>
<tr>
<td>26.</td>
<td>MSME</td>
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<td>Dr. Shajulin Benedict via. Mr. Sinto Joseph</td>
<td>Submitted</td>
</tr>
<tr>
<td>27.</td>
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<td>Submitted</td>
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<tr>
<td>28.</td>
<td>MSME</td>
<td>Green Technology</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Hari Krishnan S</td>
<td>Submitted</td>
</tr>
<tr>
<td>29.</td>
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<td>Dr. Shajulin Benedict via. Mr. Anson Joseph</td>
<td>Submitted</td>
</tr>
<tr>
<td>30.</td>
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<td>Dr. Shajulin Benedict via. Mr. Anoop K Nair</td>
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<tr>
<td>31.</td>
<td>MSME</td>
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<td>Submitted</td>
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<tr>
<td>32.</td>
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<td>Biotechnology</td>
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<td>33.</td>
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</tr>
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<td>34.</td>
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<td>AI</td>
<td>1500000</td>
<td>Dr. Shajulin Benedict via. Mr. Sreerenj S</td>
<td>Submitted</td>
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<td>35.</td>
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<td>36.</td>
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<td>37.</td>
<td>MSME</td>
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<tr>
<td>38.</td>
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<td>Submitted</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>55300000</strong></td>
<td><strong>5.53 Cr</strong></td>
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Table 23: MSME Incubation Center - Project Submissions
3.2. AIC Incubation Center (NITI Aayog) - Project Submissions (Faculty: Dr. Shajulin Benedict via. AIC Team): Submitted 31 Start-up project proposals and incubating 21 start-up companies

<table>
<thead>
<tr>
<th>SN</th>
<th>Funding Agency</th>
<th>Project Title</th>
<th>Funding in Rs.</th>
<th>Faculty / Incubates Involved</th>
<th>Sanctioned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Govt. of India</td>
<td>Youth Co lab</td>
<td>500000</td>
<td>Divela 3d</td>
<td>Submitted</td>
</tr>
<tr>
<td>2.</td>
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<td>Youth Co lab</td>
<td>500000</td>
<td>Vuga Security solution</td>
<td>Submitted</td>
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<tr>
<td>3.</td>
<td>Govt. of India</td>
<td>WEP</td>
<td>7167975</td>
<td>Trophic Bio System</td>
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<td>4.</td>
<td>Govt. of India</td>
<td>Birac</td>
<td>500000</td>
<td>Trophic Bio System</td>
<td>Submitted</td>
</tr>
<tr>
<td>5.</td>
<td>Govt. of India</td>
<td>Enterprise Awards Track</td>
<td>500000</td>
<td>Trophic Bio System</td>
<td>Submitted</td>
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<tr>
<td>6.</td>
<td>Govt. of India</td>
<td>Startup India</td>
<td>500000</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
</tr>
<tr>
<td>7.</td>
<td>PVT Incubator</td>
<td>Springboard Incubator</td>
<td>20000000</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
</tr>
<tr>
<td>8.</td>
<td>Govt. of India</td>
<td>startup Mithra</td>
<td>50000</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
</tr>
<tr>
<td>9.</td>
<td>Govt. of India</td>
<td>NITI - Prayas</td>
<td>1000000</td>
<td>DML Industries</td>
<td>Submitted</td>
</tr>
<tr>
<td>10.</td>
<td>Govt. of India</td>
<td>NITI - Prayas</td>
<td>1000000</td>
<td>Vajra software solutions</td>
<td>Submitted</td>
</tr>
<tr>
<td>11.</td>
<td>Govt. of India</td>
<td>NITI - Prayas</td>
<td>1000000</td>
<td>Duklr</td>
<td>Submitted</td>
</tr>
<tr>
<td>12.</td>
<td>Lets Venture</td>
<td>Lets Venture</td>
<td>10000000</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
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<tr>
<td>13.</td>
<td>Lets Venture</td>
<td>NITI - Prayas</td>
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<td>Maklabs</td>
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<td>14.</td>
<td>Govt. of India</td>
<td>PSG-STEP Seed Fund</td>
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<td>Sygul Technologies</td>
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<td>15.</td>
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<td>Springboard Incubator</td>
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<td>16.</td>
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<td>17.</td>
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<td>RK Electromobiles</td>
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<tr>
<td>18.</td>
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<td>12th Edition The Coimbatore Vizha</td>
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<td>20.</td>
<td>DIPP</td>
<td>Assocham startup launchpad - Raipur Edition</td>
<td>15000000</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
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<tr>
<td>22.</td>
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<td>23.</td>
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<td>25.</td>
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<td>26.</td>
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<td>12th Edition The Coimbatore Vizha</td>
<td>10000000</td>
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<td>27.</td>
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<td>10000000</td>
<td>Maklabs</td>
<td>Submitted</td>
</tr>
<tr>
<td>28.</td>
<td>PVT Incubator</td>
<td>12th Edition The Coimbatore Vizha</td>
<td>10000000</td>
<td>Divvela 3D</td>
<td>Submitted</td>
</tr>
<tr>
<td>29.</td>
<td>Govt. of India</td>
<td>5th State evaluation board meet held for startups</td>
<td>1000000</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
</tr>
<tr>
<td>30.</td>
<td>Toyota</td>
<td>Toyota Mobility Foundation Challenge (CATCH)</td>
<td>109990500</td>
<td>BAXA</td>
<td>Submitted</td>
</tr>
<tr>
<td>SN</td>
<td>Project Funding Agency</td>
<td>Project Title</td>
<td>Funding in Rs.</td>
<td>Faculty / Incubates Involved</td>
<td>Sanctioned</td>
</tr>
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<td>----</td>
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<td>----------------------------------</td>
<td>----------------</td>
<td>-------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>31</td>
<td>Toyota</td>
<td>Toyota Foundation Mobility (CATCH) Challenge</td>
<td>109990500</td>
<td>RK Electromobiles</td>
<td>Submitted</td>
</tr>
<tr>
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<td>Total</td>
<td></td>
<td>411198975</td>
<td></td>
<td>41.11 Cr</td>
</tr>
</tbody>
</table>

Table 24: AIC Incubation Center (NITI Aayog) - Project Submissions

Mastery on Data Structures and Algorithms using C / C++
- Mastery over C / C++ programming languages.
- Solve minimum 3000 Data Structure and Algorithms problems using C / C++.

Knowledge of Other Programming Languages
- Knowledge of Java, Python, HTML, JavaScript, PHP etc.

Coding Achievements
1. Awards in Coding Competitions such as ACM ICPC.
2. Awards in Hackathons.
3. Coding Rank such as 6 Star coder on Codechef, Current Codechef Rating, Country Rank, World Rank etc.

Up to the end of 6th Semester you need to develop minimum 4 Good Quality Software Projects, which are not part of curriculum. Upload these projects at GitHub etc. The recruiters can check the efficiency of code and use of appropriate Data Structure Algorithms.

CGPA 7.0 or higher

Minimum 4 Certifications from NPTEL, Coursera, Udemy, Ed tech, Swayam etc. to show that you have desire for learning and learning aptitude.

Publish at least one International Conference Research Paper with the help of faculty member to show that you have real life problem solving attitude and research skills.

Minimum 2 to 3 relevant Internships, preferably paid Internships, before 6th Semester. This industrial experience and exposure will help you to perform better in Internship after 6th semester.

For better Internship Opportunities you must have Technically Highly Impressive LinkedIn profile.

One Page Impressive Resume

Internship in Top IT Dream Company just after the 6th semester, in summer vacation

In this Internship, if the employer’s feedback is positive then

Pre-Placement Offer (PPO) From this top IT Company Before admitting students to 7th Semester

80/81
Fig. 02: How to get Pre-Placement Offer (PPO) with very attractive pay package through Internships at Leading IT Companies