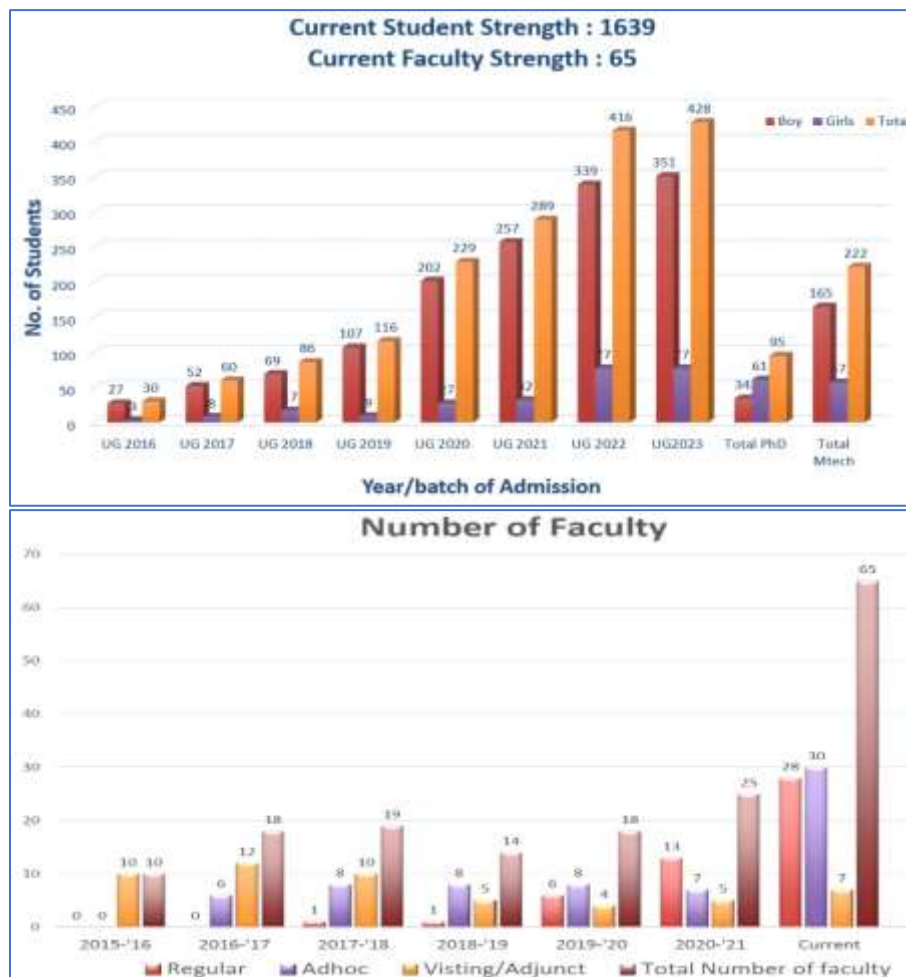


IIIT Kottayam - Topmost IIT in India - Promoting Culture of Innovation to Establish an Industry Supported Global Education Hub

In the recruitment process, the First choice of IT Companies is “the Innovative Brain”. The curriculum is important for developing Innovative Brains but can’t cover all the parameters needed to nurture innovative brains. The goal can be achieved by creating a fertile land for developing a culture of Innovations through a variety of ways and strategies, which are not part of the curriculum. It’s a way to establish an Industry Supported Globally recognize education hub.

As of today, we have 70+ faculty, 1665 students including 102 Ph.D. / Post Doc scholars, and 222 MTech students (working professionals from 200+ IT companies many of them are having 5 to 15 years of IT Industry experience).



Contents

| | |
|---|------------|
| I. Nurturing Innovation Culture through Funded Research Projects..... | 3 |
| II. Nurturing Innovation Culture through Incubation Centers and Start-ups..... | 3 |
| III. Nurturing Innovation Culture through Coding / Programming Culture..... | 4 |
| IV. Nurturing Innovation Culture through Technical Events on Advanced & Recent Technologies | 13 |
| V. Nurturing Innovation Culture through Real-World Problem-Solving Culture | 18 |
| VI. Nurturing Innovation Culture through Research Activities | 22 |
| VII. Nurturing Innovation Culture through Two-Way Industry-Interface..... | 69 |
| VIII. Nurturing Innovation Culture through Internationalization | 89 |
| IX. Nurturing Innovation Culture through Boosting Learning Attitude & Learning Beyond Syllabus | 122 |
| X. Nurturing Innovation Culture through Interdisciplinary Approach | 125 |
| XI. Nurturing Innovation Culture through Student’s Open-Source Contributions | 147 |
| XII. Nurturing Innovation Culture through Networking of People & Development of Knowledge Base Society | 150 |
| XIII. Nurturing Innovation Culture through Innovation / Incubation Centers..... | 196 |
| XIV. Nurturing Innovation Culture through Provision of Excellent Learning Space for Innovators..... | 204 |
| Appendix: Details of Project Funding Proposals..... | 338 |
| At a Glance Performance of IIIT Kottayam in the Last 5 Years (2019-24) | 369 |

Our final product or output is nothing but the quality of our students, which is acceptable to the IT industry and 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 in 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 a culture of Innovation, through different routes, which are not part of the curriculum. Let's see how we "the IIIT Kottayam community" resolved this issue through **14 points program** and are producing INDUSTRY 4.0 READY students. This year (2023), to date, in B.Tech. final year, **One Student got Rs. 58.93 p.a. Lakh pay package, 03 students got a pay package of Rs. 45 Lakh p.a.** and **09 students got a package above Rs. 30 Lakhs p.a., 02 students got International Offer from Japan** and the average package is Rs.14.3 Lakhs.

I. Nurturing Innovation Culture through Funded Research Projects

1. Projects -Sanctioned: **101** (worth 26.14 Crores)
2. Funding Proposals under various stages of evaluation & considerations: **206** (worth 347.21 Crores)

Total: **307** Projects worth **Rs. 373.35 Crores**

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

3. Incubation Centers:
 - MSME Incubation Center: Submitted **144** Start-up project proposals (Rs. 21.41 Crores) and incubated **03 start-up companies** with funding.
 - AIC Incubation Center (NITI Aayog) - Submitted **34** (Rs. 41.53 Crores) Start-up project proposals and **incubated 35 start-up companies**

Total: **178** start-up funding proposals worth **Rs. 62.94 Crores**

The details are provided in **Table numbers 48 to 52** at the end of this document.

Thus, in last 4 years, Sanctioned and Submitted Projects in Research & Innovation Category are **485** (i.e. 307 + 178) and total project cost is **Rs. 436.29 Crores.**

That is, **Rs. 4.36 Billion**

III. Nurturing Innovation Culture through Coding / Programming Culture

1. 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 is equivalent to 3 months of training. Got an overwhelming response. More than 23000 (Twenty-Three Thousand) views in just 5 months.
<https://www.youtube.com/channel/UCDMHOBgLbMtpaZoy-zwOOjw>
2. To promote Coding / Programming Culture, IIIT Kottayam has established various student chapters and coding clubs. They organize various events on regular basis.

| SN | Student's Coding / Programming Clubs / Forums / Chapters | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|-------------------|--|
| 1. | GeeksForGeeks Students Chapter | Dr. Victor Paul | <ol style="list-style-type: none"> 1. Webinar on "Placement Tips and Tricks Webinar" by Aravind Warriar, HR Director at Rapid Value in Dec 13, 2020 2. Webinar on "Engineering Roadmap & Introduction to CPP" by Mohan Bishnoi - GeeksforGeeks Associate Mentor, Devanshu Monga - GeeksforGeeks Campus Manager in Dec 13, 2020 3. Online technical event: Fastest Fingers First –A technical competition where students are given some technical advancements in the industry as MCQ in Jan 26, 2021 4. Webinar on "Industry Expectation from Engineering Graduates" by Mr. Robin Tommy, Head TCS Rapid Labs on May 26, 2021 5. Organized Online 3 days Web Development event: WebHacks 1.0 on May 29, 2021 6. Webinar on "CV Making for Jobs and Internships" by Mr. Aravind Warriar, HRD at RapidValue on June 12, 2021 7. Organized MCQ based online event: Guess the Output – A technical coding event to predict the output of the snippet in C programming language on June 13, 2021 8. Organized Intra-college DSA Quiz event on Oct 23, 2021. Top 3 ranks are appreciated with certificates 9. Webinar on "Freelancing for MERN Stack" by Praveen Kumar Purushothaman, FullStack developer and Web Enthusiast on Nov 6, 2021 10. Webinar on "Data Structures and Algorithms" by Kriti Gera, Mentor GfG on Nov 12, 2021 |
| 2. | Code Chef Student Chapter | Dr. Victor Paul | <ol style="list-style-type: none"> 1. A one-week days learning sprint: 5 days of technical concepts and competitive coding sessions conducted by the students of IIIT Kottayam. 2. Organized Hackoonamata – an online Intra-IIITK hackathon 3. Hosted problem solving event on "Daily DSA practice" for 2 months, solving 2-4 problems daily organized by Mr. Prabal Kalia (2018 Batch) from May 5, 2021 to July 6, 2021. |
| 3. | Coding Ninjas Club | Dr. Victor Paul | <ol style="list-style-type: none"> 1. MoU signed in April. 2. Initial discussion with Coding Ninjas Coordinator is done through online mode. 3. Selection of Student coordinators for technical activities is in progress. |

| SN | Student's Coding / Programming Clubs / Forums / Chapters | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|-------------------|--|
| | | | <ol style="list-style-type: none"> 4. Hosted Webinar on “Roadmap to Cracking Internships and Placement Interviews” Sakshi Sharma (SE Microsoft) (SE Microsoft) on Aug 21, 2021 5. Hosted a Webinar on “Advanced DSA for Placement and Internship Interviews”, by Shantanu Shubham, SDE Schlumberger on Dec 18 2021. 6. Hosted Webinar on “Freshmen Induction” Sakshi Sharma (SE Microsoft) on 12th Jan, 2022 7. Hosted a Webinar on “Binary Search and Greedy Algorithms”, by Mr. Aditya Soni, CodingNinjas on 3rd Feb, 2022 8. Hosted a Webinar on “Multidimensional Arrays”, by Mr. Swapnil Narayan, Microsoft India on Jun 8, 2022 9. Hosted a Webinar on “Matrix Problems”, by Mr. Swapnil Narayan, Microsoft India on Jun 26, 2022 10. Hosted a Webinar on “Matrix Problems Using Dynamic Programming”, by Mr. Swapnil Narayan, Microsoft India on Jun 26, 2022 11. Organised an exclusive session on Create Your First Game Using JavaScript by Akshay Gagrani (Software Engineer at Myntra) on 15th December 2022 12. Organised An intensive 2-hrs Certified Workshop to KICKSTART your career in Data Science & Analytics & bag multiple job & internship offers by Shailja Mishra on Dec 2 , 2022 13. Organised Coding Ninjas in collaboration with IIIT Kottayam an exclusive session on Complete Interview Preparation for MAANG by Swapnil Narayan SWE @Microsoft ISM Dhanbad on 23 Oct 2022 14. Organized “Freshmen Induction ” for 2022 batch to head-start career by Ms. Dhairya Gangwani, Career Coacher on 27 Nov 2022 15. Organized “Create Your First Game Using JavaScript” by Akshay Gagrani (Software Engineer at Myntra) on Dec 15, 2022. 16. Organized online Ultimate 5-Days Bootcamp for Data Science, Machine Learning & Data Analytics January 27 – 31, 2023. 17. Organized “HTML, CSS, and JavaScript” by Akshay Gagrani, SE Myntra on Feb 19, 2023. |
| 4. | Google Developer Student Club | Dr. Victor Paul | <p>2021 – 2022</p> <ol style="list-style-type: none"> 1. The new chapter formulated and core team identified in the month Aug 21 2. A webinar on GDSC Introduction conducted by GDSC Lead on Aug 25, 2021. 3. Organized “30 Days of Google Cloud Program” 200+ students registered for the program from the institute and monthly subscription is being provided to all those in their qwiklabs account. 4. Intra-College event Android Study Jams organized from Dec 5 -9, 2022 facilitated by Cyril Kunjumon (2019 Batch). Webinar on “Google Solutions Challenge Kickoff” handled by Aditi Shukla (2020 Batch). <p>2022-2023</p> <ol style="list-style-type: none"> 1. Organized “Info Session- GDSC IIITK” by Aditi Shukla, Chapter Lead on 20th August 2022 |

| SN | Student's Coding / Programming Clubs / Forums / Chapters | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|--------------------|---|
| | | | <ol style="list-style-type: none"> 2. Conducted “Compose Camp and Android” weekly sessions to build mobile applications facilitated by Vishal Lokare (2020 batch) from 9th September to 16th October 2022. The event received over 25 entries in terms of complete App designs. 3. Organized “Google Cloud Career Practitioners” to elaborate How cloud technology works, to build our own VMs, Kubernetes and cloud management. 5 sessions conducted from 14th Nov to 25th November 2022. Out of the 60 participants 20 were able to complete all tasks and tracks. 4. Conducted “Introduction Session to GDSC” for the batch 2022 by Aditi Shukla, Chapter Lead and Ganesh Nathan on 26th November 2022 5. Organized a 5 days WINTER HACKS Hackathon from 26th December - 30th December 2022. The hackathon covered the topics like UI/UX with Figma, GitHub, Open Source and Tech Article, Linux and Shell Scripting, Virtualization and Cloud, Capture The Flag – CTF. 6. Conducted “Solution Challenge - Info Session” session, which is an informative session about the solution challenge hackathon under GDSC Global, by Maitri Salva on 16th January 2023 7. Organized “Google Solution Challenge Session” for discussion on project-related questions on Feb 1, 2023. 8. Conducted a session on Introduction to Flutter esteemed YouTuber/Digital Educator Aditya Thakur on Feb 17, 2023. 9. Organized Annual Prize Distribution Ceremony of GDSC IIITK 2022-23 on Feb 17, 2023. 10. In collaboration with the Game Dev Club of IIIT Kottayam, “Fundamental features of Unity game engine” was organized by Murali (2020 Batch) on March 24, 2023. 11. Conducted a TECH MARATHON 2.0 on Machine Learning Workshop on April 11, 2023. 12. Organized a special session on Machine Learning, followed by the GCCP (Google Cloud Certified - Professional) prize distribution on April 13, 2023 |
| 5. | Coders Club | Dr. P. Victor Paul | <ol style="list-style-type: none"> 1. Hosted a Webinar on “Introduction to Coders Club”, by Seshathri S (2019 Batch), IIITK on Oct 23, 2021 2. Hosted a Webinar on “Time and Space complexity”, by Shriganesh (2019 Batch), IIITK on Oct 27, 2021 3. Hosted a Webinar on “CodeSprint Problem Discussion”, by : Prabal Kalia(2018 batch) IIITK on Nov 7, 2021 4. Organized a Coding Contest on the platform binarysearch.com on Nov 13, 2021 5. Organised a kickstart Session for 2021 about the coding club and ongoing activities in the club 6. Organised an Introductory Session for Batch 2022 to kick start their coding journey 7. Organized first biweekly contest on 12/11/2022 10 AM to 11 PM. |

| SN | Student's Coding / Programming Clubs / Forums / Chapters | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|-------------------|--|
| | | | 8. Organized second biweekly contest on 25/11/2022 8 PM to 10 PM on codeforces. 9. Organized session on Introduction to C++ programming language by Abhijit Mishra on Feb 3 from 3:00 PM to 4:00 pm |

Table 01: Activities of the Student's Coding / Programming Clubs / Forums / Chapters etc.

- To boost the programming culture, we have made appropriate changes in the curriculum. In most of the IITs, and NITs the first year is common for all branches. Thus, computer engineering students need to study the subjects like Chemistry, Physics, Engineering Drawing, Engineering Mechanics, Engineering-Workshop, etc. Thus, in IITs and NITs, computer engineering students can't focus more on programming in the first year. The IIIT Kottayam, in the initial 4 semesters, removed these subjects and introduced many programming languages, Data Structure I, III and III and Computer Algorithm. Thus, our students get the required exposure and competitive edge for participating in Global Coding Competitions and Hackathons than students of IITs and NITs.
- To produce globally employable students, in addition to Coding / Programming Clubs, our 12 faculty members are providing training in 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 got many prestigious prizes and awards. Let's see the **Coding Performance** of IIIT Kottayam Students:

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|----|--|---|
| 1. | A student qualified in Google Summer of Coding for two years 2018 and 2020 with total cash award of \$5400. | Mr. Rahul Badami |
| 2. | Two teams of students bagged 1 st prize in prestigious Smart India Hackathon 2022 with a cash award of Rs. 1 Lakh for each team. Team 1: Problem Statement: AT980 (Madhya Pradesh Police) Team 2: Problem Statement: PK858 (Ministry of Electronics and Information technology (MeitY)) | Team 1 Name: Sons of Pitches 1. Ms. Harini T (Lead) 2. Mr. Shashank Kumar Srivastava 3. Mr. Ishaan Mahesh 4. Mr. Akarsh Pandey 5. Mr. Divyansh Panwar 6. Mr. Bhavya Goyal Team 2 Name: GNAR55 1. Mr. Akshay Warriar (Lead) 2. Mr. Ganesh Nathan 3. Mr. Niranjan Nagumalli 4. Mr. Rohith Ninan 5. Ms. Samhitha Bharthulwar 6. Mr. Sai Harvin Kusumaraju |
| 3. | Students of IIITK bagged the top three prizes of The Reflections Hackathon Machine Learning in IR4.0, a two-week-long hackathon. First prize - ₹2 lakh Second prize - ₹50K Third prize - ₹25K | First prize - Mr. Aditya Wath Second prize - Mr. Sarthak Bindal Third prize - Mr. Neeraj Yatheendran |

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|-----|--|---|
| 4. | A team of students stood 2 nd all over India in prestigious Smart India Hackathon 2020 with a cash award of Rs. 75,000. Problem Statement: IC469 | Team name: Competent developers 1. Mr.Vishal Shivakumar Kanakamamidi, 2. Mr.Anuj Srivastava, 3. Mr.Rishav Jaiswal, 4. Ms.Mattarparti Satya Bhargavi, 5. Mr.Konjety Keerthi Sreenivas, 6. Mr.Dharavathu Neehari Naik |
| 5. | 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 Ministry of Electronics and Information Technology Start-Up Hub (MeitY). | 1. Mr.Vishal Shivakumar Kanakamamidi, 2. Mr.Anuj Srivastava, 3. Mr.Rishav Jaiswal, 4. Ms. Satya Bhargavi |
| 6. | Two team from IIITK have won the 1 st and 2 nd runner prizes in the Microservices Hackathon held on 25th August organized by NeST Digital Academy | 1 st Winner Team Name: Back Benchers 1. Mr.Sagar Raj 2. Mr.Yogesh Raj 3. Mr.Harsh Gupta 4. Mr. Vatsal Sinha 5. Mr. Zishan Ahmed Team Name: Omega 1. Mr. Amritansh Singh 2. Mr. Basit Shaikh 3. Mr. Akhil M Reji 4. Mr. Raunak Kumar Singh |
| 7. | 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) | A V S Adityavardhan, Ananta Bhotla, Sathya Krishna, Vinay Y |
| 8. | A team of students emerged as Winners in a problem statement in the MANTHAN Hackathon held by BPR&D partnering with AICTE and MIC. The team received Rs. 1 Lakh rupees and an Internship opportunity. | Nikhil Menon, Aditya Srinivas Menon, Gouri Nair |
| 9. | A team of students secured Runner-up in the Reflections Automotive Challenge organized by Bloom Bloom and Reflections Infosystems Pvt. Ltd. The team received 25k cash prize along with Internship in the Company. | Rahul Barnwal, Amritansh, Shashank, Prajjwal |
| 10. | A student is selected for the final round in Game Development World Championship 2020 | Mr. Sameer Ahmed |
| 11. | A student has won the MIT Covid19 Challenge : India Turning the Tide with a cash award of 500\$ | Mr. Adityavardhan AVS |
| 12. | A team was qualified for the final round in the Smart India Hackathon 2020. | Team name: Aviato 1. Mr. Suryapal Singh Asolia Rao, 2. Mr. Kshitij Pal, 3. Mr.Vedant Sandeep Joshi, 4. Ms. Amritha Haridasan, 5. Mr.Joel Mathew Philip, 6. Mr.Utkarsh Trivedi |

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|-----|---|---|
| 13. | A team was qualified for the final round in the Smart India Hackathon 2022 organized by Ministry of Education | Aditya Menon, Nikhil Menon, K Sumanth, Gouri Nair & Anoushka Sudhi |
| 14. | A student emerged as a Top Performer and Winner CellStrat AI Lab-Hands-on Hackathon June 2019, Bangalore | Mr. Vishal Shivakumar Kanakamamidi |
| 15. | Total 4 teams selected within the top 25 ranks in National-level ACM-ICPC Asia Chennai Regional Contest 2019 Hosted at HIIST, Chennai. | Team with Rank 20: Seshathri Saravanan, Rishabh Anand, Ashwin Nair Team with Rank 22: Mahesh Vanam, Venkatasaikowsik Vellaturi, Prudhvireddy Venati Team with Rank 23: Soham Shinde, Shriganesh Bhide, Kumar Sunny Team with Rank 24: Nevin Selby, Shashank Singh, Alwin Sebastian |
| 16. | In HackerEarth July Circuits, 2019, two student secured rank within top 200 out of 10000 participants globally. | Mr. Prabal Kalia Mr. Anshuman Mishra |
| 17. | A 1 st year student ranked 40 globally amongst 3000 participants in the Codechef January Cook-off 2020. | Mr. Seshathri |
| 18. | A student was selected among the top 50 candidates for the ZS Data Science Challenge 2019 | Mr. Mannem Srinivas (2016 batch) |
| 19. | Many students qualified for CodeVita 2020, including 1 st year students | 1. Mr.Yarlagadda Sai Bhavadeesh 2. Mr.Aditya Mutharia |
| 20. | Two teams secured rank within 25 among the 200+ teams participated in NIT Delhi Reverse Coding Challenge, 2019 | Mr. Pushpam Saxena |
| 21. | A student achieved World Rank 3 in January Code Challenge 2020 on HackerEarth | Mr. Prabal Kalia |
| 22. | Winner in Top-5 projects at IEEE Codeathon, a Hackathon organized by IEEE North Cap University India | A V S Aditya Vardhan |
| 23. | A student holds 5 CSES world records for the fastest codes and code-golf. | Mr. Prabal Kalia |
| 24. | A student was selected for LiFT Scholarship 2020 under Blockchain Blockbusters given by Linux Foundation | Mr. Utkarsh Trivedi |
| 25. | A group of students were selected to participate in the finals of Version Beta Hackathon held at MANIT Bhopal | Team "Snowdens": 1. Mr. Ayush Rai, 2. Mr. Anshuman Mishra and 3. Mr. Rahul Badami |
| 26. | A team has won 51 st rank among 5000+ participants in Classify the Lunar Rock: HackerEarth Data Science Competition, October 2019. | Mr. Vishal Shivakumar Kanakamamidi |
| 27. | 4th rank in MLH Local Hack Day organized by Major League Hacking (MLH) in April 2021 | Rishabh Srivastava |
| 28. | 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 | Competent Developers: 1. Mr. Vishal Shivakumar Kanakamamidi, 2. Mr. Anuj Srivastava, 3. Mr. Ayush Rai |
| 29. | A team reached the Pre-Finals in the prestigious E-Yantra Robotics Challenge 2019, sponsored by Ministry of Education and conducted by IIT Bombay. | Mr. Shiva Kumar Marepally Mr. Vishnu Khanth B, Mr. Anshuman Gaurav and Mr. Bivek Benoy Paul |

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|-----|---|---|
| 30. | Most of the students have cleared the first round of Google CodeJam 2020, Kick Start 2020, Hashcode 2020 and Facebook HackerCup. | <p>Google Hash Code 2020</p> <p>Rank-4234: Aashish Sharma, Ashwin Nair Rishabh Anand, Anshu Kumar</p> <p>Rank-6724: Srivatsan Harish, Deshaboina Yashwanth, Lakshin Kumar, Sai Tejashwin</p> <p>Rank-7171: Pushpam Saxena, Nikil Ghanghor, Kaushal Samant, Dhurjati Vats</p> <p>Rank-7732: Kishore Prasad, Dheenadhayalan, Seshathri</p> <p>Rank-8005: Alwin Sebastian, Nevin John Selby, Shriganesh Bhide, Tanishq Jain</p> <p>Rank-8264: Venati Prudhvi, Saikowsik Vellaturi, Sri Rama Varshith Potharlanka</p> <p>Rank-8385: Kumar Sunny, Shashank Singh Abhijith S Babu, Beri Bhanu Vishnu, Vardhan Reddy</p> <p>Rank-9107: Ruchika Sreedhar</p> <p>Google Kick Start 2020</p> <p>Rank 2284 (Round E) - Ashwin Nair Rank 3619 (Round D) - Ashwin Nair</p> <p>CodeJam 2020 Mr. Som Sagar</p> |
| 31. | One of the team was among the top teams called for Onsite Demonstration in RAKATHON 2.0, November 2019 | <p>Mr. Vishal Shivakumar Kanakamamidi Mr. Rishav Jaiswal Ms. Mattaparti Satya Bhargavi</p> |
| 32. | 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 |
| 33. | A student has won 3 rd Place in Co<div/>, a Freshworks App Hackathon organized by Freshworks in June 2020 | Mr. S J Sameer Ahmed |
| 34. | 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 |

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|-----|---|--|
| 35. | Students have qualified for the final round in Inter IIIT coding competitions. | |
| 36. | Selected for Grand Finale Toycathon, 2021 Government of India | Rahul Barnwal |
| 37. | First Position in CIENCIA 2021 organized by IEEE SB IIIT Kottayam | Rahul Barnwal |
| 38. | 3 rd Position in Fastest Fingers organized by GFG IIIT Kottayam Student Chapter | Rahul Barnwal |
| 39. | Granted 1 Year access to Param-YUVA 2 Supercomputer by CDAC for research activities | Prasanna Devadiga |
| 40. | Project Development in Version Beta 3.0 organized by MANIT | AVS Adityavardhan, J V Sathya Krishna |
| 41. | Shortlisted to participate the final round presentation in Hackerflow Hackathon organized by Surveysparrow | A V S Adityavardhan, J V Sathya Krishna, Yashwanth Deshaboina, M G Crishtopher |
| 42. | Finalists in Giftabled Hackathon | A V S Adityavardhan, J V Sathya Krishna, Yaddanapudi Vinay, Yashwanth Deshaboina |
| 43. | Secured global rank 1926 out of 10k+ participants in Google Kickstart round B 2020 Secured Global Rank 817 out of 12k+ participants in Google Kickstart round C 2021 Secured Global Rank 2051 out of 10k+ participants in Google Kickstart round D 2020 | Seshathri |
| 44. | Secured 1st rank in GNIDOC(reverse coding contest) during TECHSEMBLE organised by IEEE Student Branch of IIIT Kottayam in association with IEEE Kerala | Seshathri |
| 45. | Secured 1st rank in GNIDOC (reverse coding contest) during TECHSEMBLE | Seshathri |
| 46. | Qualified for Facebook Hackercup round 1 2020. Qualified for Codejam round 1 2020 and 2021. | Seshathri |
| 47. | Secured Global Rank 1066 in Google Code Jam 2021 | Aditya Mutharia |
| 48. | Secured a global rank of 6307 (National Rank: 2174) in Google Hash Code 2021 | Amritansh Singh |
| 49. | Secured rank 2 in the event COD-IT ACM Student Chapter organized Don Bosco Institute of Technology, Mumbai by in July 2020 | Ashish Gusain |
| 50. | Secured rank 15 in the event Janatahack: Cross-sell Prediction organized Analytics Vidhya by in September 2020 | Ashish Gusain |
| 51. | Secured rank 9 in the event HackerEarth Machine Learning challenge: Adopt a buddy organized by HackerEarth in July 2020 | Ashish Gusain |
| 52. | Secured Second prize at Web Hacks organised by GFG student chapter, IIIT Kottayam | Shashank Kumar Srivastava |
| 53. | Secured a global rank of 6495 in Google Hash Code 2021 conducted in Feb 2021 | Rishabh Srivastava |
| 54. | Secured a global rank of 5091 in Google Hash Code 2021 | Cyril Kunjumon |
| 55. | Student got National Rank 138 in CodingNinjas CodeKaze coding event Round 2. Total participants are more than 10K. | Seshathri S |
| 56. | Secured 1 st Position in HackoonMata Hackathon conducted by IIIT Kottayam | Som Sagar |

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|-----|---|---|
| 57. | Secured Second prize at Idea Pitching organized by IEEE CIENCIA 2021 | Shashank Kumar Srivastava |
| 58. | Secured First prize at Web Hacks organised by GFG student chapter, IIIT Kottayam | Cybil Kunjumon |
| 59. | Secured a global rank of 959 in Google Hash Code 2021 | Aryan Yadav, Hrishabh Joshi, Prabal Kalia, Ritik |
| 60. | Secured a global rank of 1066 in Google Code Jam 2021 | Aditya Mutharia |
| 61. | A student participated in the hackathon Internathon 6.0 conducted by HarbourX and shortlisted for the Internship offer. | Bhanu Krishna Prasad Vipparla |
| 62. | A student participated in the Hackathon Internathon 6.0 conducted by HarbourX and emerged among the 8 shortlisted candidates from 154 participants. | Margani Rohith |
| 63. | Participated in the Hackathon MLH: Sunhacks 2021 and awarded Best Hardware Hack | Adithyadev Mattada |
| 64. | Students participated in Good Tech Scholar Program 2021 by IBM India Software Labs and contributed with a winning solution | Jonnalagadda Venkata Sathya Krishna, Sai Bhavadeesh Yarlagadda |
| 65. | Student participated in Facebook Hackercup 2021 and Qualified for Round-2 | Seshathri S |
| 66. | A Team of students got Global rank: 531 and Country rank (India): 75 in the Google Hashcode 2022 Global Coding Competition. | Mr. Dheenadhayalan R, Mr. Kishore prasad N and Mr. Seshathri S |
| 67. | Student participated in Ode 2 Code 2021 and Qualified for Round 3 | Seshathri S |
| 68. | Secured Global Rank of 761 in Codechef May Long Challenge 2021 | Divyansh Panwar |
| 69. | Secured 2nd Rank in the event "Guess the Output" organized by GeeksForGeeks IIIT Kottayam | Divyansh Panwar |
| 70. | Student participated in Amazon ML Challenge 2021 and secured AIR 16th team rank out of 3000+ teams | Nikhil Kumar Ghanghor |
| 71. | Student participated in Codathon'21, a yearly inter NIT coding competition and got AIR of 126th | Shashank Singh |
| 72. | Student participated in Zeta Hack 3.0 and emerged as one of the Top 50 teams in 6000+ teams in Zeta Hacks. | Jonnalagadda Venkata Sathya Krishna, Sai Bhavadeesh Yarlagadda, Macharla Sindhuja |
| 73. | Student won 2nd place in DHRUVA- Reverse Coding | Vishwesh Anantha Krishnan |
| 74. | Student participated in DEFINE'21 - STRANGER TWINS for coding organized by RSET and got 3rd place | Vishwesh Anantha Krishnan |
| 75. | Student got 1st place in Digital Kala Utsav, a digital art-making competition for Independence Day | Vishwesh Anantha Krishnan |
| 76. | Student participated DHRUVA OF (CURRENTS 21) conducted by NIT Trichy shortlisted for the final round 21 out of 162 teams. | Rajeev Vesalapu |
| 77. | Student participated Hackoona Matata event conducted by IIIT Kottayam and won Best Fresh Project. | Kotte Saandeeep |
| 78. | Student got shortlisted at Women Engineer (WE) Program TalentSprint and supported by Google awarded with Internship Opportunity | Pogu Kusuma Sree |
| 79. | Student participated at Google Hashcode in February 2022 and got 4906 global ranking. | Kratik Bohra |
| 80. | Students participated and successfully completed Hack N Code 5.0 organized by Mukesh Patel School of Tech Mgmt and Engg in joint with IET | Kratik Bohra, Rajvardhan Das |
| 81. | A student secured AIR 115 in the Inter-NIT Competition – Codathon 2022 organized by NIT Bhopal in Feb 2022 | Divyansh Panwar |
| 82. | A student secured AIR 80 in the Inter-NIT Competition – Codathon 2022 organized by NIT Bhopal in Feb 2022 | Akarsh Pandey |

| SN | Achievements in Global and National Coding / Programming Competitions, Hackathons etc. | Student Participants |
|-----|--|---|
| 83. | Student participated at Google Hashcode in February 2022 and got 4789 global ranking. | Shashank Kumar Srivastava |
| 84. | A student finished in Top 2%le in MLH Local Hack Day organized by MLH in Jan 2022 | Ganesh Nathan |
| 85. | A student secured AIR 79 in GOCO 2022 coding event organized by CodeChef in Feb 2022 | Anurag Kumar |
| 86. | Student obtained Global Rank of 6829 in May Long One 2022 coding event organized by CodeChef in May 2022 | Anurag Kumar |
| 87. | A student got selected for Microsoft Engage Mentorship Program among 400 out of 50K applicants. | J V Sathya Krishna |
| 88. | Student got shortlisted at TalentSprint WE Program, Supported by Google awarded with Rs. 1 Lakh and training Opportunity | Arya Suneesh |
| 89. | Student got in the top 1% of all hackers of MLH Local Hack Day : Build 2022 organized by MLH in Jan 2022 | Arya Suneesh |
| 90. | Student got shortlisted at TalentSprint WE Program, Supported by Google Among the top 250 women selected for a two year mentorship program with a scholarship of Rs 1 Lakh. | Samhitha Bharthulwar |
| 91. | A student secured 2nd place in COD conducted during ADAVYA by Trendles Club, IIITK in Feb 2022 | Rajvardhan Das |
| 92. | Student secured 594th rank globally out of 10k+ participants in Google Code Jam Competition Round 1 B and will be advancing to Round 2 | Seshathri S |
| 93. | AutoJoomer app for Android in the contest organized by IIITK | Aditya Menon, Manas Gupta, Om Ghumare and more. |
| 94. | Won the JAMSHACK23, GameDev Track NIT-A Hackathon organized by NIT Agartala, Jun 2023 | A. Bala Murali |
| 95. | Secured 3rd Position in PARICHARA x GLITCHED , PICT GameJam event by Pune Institute of Computer Technology (PICT) by May 2023 | A. Bala Murali |
| 96. | A student received Runner up in CSS Battle in the event Hack The Chain Hackathon organized by IIIT Kota in March 2022. | Gunj Joshi |
| 97. | A student from IIITK selected as one of the 150 students internationally and among 10 selected from India for the NYU Abu Dhabi International Hackathon for Social Good 2023 organized by New York University Abu Dhabi in April-May 2023 at Abu Dhabi, UAE with 100% scholarship by NYUAD | Samhitha Bharthulwar |
| 98. | A student got All India Rank 12 in CodeKaze 2023 round-2, National-level coding event organized by Codingninjas. | Gunj Joshi |

Table 02: Achievements in National & Global Coding Competitions, Hackathons, and Coding Ranks

IV. Nurturing Innovation Culture through Technical Events on Advanced & Recent Technologies

The IIIT Kottayam has started various Technical Forums and Clubs to introduce advance and recent technologies which could not be covered by curriculum.

| SN | Students Technical Chapters / Forums / Clubs | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|-------------------|---|
| 1. | IEEE Student Branch (SB) | Dr. Kala S | <ol style="list-style-type: none"> 1. First IEEE SB Newsletter was published on 18th May 2021, marking the first anniversary of IEEE Student Branch approved by IEEE USA. 2. Technical events conducted: <ul style="list-style-type: none"> • Techsemble – Inquizzitive (National Level Quiz competition) – 8th August 2020 • Techsemble – GNIDOC (National level Reverse Coding Competition) – 11th August 2020 • Content Writing competition (Within SB) – 10th Jan 2021 • Poster designing competition. (Within SB) – 10th Jan 2021 • International Science Day Celebration (CIENCIA)- Inter College Competition across India, for one week (February 23-27, 2021) <ul style="list-style-type: none"> ○ <i>Ciencia – Quiz</i> ○ <i>Ciencia - Talk Tech</i> ○ <i>Ciencia – Debate</i> ○ <i>Ciencia - Idea Pitching</i> ○ <i>Ciencia - Article Writing</i> • WebHacks - 29th May 2021 • Guess the output - 13th June 2021 • Hands-On Workshop on Introduction to Matlab, Resource person: Dr. Ashita Gupta, Mathworks Inc, India, on 14.09.2021 • Logo Design Competition, 20th July 2021 • Quiz Competition, ENIGMA, 20th August 2021 3. Achievements: <ul style="list-style-type: none"> • IEEE Student Members from IIIT Kottayam are in the Core Team of IEEE Kerala Section. (Core Technical Members, Webmaster) • Student members of IIIT Kottayam serve as resource persons for various Seminars/Webinars in Student Branches of other institutes. • Student members got the <i>Best Mentor Award</i> for the topic 'Machine Learning'. • Student members participated in various events conducted by Student Branches of other institutes and bagged prizes. • Student members in the organizing team of IEEE-LINK (Local Integrated Network of Kerala IEEE Students) • IEEE Student Branch – IIIT Kottayam received seed money of Rs. 10,350/- for its activities for the year 2021, from IEEE USA 4. EXECOM meeting conducted every month, within SB 5. EXECOM members attend the <i>Chair's meet, Branch Counselor's meet, and general body meetings</i> conducted by Kerala Section and Kochi Hub. 6. All the events conducted by IEEE SB are regularly updated in IEEE-USA via the portal. 7. Webinars <ul style="list-style-type: none"> • IoT for Agriculture- Dr. Javed G S, Intel Bangalore & Kings Consultant Education, Bengaluru • Advanced Vehicular Technology for Intelligent Transportation Systems - Dr. Shrikanth Tangade, MDC Chair & SAC Mentor, |

| SN | Students Technical Chapters / Forums / Clubs | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|------------------------|--|
| | | | <p>IEEE Bangalore Section, SAC Ambassador, IEEE Asia-Pacific R10</p> <ul style="list-style-type: none"> • CV building for jobs and internships, Speaker: Mr. Aravind Warriar, 11.06.2021 (Jointly with Placement Cell) • Cloud computing to deep dive students over the trending areas for research in cloud computing, Speaker: Mr. Mohan Kumar, Practice head at Wipro (Jointly with placement cell), 10.10.2021 • My story session – Life of an entrepreneur, Mr. Joy Sebastian, CEO Techgenist, 13th Nov 2021 (Jointly with IIC) • Webinar on Adaptive Signal Processing for Non-Stationary Signal Analysis and Classification”, on August 6, 2022 • Webinar on “History of Microelectronics and Future Scope”, on August 19, 2022 |
| 2. | ACM Chapter | Dr. Divya Sindhu Lekha | <ol style="list-style-type: none"> 1. 24th October 2018 - Workshop on "Design Thinking" 2. 08th March 2019 - ACM Women in Computing 3. Membership Drive <p>Webinars:</p> <ol style="list-style-type: none"> 1. CSE Career Guidance and Roadmap - IIIT Kottayam Alumni and 2018 Batch - 24 July 2021 2. ECE Career Guidance - Dr. Dhanesh G Kurup, Amrita Vishwa Vidhyapeetham - 23 October 2021 3. Introduction to Block Chain - Abhilash P, Tata Consultancy Services - 9 November 2021 4. Blockchain in Supply Chain - Murli Nahar, Tata Consultancy Services - 9 November 2021 5. Fundamentals of Ethereum - Abhilash P, Tata Consultancy Services - 11 November 2021 6. Blockchain In Various Industries - Sonal Gupta, Tata Consultancy Services - 11 November 2021 7. Ethereum Tools and Frameworks - Abhilash P, Tata Consultancy Services - 12 November 2021 8. Blockchain Consortia Networks - Anantharaman Iyer, Tata Consultancy Services - 12 November 2021 9. Cyber Security [Digital Forensics: Practitioners Perspective] - Nabeel Koya A, Cyber Security Group, CDAC - 12 November 2021 10. Cyber Security [Better Foundations For Secure Software Using Trusted Hardware And Verification] - Dr. Shweta Shinde, ETH Zurich - 13 November 2021 11. Cyber Security [Getting To Know Your Enemy And Yourself From Cyber Security Perspective] - Dr. Dittin Andrews, CDAC Thiruvananthapuram - 14 November 2021 12. “Introduction to Data Visualization with Matplotlib” Bootcamp along with DPhi – February 2022 13. Fintech Webinar series – 11 July – 13 July 2022 <ul style="list-style-type: none"> ○ Fintech In Various Business Functions (Applications beyond banking) ○ Fintech Trends And Insights. 14. “3D Graphics” seminar by Abhishek Rhishikesan – CEO, aiRender Technology Pvt Ltd – 4 November 2022 15. “Introduction to Transportation Network Science” – five-day online workshop by researchers in Transportation network Science from |

| SN | Students Technical Chapters / Forums / Clubs | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|---|--------------------------------------|--|
| | | | IISC Bangalore, along with Network Science research group, IIIT Kottayam. |
| 3. | Webinars jointly organized by IEEE SB and ACM | Dr. Kala S and Dr Divya Sindhu Lekha | <ol style="list-style-type: none"> 1. Through and beyond Covid-19: Integrating social responsiveness and technology- Mr. Rejin Narayanan (Ingen Robotics) and Mr.Jim Seelan (TCS) 2. Industry 4.0 for Discrete Manufacturing- Thadeus Devasagayam, Consultant - Digital Manufacturing 3. Application Security & OWASP Top 10-Ms. Celine George, Cyber Security Manager, Cognizant 4. 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 5. Mulsemmedia in 360 VR- Dr. George Ghenia, Professor, Brunel University London, UK. 6. How to become a self-taught programmer- Prasanth Lalapeta, Co-Founder and UI Specialist at Fidisys 7. PYNQ- Python Productivity on ZYNQ- Hemanth Kumar, Application Engineer CoreEL Bengaluru 8. How to formulate a high Impact publication - Prof. (Dr.) Sabu Thomas, Vice Chancellor, MG University, Kottayam, Kerala 9. AI - The Cyber Defence- Dr. Rizwan Ahmed, CTO, DILAPLEX 10. Cryptocurrencies Blockchain- Dr. Shashidhara R, SEAS, Bennett University 11. Deep Learning, Dr. Sahana Prabhu, Data Scientist, Robert Bosch 12. Simulation of Smart Home using Cisco Packet Tracer- Dr. Vijay Kumar Bohot, SEAS, Bennett University 13. IT Industry Expectation from Engineering Students, - Dr. Rekha Mathews, HR, Nissan Global 14. Scientific Writing Using LaTeX: A Hands-on- Dr. Praveen Pawar, Assistant Professor, IIIT Bhopal 15. Placement Tips and Tricks- Aravind Warriar, HR Director at Rapid Value 16. Engineering Roadmap & Introduction to CPP- Mr. Mohan Roy, Mr. Devanshu Monga, GeeksforGeeks Mentor, GeeksforGeeks Campus Manager 17. Industry Expectations from Engineering Students- Mr. Robin Tommy, TCS Rapid Labs Head 18. CV Building for Jobs and Internships- Aravind Warriar, HR Director at Rapid Value 19. Cloud Computing - Mohan Kumar, Wipro Ltd - 19 October 2021 20. Business Analytics - Mohan Kumar, Wipro Ltd - 26 October 2021 |
| 4. | Technical Club IIITK | Dr. P. Victor Paul | <p>2021-2022</p> <ol style="list-style-type: none"> 1. Online session on “Ask me anything session” conducted by Prasanna and Hrishabh (Mentors of Technical club). Regarding the Q&A for technical doubts and difficulties that are faced by anyone ranging from juniors to peers. 2. Technical session “Introduction to Pentesting” conducted by Abhijeet & Sumanth 3. An open Q&A session on “Ask me anything about GATE” conducted by Siddharth Maurya (AIR 42) |

| SN | Students Technical Chapters / Forums / Clubs | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|-------------------|---|
| | | | <p>4. Technical and eye-opener session on “How I cracked media.net?” by Mr. Prabal Kalia, Final Year student of IIIT Kottayam</p> <p>5. Organized Dhruva’21 - the annual tech fest of IIIT Kottayam with over 1300 registrations. Many are from Foreign Universities (School of UW, Washington, University of Mackenzie, Sao Paulo), IITs (Bhubaneswar, Madras, Guwahati, BHUBANESWAR, Kanpur, DELHI, Mandi), NITs, Every IIIT (Triple-I T) and other Institutions all over India. The total prize money of the Tech Fest is 80K Indian rupees.</p> <p>2022 – 2023</p> <p>6. Technical Session “Introduction to Coder’s Club and Competitive Programming” by Cyril Kunjumon.</p> <p>7. Organized webinars on the topics</p> <ul style="list-style-type: none"> o “Non-Coding Jobs in the Tech Industry” by the student Karthik Hedge (2020 batch), o “Introduction to Web Development” by Shashank Shrivastava (2020 Batch) o "Introductory Session to Smart India Hackathon SIH 2022" by Vishal Kanakamamadi (2017 Batch, Winner SIH 2020), o "Introduction to GSOC" by Vishal Lokare, o "Introduction to Game Development" by Tejashwin, o "UI UX Designing Workshop" by Prajjwal Jogdand, o "ML Kaggle Introduction" by Aditya Menon <p>8. Organized 6-week open-source product development event inaugurated on 16-2-2022. Students are allowed to develop product from 22-2-2022 to 07-04-2022.</p> <p>9. Organized webinars on the topics</p> <ul style="list-style-type: none"> o “Introduction to Quantum Computing” by student Niranjana Nagumalli (2021 Batch), o “Let’s Learn about Modulo” by Nishith Baravkar (2020 Batch), o “NLP Transforms” by Aditya Menon (2020 Batch), o “An Intro to Creating Full Stack Application” by Shashank Kumar Srivastava (2020 Batch), o “Live Coding Session on Deep Learning” by Aditya Menon (2020 Batch). <p>10. Conducted Talk Sessions for Internship with Aryan Yadav (2019 Batch), Nishith Baravkar and Harsh Mittal (2020 Batch).</p> <p>11. Organized 48-Hour Open Ended Beginner Friendly Intra College Hackathon “Hacktivity”.</p> <p>12. Conducted an Icebreaker Session for Batch 2022, in which we elaborated on the many pathways and possibilities accessible to them as a coder over the next four years and beyond.</p> <p>13. Organized session on “Introduction to Back-end API Development using FastAPI” by Shashank Kumar Srivastava (Batch 2020) on 11/02/2023 at 2:00 PM.</p> |

| SN | Students Technical Chapters / Forums / Clubs | Faculty In-charge | List of Activities Carried Out Under Each Student's Chapters |
|----|--|------------------------|---|
| | | | 14. Conducted Introductory Session for the GameDev Club by Sai Tejashwin and Aryan Kashyap onn Feb 12 from 2:00 - 2:30 PM 15. Managed Official website and App for Apoorv'23 annual techno-cultural event of IIITK |
| 5. | Cyber Security Club | Dr. Lavanya Settipalli | Inaugurated on 13 th Jan 2023 |

Table 03: Activities of the Student's Technical Chapters / Forums / Clubs etc.

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

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

| SN | Name of Student | Number of projects done | Title of the Projects, which are not part of the curriculum | Name of the Supervisor(s) |
|--------------------------------------|-------------------|-------------------------|--|---|
| List of Projects (2017 Batch) | | | | |
| 1. | Ashish Gusain | 2 | 1. Calendar project, 2. Net-banking website | Dr. Chitra M T, Dr. Bibal Benifa |
| 2. | Vibhor Vij | 3 | 1. Simple MP3 player on Java, 2. Basic functionalities of a compiler, 3. Hand gesture recognition using OpenCV | Dr. Chitra, Dr. Renjith P., Dr. Bibal Benifa |
| 3. | Shubham Mishra | 1 | Music app using react native | Dr J.V Bibal Benifa |
| 4. | Arvind Rajpurohit | 2 | Artilizer, Sentiment Analyzer | Dr Benifa |
| 5. | Jaineel Dharia | 3 | 1. Music app using react native and back end using Django. 2. PHP MYSQL Web site with login system. 3. Rock and scissors game using web development. | Dr. Bibal Benifa |
| 6. | Rahul Kumar Singh | 2 | 1. Social networking website, 2. machine learning projects | Dr. Benifa, Dr. Jaykrushna Sahoo |
| 7. | Neeraj S | 5 | 1. MP3 Player (JAVA) 2. Priority App (JAVA) 3. Image Captioning (Python) 4. Genetic Algorithms (Python) 5. Head Gaze Detection (Python) | Dr. Chitra, Dr. Bibal Benifa, Dr. Jayakrishna Sahoo, Dr. Anoop, Dr. Bibal Benifa |
| 8. | Deepesh Sharma | 2 | 1. Custom dataset object detection, 2. Sentiment analysis of code-mixed multilingual language | None |
| 9. | Rishav Jaiswal | 8 | 1. Artificial Dataset Creation, 2. Neural Network Visualizer, | Dr. Chitra MT, Dr. J. V. Bibal Benifa, Dr. Manjith |

| SN | Name of Student | Number of projects done | Title of the Projects, which are not part of the curriculum | Name of the Supervisor(s) |
|--------------------------------------|---------------------------|-------------------------|--|---|
| | | | 3. Pose Detection, 4. Chatbot, 5. Railway Management System, 6. Class Attendance System, 7. Cryptography software with GUI, 8. Facebook Data Analysis using Hadoop and Hive | B.C., Dr. J. V. Bibal Benifa |
| 10. | Vedant Sandeep Joshi | 10 | 1. Quantum-Convolutional Layers 2. Facial-Expression-Detection Eigen Faces 3. Hand Detection T-Flow lite 4. Image-Annotation 5. Seafood Application 6. Dance Form Classifier 7. Internet of ledgers 8. IoT Dashboard 9. Arduino based flight controller 10. Blind Man Stick | None |
| 11. | Tumun shaily | 7 | 1. Home automation, 2. Drone 3. YouTube downloader 4. Voice enabled speaker 5. Pixel automation 6. screen recorder 7. facial recognition. | Dr. Ebin, Dr. Benifa, Dr. Kala S |
| 12. | Pattan Salimkhan | 2 | 1. Voice Recognition System-Developed a system which recognize speech of speaker and can be used for searches and automated WhatsApp. 2. IOT based gas recognition system -IOT system for detecting gas and make alarms to ring. | Self-Project Dr. V. Panchami |
| 13. | Sameer Ahmed S J | 1 | Enterprise Vulnerability Management-Penetration testing, Vulnerability analysis and Reporting of various vulnerabilities in various applications was performed. | Industry Project-Shakti Ray - Tata Consultancy Services |
| 14. | Sandeep Vangapandu | 1 | License plate detection with Python, OpenCV, and pytesseract -Detecting the vehicle number plate from an image and converting into text | Internship- Bosch |
| List of Projects (2018 Batch) | | | | |
| 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 | |
| 17. | Avs Adityavardhan | 4 | 1. Hotel Management System, 2. Event Registration System, 3. Hospital Management System, 4. Supervised ML Models | |
| 18. | J V S krishna | 3 | 1. Dance studio website | |

| SN | Name of Student | Number of projects done | Title of the Projects, which are not part of the curriculum | Name of the Supervisor(s) |
|--------------------------------------|-------------------------------------|-------------------------|---|---|
| | | | 2. Student registration 3. Machine learning | |
| 19. | Anjali | 1 | Movie recommender System | Self-Project |
| 20. | Jonnalagadda Venkata Sathya Krishna | 4 | 1. Dance studio registration Application -It a platform for who are interested to learn dance in online. 2. Online voting system -Online voting system as part of the college election. 3. Coupon generator for Shubamastu shopping mall 4. Covid cases dashboard- It helps to know how cases are increasing day by day and how many people are getting recovered from covid | Self-Project Dr. Divya Sindhu Lekha Team project Self-Project |
| 21. | Macharla Sindhuja | 3 | 1. Online Voting System- It is a Web application developed to meet the college club elections. The main objective is to reduce manual work and making easier for students when they are inaccessible. 2. Chatbot- Developed Chatbot in Google's Dialogflow platform. 3. Fighting game (javascript) | Dr. Divya Sindhu Lekha Self-Project Self-Project |
| 22. | Nikhil Kumar Ghanghor | | Offensive Language Identification in Dravidian Languages Troll Memes Classification-Used various unimodal models to classify the memes into troll/not troll which were Resnet, Inception, BERT, XL, Roberta, Albert. Hope Speech Detection in Dravidian Languages | Self-Project Self-Project Self-Project |
| 23. | Sai Kumar Avu | 1 | Healthy Bharath- It's an e-commerce website | Self-Project |
| List of Projects (2019 Batch) | | | | |
| 24. | Abhijith S Babu | 1 | Brain Steaks | Dr. Victor Paul |
| 25. | Vishnu Narayanan A | 1 | Quiz platform | Dr. Victor Paul |
| 26. | Cyril Kunjumon | 2 | 1. Food Delivery App 2. Image Editor and Facial Recognition GUI using Python | Dr. Victor Paul |
| 27. | Som Sagar | 1 | Image editor with real-time facial recognition GUI using python | Dr. Victor Paul |
| 28. | Saikowsik Vellaturi | 1 | Image editor with real-time facial recognition GUI | Dr. Victor Paul |
| 29. | Hrishabh Joshi | 3 | 1. PenIt-Personal Blogging WebApp 2. Weather Todo App, 3. Stonks (group project) | 2 projects are done as self-skills Enhancement. Stonks project is under the guidance of Dr. Victor Paul (under progress). |
| 30. | Ringriangsuiyang | 2 | 1. Anime website front end using HTML, CSS, JAVA SCRIPT 2. Image editor with real-time facial recognition GUI using Python | Dr. Victor Paul |

| SN | Name of Student | Number of projects done | Title of the Projects, which are not part of the curriculum | Name of the Supervisor(s) |
|--------------------------------------|--|-------------------------|--|--|
| 31. | Syed Faiz Hasan | 3 | <ol style="list-style-type: none"> Heart Disease Predictor Website PenIt (Blog Website), Enlace (Cultural Fest Website) Alchemy- Alchemy is full-stack MERN project which allows users to add, delete, and like posts. It is provided with an authentication system along with Google Sign In. DevIn- DevIn provides all the useful resources required for any Computer Science Development Field along with the guidance of other fellow developers. | Self-supervised Under Cultural Committee |
| 32. | Ananthkrishnan N B | 1 | Quiz app with basic Django & JS | Self-Project |
| 33. | Venati Prudhvi Reddy, Sri Rama Varshith P, Mahesh Vanam, Sk. L. L. Bahadur, Bhargawa | 1 | Sudoku Auto-Solver | Dr. Victor Paul |
| 34. | Hrishabh Joshi | 5 | Enlace frontend webpage, Movie_Buffer, others compiled in a separate submission | Trendles club, self-enhancement, others |
| 35. | Akhil Sai.B | 1 | Voice Assistant | Dr. Victor Paul |
| 36. | Nimit Gaur | 2 | 1. Python 2D RPG game- It's a game developed in Python using the pygame library. | Self-Project |
| | | | 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 has to protect the computer from the attack of a virus by reaching the core region before the virus. Player can deploy barriers to slow down Viruses by typing the given code. | Self-Project |
| 37. | Bhanu Krishna Prasad.V | 2 | 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. | Team project |
| | | | 2. Exploratory data analysis of the income of adults | Team project |
| 38. | Prasanna Devadiga | 3 | <ol style="list-style-type: none"> Meme generation using GPT-3 Neural machine translation from English to Hindi using encoder-decoder networks with attention Chess Engine | Self-Project |
| 39. | Nikhil Menon | 2 | Tic-Tac-Toe Game | Dr. Victor Paul |
| | | | Snake-Game- A simple snake game made on Canvas on the Web. | Self -Project |
| List of Projects (2020 Batch) | | | | |

| SN | Name of Student | Number of projects done | Title of the Projects, which are not part of the curriculum | Name of the Supervisor(s) |
|--------------------------------------|--------------------------|-------------------------|---|---|
| 40. | Raunak Kumar Singh | 1 | DSA-SHEET | Self-Project |
| 41. | Nikhil Menon | 3 | <ul style="list-style-type: none"> Manthan-Radicalyzer, Valentina, Super-BOT | Self-Project |
| 42. | Jasmin Bheda | 1 | DSA Sheet | Self-Project |
| 43. | Govind Nair V | 5 | <ul style="list-style-type: none"> Digital Twin for a Smart Residential Community Infant Cry Analysis and Classification System UrbanSound Classifier using CNN Custom object detection model using EfficientDet_Lite0 OnlineBazaar – Django-based E-commerce website | Dr. Nilotpall Chakraborty Dr. Ragesh G K Dr. Silambarasan |
| List of Projects (2021 Batch) | | | | |
| 44. | Siddharth Gupta | 3 | Cipher, ToDo, Video-Vault | Self-Project |
| List of Projects (2022 Batch) | | | | |
| 45. | Ch. Vishnu Sathwik Reddy | 2 | Quiz website using vue.js, note-taking website using vue.js | Self-Project |
| 46. | Vedanta S P | 1 | Milan-An App To Connect NGO's | Self-Project |
| 47. | Mohamed Jaasir | 1 | My Local | |

Table 04: Beyond Syllabus - Students' Projects

VI. Nurturing Innovation Culture through Research Activities

We have 10 Research Groups, which consist of

- Faculty members of IIIT Kottayam
- Ph.D. scholars
- MTech students
- BTech students
- Alumni of IIIT Kottayam
- Interns
- Industry experts
- Experts from R&D labs
- Renowned faculty members of premier institutes in India
- Foreign Renowned faculty members
- Foreign industry experts
- Foreign Research Scholars
- Foreign R&D Experts and so on.

They are developing the vibrant research and innovation culture of IIIT Kottayam. We are developing IIIT Kottayam around Research Groups. These research groups will help IIIT

Kottayam to build a better Brand Name through an Active Industry interface as well as a vibrant International Interface to achieve the following goals:

- To enhance the Research & Project Funding for IIIT Kottayam & to establish Research Lab for the respective Group
- To enhance the Consultancy work for faculty members
- To enhance Campus Placement



Research Group 01: Data Science Research Group <http://dsrg.iiitkottayam.ac.in/>



Research Group 02: Bigdata & ML Research Group
<http://bigml.iiitkottayam.ac.in/home.php#people>



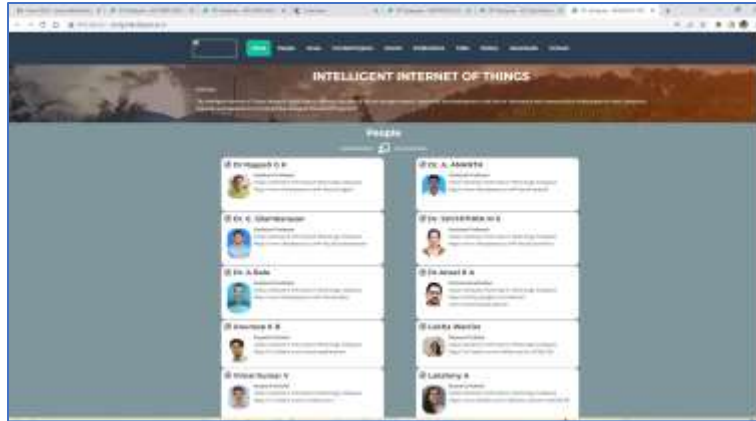
Research Group 03: Cyber Security Research Group <http://cyberlabs.iiitkottayam.ac.in/>



Research Group 04: Network Science Research Group <http://netsci.iiitkottayam.ac.in/>



Research Group 05: IoT Cloud Research Group <http://iotcloud.iiitkottayam.ac.in/>



Research Group 06: Intelligent IoT Research Group <http://iiotrg.iiitkottayam.ac.in/>



Research Group 07: Smart Wireless Inter-Networking Research Group
<http://swing.iiitkottayam.ac.in/>



Research Group 08: I²CS-Intelligent Integrated Circuits and Systems Research Group
<http://i2cs.iiitkottayam.ac.in/index.php#people>



Research Group 09: Computational Engineering and Data Modelling Research Group
<http://cedm.iiitkottayam.ac.in/home.php>



Research Group 10: Data Analytics and Business Decisions
<https://dabd-iiitk.vercel.app/>



Research Group 11: Bio-Medical Informatics and Genomics Research Group

In November 2022, the member status of each research group is as follows:

| S N | Name of Research Group | Website | Internal Group Members: | | External Group Members from India & Foreign Countries: Faculty / Industry Experts, R&D Personals / Scholars | Total |
|--------|---|---|---|--|---|-------|
| | | | Research Group Faculty Members | Post Doc Scholars / Ph.D. Scholars / M.Tech. Scholars Working Professional / BTech / Alumni / Interns | | |
| 1. | Cyber Security Research Group | http://cyberlabs.iiitkottayam.ac.in/ | Dr. Panchami , Dr. Manjith, Dr. Arun, Dr. Ragesh G K, Dr. Balu, Dr. Silambarasan, Dr. Bhanu Chander, Dr. Lavanya, Dr. Amit Kumar Roy, Dr. Lincy | 24 | | 34 |
| 2. | Network Science Research Group | http://netsci.iiitkottayam.ac.in/ | Dr. Divya Sindhu Lekha , Dr. Dhanya M V, Dr. Ebin Deni Raj, Dr. Christina Joseph, Dr. Keshab Nath, Dr. Nandini Warriar | 7 | 5 | 18 |
| 3. | Data Science Research Group | http://dsrg.iiitkottayam.ac.in/ | Dr. Ebin Deni Raj , Dr. Bibal Benifa, Dr. Bakkyaraj T, Dr. J. Sahoo, Dr. P. Victor Paul, Dr. Divya, Dr. Christina Joseph, Dr. Lincy, Dr. John Paul Martin | 67 | 13 | 89 |
| 4. | IoT Cloud Research Group | http://iotcloud.iiitkottayam.ac.in/ | Dr. Shajulin , Dr. Gautam Mali, Dr. Vengadeswaran | 40 | 28 | 71 |
| 5. | Intelligent IoT Research Group | http://iiotrg.iiitkottayam.ac.in/ | Dr. Ragesh G K , Dr. A. Ananth, Dr. E. Silambarasan, Dr. Suchithra M S, Dr. A Balu | 5 | 16 | 26 |
| 6. | Smart Wireless Inter- Networking Group | http://swing.iiitkottayam.ac.in/ | Dr. Koppala , Dr. Bhanu Chander, Dr. Selvi, Dr. Santhos Kumar | 7 | 6 | 17 |
| 7. | Computational Engineering and Data Modelling Research Group | http://cedm.iiitkottayam.ac.in/home.php | Dr. J. Sahoo , Dr. Mirza Ghalib, Dr. Nandini Warriar, Dr. Manu, Dr. Selvi, Dr. Cinu, Dr. Lidiya, Dr. Sivaiah | 6 | 3 | 17 |
| 8. | Bigdata & ML Research Group | http://bigml.iiitkottayam.ac.in/home.php | Dr. Bibal Benifa , Dr. Bakkyaraj, Dr. J. Sahoo, Dr. P. Victor Paul, Dr. Keshab Nath, Dr. Suchitra, Dr. Vengadeshwaran | 38 | 16 | 61 |

| | | | | | | |
|-----|---|---|--|-----|----|------------|
| 9. | I ² CS- Intelligent Integrated Circuits and Systems Research Group | http://i2cs.iiitkottayam.ac.in/index.php#people | Dr. Kala S, Dr. Santhos, Dr. Ananth | 20 | | 23 |
| 10. | Data Analytics and Business Decisions | https://dabd-iiitk.vercel.app/ | | | | |
| | | | Total 60 | 214 | 87 | 361 |
| | | | Actual 40 considering multiple memberships. | 214 | 87 | 341 |

Table 05: Research Groups of IIIT Kottayam

Activities of all 9 Research Groups in the last two months:

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|---|---|---------------|--|--|
| 1. | Intelligent IoT Research Group http://iotrg.iiitkottayam.ac.in/ | Dr. Ragesh GK, Dr. A. Ananth, Dr. E. Silambarasan, Dr. Suchithra M S, Dr. A Balu | Nov-Dec 2022 | Sanctioned International Funding Proposals | Bagged the prestigious funding grant from EPSRC, United Kingdom under the UKI- FNI Project (UK-INDIA Future Network Initiative) scheme; UoG as the project Lead; Sanctioned Amount: Rs. 39 Lakhs |
| | | | | Funding Proposals Submitted | 1. DAAD proposal submitted along with the University of Offenber, Germany (Rs. 31 Lakhs) (December 2022) 2. Two additional projects were submitted to the British Council in collaboration with the University of Glasgow, United Kingdom (Rs. 36 lakhs and Rs. 15 lakhs) (October, and November 2022) 3. SATHI proposal Submitted to DST, Govt. of India (Rs. 45.23 lakhs) (OCTOBER 2022) |
| | | | | Competitions / Hackathons | Won Second Prize - Silver award and a Cash prize of Rs. 20K for the student Project titled "IoT based E-nose for a healthy life" KSCSTE-TECHFEST-2022 (Mentor: Dr. Ragesh) (October 2022) |
| | | | | Consultancy Work | One Consultancy Project titled "Inflammation Therapy Device" is almost Completed, for Vaidyarathnam Ayurvedic Research Institute. (November 2022) |
| | | | | Research Papers Submitted / Published | 1. " Node Localization Based on Unsupervised Approach and Secure Routing for Healthcare Management in Delay Tolerant Network" submitted to Springer (October, 2022) 2. Conference paper on Federated learning was accepted and presented at IEEE Indicon -2022 International Conference during November 2022. |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|--|---|------------------|--|---|
| | | | | | 3. Two research papers on Federated learning and IoT for cyberphysical systems were submitted to CCGRID 2023, International conference conducted by IISC Bangalore. (December 2022) |
| | | | | Training Conducted @Gyaan Innovation Lab | 4 day hands-on training is given to MSc Electronics Students (11 members) by Anuroop K B- Topic: Analog/ Digital Electronic Design (December 2022) |
| | | | | International Workshop Organized | Indo-Taiwan Online 2-day workshop on Intelligent IoT was organized during the last week of October 2022. |
| | | | | MOU | Visited Rubber Research Institute, Kottayam for possible collaborations on AI and IoT/Robotics. (December 2022) |
| | | | Jan-Feb 2023 | | |
| | | | March-April 2023 | | |
| 2. | Cyber Security Research Group http://cyberlabs.iiitkottayam.ac.in/ | Dr. Panchami V , Dr. Manjith, Dr. Arun Cyril, Dr. Ragesh G K, Dr. Balu, Dr. Silambarasan, Dr. Bhanu, Chander, Dr. Lavanya, Dr. Amit Kumar Roy, Dr. Lincy | Nov-Dec 2022 | Funding Proposals Submitted | 1. CISCO Research Grant, Project Title: A Privacy Preserving, Scalable Decentralized Application for Blockchain-Based Vaccination System using Zero Knowledge Protocol. Cost: \$12,073.86 2. Submitted a project proposal under MeitY Quantum Computing Application Lab. Proposal Name: "Study on impact of Quantum Algorithms on Classical Lightweight Cryptosystems for Internet of Things." Cost: INR 1200000/- |
| | | | | Expert Talks | 1. Dr. Panchami was the panel discussion speaker on the topic “Cyber Security: Opportunities in Academia” during IEEE Asia Pacific Region (R10) Young Professionals Career and Leadership Aid Program (CLAP) on 2nd October 2022. 2. Mahima Mary Mathews delivered an invited talk in Girls in Quantum Seminar, October 2022 - Talk on Quantum Technologies and Cyber Security: impacts, challenges & promises. 3. Mahima Mary Mathews delivered the plenary talk at TIST, Arakunnam, Ernakulam for the IT Association Activities: 2022-2033 Inaugural event on Quantum Technologies and Cyber Security Impacts and Solutions |
| | | | | Consultancy Work | Manorama Horizon: |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|---|---|----------------------|---------------------------------------|--|
| | | | | | <ul style="list-style-type: none"> Blockchain Technology and Cryptocurrency- Dr Panchami V Access Control and Data Security in Cloud – Dr E. Silambarasan Quantum Computing and Security –Ms Mahima Mary Mathews |
| | | | | Research Papers Submitted / Published | <ol style="list-style-type: none"> Vishnu Ajith, Mahima Mary Amthews and Panchami V,” Frequency Analysis on Caesar Cypher using Quantum State Vector Machine”, IEEE IATMSI-2022, organized by ABV- IIITM Gwalior, India. (December 2022) Jisha, Panchami V, “A Survey on Consensus Algorithms in Blockchain based on Post Quantum Cryptosystems” CINE 2022 The 5th International Conference on Computational Intelligence and Networks. (December 2022). Bhanu Chander, Chinju, Lekha, “Trust-based AI models with robustness and explainability”, ACM Computing Surveys (Submitted) Sheema M, Arun C. Jose, J. Sahoo, R. Maleikan, “PRIME: Novel Privacy-preservation Model with Pattern Mining and Genetic Algorithm” , IEEE Journal (Submitted) |
| | | | | Workshop Organized | Three days Workshop on "Advanced Cybersecurity and Cryptography: Possibilities and Challenges". Jointly organized by CyberLabs, IIIT Kottayam, and Department of CSE-Cyber Security, IIIT Kottayam in collaboration with Department of CSE, IIT Madras . Dates: 1-3, December 2022. |
| | | | | Competitions / Hackathons | The team from CyberLabs Kottayam got shortlisted for the final round of the Quantum Science and Technology Hackathon conducted by Qetci and the office of the principal scientific adviser to the govt of India. |
| | | | | MOU | Dr. Balu has initiated an MOU with National Forensic Science University. |
| | | | Jan-June 2023 | | 5 Days workshop “Advanced Cryptography and Digital Forensics” from June 5 to June 9 2023 |
| | | | | | |
| 3. | IoT Cloud Research Group http://iocloud.iiitkottayam.ac.in/ | Dr. Shajulin, Dr. Gautam Mali, Dr. Vengadeswaran | Nov-Dec 2022 | Events | <ol style="list-style-type: none"> 3-day offline workshop on IoT Data Analytics by Mr. Satyadeep Behera on 8-12 Nov 2022 A hands-on offline workshop on “Research techniques and career development using |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|---|---|---------------|---|---|
| | | | | | <p>IEEE Explore program” by Mr. Nanda Lal T. S. EBSCO Information Services New Delhi on 24 Nov 2022</p> <p>3. Schedule Event: Challenge13@IoTCloud in the month of March 2023</p> |
| | | | | Innovation | Three products were demonstrated by students |
| | | | | Funding Proposals | <p>1. 11 project proposals submitted by students of Rs. 15 Lakh each</p> <p>2. 3 Funding proposals submitted by faculty group members</p> <p>3. Funding proposal “Energy Efficient IoT Application” worth Rs. 20.65 Lakhs submitted by Dr. Shajulin</p> <p>4. One funding proposal has been submitted by Dr. Vengadeswaran S.</p> |
| | | | Jan-Feb 2023 | | |
| 4. | <p>Computational Engineering and Data Modelling Research Group</p> <p>http://cedm.iiitkottayam.ac.in/home.php</p> | <p>Dr. J. Sahoo, Dr. Mirza Ghalib, Dr. Nandini Warriar, Dr. Manu, Dr. Selvi, Dr. Cinu, Dr. Lidiya, Dr. Sivaiah, Dr. S. Joshi</p> | Nov-Dec 2022 | <p>Funding Proposals Submitted</p> <p>Research Papers Submitted / Published</p> | <p>1. Submitted a proposal on Computational Analysis of Kathakali Mudras to Kerala State Council for Science, Technology and Environment (KSCSTE), Rs. 18,00,800/-</p> <p>2. Submitted a proposal on Semantics of Kathakali Mudras to Indian Council for Social Science Research (ICSSR), Rs 4,5000/-</p> <p>1. Deep Pancholi and Selvi C. "Study of Cold-start Product Recommendations and its Solutions" in Seventh International Conference on Data Management, Analytics and Innovation -ICDMAI 2023(Accepted for publication).</p> <p>2. 2. Naga Sreeharsha Reddy Ambati, Sree Harrsha Singara, Syam Sukesh Konjeti, Selvi C., "Performance Enhancement of Machine Learning Algorithms on Heart Stroke Prediction Application using Sampling and Feature Selection Techniques" in International Conference on Augmented Intelligence and Sustainable Systems (ICAISS-2022)-IEEE. (Accepted for publication)</p> <p>3. Bhalaji Kharthik K S, Sikha O K, Selvi C titled "Crack Detection Using Transfer Learning and Deep Feature-Enabled ML model: A Comparative Study" submitted to Cluster Computing</p> <p>4. Nikhil Kumar, Chinju John, Jayakrushna Sahoo, “MFNet: A Facial Recognition Pipeline for Masked Faces Using FaceNet” accepted in Seventh International Conference on Computer Vision & Image Processing, 2022</p> |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|--|--|---------------|----------------------------------|--|
| | | | | | 5. Prudvi Deti, Jayakrushna Sahoo, Akarsh K Nair, “ A weight factor based secure invisible image watermarking using Discrete Cosine Transform” accepted in 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N–22) |
| | | | | International Workshop Organized | 1. Indo-Taiwan Online 2-day workshop on Intelligent IoT was organized during the last week of October 2022. 2. Dr. Manu: organized a workshop on Embedding and Transformers, for PG-PhD students of Govt Engineering College, Palakkad Kerala |
| | | | Jan-June 2023 | | Summit'23 @IIIT Kottayam was organized on June 10th , 2023 |
| 5. | Smart Wireless Inter-Networking Group http://swing.iiitkottayam.ac.in/ | Dr. Koppala, Dr. Bhanu Chander, Dr. Selvi, Dr. Santhos Kumar | Nov-Dec 2022 | Events Organized | An online workshop on world-leading industry relevant Embedded, IOT, Robotics Design, Simulation, and Rapid prototyping software proteus VSM |
| | | | | Funding Proposals | 1. Submitted a Proposal to MSME “Crop protection from wild animals using the Internet of Things” 2. Submitted a Proposal to MSME “Waterflow alert systems using Internet of Things |
| | | | | Publications | 1. Anandhu Mohan, Vidya Sagar Thalapala, Koppala Guravaiah, & M. V. Dhanyamol, "FMGMR: fuzzy median graph for network routing applications" Wireless Networks, November (2022), Springer. |
| | | | Jan-Feb 2023 | | |
| 6. | Data Science Research Group http://dsrg.iiitkottayam.ac.in/ | Dr. Ebin Deni Raj, Dr. Bibal Benifa, Dr. Bakkyaraj T, Dr. J. Sahoo, Dr. P. Victor Paul, Dr. Divya, Dr. Christina Joseph, Dr. Lincy, Dr. John Paul Martin | Nov-Dec 2022 | Sanctioned Funding Proposals | Dr. Victor Paul Received funds of Rs 24,02,960 from SERB for project titled “Artificial Intelligence based mobility model for alternative fuel vehicles to optimize the rate of emission using prevailing AFV fuel infrastructure in India” |
| | | | | Events | 1. One Credit course offered to UG students by Mr.Anmol Krishan Sachdeva(Hybrid Architect at Google) which was coordinated by Dr. John Paul Martin 2. Webinar Series on "Frontiers of Artificial Intelligence: From Automation to societal applications" organized by Dr. Christina a. Webinar #1 on "Towards Green AI: Tracking and curtailing the carbon footprint of AI Python Code", Shri Anmol Krishna Sachdev, Google |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|--------|----------------|--|---------------|---|---|
| | | | | | <p>b. Webinar #2 on "AI for Social Good-Case Studies and Reflections", Ms. Tanuja Ganu, Microsoft Research</p> <p>3. Webinar Series on "AI-Driven Big Data Analytics"</p> <p>a. Webinar #1 on "Big Data Quality to the performance of Machine Learning", Dr. Junhua Ding, University of North Texas</p> <p>b. Webinar #2 on "Algorithmic Government: Concepts and Research Trends", Dr. Rajan Gupta, Analyttica Datalab</p> <p>c. Webinar #3 on "Deep Learning for Medical Image Analysis", Dr. Mohammed Al-masni, Yonsei University, Seoul, South Korea</p> <p>d. Webinar #4 on "Large Scale Distributed Graph Processing: Recent developments and challenges", Dr. T. Ramalingeswara Rao, TCS Hyderabad</p> <p>4. Two days Workshop on "AI-Driven IT Automation - The Future of IT industry" organized by Dr. John Paul Martin and Dr. Christina Teresa Joseph.</p> |
| | | | | Expert Talks by group members | <p>1. Dr. Ebin Deni Raj delivered a talk at IIT Palakkad Technology Ihub foundation on business opportunities for prospective entrepreneurs in AI/ML</p> <p>2. Dr. Ebin Deni Raj was invited as a speaker for a Winter School on the theme 'Computational Research Methods for the Social Sciences' organized by the Indian Institute of Technology Jodhpur.</p> <p>3. Dr. Ebin Deni Raj delivered an invited talk on Machine Learning Design Patterns organized by IEEE Malabar Section.</p> |
| | | | | Competitions / Hackathons | Mr. Anandha Kailash (M.Tech AI and Data Science) winner of Blue Yonder Innovation Hackathon |
| | | | | Consultancy Work | <p>Manorama Horizon</p> <ul style="list-style-type: none"> Introduction to Data Science Programming using R – Dr. Ebin Deni Raj Data Science with complex networks – Ms. Jisha Mariam John. |
| | | | | Research Papers Submitted/Accepted for publication in | <p>1. Title - Post-hoc Interpretability: Review on New Frontiers of Interpretable AI” accepted in Distributed Computing and Machine Learning (ICADCML- 2023), Proceedings</p> <p>2. “Tabular Data Interpretation on Covid-19 Through Explainable Machine Learning” Submitted to ICISC 2023</p> |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|---|--|------------------|--|--|
| | | | | conference/journal | <ol style="list-style-type: none"> Paper title- Improved Restoration of Underwater Images with Color Correction Transform and Dark Channel Prior Paper Title- Explainability in NLP A Comprehensive Research Study to improve fairness and transparency Paper Title- Investigation on Visual Explanation for Better Fairness and Transparency using Various Neural Network Architectures Paper Title- Table Extraction from Single Page Templatic Document using Faster R-CNN Paper Title- Privacy preserving Federated Learning framework for IoMT based big data analysis using edge Computing |
| | | | Jan-Feb 2023 | | |
| | | | March-April 2023 | | |
| 7. | I ² CS-Intelligent Integrated Circuits and Systems Research Group http://i2cs.iiitkottayam.ac.in/index.php/#seo | Dr. Kala S, Dr. Santhos, Dr. Ananth, Dr. Minu Pillai, Dr. Rajesh G, Dr. Venkatsh S, Dr. Narendra Reddy, Dr. Della Thomas | Nov-Dec 2022 | Proposals Submitted | <ol style="list-style-type: none"> Joint proposal with Vaidyaratnam Ayurveda Research Institute (VARI) (submitted), Project Cost: 13 Lakhs, PI: Dr. Kala S., Co-PI: Dr. Santhos Kumar, Dr. Dhanyamol M V, Dr. Sheela K (VARI), Dr. Ashish G R (VARI) Revised proposal (revised by including 15 VLSI projects) submitted under MeiTy-SMDP Chip to Start Up (C2S) Scheme as a Consortium, Project Cost: 74 Lakhs, PI: Dr. Kala S, Co-PI: Dr. Jayakrushna Sahoo |
| | | | | Research Publications (Conferences / Journals) | <p>Domain: FPGA based system Design</p> <ol style="list-style-type: none"> 36th IEEE International Conference on VLSI Design (VLSID), Hyderabad, Jan 2023 19th IEEE International Conference INDICON, Kochi, November 2022 SCI Journal (Under Review) 56th IEEE Int'l Symposium on Circuits and Systems (ISCAS), California, USA (Under Review) Scopus Indexed Book Chapter (Accepted) <p>Domain: Hardware Security</p> <ol style="list-style-type: none"> 8th IEEE Int'l Symposium on Smart Electronic Systems (iSES), December 2022 UDT, 36th IEEE VLSI Design Conference, Hyderabad, Jan 2023 Scopus Journal (Under Review) <p>Domain: Brain-Computer Interface</p> |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|--------|----------------|--|---------------|----------------------------------|---|
| | | | | | <p>9. 11th IEEE International Conference on Embedded Systems Devices and Computing (ESDC), 2023 (Under Review)</p> <p>Domain: Wireless Communication</p> <p>10. International Conference paper submitted</p> |
| | | | | UG Student's Activities | <p>1. Smart India Hackathon Finalist - Rahul Barnwal</p> <p>2. IEEE RFID Council Embedded Challenge - Final round going on for two teams from I2CS</p> <ul style="list-style-type: none"> o (Team 1: Rahul Barnwal o Team 2: Abhinav K, Desam Nagi Reddy, Pujari Umesh, B. Sravani, Adityadev) <p>3. KSCSTE TECHFEST Finalist - Rishabh Srivastava, Aditi Shukla</p> <p>4. Shortlisted for L & T Technology Services TECHgium 6th Edition - Rahul Barnwal</p> <p>5. UG Intern, Vishnu Bajjuri presented a research paper at 8th IEEE iSES, December 2022.</p> |
| | | | | MoU and Research Collaborations | <p>1. MoU with CDAC Trivandrum for various research activities and internships</p> <p>2. Research Collaboration with Vaidyaratnam Ayurveda Research Institute, Thrissur (Area: AI/ ML/ Image Processing)</p> <p>3. Research collaborations with various academic Institutions (University of Florida USA, IIT Madras, Newcastle University UK, CUSAT, IISc Bangalore, NIT Trichy, IIITDM K)</p> |
| | | | | Events conducted | <p>1. Webinar on “History of Microelectronics and Future Scope”, Coordinators: Dr. Santhos Kumar & Dr. Kala S</p> <p>2. Webinar on “Adaptive Signal Processing”, Coordinators: Dr. Santhos Kumar & Dr. Kala S</p> <p>3. SERB sponsored workshop on Research Writing Coordinator: Dr. Ananth A, (Fund Sanctioned:5 Lakhs)</p> <p>4. Dr. Kala S has organized a Special Session titled “Intelligence on Chip”, jointly with CUSAT, at 19th IEEE International Conference INDICON, Kochi, November 2022</p> |
| | | | | Talks Delivered | <p>1. Dr. Minu A Pillai - Resource Person for 3-day FDP on “Innovations, IPRs & Optimisation in Electronic Designs with Energy Systems” at Mangalam College of Engg</p> |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|--------|----------------|--|---------------|----------------------------------|--|
| | | | | | <ol style="list-style-type: none"> 2. Dr. Kala S - Resource person for Five-Days Online Short-Term Course on “Research Opportunities and Challenges in Nano-electronics and Advanced Communication Systems, NIT Uttarakhand , Oct 2022 3. Dr. G.N.K.Reddy- Resource person for a workshop on "Signal Processing and Machine Learning for Biomedical Devices" during 28-29 October, 2022, organized by the Department of Electrical Engineering, IIT Indore. 4. Dr. G.N.K.Reddy- Resource person for a two days Hands on Training workshop on "Implementation of Biomedical Signal Processing Algorithms using Arduino Programming" during 5-6 November, 2022 , organized by the Department of ECE, Anna University Regional Campus Coimbatore. 5. Dr. Della Thomas - Invited speaker for Photonics and Lasers - Industry Meet (PLAIM) organized by IEEE Photonics Student Chapter IIT Bombay jointly with IEEE Photonics Society-Bombay Chapter between 7-9 December 2022, co-located with ‘LASER World of PHOTONICS INDIA’ expo, at Bombay Exhibition Centre., Mumbai, Maharashtra. |
| | | | | Other professional activities | <ol style="list-style-type: none"> 1. Dr. Minu A Pillai - Guest of Honour for the inauguration of IETE Students Forum, ECE Association - ECEIAN and 3-day FDP on “Innovations, IPRs & Optimisation in Electronic Designs with Energy Systems” at Mangalam College of Engineering. 2. Dr. Kala S served as Track Chair for "Intelligence on Chip" session at 19th IEEE INDICON, Kochi, Nov 2022 3. Dr. Della Thomas attended “Women in Optics and Photonics”, at RRI Bangalore, December 2022 4. Dr. Kala S chaired a session on "Smart Electronic Systems" at 19th IEEE INDICON, Kochi, Nov 2022. 5. Dr. Venkatesh S, joined as a reviewer for the International Journal of Energy Research. |
| | | | Jan-June 2023 | | <ul style="list-style-type: none"> • 5 days FDP on “Integrated Circuits and Systems for AI” was organized from 8 May to 12 May 2023 • 3 Days workshop on “Integrated Circuits and Systems for AI” was conducted from 15th May 2023 to 17th May 2023 |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|--|--|---------------|--|--|
| 8. | Bigdata & ML Research Group http://bigml.iiitkottayam.ac.in/home.php | Dr. Bibal Benifa, Dr. Bakkyaraj, Dr. J. Sahoo, Dr. P. Victor Paul, Dr. Keshab Nath, Dr. Suchitra, Dr. Vengadeshwaran | Nov-Dec 2023 | Funding Proposal | Collaborative Project proposal planned with Moscow State University, Russia. |
| | | | | Hackathons | Anand Kailash (M.Tech. Student) won first prize in the Hackathon organized by Blue Yonder |
| | | | | Consultancy Work | 1. Dr. Suchithra Visited the Rubber research institute of India, RRII. and initiated a research collaboration with RRII. 2. Preliminary discussions were completed to collaborate with NPOL Lab, DRDO, Kochi. |
| | | | | Research Papers Submitted/ / Published | 1. Chola C, Muaad AY, Bin Heyat MB, Benifa JVB, Naji WR, Hemachandran K, Mahmoud NF, Samee NA, Al-Antari MA, Kadah YM, Kim TS. BCNet: A Deep Learning Computer-Aided Diagnosis Framework for Human Peripheral Blood Cell Identification. Diagnostics (Basel). 2022 Nov 16;12(11):2815 2. Anu KP and J V Benifa, A comprehensive analysis using Neural Networks based model for Thyroid disease prediction, ICAISS-2022, published 3. Amruth and J.V Benifa, Intelligent surveillance system using deep neural networks, Ninth International Conference on Business Analytics, IIM Bangalore. 4. Submitted a paper “A crowd cluster analysis on social media data”. 5. Submitted a paper “FMDNet: A Deep Learning-based Face Mask Detection Approach for Coronavirus Spread Prevention in Public Places”. 6. Submitted a paper “Extracting events influencing anomalous behaviour in stock market - A data-driven approach using sentiment analysis”. 7. Submitted a paper, “Implementing a land registration system using non-fungible tokens to represent land in the system and side-chain for data storage”. 8. Submitted a paper, “Hybrid Outlier Detection Strategy and Weighted Decision Matrix Ordinal Classifier for CKD Severity Prediction” |
| | | | | Invited Talk | 1. Dr. Suchithra- Resource person for ONLINE Faculty Development Programme (FDP) on “DEEP LEARNING: MODELS AND USE CASES USING PYTHON”. Organized by Electronics & ICT Academy, NIT Warangal |

| S N | Research Group | Head of Research Group & group members | Year & Months | Research & Innovation Activities | Details |
|-----|---|---|---------------------|----------------------------------|--|
| | | | | | 2. Dr. Bibal Benifa- Resource Person for one day webinar on the topic Challenges and new Frontiers in Artificial Intelligence organized by ToCH Institute of Science and Technology, Kochi |
| | | | Jan-Feb 2023 | | |
| 9. | Network Science Research Group http://netsci.iitkottayam.ac.in/ | Dr. Divya Sindhu Lekha, Dr. Dhanya M V, Dr. Ebin Deni Raj, Dr. Christina Joseph, Dr. Keshab Nath, Dr. Nandini Warriar | Nov-Dec 2022 | Funding Proposals Submitted | 1. Scheme: SERB POWER, Title: Multilayer network embedding for recommender systems, Cost: 59.21 Lakhs, PI: Dr. Divya Sindhu Lekha, Co-PI: Dr. Keshab Nath 2. Scheme: SERB Overseas Visiting Doctoral Fellowship program (OVDF), Title: Fingerprints of functional brain networks in Alzheimer’s disease progression, Jointly with Prof. Joaquín Goñi Cortés, Associate Professor, Purdue University |
| | | | | Expert Talks | Multilayer Network Science' at the International Seminar on Algebra and Discrete Mathematics (INSADM-2022) - 14 December 2022 - St Berchman's College, Changanassery |
| | | | | Workshop Organized | Five-Day Workshop on Introduction to Transportation Network Science (Online) , from 1 - 5 November 2022, Resource Persons: 1. Dr. Tarun Rambha (Assistant Professor), Department of Civil Engineering, Indian Institute of Science, Bangalore 2. Mr. Prateek Agarwal (PMRF Ph.D. Scholar), Indian Institute of Science, Bangalore |
| | | | Jan-Feb 2023 | | |

Table 06: Research Groups of IIIT Kottayam – Last 2 Months Activities

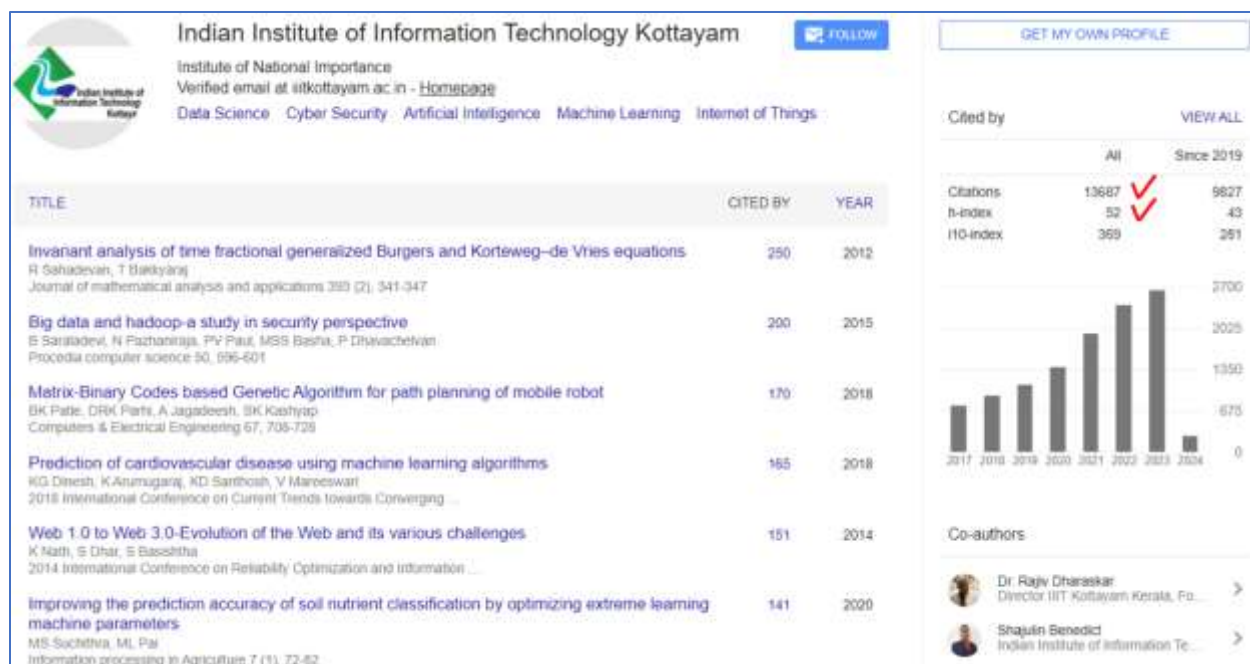


Fig. 01: Google Scholar h-index of IIIT Kottayam is 52 with 13687 citations

https://scholar.google.com/citations?hl=en&view_op=list_works&authuser=1&gmla=AJsN-

[F6yqwRyTr0tzdul2P2RyuZ0BIHUEqjTdn7nSZBNBav14SM6pHtLs1TJsEq7XZyZl3kZslrQU02ntMxGf_EvfdP93GuzX0Pa2A4JKzI7YlwGh5Z3dpxv4YWQb729QJ3-ZWK1cz8&user=ho1TX1oAAAAJ](https://scholar.google.com/citations?hl=en&view_op=list_works&authuser=1&gmla=AJsN-F6yqwRyTr0tzdul2P2RyuZ0BIHUEqjTdn7nSZBNBav14SM6pHtLs1TJsEq7XZyZl3kZslrQU02ntMxGf_EvfdP93GuzX0Pa2A4JKzI7YlwGh5Z3dpxv4YWQb729QJ3-ZWK1cz8&user=ho1TX1oAAAAJ)

- The faculty members (including administrative staff) have published or presented more than **1000** (with 16 Best Paper Awards) research papers till date, which includes **25** research papers of BTech students and one research paper with Technical Supporting Staff. <https://www.iiitkottayam.ac.in/#!/studentPublication>, <https://www.iiitkottayam.ac.in/#!/researchPublication>
- IIIT Kottayam has registered a total 95 Ph.D. research scholars, out of which few are from industries such as Cognizant, CDAC, ONGC, Skywalk Global Pvt Ltd, etc. The classification of their research areas is as follows:

| SN | Research Areas of PhD Scholars | Number of PhD Scholars |
|-----|---|------------------------|
| 1. | Industrial IoT Cloud | 2 |
| 2. | Deep Learning | 2 |
| 3. | HPC Cloud | 1 |
| 4. | Computer Vision | 3 |
| 5. | Machine Learning | 6 |
| 6. | IoT in Machine Learning | 2 |
| 7. | Serverless IoT Cloud | 1 |
| 8. | Post Quantum Cryptography | 1 |
| 9. | Machine Learning in Smart home security | 1 |
| 10. | Brain Computer Interface | 2 |
| 11. | Machine Learning in Bioinformatics | 3 |
| 12. | Block Chain | 2 |
| 13. | Machine Learning in Cyber Security | 2 |
| 14. | Software Define Networking | 2 |

| SN | Research Areas of PhD Scholars | Number of PhD Scholars |
|-----|--|------------------------|
| 15. | AI for IoT Device | 1 |
| 16. | Multilayer Network Embedding | 1 |
| 17. | Quantum Safe Cryptographic Solutions in blockchain | 2 |
| 18. | Federated learning | 1 |
| 19. | Fractional Differential Equations | 1 |
| 20. | Graph Theory | 2 |
| 21. | Emotion Intelligence | 1 |
| 22. | Responsible AI | 1 |
| 23. | Image Processing | 4 |
| 24. | Data Science | 1 |
| 25. | Data Privacy | 1 |
| 26. | Social Network Analysis/Optimization | 3 |
| 27. | Misinformation Spreading in OSN | 1 |
| 28. | VLSI Design | 4 |
| 29. | Federated Machine Learning | 1 |
| 30. | Edge Intelligence | 1 |
| 31. | Machine Learning in Cyber Security | |
| 32. | Wireless Communication | 1 |
| 33. | Software-Hardware Co design | 1 |
| 34. | Communication Systems | 1 |
| 35. | Brain Networks | 1 |
| 36. | Network Anomaly Detection | 1 |
| 37. | 3D reconstruction from 2D images based on DL | 1 |
| 38. | Graph Algorithms in Distributed Systems | 1 |
| 39. | Deep Learning in Agriculture | 1 |
| 40. | Block Chain based Lightweight Authentication Protocols | 1 |
| 41. | Data Compression | 1 |
| 42. | Quantum AI | 1 |
| 43. | Fog Computing and Machine Learning | 2 |
| 44. | Routing on the internet of things | 1 |
| 45. | Deep learning in medical imaging | 1 |
| 46. | Deep Learning methods for Image Denoising | 1 |
| 47. | Stochastic learning for AI and Data Science | 1 |
| 48. | Deep Learning methods for Differential equations | 1 |
| 49. | Big Data Analytics | 1 |
| 50. | IoT smart office security | 1 |
| 51. | Security Aspects in Communication | 1 |
| 52. | Smart Agriculture | 1 |
| 53. | AI & Machine Learning | 2 |
| 54. | Mathematics for Data Science | 1 |
| 55. | Cyber physical Systems | 1 |
| 56. | Software-Hardware Co design | 1 |
| 57. | Hardware Security | 1 |
| 58. | Light weight cryptography | 1 |
| 59. | ML in cyber security | 2 |
| 60. | Serverless Blockchain | 1 |
| 61. | Security in IoT | 1 |

| SN | Research Areas of PhD Scholars | Number of PhD Scholars |
|-----|--------------------------------|------------------------|
| 62. | Embedded Systems | 1 |
| | Total | 90 |

Table 07: Research areas of 90 Ph.D. scholars out of 110

| SN | Name of Scholarship and Funding Agency | Name of Ph.D. / Post Doc Scholar | Admission Year and Month | Name of Ph.D. Guide |
|--|--|----------------------------------|--------------------------|--|
| Ph.D. Fellowships for Fulltime Scholars | | | | |
| 1. | Savitribai Jyotirao Phule Fellowship for Single Girl Child, UGC | Bhagyalakshmi Muralidharan | 01.09.2021 | Dr. Shajulin Benedict |
| 2. | Doctoral Fellowships, IIT Palakkad Technology IHub Foundation | Jeena Thomas | 7.19.2019 | Dr. Ebin Deni Raj |
| 3. | Industry funded | Ms. Ashly Ann Jo | August 2021 | Dr. Ebin Deni Raj |
| 4. | Women Scientist Scheme WISE-WOS DST | Jeena Thomas | 2019 | Dr. Ebin Deni Raj |
| 5. | MeitY - Visvesvaraya PhD Scheme | Mahesh S | 02.08.2023 | Dr. Ebin Deni Raj |
| 6. | CSIR-JRF | Anandhu Mohan | 8.22.2020 | Dr. Dhanyamol M.V. |
| 7. | UGC- JRF | Nicky Caroline S | 8.22.2020 | Dr. Dhanyamol M.V. |
| 8. | Inspire Fellowship (Received offer letter) DST- INSPIRE | Julie Sara Benny | 01.6.2022 | Dr. Dhanyamol M.V. Dr. Divya Sindhu Lekha |
| 9. | Doctoral Fellowships, IIT Palakkad Technology IHub Foundation | Jisha Mariyam John | 8.22.2020 | Dr. Divya Sindhu Lekha |
| 10. | Doctoral Fellowships, IIT Palakkad Technology IHub Foundation | Remya R | 04.08.2022 | Dr. Kala S |
| 11. | MeitY - Visvesvaraya PhD Scheme | Prashamol Prakashan | 2022 | Dr. Kala S |
| 12. | e-Grantz by Government of Kerala | Sreelekshmi Raveendran | 2019 | Dr. Kala |
| 13. | MeitY - Visvesvaraya PhD Scheme | Renji S | 2022 | Dr. Arun Cyril |
| 14. | Savitribai Jyotirao Phule Fellowship for Single Girl Child, UGC | Akshaya Suresh | 04.08.2022 | Dr. Arun Cyril |
| 15. | MeitY - Visvesvaraya PhD Scheme | Christy K T | 2022 | Dr. J V Bibal Benifa |
| 16. | Savitribai Jyotirao Phule Fellowship for Single Girl Child, UGC | Anu K.P. | 06.01.2022 | Dr. J V Bibal Benifa |
| 17. | Savitribai Jyotirao Phule Fellowship for Single Girl Child, UGC | Annette James | 04.01.2022 | Dr. Ananth |
| 18. | Savitribai Jyotirao Phule Fellowship for Single Girl Child, UGC | Afila A S | 04.08.2022 | Dr. Bakkyaraj T |
| 19. | Savitribai Jyotirao Phule Fellowship for Single Girl Child, UGC | Parvathy Gopakumar | 04.08.2022 | Dr. Rubell Marion Lincy |
| 20. | Doctoral Fellowships, IIT Mandi iHub and HCI Foundation | Akarsh K Nair | 22.08.2020 | Dr. Jayakrushna Sahoo |
| 21. | Chanakya Fellowship by I-hub of IIT Indore | Mr. Anuroop | March 2023 | Dr. Ragesh G K |
| 22. | Chanakya Fellowship by I-hub of IIT Indore | Lekha C Warriar | Feb 2024 | Dr. Ragesh G K |
| 23. | Full-Time Ph.D. Sponsored. by IHRD Government of Kerala | Ajoy Thomas | 02/08/2023 | Dr. Ragesh G K |
| 24. | Industry funded | Ms. Mahima Mary Mathews | Aug 2019 | Dr. Panchami |
| 25. | MeitY - Visvesvaraya PhD Scheme | Amala Mathew | 02.08.2023 | Dr. Panchami V |

| SN | Name of Scholarship and Funding Agency | Name of Ph.D. / Post Doc Scholar | Admission Year and Month | Name of Ph.D. Guide |
|--|--|----------------------------------|--------------------------|--------------------------|
| 26. | MeitY - Visvesvaraya PhD Scheme | Rintu Jose | 02.08.2023 | Dr. Mirza Ghalib |
| 27. | DST-WISE under KIRAN Division | Ms. Anju Augustin | Jan 2024 | Dr. Cinu C Kiliroor |
| 28. | JRF | Anju Jose | 02/08/2023 | Dr. Victor Paul |
| 29. | MeitY - Visvesvaraya PhD Scheme | | March 2024 | |
| 30. | MeitY - Visvesvaraya PhD Scheme | | March 2024 | |
| 31. | MeitY - Visvesvaraya PhD Scheme | | March 2024 | |
| 32. | Ph. D Chanakya Fellowship by IIT Indore | Veenamol K V | Jan 2023 | Dr. Lidiya Lilly Thampi |
| 33. | CSIR Senior Research Fellowship | Reetha Thomas | March 2004 | Dr. Bakkyaraj T |
| Ph.D. Fellowships for Specific Purpose – Small Incentives | | | | |
| 34. | WISE by Quest Global (around Rs. 50 K total) | | March 2024 | |
| 35. | WISE by Quest Global (around Rs. 50 K total) | | March 2024 | |
| 36. | ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total) | Ms. Sheba Elizabeth Thomas | April 2024 | Dr. Rubell Marion Lincy |
| 37. | ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total) | Ms. Ashly Ann Jo | April 2024 | Dr. Ebin Deni Raj |
| 38. | ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total) | Ms. Amrita Kumari | April 2024 | Dr. Manu Madhavan |
| 39. | ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total) | Mr. Payala Krishnanjaneyulu | April 2024 | Dr. Koppala Guraviah |
| External Ph.D. Scholar Fellowship | | | | |
| 40. | MeitY - Visvesvaraya PhD Scheme | | March 2024 | |
| 41. | MeitY - Visvesvaraya PhD Scheme | | March 2024 | |
| Post-Doc Fellowships | | | | |
| 42. | Chief Minister’s Nava Kerala Post-Doctoral Fellowship | Dr. Ansal K A | 2022 | Dr. Ragesh G K |
| 43. | TamilNadu Government Young Scientist Fellowship | Dr. B. Hemalatha | 2023 | Dr. J. V. Bibal Benifa |
| 44. | MeitY - Visvesvaraya PhD Scheme | | 2024 | |
| Ph.D. Scholar fellowship for Visit to Foreign Country | | | | |
| 45. | SERB Overseas Visiting Doctoral fellowship OVDF at Purdue University USA Out of 200 applications of Ph.D. scholars from all over India only 25 Ph.D. scholars are selected for this prestigious scholarship by SERB OVDF. | Julie | Received in March 2024 | Dr. Dhanya and Dr. Divya |
| 46. | University of Agder, Norway. | Akarsh K. Nair | June 2023 to Feb 2024 | Dr. Sahoo |
| Faculty Research Fellowship | | | | |
| 47. | MeitY - Visvesvaraya Young Faculty Research Fellowship | | March 2024 | |

Table 08: More than 60% of Full-Time eligible Ph.D. scholars got Scholarships from different funding agencies.

- From 2021, IIIT Kottayam has started Post Doc. Under “SERB-National Post-Doctoral Fellowship”, “Kerala Government Post Doc scheme” and “CSRI Post-Doctoral Fellowship” schemes, total of **10 Post Doc scholars** have applied under the guidance of IIIT Kottayam

faculty members. Recently Post Doc candidate of Dr. Ragesh of IIIT Kottayam has selected for the Post-Doc fellowship namely “Chief Minister’s Nava Kerala Post-Doctoral Fellowship”.

| Sl. No | Application No. | Name & Address of Applicant | Gender | Institution presently attached | Age as on 10-10-2021 | Name of Registering University with department /School/Centre (for Navakerala Post-Doctoral Fellowship) | Title of the Research Proposal |
|--------|-----------------|---|--------|--|----------------------|---|---|
| 3 | 10000152 | Dr. Ansal K A, Associate Professor ECE, Saintgits college of Engineering, Pathamuttom P.O, Kottayam- 686532 | M | Saintgits college of Engineering Kottayam, Kerala | 36 | Indian Institute of Information Technology Kottayam, Kerala | Isolation enhancement of MIMO antenna array with reduced mutual coupling for low latency connectivity in 2020s. telecommunication providers began deploying fifth-generation (5G) networks to meet growing demands for data from consumer and industrial users. In 5G communication systems, the phased-array antenna is one of the lead front-end components that defines massive multiple-input, multiple-output (MIMO) performance. Antenna to antenna mutual coupling describes energy absorbed by one an |

Table 09: Chief Minister’s Nava Kerala Post-Doctoral Fellowship to Dr. Ansal K A under the supervision of Dr. Ragesh G K IIIT Kottayam

- UG Research Activities:

| SN | UG Student’s Research Papers with 7 Best Paper Awards | Guided by Faculty |
|---|---|-----------------------|
| Dr. Shajulin Benedict (8 Research Papers with UG Students) | | |
| 1. | Shubham Kumar, Shajulin Benedict, Srilakshmi N., “Application of Natural Language Processing and IoTCloud in Smart Homes”, International IEEE conference “ICCT2019”, Jaipur, India, https://ieeexplore.ieee.org/document/8969066?denied= | Dr. Shajulin Benedict |
| 2. | Mannem Srinivas, Shajulin Benedict, Basil C. Sunny, “IoT Cloud-based Smart Bin for Connected Smart Cities - A Product Design Approach”, International IEEE conference “ICCCNT2019”, IIT-Kanpur, DBLP: 10.1109/ICCCNT45670.2019.8944558, India, July 2019, https://ieeexplore.ieee.org/document/8944558?denied= | Dr. Shajulin Benedict |
| 3. | Basil C. Sunny, Shajulin Benedict, Rajan M.P., and Mannem Srinivas, “Impact of Printing Parameters on Energy Consumption of 3D Printers Using IoT Cloud Architecture”, International IEEE conference “INDICON 2019”, Marwadi University, Rajkot, India, https://www.youtube.com/watch?v=3Z2ZFEMKxI0 | Dr. Shajulin Benedict |
| 4. | Shajulin Benedict, Rumaize P., and Jaspreet K., “IoT Blockchain Solution for Air Quality Monitoring in SmartCities”, International IEEE conference “ANTS 2019”, BITS PILANI, Goa Campus, India, https://ants2019.ieee-comsoc-ants.org/wp-content/uploads/sites/71/2019/11/Session_schedule.pdf | Dr. Shajulin Benedict |
| 5. | Shivendra Singh, Shajulin Benedict, “Indian Semi- Acted Facial Expression (iSAFE) Dataset for Human Emotions Recognition”, International LNCS Springer Conference, “SIRS 2019”, India, Received the Best Paper Award . | Dr. Shajulin Benedict |
| 6. | Shubham Kumar, Shajulin Benedict, Srilakshmi Ajith, "Application of Natural Language Processing and IoTCloud in Smart Homes," 2019 2nd International Conference on Intelligent Communication and Computational Techniques (ICCT), Jaipur, India, 2019, pp. 20-25, DOI: 10.1109/ICCT46177.2019.8969066. | Dr. Shajulin Benedict |
| 7. | Rajit Verma, Shajulin Benedict, Bhagyalakshmi M., FML Framework: Function Triggered ML-as-a-Service for IoT Cloud Applications, in Springer 3rd ICADCML 2022 conference | Dr. Shajulin Benedict |
| 8. | Rahul Badami, Shajulin Benedict, Bhagyalakshmi, APM Bots: An Automated Presentation Maker for Tourists/Corporates using NLP-Assisted Web Scraping | Dr. Shajulin Benedict |

| SN | UG Student's Research Papers with 7 Best Paper Awards | Guided by Faculty |
|---|---|-----------------------|
| | Technique, accepted in Int. Conf. on Advanced Network Technologies and Intelligent Computing, Springer CCIS series, 2021. | |
| 9. | M. G. Christopher, Jiby Maria Jose, Muhammed Nihal K.V., Tijo Thomas, Rumaise, and Shajulin Benedict, CatBoost and Genetic Algorithm Implementations for University Recommendation Systems, accepted in 5th Int. Conf. on Inventive Computation Technologies (IEEE-ICICT2022), India. | Dr. Shajulin Benedict |
| 10. | Rachit Verma, M. Bhagyalakshmi, and Shajulin Benedict, Microservice-Oriented Cloud-Based Driver Vigilance System for Accident Protections, in IEEE 19th India Council Int. Conf. INDICON 2022, CUSAT Univ., pp. 1--6, doi: 10.1109/INDICON56171.2022.10039731, 2022. | Dr. Shajulin Benedict |
| 11. | Shajulin Benedict, Rubiya Subair, Tanya Gupta, and Vedanta S.P., Penalty-Enabled Serverless Architecture for Cloud-based Startup Solutions, accepted in 6th International Conference on Inventive Computation Technologies, ICICT, Nepal, 2023. | Dr. Shajulin Benedict |
| 12. | Shajulin Benedict, Vendanta S.P., and Tanya Gupta, IoT Enabled Trustless Trusts for Water Distribution Systems in SmartCities -- An Architectural Design, accepted in IEEE International Conference on Networking and Communications 2023 (ICNWC 2023), SRM, Chennai, India. | Dr. Shajulin Benedict |
| 13. | Shajulin Benedict, S. Vivek Reddy, Bhagyalakshmi M., Jiby Mariya Jose, and Radu Prodan, Performance Improvement Strategies of Edge-Enabled Social Impact Applications in (IEEE) 6th Int. Conf. on Inventive Computation Technologies, ICICT'23, Nepal Accepted (2023) | Dr. Shajulin Benedict |
| 14. | Shajulin Benedict, Lakshin Kumar R., and Baranidaran M., In-Store Product Placement using LiDAR-Assisted Discrete PSO Algorithm in 8th International Conference Information, Communication & Computing Technology (ICICCT-2023) Accepted (2023) | Dr. Shajulin Benedict |
| Dr. Bini A. A (3 Research Papers with UG Students) | | |
| 15. | Savio Jose, Bini A. A., "Towards building a better biometric system based on vein patterns in Human Beings", Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019), 2019, https://ieeexplore.ieee.org/abstract/document/8869207 | Dr. Bini A. A |
| 16. | Amrutham Abhinav, Manikandan VM, Bini A. A., "An improved Reversible data hiding on encrypted images using selective flipping technique", 5TH International IEEE conference on Devices, Circuits and Systems, 6 th 5March 2020, Karunya University Received Best Paper Award | Dr. Bini A. A. |
| 17. | Sai Suryakiran, and A. A. Bini, "A Low-cost IoT enabled device monitoring Agricultural field and smart irrigation system", 4th Int. Conf. on Inventive Communication and Computational Technology, Tamilnadu, 28-29, May 2020. | Dr. A. A. Bini |
| Dr. V. Panchami (3 Research Papers with UG Students) | | |
| 18. | Yedla, Sandeep Kumar, V. M. Manikandan, and V. Panchami. "Real-time Scene Change Detection with Object Detection for Automated Stock Verification." In 2020 5th International Conference on Devices, Circuits and Systems (ICDCS), pp. 157-161. IEEE, 2020. | Dr. V. Panchami |
| 19. | Sai Surya Pokala, Panchami.V, Kelavath Jaisingh, " A Low-Cost IoT Enabled Device for Real-Time Air Quality Monitoring System", accepted in Fifth International Conference on ICT for Sustainable Development ICT4SD 2020 for the publication in Springer Advances in Intelligent Systems and Computing/ Lecture Notes in Networks and Systems. | Dr. Panchami. V |
| 20. | Vemulapalli Rajesh, Panchami V "A Novel Multiplicative Substitution Cryptosystem", IEEE International Conference "Electrical, Computer and Communication Technologies (ICECCT), IEEE 2019, Coimbatore, https://ieeexplore.ieee.org/document/8869508 | Dr. Panchami. V |
| 21. | Vishnu Ajith, Mahima Mary Mathews, Panchami V, "Frequency Analysis Attack on Ceaser Cipher using Quantum State Vector Machine", Track 4 in IATMSI-2022, IEEE International Conference organized by IIITM Gwalior, Best Paper Award | Dr. Panchami V |
| Dr. J. V. Bibal Benifa (1 Research Paper with UG Students) | | |

| SN | UG Student's Research Papers with 7 Best Paper Awards | Guided by Faculty |
|---|---|------------------------|
| 22. | Mattaparti Satya Bhargavi, J. V. Bibal Benifa, Rishav Jaiswal, (2021), "Abnormal Event Detection in Public Places by Deep Learning Methods", Advances in Intelligent Systems and Computing, vol 1335. Springer, Singapore. https://doi.org/10.1007/978-981-33-6984-9_55 | Dr. J. V. Bibal Benifa |
| Dr. Ebin Deni Raj (3 Research Papers with UG Students) | | |
| 23. | 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, Best Paper Award in the track Intelligent Systems and Analytics. | Dr. Ebin Deni Raj |
| 24. | Ruchika Sreedhar, Jeena Thomas and Ebin Deni Raj "Detection Of Chest Catheters Using Mask R-CNN", 2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) Pune, India. Oct 29-30, 2021 | Dr. Ebin Deni Raj |
| 25. | Vedant Sandeep Joshi, Jeena Thomas and Ebin Deni Raj "Quantized Coconut Detection Models with Edge Devices" Journal of Interconnection Networks [Scopus Indexed Journal] | Dr. Ebin Deni Raj |
| 26. | Amritha Haridasan, Jeena Thomas, Ebin Deni Raj "Deep Learning System for Paddy Plant Disease Detection and Classification" Environmental Monitoring and Assessment, Springer (SCI Impact factor- 2.52) 2022, First UG Research paper in SCI Journal | Dr. Ebin Deni Raj |
| 27. | Sai Tejashwin Eswarapu, Seshathri S, Yashwanth Deshaboina, Bhargawa P., Ashly Ann Jo and Ebin Deni Raj Integrated Customer Analytics using Explainability and AutoML for Telecommunications. Paper accepted in 2nd International Conference on Applied Artificial Intelligence and Computing ICAAIC 2023 | Dr. Ebin Deni Raj |
| Dr. Kala S. (7 Research Papers with UG Students) | | |
| 28. | Tumun Shaily, Kala S, "Bacterial Image Classification using Convolutional Neural Networks", 17th IEEE INDICON 2020, New Delhi, December 11-13, 2020 | Dr. Kala S. |
| 29. | Shivakrishna G, Kala S, "Sewage monitoring system for smart cities using Internet of Things", International Conference on Research in Technology and Management, Kolkata, Feb 26-28, 2021, Best Paper Award | Dr. Kala S. |
| 30. | Mahesh M, Nalesh S, Kala S, "Bandwidth-Efficient Sparse Matrix Multiplier Architecture for Deep Neural Networks on FPGA", 34th IEEE International System-On-Chip Conference (SOCC), Las Vegas, NV, USA, September 14-17, 2021 | Dr. Kala S. |
| 31. | Mahesh M, Nalesh S, Kala S, "Hardware acceleration of SpMV multiplier for deep learning", in 25th IEEE International Symposium on VLSI Design and Test (VDAT), Jaipur, India, September 2021 | Dr. Kala S. |
| 32. | Rahul Barnwal, Rishabh Srivastava, Vimalathithan R, Kala S, "Advanced Driver Assistance System for Autonomous Vehicles Using Deep Neural Network", 10th IEEE Region-10 Humanitarian Technology Conference (R10 - HTC 2022), Hyderabad, 16-18 September 2022 | Dr. Kala S. |
| 33. | Vishnu Bajjuri, Nalesh S, Sree Ranjani Rajendran, Kala S, "Adiabatic Physical Unclonable Function using Cross Coupled Pair", 8 th IEEE International Symposium on Smart Electronic Systems, India, December 2022 | Dr. Kala S. |
| 34. | Vishnu Narayanan, Sweety K, Kala S, "Understanding Cloud Structures from Satellite Images using Deep Learning", in 2023 IEEE International Conference on Computer, Electronics & Electrical Engineering and their applications (IC2E3), NIT Uttarakhand, June 2023 | Dr. Kala S |
| Dr Divya Sindhu Lekha (2 Research Papers with UG Students) | | |
| 35. | Network Science and Climate Dynamics - A Mini Review, presented by ABHIJITH S BABU, at ICAISE 2023, Kochi, 15 March 2023 | Dr. Divya Sindhu Lekha |
| Dr. Suchithra M S | | |
| 36. | Kunjumon, C., Mutharia, A., Shareef, S., & Suchithra, M. S. (2023, May). Implementing a land registration system using non-fungible tokens to represent land in the system and | Dr. Suchithra M S |

| SN | UG Student's Research Papers with 7 Best Paper Awards | Guided by Faculty |
|---|---|---|
| | side-chain for data storage. In 2023 International Conference on Control, Communication and Computing (ICCC) (pp. 1-5). IEEE. (Published) | |
| Dr. Sivaiah Bellamkonda (2 Research Papers with UG Students) | | |
| 37. | Dhanush Binu, Sivaiah Bellamkonda, "Academic Dishonesty Detection in Exams using Pose Extraction", 7th International Conference on Inventive Systems and Control (ICISC 2023), 30-31 January 2023, Coimbatore. | Dr. Sivaiah Bellamkonda |
| 38. | G Rithish Kumar Reddy, K Sai Nruthik Sri Harsha, Vaisakh NP, Sivaiah Bellamkonda, "Enhanced Brain Tumor Classification with Inception V3 and Xception Dual-Channel CNN", ICEAI 2023: International Conference on Evolutionary Artificial Intelligence (ICEAI 2023), Malaysia, 13-14, September 2023. | Dr. Sivaiah Bellamkonda |
| Dr. Cinu C Kiliroor (3 Research Papers with UG Students) | | |
| 39. | "Sentiment based Simplification of Legal Text", Presented by Som Sagar and Swani Sundara Didde in 4th International Conference on Communication, Devices and Computing (ICCDC 2023) | Dr. Cinu C Kiliroor |
| 40. | Manikanta Dommati and Cinu C Kiliroor, "Real-time 3D Texture and Motion Analysis for Face Anti-Spoofing using Deep Learning and Computer Vision.", Springer 10th International Conference on Recent Trends in Computing (ICRTC-23) (Accepted for Springer Book Chapter) | Dr. Cinu C Kiliroor |
| 41. | Irish K S, Lidiya L T and Cinu C Kiliroor, "Analysis of Deep Learning Classification Models for Predicting Plant Species from Single Leaf Images", IEEE International Conference on Computer, Electronics & Electrical Engineering and their applications (IC2E3 2023) (Accepted for Springer Book Chapter) | Dr. Cinu C Kiliroor and Dr. Lidiya Lilly Thampi |
| Dr. Keshab Nath (1 Research Papers with UG Students) | | |
| 42. | Anjali M N, Tejash More, Kumari Misa, and Keshab Nath "Narrative Paragraph Generation for Photo Stream Using Neural Networks" 4th International Conference on Communication and Intelligent Systems ICCIS 2022 | Dr. Keshab Nath |
| Dr. Koppala Guravaiah (1 Research Papers with UG Students) | | |
| 43. | Koppala Guravaiah, Yarlaga Sai Bhavadeesh, Peddi Shwejan, Allu Harsha Vardhan, and Lavanya S, "Third Eye: Object Recognition And Speech Generation For Visually Impaired" in The International conference on Machine Learning and Data Engineering (ICMLDE-22), September 7-8, 2022, UPES, Dehradun, India. | Dr. Koppala Guravaiah |
| Dr. E. Silambarasan (1 Research Papers with UG Students) | | |
| 44. | Dr. Silambarasan Elkana Ebinazer, Mr.Shinde Soham Santosh, Robust Ownership Management for Secure Deduplication in Cloud (Accepted) in WorldS4 International Conference & London, UK 45139 | Dr. E. Silambarasan |
| Dr. Rubell Marion Lincy G (3 Research Papers with UG Students) | | |
| 45. | Vishnu Narayanan, Rubell Marion Lincy G, Parvathy Gopakumar, Reinforcement Learning based Energy Management system for Hybrid Electric Vehicles : A review in ACCESS '23 2023 3rd International Conference on Advances in Computing, Communication, Embedded and Secure System, & Kalady, Kochi 45047 | Dr. Rubell Marion Lincy G |
| 46. | Sumadithya, S., Latheef, F. N., Sameer, M., & Lincy G, R. M. (2023, June 23). Detecting Diabetic Retinopathy Using Deep Learning Techniques. 2023 3rd International Conference on Intelligent Technologies (CONIT). https://doi.org/10.1109/conit59222.2023.10205793 | Dr. Rubell Marion Lincy G. |
| 47. | Nair, K., B, G. P., & Lincy G, R. M. (2023, May 26). Motor Imagery-Based Brain-Computer Interface Using Fusion of Deep Convolutional Neural Network with Wavelet Scattering Network. 2023 4th International Conference for Emerging Technology (INCET). https://doi.org/10.1109/incet57972.2023.10169918 | Dr. Rubell Marion Lincy G. |
| Dr. Jayakrushna Sahoo (3 Research Papers with UG Students) | | |
| 48. | D. Prudvi, A. K. Nair and J. Sahoo, "A weight factor based secure invisible image watermarking using Discrete Cosine Transform," 2022 4th International Conference on | Dr. Jayakrushna Sahoo |

| SN | UG Student's Research Papers with 7 Best Paper Awards | Guided by Faculty |
|---|---|-------------------------|
| | Advances in Computing, Communication Control and Networking (ICAC3N), Greater Noida, India, 2022, pp. 1940-1944, doi: 10.1109/ICAC3N56670.2022.10074059. | |
| 49. | R. Jaiswal, A. K. Nair and J. Sahoo, "Real-time monitoring system for attendance and attentiveness in virtual classroom environments," <i>2022 2nd International Conference on Artificial Intelligence and Signal Processing (AISP)</i> , Vijayawada, India, 2022, pp. 1-6, doi: 10.1109/AISP53593.2022.9760690. | Dr. Jayakrushna Sahoo |
| 50. | Ghanghor, N.K., John, C., Sahoo, J. (2023). MFNet: A Facial Recognition Pipeline for Masked Faces Using FaceNet. In: Gupta, D., Bhurchandi, K., Murala, S., Raman, B., Kumar, S. (eds) <i>Computer Vision and Image Processing. CVIP 2022. Communications in Computer and Information Science</i> , vol 1776. Springer, Cham. https://doi.org/10.1007/978-3-031-31407-0_45 | Dr. Jayakrushna Sahoo |
| Dr. Lidiya Lilly Thampi (1 Research Papers with UG Students) | | |
| 51. | Ben George, Lidiya Thampi, Limce Thampi., Colour-Based Thresholding for Early and Reliable Detection of Stem Bleeding in Coconut Tress, 9th IEEE International Conference on Smart Computing and Communications, (ICSCC 2023), organised by Muthoot Institute of Technology & Science during 17-19 August 2023. [Best Paper Award] | Dr. Lidiya Lilly Thampi |
| Individual Contributions | | |
| 52. | Ramesh Gorrepotu, K. Durga Prasad, and A. Harsha Vardhan, "Miniaturized instrumentation for Planetary Environment Monitoring", Indian Planetary Science Conference (IPSC-2020), Physical Research Laboratory, Ahmedabad, India, 19th-21st February 2020 | |
| 53. | S. Aruchamy, A. Haridasan, A. Verma, P. Bhattacharjee, S. N. Nandy, and S. Ram Krishna Vadali, "Alzheimer's Disease Detection using Machine Learning Techniques in 3D MR Images," 2020 National Conference on Emerging Trends on Sustainable Technology and Engineering Applications (NCETSTE), Durgapur, India, 2020, pp. 1-4, DOI: 10.1109/NCETSTE48365.2020.9119923. https://ieeexplore.ieee.org/document/9119923 | |
| 54. | Jisna Antony, Vishnu Sreenivas, Jayaraj P. B., "Towards Building a Coordinate Clustered Library for Template-Based Modeling of Protein Structures", IEEE International Conference "Recent Advances in Intelligent Computational Systems (RAICS), IEEE", Trivandrum, 6-8 Dec 2018, https://ieeexplore.ieee.org/document/8635068 | |
| During Internship with Interns | | |
| Dr. Shajulin Benedict (3 Research Papers with Interns) | | |
| 55. | Intern: Bill Jose Sibi IoT-Blockchain Enabled Yield Advisory System (IBEYAS) for Rubber Manufacturers, in IEEE 2020 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS) | Dr. Shajulin Benedict |
| 56. | Intern: Jaspreet K IoT Blockchain Solution for Air Quality Monitoring in SmartCities in IEEE ANTS 2019, BITS PILANI | Dr. Shajulin Benedict |
| 57. | Intern: D.Giri, Nila Goutham, Sreelakshmi N. Real Time Water Quality Analysis Framework using Monitoring and Prediction Mechanisms in 2018 Conference on Information and Communication Technology (CICT), | Dr. Shajulin Benedict |
| Dr. Koppala Guravaiah (1 Research Papers with Interns) | | |
| 58. | Intern: Noel Jorge, SINGATHI SREEJA IoT based crop protection submitted to MSME Project | Dr. Koppala Guravaiah |
| Dr. Kala S (3 Research Papers with Interns) | | |
| 59. | Intern: Vishnu Bajjuri "Adiabatic Physical Unclonable Function Using Cross-Coupled Pair", in 8th IEEE International Symposium on Smart Electronic Systems (iSES 2022), Dec 19-21, India. | Dr. Kala S |
| 60. | Intern: Vishnu Bajjuri A Novel Adiabatic PUF for Portable Devices", in 36th IEEE International Conference on VLSI Design and 22nd International Conference on Embedded Systems (VLSID 2023), | Dr. Kala S |

| SN | UG Student's Research Papers with 7 Best Paper Awards | Guided by Faculty |
|---|---|-----------------------------|
| | Jan 8-12, 2023, Hyderabad, India (VLSID 2023 UDT Award - Honorable Mention Award from Academia) | |
| 61. | Intern: M A Muneeb "A Physically Unclonable Function Architecture with Multiple Responses on FPGA" in International Journal of Embedded Systems, 2023 | Dr. Kala S |
| Dr. Ebin Deni Raj (3 Research Papers with Interns) | | |
| 62. | Arundhathi Nair S (Intern), Caina Rose Paul(Intern), Ashly Ann Jo, Jeena Thomas, Ebin Deni Raj, "Tabular Data Interpretation on Covid-19 Through Explainable Machine Learning", best paper award in International Conference on Emerging Trends and Technologies on Intelligent Systems (ETTIS-2023) jointly organized by CDAC Noida and University of Ploiesti, Romania, and the University of Haute-Alsace, France | Dr. Ebin Deni Raj |
| Dr. Christina Terese Joseph (3 Research Papers with Interns) | | |
| 63. | Tanisha Rathod, Christina Terese Joseph, John Paul Martin, "Improving Industry 4.0 Readiness: Monolith Application Refactoring using Graph Attention Networks", in CLEF, 23 rd International Symposium on Cluster, Cloud and Internet Computing (CCGRID'23) | Dr. Christina Terese Joseph |

Table 10: Total 63 UG Student's Research Papers

- The faculty members have received Best Paper Awards in prestigious conferences and Journals.

| SN | IIIT Kottayam Faculty-Best Paper Awards |
|----------------------------------|--|
| Dr. Shajulin Benedict (2) | |
| 1. | Shivendra Singh, Shajulin Benedict , "Indian Semi- Acted Facial Expression (iSAFE) Dataset for Human Emotions Recognition", International LNCS Springer Conference , "SIRS 2019", India |
| 2. | Shajulin Benedict , RandomForest Enabled Collaborative COVID-19 Product Manufacturing/Fabrications, in International Semantic Intelligence Conference (ISIC 2021) - CEUR-WS, 2021 |
| Dr. Bini A A (1) | |
| 3. | Amrutham Abhinav, Manikandan VM, Bini A. A. , "An improved Reversible data hiding on encrypted images using selective flipping technique", 5 TH International IEEE conference on Devices , Circuits and Systems, 6 th March 2020, Karunya University |
| Dr. Kala (2) | |
| 4. | Shivakrishna G, Kala S , "Sewage monitoring system for smart cities using Internet of Things", International Conference on Research in Technology and Management, Kolkata, Feb 26-28, 2021 |
| 5. | Kala S. , Babita R Jose, Jimson Mathew, Nalesh S., "Accelerating Convolutional Neural Networks on FPGA", 33rd International Conference on VLSI Design and 19th International Conference on Embedded systems (VLSID) 2020, Bengaluru, Jan 4-8, 2020 (Best SRF Paper- Runner Up) |
| Dr. Jayarushna Sahoo (1) | |
| 6. | Akarsh K Nair, Jayarushna Sahoo , "Edge eye: A voice-assisted campus navigation system for visually impaired" IEEE 3rd international Conference on Signal Processing and Communication, Karunya Institute of Technology and Sciences, Coimbatore, May 2021 |
| Dr. Koppala Guravaiah (1) | |
| 7. | Koppala Guravaiah and R. Leela Velusamy, " RFDMRP: River Formation Dynamics based Multi-Hop Routing Protocol for Data Collection in Wireless Sensor Networks" in Eleventh International Multi-Conference on Information Processing, Elsevier Procedia-Computer Science , Bangalore, India, 21-23, Aug. 2015, pp. 31-36. |
| Dr. Ebin Deni Raj (5) | |
| 8. | Vedant S Joshi, Dr. Ebin Deni Raj , "FYEO: A Character Level Model For Lip Reading", 8 th International IEEE Conference on Smart Computing and Communications (ICSCC 2021), Muthoot Institute of Technology and Science Puthencruz, Ernakulam, Kerala, Best Paper in the track Intelligent Systems and Analytics. Mr. Vedant S. Joshi is UG (BTech Computer Science & Engineering) student. |

| SN | IIIT Kottayam Faculty- Best Paper Awards |
|-----------------------------------|---|
| 9. | Shahad P and Ebin Deni Raj , "Challenges in Streaming Data Analysis for Building an Adaptive Model for Handling Concept Drifts" Fourth IEEE International Conference on System, Computation, Automation, and Networking (ICSCAN), 30-31 July 2021 |
| 10. | Jeena Thomas and Ebin Deni Raj , "Effectual Single Image Dehazing with Color Correction Transform and Dark Channel Prior" in 16th International Conference on Information Processing (ICInPro 2021), Bengaluru |
| 11. | Ms. Remya Raveendran and Ebin Deni Raj , "Deep Generative Models Under GAN: Variants, Applications, and Privacy Issues" in 7th International Conference on Information System Design and Intelligent Applications (INDIA - 2022), Hyderabad, India |
| 12. | Arundhathi Nair S(Intern), Caina Rose Paul(Intern), Ashly Ann Jo, Jeena Thomas, Ebin Deni Raj , "Tabular Data Interpretation on Covid-19 Through Explainable Machine Learning", best paper award in International Conference on Emerging Trends and Technologies on Intelligent Systems (ETTIS-2023) jointly organized by CDAC Noida and University of Ploiesti, Romania, and the University of Haute-Alsace, France |
| Dr. Suresh Chavhan (1) | |
| 13. | Suresh Chavhan , D. Gupta, C. B. N, A. Khanna and J. J. P. C. Rodrigues, "Agent Pseudonymous Authentication-Based Conditional Privacy Preservation: An Emergent Intelligence Technique", in IEEE Systems Journal, vol. 14, no. 4, pp. 5233-5244, Dec. 2020. 2021 IEEE Systems Journal, Best Paper Award with \$500 Cash Prize. |
| Dr. Panchami V (1) | |
| 14. | Vishnu Ajith, Mahima Mary Mathews, Panchami V , "Frequency Analysis Attack on Ceaser Cipher using Quantum State Vector Machine", Track 4 in IATMSI-2022, IEEE International Conference organized by IIITM Gwalior |
| Dr. G. K. Ragesh (1) | |
| 15. | V. A. Binson, M. Subramoniam, G. K. Ragesh and A. Kumar, "Early Detection of Lung Cancer Through Breath Analysis Using AdaBoost Ensemble Learning Method", 2021 2nd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS), 2021, pp. 183-187. |
| Dr. Milind Thomas Themalil | |
| 16. | Themalil, M.T., Singh, S., Jain, D., Yadav, D., Rammal, M., Sharma, M. (2023). Miniaturization Capability of the Pixel Antenna for Nanosatellite Footprints. In: Mishra, B., Tiwari, M. (eds) VLSI, Microwave and Wireless Technologies. Lecture Notes in Electrical Engineering, vol 877. Springer, Singapore. https://doi.org/10.1007/978-981-19-0312-0_2 |

Table 11: **Best Paper awards** – IIIT Kottayam Faculty Members

- Patents by IIIT Kottayam:

| SN | Patent / Copyrights | Date of Application | National / International | Status Applied / Published / Examined / Granted | Faculty Member |
|----------------|---|---------------------|--------------------------|---|---|
| Patents | | | | | |
| 1. | Wireless Vehicle Monitoring System and Method Thereof | April 2018 | Indian Patent | Filed | Dr. Koppala Guravaiah (Co-Inventors: Dr. R Leela Velusamy NIT Tirchi) |
| 2. | Autonomous device for harvesting fruits | September 2020 | Indian Patent | Filed | Dr. Ebin Deni Raj |
| 3. | A method for implementing convolutional neural networks using Winograd minimal filtering and GEMM | October 2018 | Indian Patent | Filed | Dr. Kala S (Co-inventors: Babita R Jose, Jimson Mathew, Nalesh S) |
| 4. | Smart Bin with Rewarding Tracker | November 2020 | Indian Patent | Granted | Dr. Shajulin Benedict |
| 5. | Automatic Fish Feeder | December 2020 | Indian Patent | Granted | Dr. Shajulin Benedict |

| SN | Patent / Copyrights | Date of Application | National / International | Status Applied / Published / Examined / Granted | Faculty Member |
|-----|--|---------------------|--------------------------|---|--|
| 6. | Digital Cost Meter for Fused Deposition Modeling (FDM) 3D Printers | December 2020 | Indian Patent | Published | Dr. Shajulin Benedict |
| 7. | Scalable space structured ledger framework for Industrial Internet of Things using Block chain technique | August 2021 | Australian Patent | Granted | Dr. Ragesh, Dr. Shajulin Benedict with Ph.D. scholars Mr. Besil and Mr. Rajesh |
| 8. | IoT Enabled Urban Environmental Monitoring with Wireless Sensor Network | 01.11.2021 (FER) | Indian Patent | Filed | Dr. Ragesh G K |
| 9. | Wearable Device for Monitoring the health of Mother and Fetus during Pregnancy | 21.01.2022 | Indian Patent | Filed | Dr. Ragesh G K (Co-Inventors: Dr. Oluwakayode Onireti (University of Glasgow), Mr. Anuroop K B (Ph.D. Scholar), Ms. Lekha C Warriar (Ph.D. Scholar)) |
| 10. | Animal Tracking Strap Using RFID and IoT | 13.05.2022 | Indian Patent | Granted | Prof. Rajiv Dharaskar, Dr. Meena Agrawal, Dr. C. P. Agrawal, and 3 more. |
| 11. | Aquarium with automatic water PH and Temperature control feature | 22.06.2022 | Indian Patent | Granted | Prof. Rajiv Dharaskar, Dr. C. P. Agrawal, and Dr. Kamal Uperati. |
| 12. | Smart Pulse Diagnostic Kit | 20.07.2022 | Indian Patent | Filed | Dr. Victor Paul |
| 13. | Automatic Fish Feeder | | Indian Patent | Granted | AIC IIIT Kottayam Foundation Dr. Shajulin Benedict |
| 14. | Smart Bin with Rewarding Tracker | | Indian Patent | Granted | AIC IIIT Kottayam Foundation Dr. Shajulin Benedict |
| 15. | IoT Enabled Indoor Air Quality Monitor | | Indian Patent | Filed | AIC IIIT Kottayam Foundation Dr. Shajulin Benedict |
| 16. | Table | | Indian Patent | Filed | AIC IIIT Kottayam Foundation, Digo Sebastian, Edwin Pananthanam Dr. Shajulin Benedict |
| 17. | An Advanced Artificial Intelligence Negative Pressure Wound Therapy | | Indian Patent | Granted | Romemariya Technology Consultancy Services Private Limited |
| 18. | An Effective Dressing Material for Negative Pressure Wound Therapy | | Indian Patent | Filed | |
| 19. | Portable Medical Device | | Indian Patent | Filed | |
| 20. | Automatic Panipuri dispersing machine | | Indian Patent | Filed | Water N Spices Foodsz Private Limited |
| 21. | Title Not-Disclosed | | Indian Patent | Filed | NEXGENSM Technology Private Limited |
| 22. | An IoT-Based Medical Alert Communication System and Its Method of Use Thereof | | Indian Patent | Filed | Luka Healthcare Pvt. Ltd |
| 23. | Assistive Posture Support Mattress | | Indian Patent | Filed | DESINTOX Technologies Private Limited |

| SN | Patent / Copyrights | Date of Application | National / International | Status Applied / Published / Examined / Granted | Faculty Member |
|-------------------|---|---------------------|--|---|---|
| 24. | Smart electric wheelchair for patient Comfort | | Indian Patent | Filed | |
| 25. | Automatic Fish Feeder | 20.10.2020 | Indian Patent | Filed | Dr. Shajulin Benedict |
| 26. | Smart bin and Rewarding tracker | 29.09.2020 | Indian Patent | Filed | Dr. Shajulin Benedict |
| 27. | IoT Enabled Indoor Air Quality Monitor | 17.02.2021 | Indian Patent | Filed | Dr. Shajulin Benedict |
| 28. | Smart Height Adjustable Table | 28.08.2021 | Indian Patent | Granted | Dr. Shajulin Benedict, Edwin P., and Digo S. |
| 29. | Portable bicycle mobile charger International Design Classification: Version: 14-2023 Class: 13 Equipment For Production, Distribution Or Transformation Of Electricity Subclass: 02 Power Transformers, Rectifiers, Batteries And Accumulators | 11.12.2021 | United Kingdom (UK) - International | Granted Design number: 6280041 Grant date: 15 May 2023 Registration date: 04 May 2023 | Dr. Milind Thomas Themalil |
| 30. | Design a Secure IoT based Air Quality Monitoring Device using Blockchain | 02.08.2023 | Indian Patent | Filed | Dr. Panchami Sharon Justine, Research Scholar, IIIT Kottayam Mohammed Ziyad, UG Student, 2020 Batch, IIIT Kottayam Abin Oommen Philip, Assistant Professor, IIIT Kottayam |
| 31. | Multi-Purpose Cauterization Tool for Ayurveda (Set) | 07.02.2023 | Indian | Granted | Dr. Ragesh G K, Dr. Radhakrishnan, Anuroop K B |
| 32. | Artificial Intelligence Based Traffic Light Anomaly Detection and Predictive Maintenance System | 10.02.2023 | Indian | Granted | Dr. Ragesh G K, Anuroop K B |
| 33. | Low-Cost Waste Management Using Edge Computing | 28.06.2023 | Indian | Granted | Dr. John Paul Martin and Mr. Aravaind |
| 34. | Low-Cost Bionic Arm | 19.04.2023 | Indian | Granted | Dr. John Paul Martin and Dr. Christina Terese Joseph |
| 35. | Virtual Invigilator: Device to prevent malpractices in online examination and online recruitment | 2023 | National | Applied | Dr. Kala S (Inventors: Noble G, Kala S, Nalesh S, Savia Anns Clare) |
| 36. | Logic Encryption Decryption System For Protecting Hardware Circuits And Method Thereof | 2023 | National | Granted | Dr. Ramasubramanian, Dr. Manjith B.C. |
| 37. | Digital Cost Meter for Fused Deposition Modeling (FDM) 3D Printers | 2023 | National | Granted | Besil C Sunny, Dr. Shajulin Benedict |
| 38. | IoT Enabled Urban Environmental Monitoring with Wireless Sensor Network | 15 March 2024 | National | Granted | Dr. Ragesh GK, Dr. N. Hariharan, Dr. Ajay Kumar, Dr. Bipin P R |
| Copyrights | | | | | |

| SN | Patent / Copyrights | Date of Application | National / International | Status Applied / Published / Examined / Granted | Faculty Member |
|-----|--|---------------------|--------------------------|---|----------------|
| 39. | Cryptographically Enforced Data Access Control in Cloud Assisted Wireless Body Area Networks | 28.08.2021 | National | | Dr. Ragesh G K |
| 40. | Revocable Multi Authority Attribute Set Based Encryption for Cloud Storage | 28.08.2021 | National | | Dr. Ragesh G K |
| 41. | Total 2 Copyrights by Start-ups from ATAL Incubation Center | | National | | |

Table 12: Total of 40 IPR including 37 Patents (16 Granted) and 3 Copyrights (applied/granted) by faculty and Startups of ATAL incubation centers of IIIT Kottayam

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|-----|---|------------------------------|
| 1. | Reviewer, IEEE Transactions on VLSI Systems | Dr. Kala S |
| 2. | Reviewer, IEEE Transactions on Neural Networks and Learning Systems | Dr. Kala S |
| 3. | Reviewer, IEEE Access | Dr. Kala S |
| 4. | Reviewer, IET Signal Processing | Dr. Kala S |
| 5. | Reviewer, The Journal of Supercomputing, Springer | Dr. Kala S |
| 6. | Reviewer, IEEE Transactions on Information Forensics and Security, Impact factor: 4.332. | Dr. Divya Sindhu Lekha |
| 7. | Reviewer, Physica A: Statistical Mechanics and its Applications, Elsevier, Impact factor: 2.924 | Dr. Divya Sindhu Lekha |
| 8. | Reviewer, Discrete Applied Mathematics, The Journal of Combinatorial Algorithms, Informatics and Computational Sciences, Elsevier, Impact Factor: 1.041 | Dr. Divya Sindhu Lekha |
| 9. | Reviewer: IEEE Transactions on Industrial Informatics, Impact factor: 9.112 | Dr. Ebin Deni Raj |
| 10. | Reviewer: IEEE Access | Dr. Arun Cyril Jose |
| 11. | Reviewer: IEEE Sensors | Dr. Arun Cyril Jose |
| 12. | Reviewer: IEEE Transactions on Intelligent Transportation Systems | Dr. Arun Cyril Jose |
| 13. | Reviewer: Journal of Internet Technology | Dr. Arun Cyril Jose |
| 14. | Reviewer: KSII Transactions on Internet and Information Systems | Dr. Arun Cyril Jose |
| 15. | Reviewer: ACM Transactions on Asian and Low-Resource Language Information Processing | Dr. Ebin Deni Raj |
| 16. | Reviewer: Knowledge Management and research Practice | Dr. Ebin Deni Raj |
| 17. | Reviewer: European Journal of Remote Sensing | Dr. Ebin Deni Raj |
| 18. | Reviewer: Intelligent Service Robotics | Dr. Ebin Deni Raj |
| 19. | Reviewer: Neural Computing and Applications | Dr. Ebin Deni Raj |
| 20. | Reviewer: Journal of Applied Remote Sensing | Dr. Ebin Deni Raj |
| 21. | Reviewer: Cluster Computing | Dr. Ebin Deni Raj |
| 22. | Reviewer: CCF Transactions on s | Dr. Ebin Deni Raj |
| 23. | Pervasive Computing and Interaction (TPCI) | Dr. Ebin Deni Raj |
| 24. | Reviewer: Multimedia Tools and Applications | Dr. Ebin Deni Raj |
| 25. | Reviewer: IEEE Access | Dr. Ebin Deni Raj |
| 26. | Applied Soft Computing | Dr. Ebin Deni Raj |
| 27. | Editor-in-chief (Computer Science), International Journal of communication and computer Technologies, ISSN - 2278-9723 | Dr. P. Victor Paul |
| 28. | Associate Editorial Board Member , Journal Recent Advances in Computer Science and Communications, ISSN: 2666-2566. | Dr. P. Victor Paul |
| 29. | Editorial Board Member , Journal of Autonomous Intelligence, ISSN: 2630-5046 | Dr. P. Victor Paul |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|-----|--|------------------------------|
| 30. | Editorial Board Member , Journal of the Institute of Electronics and Computer, ISSN: 2643-8240 | Dr. P. Victor Paul |
| 31. | Special Issue Editor : Journal Recent Advances in Computer Science and Communications, ISSN: 2666-2566. | Dr. P. Victor Paul |
| 32. | Reviewer, Applied Soft Computing, Elsevier | Dr. P. Victor Paul |
| 33. | Reviewer, Entertainment Computing, Elsevier | Dr. P. Victor Paul |
| 34. | Reviewer, Journal of Engineering Science & Technology | Dr. P. Victor Paul |
| 35. | Reviewer, International Journal of Applied Evolutionary Computation (IJAE), IGI Global. ISSN: 1942-3594 | Dr. P. Victor Paul |
| 36. | Reviewer, International Journal of Swarm Intelligence, Inderscience. | Dr. P. Victor Paul |
| 37. | Reviewer, Data in Brief, Elsevier | Dr. P. Victor Paul |
| 38. | Reviewer, Expert Systems with Applications, Elsevier, IF 5.4 | Dr. Rubell Marion Lincy G. |
| 39. | Special Issue Editor : Computing Journal, Springer | Dr. Shajulin Benedict |
| 40. | Special Issue Editor : SCPE journal | Dr. Shajulin Benedict |
| 41. | Special Issue Editor : IoT, Elsevier | Dr. Shajulin Benedict |
| 42. | Associate Editor : IEEE Access | Dr. Shajulin Benedict |
| 43. | Reviewer: Computers and Industrial Engineering | Dr. Shajulin Benedict |
| 44. | Reviewer: Journal of Parallel and Distributed Computing | Dr. Shajulin Benedict |
| 45. | Reviewer: Multimedia Tools and Applications. IF 2.3 | Dr. Keshab Nath |
| 46. | Reviewer: Journal of Intelligent & Fuzzy Systems. IF 1.8 | Dr. Keshab Nath |
| 47. | Reviewer: IEEE Internet of Things Journal | Dr. Panchami V |
| 48. | Reviewer: International Journal of Information Security, Springer | Dr. Panchami V |
| 49. | Reviewer: International Journal of Communication Systems, Wiley | Dr. Panchami V |
| 50. | Reviewer: SCPE journal | Dr. Panchami V |
| 51. | Reviewer: Journal of Circuits, Systems, and Computers | Dr. Manjith B.C. |
| 52. | Reviewer: Microelectronics Journal | Dr. Manjith B.C. |
| 53. | Reviewer: Wiley Software Practice and Experience | Dr. Christina Terese Joseph |
| 54. | Reviewer: Journal of Systems Architecture, Elsevier | Dr. Christina Terese Joseph |
| 55. | Reviewer, International Journal of Pervasive Computing and Communications | Dr. Christina Terese Joseph |
| 56. | Reviewer: IEEE Access | Dr. Koppala Guravaiah |
| 57. | Reviewer: IEEE Sensors | Dr. Koppala Guravaiah |
| 58. | Reviewer: IEEE Transactions on Intelligent Transportation Systems | Dr. Koppala Guravaiah |
| 59. | Reviewer: Wireless Networks, Springer | Dr. Koppala Guravaiah |
| 60. | Reviewer: Wireless Personal Communication | Dr. Koppala Guravaiah |
| 61. | Reviewer: IEEE Transactions on Computational Social Systems | Dr. Koppala Guravaiah |
| 62. | Reviewer: Computing, Springer | Dr. Koppala Guravaiah |
| 63. | Reviewer: Ad Hoc & Sensor Wireless Networks | Dr. Koppala Guravaiah |
| 64. | Reviewer: Journal of ACM computing surveys | Dr. J.V. Bibal Benifa |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|------|---|------------------------------|
| 65. | Reviewer: Journal of Network and Computer Applications, Elsevier | Dr. J.V. Bibal Benifa |
| 66. | Reviewer: Journal of Machine Vision and Applications, Springer | Dr. J.V. Bibal Benifa |
| 67. | Reviewer: Journal of Big Data, Springer | Dr. J.V. Bibal Benifa |
| 68. | Reviewer: Journal of Super Computing, Springer | Dr. J.V. Bibal Benifa |
| 69. | Reviewer: Internet of Things, Elsevier | Dr. J.V. Bibal Benifa |
| 70. | Reviewer: International Journal of Machine Learning and Cybernetics, Springer. | Dr. J.V. Bibal Benifa |
| 71. | Reviewer: Journal of Theoretical Biology, Elsevier | Dr. J.V. Bibal Benifa |
| 72. | Reviewer: Journal of Grid Computing, Springer | Dr. J.V. Bibal Benifa |
| 73. | Reviewer: ACM Transactions on Multimedia Computing, Communications and Applications | Dr. Jayakrushna Sahoo |
| 74. | Reviewer: International Journal of Computing and Digital Systems | Dr. Jayakrushna Sahoo |
| 75. | Reviewer: International Journal of Artificial Intelligence | Dr. Jayakrushna Sahoo |
| 76. | Reviewer: Internet of Things | Dr. Jayakrushna Sahoo |
| 77. | Reviewer: Asian Journal of Environment & Ecology | Dr. Mathew C D |
| 78. | Reviewer: Cornell Hospitality Review, USA | Dr. Mathew C D |
| 79. | Reviewer: Commonground Publishing, USA | Dr. Mathew C D |
| 80. | Editor: Journal of Economics and Technology Research, USA | Dr. Mathew C D |
| 81. | Associate Editor, Quantum Communication Journal, IET | Dr. Ragesh G .K. |
| 82. | Reviewer, Int. J. of Engineering Systems Modelling and Simulation (IJESMS), Inderscience | Dr. Ragesh G .K. |
| 83. | Reviewer, International Journal of Systems Assurance Engineering and Management (IJSA), Springer | Dr. Ragesh G .K. |
| 84. | Reviewer, Soft Computing Journal, Springer | Dr. Ragesh G .K. |
| 85. | Reviewer, Journal of Computational and Applied Mathematics, Springer | Dr. Bakkyaraj T |
| 86. | Reviewer, Pramana: Journal of Physics, Springer | Dr. Bakkyaraj T |
| 87. | Reviewer, Mathematical Methods in the Applied Sciences, John Wiley | Dr. Bakkyaraj T |
| 88. | Reviewer, European Physical Journal Plus, Springer | Dr. Bakkyaraj T |
| 89. | Reviewer, Nonlinear Dynamics, Springer | Dr. Bakkyaraj T |
| 90. | Reviewer, Applied Mathematics and Computation, Elsevier | Dr. Bakkyaraj T |
| 91. | Reviewer, Science China Mathematics, Springer | Dr. Bakkyaraj T |
| 92. | Reviewer, International Journal of Geometric Methods in Modern Physics, World Scientific | Dr. Bakkyaraj T |
| 93. | Reviewer, Neural Processing Letters, Springer Nature | Dr. Suchithra M S |
| 94. | Reviewer, Concurrency, and Computation: Practice and Experience, John Wiley & Sons Ltd | Dr. Suchithra M S |
| 95. | Reviewer, International Journal of Sustainable Agricultural Management and Informatics, Inderscience publishers | Dr. Suchithra M S |
| 96. | Reviewer, International Journal of Electrical and Computer Engineering (IJECE), IAES Publication | Dr. Suchithra M S |
| 97. | Reviewer, Indonesian Journal of Electrical Engineering and Informatics (IJEI), IAES Publication | Dr. Suchithra M S |
| 98. | Reviewer, IEEE Consumer Electronics Magazine | Dr. Sivaiah Bellamkonda. |
| 99. | Reviewer, Neural Computing Applications, Springer | Dr. Sivaiah Bellamkonda. |
| 100. | Reviewer, Cognitive Neurodynamics, Springer | Dr. Sivaiah Bellamkonda. |
| 101. | Reviewer, Journal of Complex Networks, Oxford University Press | Dr. Divya Sindhu Lekha |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|------|---|------------------------------|
| 102. | Reviewer: Cluster Computing | Dr. Keshab Nath |
| 103. | Reviewer: Soft Computing | Dr. Keshab Nath |
| 104. | Reviewer: Multimedia Tools and Applications | Dr. Keshab Nath |
| 105. | Reviewer: International Journal of Intelligent Systems | Dr. Keshab Nath |
| 106. | Reviewer: Neural Network World, SCIE | Dr. Samson Anosh Babu P |
| 107. | Reviewer: Computers in Biology and Medicine, SCIE | Dr. Samson Anosh Babu P |
| 108. | Reviewer-Internet of Things (IoT)-Springer | Dr. Panchami.V |
| 109. | Reviewer: Personal and Ubiquitous Computing | Dr. Ebin Deni Raj |
| 110. | Reviewer: Complex & Intelligent Systems | Dr. Ebin Deni Raj |
| 111. | Reviewer: Big Data | Dr. Ebin Deni Raj |
| 112. | Reviewer: Environmental Technology & Innovation | Dr. Ebin Deni Raj |
| 113. | Reviewer: Journal of Plant Diseases and Protection | Dr. Ebin Deni Raj |
| 114. | Reviewer: Journal of Ambient Intelligence and Humanized Computing | Dr. Ebin Deni Raj |
| 115. | Reviewer: Wireless Personal Communications | Dr. Ebin Deni Raj |
| 116. | Reviewer: Soft Computing | Dr. Ebin Deni Raj |
| 117. | Reviewer: Int J. on Artificial Intelligence Tools (IJAIT) | Dr. Ebin Deni Raj |
| 118. | Reviewer: Knowledge Management Research & Practice | Dr. Ebin Deni Raj |
| 119. | Reviewer: Transactions on Asian and Low-Resource Reviewer: Language Information Processing | Dr. Ebin Deni Raj |
| 120. | Reviewer: Int. J. of Shipping and Transport Logistics (IJSTL) | Dr. Ebin Deni Raj |
| 121. | Reviewer: Computer Communications | Dr. Ebin Deni Raj |
| 122. | Reviewer: Computational Intelligence | Dr. Ebin Deni Raj |
| 123. | Reviewer: Computer Applications in Engineering Education | Dr. Ebin Deni Raj |
| 124. | Reviewer: Journal of Quantitative Analysis of Sports | Dr. Jayakrushna Sahoo |
| 125. | Editor-Biomedical Signal Processing - Frontiers | Dr. Santhos Kumar A. |
| 126. | Reviewer: multimedia tools and applications | Dr. Santhos Kumar A. |
| 127. | Reviewer: IEEE Transactions on Systems, Man, and Cybernetics: Systems | Dr. Santhos Kumar A. |
| 128. | Reviewer: Sadhana Journal, Springer | Dr. Lavanya Settipalli |
| 129. | Reviewer: Agronomy Research | Dr. Suchithra M S |
| 130. | Reviewer: IEEE Transactions on Industrial Informatics, | Dr. John Paul Martin |
| 131. | Reviewer: Journal of the International Measurement Confederation (Elsevier), | Dr. John Paul Martin |
| 132. | Reviewer: IEEE Access, | Dr. John Paul Martin |
| 133. | Reviewer: International Journal of Systems Assurance Engineering and Management (Springer), | Dr. John Paul Martin |
| 134. | Reviewer: Journal of Ambient Intelligence and Humanized Computing (Springer), | Dr. John Paul Martin |
| 135. | Reviewer: Software Practice and Experience (Wiley), | Dr. John Paul Martin |
| 136. | Reviewer: International Journal of Communication Systems(Wiley) | Dr. John Paul Martin |
| 137. | Reviewer: Journal of King Saud University: Computer and Information science; | Dr. Bhanu Chander |
| 138. | Reviewer: Journal of Soft Computing; | Dr. Bhanu Chander |
| 139. | Reviewer: Journal of Concurrency and Computation: Practice and Experience; | Dr. Bhanu Chander |
| 140. | Reviewer: ETRI journal of Emerging Telecommunications and Technologies; | Dr. Bhanu Chander |
| 141. | Reviewer: Indonesian Journal of Electrical Engineering and Computer Science; | Dr. Bhanu Chander |
| 142. | Reviewer: Automatika: Journal for Control, Measurement, Electronics, Computing and Communications | Dr. E. Silambarasan |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|------|---|------------------------------|
| 143. | Reviewer: Knowledge-Based Systems (Elsevier) | Dr. Susheel Kumar Joshi |
| 144. | Reviewer: Multimedia tools and applications | Dr. J.V. Bibal Benifa |
| 145. | Reviewer: International Journal of Machine Learning and cybernetics | Dr. J.V. Bibal Benifa |
| 146. | Reviewer: Journal of Network and Computer Applications | Dr. J.V. Bibal Benifa |
| 147. | Reviewer: Journal of Supercomputing | Dr. J.V. Bibal Benifa |
| 148. | Reviewer: IEEE Transactions on Information Forensics and Security | Dr. Divya Sindhu Lekha |
| 149. | Reviewer: Physica A: Statistical Mechanics and its Applications, Elsevier | Dr. Divya Sindhu Lekha |
| 150. | Reviewer: Discrete Applied Mathematics, The Journal of Combinatorial | Dr. Divya Sindhu Lekha |
| 151. | Reviewer: Algorithms, Informatics and Computational Sciences, Elsevier | Dr. Divya Sindhu Lekha |
| 152. | Reviewer: Journal of Complex Networks, Oxford University Press | Dr. Divya Sindhu Lekha |
| 153. | Reviewer: Elsevier DAM Special Edition: CALDAM 2020 | Dr. Divya Sindhu Lekha |
| 154. | Reviewer: IEEE Communication Letters, | Dr. A. Ananth. |
| 155. | Reviewer: IEEE Systems Journal, | Dr. A. Ananth. |
| 156. | Reviewer: IEEE Transactions on Green Communications and Networking | Dr. A. Ananth. |
| 157. | Reviewer: IET Electronics Letters, | Dr. A. Ananth. |
| 158. | Reviewer: Elsevier's Computer and Electrical Engineering | Dr. A. Ananth. |
| 159. | Reviewer: Wiley Internet Technology Letters | Dr. A. Ananth. |
| 160. | Reviewer: Wiley International Journal of Numerical Modelling: Electronic Networks, Devices and Fields | Dr. A. Ananth. |
| 161. | Reviewer: IEEE Communication Letters, | Dr. A. Ananth. |
| 162. | Associate Editor: Alexandria Engineering Journal (I.F.=6.762) | Dr. Suresh Chavhan |
| 163. | Reviewer: IEEE-IAS Security, Reliability, Privacy, and Quality in Industrial Automation and Control. | Dr. Suresh Chavhan |
| 164. | Reviewer: IEEE Transactions on Intelligent Transportation System, | Dr. Suresh Chavhan |
| 165. | Reviewer: IEEE Transactions on Emerging Topics in Computational Intelligence, | Dr. Suresh Chavhan |
| 166. | Reviewer: IET on Intelligent Transportation System | Dr. Suresh Chavhan |
| 167. | Reviewer: IEEE Transactions on Intelligent Vehicles | Dr. Suresh Chavhan |
| 168. | Reviewer: IEEE Journal on IoT | Dr. Suresh Chavhan |
| 169. | Reviewer: IEEE Transactions on IAS | Dr. Suresh Chavhan |
| 170. | Reviewer: IEEE System Journal | Dr. Suresh Chavhan |
| 171. | Reviewer: Engineering Applications of Artificial Intelligence, Elsevier | Dr. Suresh Chavhan |
| 172. | Reviewer: IEEE Transactions on Industrial Informatics | Dr. Suresh Chavhan |
| 173. | Reviewer: Computer Networks, Elsevier | Dr. Suresh Chavhan |
| 174. | Reviewer: IET Communication | Dr. Suresh Chavhan |
| 175. | Reviewer: IET Intelligent Transportation System | Dr. Suresh Chavhan |
| 176. | Reviewer: IET Renewable Power Generation | Dr. Suresh Chavhan |
| 177. | Reviewer: Sustainable Energy technologies and Assessments, Elsevier | Dr. Suresh Chavhan |
| 178. | Reviewer: IEEE Access | Dr. Suresh Chavhan |
| 179. | Reviewer: Sadhana Journal, Springer | Dr. Sivaiah Bellamkonda |
| 180. | Associate Editor , Alexandria Engineering Journal (SCI, Q1 Journal, I.F.=6.626) | Dr. Suresh Chavhan |
| 181. | Reviewer: International Journal of Cybernetics and Systems, Taylor and Francis Journal of Cloud Computing, Springer | Dr. E. Silambarasan |
| 182. | Reviewer: IEEE Transactions on Signal and Information Processing over Networks | Dr. Rajesh G |
| 183. | Reviewer: Elsevier Internet of Things | Dr. Panchami V |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|------|--|------------------------------|
| 184. | Reviewer of International Journal of Energy Research | Dr. Venkatesh S |
| 185. | Reviewer: Iranian Journal of Science and Technology, Transactions of Electrical Engineering | Dr. A. Ananth |
| 186. | Reviewer: Knowledge-Based Systems | Dr. Susheel Kumar Joshi |
| 187. | Reviewer: Expert Systems With Applications | Dr. Susheel Kumar Joshi |
| 188. | Reviewer: Associate Editor for IET Quantum Communications Journal | Dr. Ragesh G K |
| 189. | Reviewer: IEEE Internet of Things Journal. | Dr. Ragesh G K |
| 190. | Reviewer: IEEE Transactions on Green Communication and Networking | Dr. Ragesh G K |
| 191. | Reviewer: Springer- Journal of Ambient Intelligence and Humanized Computing | Dr. Ragesh G K |
| 192. | Reviewer: Springer- Sādhanā – Academy Proceedings in Engineering Sciences. | Dr. Ragesh G K |
| 193. | Reviewer: Elsevier Journal- Future generation computer systems | Dr. Ragesh G K |
| 194. | Reviewer: Wiley- International Journal of Communication Systems | Dr. Ragesh G K |
| 195. | Reviewer: Int. J. of Engineering Systems Modelling and Simulation (IJESMS), Inderscience | Dr. Ragesh G K |
| 196. | Reviewer: International Journal of Systems Assurance Engineering and Management (IJSA), Springer | Dr. Ragesh G K |
| 197. | Reviewer: Soft Computing Journal, Springer | Dr. Ragesh G K |
| 198. | Reviewer: Cybernetics and Systems. | Dr. Selvi C |
| 199. | Reviewer: IEEE Transaction on Computational Biology and Bioinformatics | Dr. Manu Madhavan |
| 200. | Reviewer: Computers in Biologu and Medicine (Elsevier) | Dr. Manu Madhavan |
| 201. | Reviewer: Journal of King Saud University Computer and Information Sciences | Dr. Bhanu Chander |
| 202. | Reviewer: ACM Computing Surveys | Dr. Bhanu Chander |
| 203. | Reviewer: ETRI Journal of Emerging Telecommunications Technologies | Dr. Bhanu Chander |
| 204. | Reviewer: Alexandria Engineering Journal | Dr. Bhanu Chander |
| 205. | Reviewer: Journal of Soft Computing | Dr. Bhanu Chander |
| 206. | Reviewer: Journal of Network and Systems Management | Dr. Bhanu Chander |
| 207. | Reviewer: Indonesian Journal of Electrical Engineering and Computer Science | Dr. Bhanu Chander |
| 208. | Reviewer: International Journal of Machine Learning | Dr. Sivaiah Bellamkonda |
| 209. | Reviewer: Behaviour & Information Technology | Dr. Sivaiah Bellamkonda |
| 210. | Reviewer: Multimedia Tools & Applications | Dr. Sivaiah Bellamkonda |
| 211. | Reviewer of Springer's Soft Computing | Dr. A. Ananth |
| 212. | Reviewer of Elsevier's Physical Communication | Dr. A. Ananth |
| 213. | Reviewer of Progress in Electromagnetics Research (PIER, PIER B,C,M, PIER Letters) | Dr. Milind Thomas Themalil |
| 214. | Reviewer of Walailak Journal of Science and Technology | Dr. Milind Thomas Themalil |
| 215. | Reviewer of Bulletin of Malaysian Mathematical Society | Dr. Asha Sebastian |
| 216. | Reviewer of Alexandria Egeineering Journal, Elsevier | Dr. Amit Kumar Roy |
| 217. | Reviewer of Computational and Mathematical Organization Theory, Springer | Dr. Amit Kumar Roy |
| 218. | Reviewer of International journal of energy research | Dr. S.Venkatesh |
| 219. | Reviewer of Advances in Condensed Matter Physics | Dr. S.Venkatesh |
| 220. | Reviewer of IEEE Internet of Things Journal | Dr. Minu A Pillai |
| 221. | IEEE Access, Alexandria, SoftwareX Journals | Dr Vengadeswaran S |
| 222. | The Computer Journal | Dr. Manjith B C |
| 223. | Reviwer IEEE Transactions on Industrial Informatics | Dr. Nilotpal |
| 224. | Reviwer IEEE Systems Journal | Dr. Nilotpal |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|------|---|------------------------------|
| 225. | Reviwer IEEE Transactions on Transportation Electrification | Dr. Nilotpal |
| 226. | Reviwer IEEE Transactions on Cybernetics | Dr. Nilotpal |
| 227. | Reviwer Elsevier Sustainable Cities and Society | Dr. Nilotpal |
| 228. | Reviwer Elsevier Engineering Applications for AI | Dr. Nilotpal |
| 229. | Reviwer Elsevier OMEGA | Dr. Nilotpal |
| 230. | Reviewer Cybernetics and Systems | Dr Selvi C |
| 231. | Reviewer- Web Intelligence Journal- IoS press | Dr. Ragesh G K |
| 232. | Guest Editor- Frontiers in Communications and Networks Journal | Dr. Ragesh G K |
| 233. | Reviwer The Journal of Supercomputing | Dr. Jayakrushna Sahoo |
| 234. | Reviwer-Knowledge and Information Systems | Dr. Jayakrushna Sahoo |
| 235. | Reviewer- Journal of Ambient Intelligence and Humanized Computing | Dr. Jayakrushna Sahoo |
| 236. | Reviewer- IEEE Transactions on Emerging Topics in Computational Intelligence | Dr. Jayakrushna Sahoo |
| 237. | Reviewer- IEEE Transactions on Neural Networks and Learning Systems | Dr. Jayakrushna Sahoo |
| 238. | Reviewer- IEEE Access Journal | Dr. G. Narendra Kumar Reddy |
| 239. | Reviewer of Journal of optics | Dr. Lidiya Thampi |
| 240. | Reviewer of Neural Computing Applications | Dr. Sivaiah Bellamkonda |
| 241. | Reviewer of Knowledge-Based Systems (Elsevier) | Dr. Susheel Kumar Joshi |
| 242. | Reviewer of Expert Systems With Applications (Elsevier) | Dr. Susheel Kumar Joshi |
| 243. | Reviewer of Neural Computing and Applications (Springer) | Dr. Susheel Kumar Joshi |
| 244. | Reviewer of Journal of the Franklin Institute (Elsevier) | Dr. Susheel Kumar Joshi |
| 245. | Reviewer of International Journal of Machine Learning and Cybernetics (Springer) | Dr. Susheel Kumar Joshi |
| 246. | Reviewer: Information Processing in Agriculture (IPA) (Elsevier) | Dr. Suchithra M S |
| 247. | Reviewer- Proceedings of the National Academy of Sciences, India Section A: Physical Sciences | Dr. Dhanyamol M V |
| 248. | Reviewer- Materials Today: Proceedings | Dr. Dhanyamol M V |
| 249. | Reviewer- Fuzzy Sets and Systems | Dr. Dhanyamol M V |
| 250. | Reviewer of IEEE Access | Dr.Jalaja M J |
| 251. | Reviewer of Sadhana | Dr.Jalaja M J |
| 252. | Reviewer of Frontiers in Physics (Statistical and Computational Physics) | Dr Divya Sindhu Lekha |
| 253. | Reviewer of Frontiers in Physics (Social Physics) | Dr Divya Sindhu Lekha |
| 254. | 2022 IEEE HAC/SIGHT Projects - Call for Proposals Focused on Pressing Community Needs. | Dr Divya Sindhu Lekha |
| 255. | Reviewer: Applied Intelligence - Springer | Dr. Rubell Marion Lincy G |
| 256. | Reviewer: Journal of Computational and Cognitive Engineering | Dr.Jobin Jose |
| 257. | Reviewer: Journal of embedded real time communication technology- IGI global | Dr.Jobin Jose |
| 258. | Reviewer: Network: Computation in Neural Systems | Dr. E. Silambarasan |
| 259. | Reviewer- Journal of Information Security and Applications (Elsevier) | Dr. Amit Kumar Roy |

| SN | Editor / Reviewer of Journal | IIIT Kottayam Faculty Member |
|------|--|------------------------------|
| 260. | Reviewer- The Journal of Supercomputing (Springer) | Dr. Amit Kumar Roy |
| 261. | Reviewer- International Journal of Data Science and Analytics (Springer) | Dr. Amit Kumar Roy |
| 262. | Reviewer: Applied Intelligence - Springer | Mr. Balasubramanian P |
| 263. | Reviewer: Applied Artificial Intelligence - Taylor & Francis | Mr. Balasubramanian P |
| 264. | Reviewer - Sustainable Computing: Informatics and Systems - Elsevier | Dr. Shajulin Benedict |
| 265. | SI Editor - Frontiers in The Internet of Things | Dr. Shajulin Benedict |
| 266. | Reviewer of Evolutionary Intelligence (Springer Nature) | Dr. Jayakrushna Sahoo |

Table 13: Reputed International Journals: Editors & Reviewers from Faculty Members of IIIT Kottayam

| SN | Reviewer of International Conference | Conference Dates | Faculty Member of IIIT Kottayam |
|-----|--|--|---------------------------------|
| 1. | IEEE Int'l Symposium on Circuits and Systems (ISCAS) | May 2018 | Dr. Kala S |
| 2. | IEEE Asia Pacific Conference on Circuits and Systems (APCCAS) | 2021 | Dr. Kala S |
| 3. | IEEE Int'l Symposium on Embedded System Design (ISED) | For various editions from 2010 onwards | Dr. Kala S |
| 4. | IEEE Int'l Conference on Data Science Engineering, IIT Patna | 2019 | Dr. Kala S |
| 5. | IEEE 8th Int'l Conference on Smart Computing and Communications (ICSCC), Kochi | July 2021 | Dr. Kala S |
| 6. | ICSCC 2021: 8th International Conference on Smart Computing and Communications. | 1- 3 July 2021 | Dr. Panchami V |
| 7. | 2 nd International Conference on Image, Video Processing and Artificial Intelligence (IVPAI2019), China | 23-25 Aug 2019 | Dr. Koppala Guravaiah |
| 8. | 3 rd International Conference on recent trends in Advanced Computing (ICTTAC-2020), Chennai | 17-18 December 2020 | Dr. Koppala Guravaiah |
| 9. | 7 th International Conference on Fuzzy Systems and Data Mining | 13-16 November 2020 | Dr. Jayakrushna Sahoo |
| 10. | Artificial Intelligence and Sustainable Engineering- (AISE-2020) | 18-20 January 2021 | Dr. Jayakrushna Sahoo |
| 11. | 1 st International Conference on Security & Privacy | 05-06 November 2020 | Dr. Jayakrushna Sahoo |
| 12. | International Conference on Advances in Security and Computing (ICASC-2021) | 28-29 July 2021 | Dr. Christina Terese Joseph |
| 13. | IEEE BOMBAY SECTION SIGNATURE CONFERENCE (IBSSC-2021) | 18-20 November 2021 | Dr. Christina Terese Joseph |
| 14. | 2021 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER) | 19-20 November 2021 | Dr. Christina Terese Joseph |
| 15. | 9th International Conference on Pattern Recognition and Machine Intelligence (PREMI-2021) | 15-18 December 2021 | Dr. Christina Terese Joseph |
| 16. | IEEE 54th International Conference on Circuits and Systems (ISCAS, Flagship Conference of CASS), Austin, Texas, USA, | May 2022 | Dr. Kala S |
| 17. | International Conference on Computational Sciences: Modelling, Computing and Soft Computing (CSMCS 2020) | 10-12 September 2020 | Dr. Dhanyamol M V |

| SN | Reviewer of International Conference | Conference Dates | Faculty Member of IIIT Kottayam |
|-----|---|-----------------------|---------------------------------|
| 18. | IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2020), IIT Roorkee | 1-4 October 2020 | Dr. Samson Anosh Babu P |
| 19. | 2 nd International Conference on Security & Privacy | 16-17 November 2021 | Dr. Jayakrushna Sahoo |
| 20. | 2 nd International Conference on Intelligent and Cloud Computing (ICICC-2021) | 22-23 October 2021 | Dr. Jayakrushna Sahoo |
| 21. | International Conference on Humans and Technology: A Holistic and Symbiotic Approach to Sustainable Development (ICHT 2022) | 17- 22 Jan 2022 | Dr. Lidiya Lily Thampi |
| 22. | International Conference on Computing, Communication, Security and Intelligent Systems | 23 - 25 June 2022 | Dr. Lidiya Lily Thampi |
| 23. | 10 th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2022) | 18 - 19 June 2022 | Dr. Keshab Nath |
| 24. | 4 th International Conference on Computing and Communication Systems | 13- 15 October 2022 | Dr. Keshab Nath |
| 25. | IEEE COMPSAC 2022, IT in Practice Symposium on Computers, Softwares and Applications in Uncertain World, Torino, Italy. | 27 June - 1 July 2022 | Dr. Lavanya Settipalli |
| 26. | International Conference on Electrical, Computer and Energy Technologies (ICECET), Prague, Czech Republic | 20-22 July 2022 | Dr. Christina Terese Joseph |
| 27. | 28 th Annual International Conference On Mobile Computing And Networking InterContinental Sydney, Australia | 17-21 October 2022 | Dr. John Paul Martin |
| 28. | 3 rd International Symposium on Automation, Information and Computing (ISAIC 2022), Beijing Jiaotong University. | 9-11 December 2022 | Dr. E. Silambarasan |
| 29. | Reviewer: International Conference on Ambient Intelligence in Health Care (ICAIHC-2022), SOA University, Bhubaneshwar | 15-16 April 2022 | Dr. E. Silambarasan |
| 30. | Reviewer: 1 st International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021), Banaras Hindu University, Varanasi | 17-18 December 2021 | Dr. E. Silambarasan |
| 31. | Reviewer: AICTE sponsored International Conference on Recent Trends in Advanced Computing (ICRTAC'21), VIT Chennai in collaboration with National Cheng-Kung University, Taiwan | 11-12 November 2021 | Dr. E. Silambarasan |
| 32. | International Conference on Contemporary Progress in Engineering & Technology | 24-25 June 2022 | Dr. J.V. Bibal Benifa |
| 33. | 7 th International Conference on Computer Vision & Image Processing | 4-6 November 2022 | Dr. Rubell Marion Lincy G |
| 34. | 10 th International Conference on Frontiers of Intelligent Computing: Theory and Applications. | 18-19 June 2022 | Dr. Amit Kumar Roy |
| 35. | 7 th Students' Conference on Engineering & Systems (SCES-2022) | 1-3 July 2022 | Dr. Koppala Guravaiah |
| 36. | IEEE 7 th World Forum on Internet of Things | 14 June–31 July 2021 | Dr. Koppala Guravaiah |
| 37. | International Conference on Metaheuristics in Software Engineering and its applications (METASOFT-2022) | 11-12 March 2022 | Dr. Jayakrushna Sahoo |

| SN | Reviewer of International Conference | Conference Dates | Faculty Member of IIIT Kottayam |
|-----|---|----------------------|---------------------------------|
| 38. | 2nd International Conference on Computational Sciences - Modelling, Computing and Soft Computing | 28 - 30 March 2022 | Dr. Dhanyamol M V |
| 39. | 5th international conference on innovation computing and communication (ICICC 2022) | 19-20 February 2022 | Dr. Suresh Chavhan |
| 40. | 3rd International Conference on Data Analytics & Management (ICDAM-2022) | 25 - 26 June 2022 | Dr. Suresh Chavhan |
| 41. | 3rd Doctoral symposium on computational intelligence (DOSCI 2022) | 5 March,2022 | Dr. Suresh Chavhan |
| 42. | 6th ICISPC Imaging, Signal Processing & Communications | 30 May 2022 | Dr. Suresh Chavhan |
| 43. | IEEE INDICON 2022 | 24-26 Nov 2022 | Dr. Nilotpal Chakraborty |
| 44. | International Conference on Advanced Communication and Machine Learning, M. Kumarasamy College of Engineering Tamil Nadu, India, Springer. (Scopus) | 9 - 11 December 2022 | Dr. E. Silambarasan |
| 45. | INDICON (IEEE 19th India Council International Conference 2022) | 24 - 26 November | Dr. Lidiya Thampi |
| 46. | 7th International Conference of Data Management, Analytics and Innovation (ICDMAI 2023) | 20 – 22 Jan 2023 | Dr Selvi C |
| 47. | International conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2022) | 23-25 September 2022 | Dr. Susheel Kumar Joshi |
| 48. | ICDMAI 2023 | 20 - 22 January 2023 | Dr. Cinu C Kiliroor |
| 49. | ACM Symposium on Applied Computing | 27-30 March 2023 | Dr. Manu Madhavan |
| 50. | IEEE INDICON 2022 | 24-26 November 2022 | Dr. Manu Madhavan |
| 51. | FICTA 2022 | 18-19 June 2022 | Dr. Amit Kumar Roy |
| 52. | IEEE Indicon 2022 | 25 Nov 2022 | Dr. Ragesh G K |
| 53. | ICITIT'22 - IIIT Kottayam | 12-13 February 2022 | Dr. Ragesh G K |
| 54. | IC3SIS' 22 | 23-25 June 2022 | Dr. Ragesh G K |
| 55. | IEEE INDICON | 24-26 November 2022 | Dr. John Paul Martin |
| 56. | 4th International Conference on Circuits, Control, Communication and Computing (I4C-2022) | 21-23 December 2022 | Dr. Suchithra M S |
| 57. | 7th ICDMAI-International Conference on Data Management, Analytics & Innovation | 20-22 January 2023 | Dr. Suchithra M S |
| 58. | 7th IEEE International Conference on Computing, Communication, and Security, Seoul, South Korea. | 03-05 November 2022 | Dr. Bhanu chander |
| 59. | 56th IEEE International Symposium on Circuits and Systems (ISCAS), USA | 23 May | Dr. Kala S |
| 60. | 36th IEEE International Conference on VLSI Design (VLSID), Hyderabad | 23 Jan | Dr. Kala S |
| 61. | 19th IEEE INDICON, Kochi, India | November 2022 | Dr. Kala S |
| 62. | 36th IEEE International Conference on VLSI Design, VLSID 2023 | January 2023 | Dr. Kala S |
| 63. | IEEE International Symposium on Smart Electronic Systems (iSES) 2022, India | December 2022 | Dr. Kala S |
| 64. | 7th International Conference on Computer Vision & Image Processing, VNIT Nagpur, Maharashtra - 440010, INDIA | 04-06 November 2022 | Dr. Sivaiah Bellamkonda |
| 65. | 7th ICDMAI-International Conference on Data Management, Analytics & Innovation | 20 - 22 January 2023 | Dr. S. Vengadeswaran |

| SN | Reviewer of International Conference | Conference Dates | Faculty Member of IIIT Kottayam |
|-----|--|----------------------|---------------------------------|
| 66. | International Conference on next generation Intelligent systems | 29-31 Jul 2022 | Dr. Manu Madhavan |
| 67. | INDICON 2022 | 24-26 Nov, 2022 | Dr. Manu Madhavan |
| 68. | ACM Symposium on Applied Computing (SAC)-2023 | 27-31 March 2023 | Dr. Manu Madhavan |
| 69. | 7th IEEE International Conference on Computing, Communication, and Security, Seoul, South Korea | 11 March 2022 | Dr. Bhanu Chander |
| 70. | 36th IEEE VLSI Design Conference, Hyderabad | 8-12 Jan 2023 | Dr. Kala S |
| 71. | 56th IEEE Int'l Symposium on Circuits And Systems (ISCAS), California, USA | May 2023 | Dr. Kala S |
| 72. | 19th IEEE INDICON, Kochi, Kerala | 26-28 Nov 2022 | Dr. Kala S |
| 73. | International Conference on Power Instrumentation Control and Computing | 19 - 21 April 2023 | Dr. Rajesh G |
| 74. | International Conference on Smart Computing and Communications | 17-19 August 2023 | Dr. Ragesh G K |
| 75. | International Conference on Advances in Computing, Communications and Embedded Systems Security | 18-20 May 2023 | Dr. Ragesh G K |
| 76. | National Conference on Communications (NCC) | 23 - 27 May 2022 | Dr. A. Ananth |
| 77. | Wireless, Antenna and Microwave Symposium (WAMS) | 07 - 10 June 2023 | Dr. A. Ananth |
| 78. | TPC & Reviewer of International Conference on Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication (MDCWC) | 22 - 24 June 2023 | Dr. A. Ananth |
| 79. | International Conference on Innovative Trends in Information Technology (ICITIT) | 11 - 12 Feb. 2023 | Dr. A. Ananth |
| 80. | International Conference on Signal Processing and Communication (ICSPC) | 22 - 23 Mar. 2023 | Dr. A. Ananth |
| 81. | International Conference on Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication (MDCWC2023), Dept. of ECE, National Institute of Technology (NIT) - Trichy | 22 – 24 June 2023 | Dr. Milind Thomas Themalil |
| 82. | International Conference on Data Science and Communication (ICTDsC 2023) | 23-24 March 2023 | Dr. Amit Kuimar Roy |
| 83. | AMHM-2023: Handbook of AI-Based Models in Healthcare and Medicine: Approaches, Theories, and Applications | 15th September 2022 | Dr. Amit Kuimar Roy |
| 84. | 10th International Conference on Pattern Recognition and Machine Intelligence (PREMI'23) | 12-15, December 2023 | Dr. Suchithra M S |
| 85. | Second International Conference on Machine Learning, Deep Learning Computational Intelligence for Wireless Communication (MDCWC 2023) | 22 – 24 June 2023 | Dr. S.Venkatesh |
| 86. | 11th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2023) | April 11-12, 2023 | Dr. John Paul Martin |
| 87. | International Conference on intelligent COMPUTING Technologies and Research (i-COMPUTER - 2023) | March 24-25, 2023 | Dr. Manjith B C |
| 88. | 10th International Conference on Pattern Recognition and Machine Intelligence (PREMI'23) | 12-15, December 2023 | Dr Vengadeswaran S |
| 89. | IEEE INDIN 2023 | July 17-20 2023 | Dr. Nilotpal |

| SN | Reviewer of International Conference | Conference Dates | Faculty Member of IIIT Kottayam |
|------|---|----------------------|---------------------------------|
| 90. | 10th International Conference on Pattern Recognition and Machine Intelligence (PReMI'23) | 12-15, December 2023 | Dr Selvi C |
| 91. | 10th International Conference on Pattern Recognition and Machine Intelligence (PReMI'23) | 12-15, December 2023 | Dr. Jayakrushna Sahoo |
| 92. | Reviewer for 7th International Conference On Data Management, Analytics and Innovation- ICDMAI 2023. | January 20-22, 2023 | Dr. Jayakrushna Sahoo |
| 93. | INDICON (IEEE 19th India Council International Conference 2022) | 22-24 November 2022 | Dr. Lidiya Thampi |
| 94. | INDICON (IEEE 20th India Council International Conference 2023) | 14-17 December 2023 | Dr. Lidiya Thampi |
| 95. | iQ-CHESS(IEEE International Conference 2023) | 15-16 Sep 2023 | Dr. Asha Sebastian |
| 96. | IEEE 20th India Council International Conference (INDICON) - 2023 | 14-17 December 2023 | Dr. Suchithra M S |
| 97. | 8th International Conference on Data Management, Analytics & Innovation | 19- 21 January, 2024 | Dr. Suchithra M S |
| 98. | IEEE ICC'23 - SAC-03 EH Track | 28 May - 1 June 2023 | Dr. Goutam Mali |
| 99. | 3rd International Conference on Innovative Trends in Information Technology (ICITIIT-22), IIIT Kottayam | 12-13 Feb 2022 | Dr Divya Sindhu Lekha |
| 100. | Conferences: Icdmai2023 | 19-21 Jan 2024 | Dr Vengadeswaran |
| 101. | iQ-CHESS(IEEE International Conference 2023) | 15-16 Sep 2023 | Dr. Rubell Marion Lincy G |

Table 14: International Conference Reviewers from Faculty Members IIIT Kottayam

| SN | Name of Faculty Member from IIIT Kottayam | Number of Ph.D. Guided other than IIIT Kottayam |
|-------|---|---|
| 1. | Prof. Rajiv Dharaskar | 13 |
| 2. | Dr. Shajulin Benedict | 3 |
| Total | | 16 |

Table 15: Number of Ph.D. Guided other than IIIT Kottayam by Faculty Members of IIIT Kottayam

Book Chapters Published by the IIIT Kottayam Faculties:

| SN | Name of the Book | Name of the Chapter contributed by Faculty / Staff Member of IIIT Kottayam | Authors | Co-Authors | Publisher | Month & Year of Publication | ISBN Number |
|----|--|--|------------------|--------------------------------|-----------------------------------|-----------------------------|-------------------|
| 1 | Lecture Notes in Networks and Systems | Aspects of Security Challenges and Mechanisms in IoT Network | Elizabeth Antony | Amit Kumar Roy | Springer | December 2023 | 2367-3370 |
| 2 | AI and IoT for Sustainable Development | Implementation of Intelligent IoT | Akarsh K. Nair | Chinju John, Jayakrushna Sahoo | Part of the Lecture Notes on Data | January 2022 | 978-3-030-90617-7 |

| SN | Name of the Book | Name of the Chapter contributed by Faculty / Staff Member of IIIT Kottayam | Authors | Co-Authors | Publisher | Month & Year of Publication | ISBN Number |
|----|---|--|------------------------|----------------------------------|--|-----------------------------|-------------------|
| | in Emerging Countries | | | | Engineering and Communications Technologies, Springer Link | | |
| 3 | Emergent Converging Technologies and Biomedical Systems | Classification for Diagnosis of Breast Cancer Using Machine Learning Techniques with Hyperparameter Tuning | Sreekala K K | Jayakrushna Sahoo | Part of the Lecture Notes in Electrical Engineering, Springer Link | March 2022 | 978-981-16-8773-0 |
| 4 | Digital Health Transformation with Blockchain and Artificial Intelligence | An Overview of Artificial Intelligence for Advanced Healthcare Systems | Akarsh K. Nair | Ebin Deni Raj, Jayakrushna Sahoo | CRC Press | May 2022 | 9781003247128 |
| 5 | Computational Health Informatics for Biomedical Applications | Emerging Trends in Healthcare and Drug Development | Chinju John | Akarsh K Nair, Jayakrushna Sahoo | Apple Academic Press | June 2023 | 9781003331681 |
| 6 | Intelligent Internet of Things for Smart Healthcare Systems | Internet of Things in Smart and Intelligent Healthcare Systems | Akarsh K. Nair | Jayakrushna Sahoo | CRC Press | February 2023 | 9781032352862 |
| 7 | Handbook of AI-Based Models in Healthcare and Medicine | Drug Discovery Using Explainable AI ApproachesThe Current Scenario | Chinju John | Akarsh K Nair, Jayakrushna Sahoo | CRC Press | February 2024 | 9781003363361 |
| 8 | Lecture Notes in Electrical Engineering | Miniaturization Capability of the Pixel Antenna for Nanosatellite Footprints | Milind Thomas Themalil | Mayank Sharma, Mohammad Rammal | Springer | March, 2021 | 978-981-19-0311-3 |
| 9 | Trends in Research on Microstrip Antennas | Circularly Polarized T-Stub Coupled Microstrip Antenna Structure for WLAN | Milind Thomas Themalil | NIL | InTech | November 2017 | 978-953-51-3601-9 |
| 10 | Smart Distributed Embedded | Evolution of Healthcare Sector and Evolving | Jai Ganesh S | Arun, Dhivya | CRC Press, Taylor & Francis Group | 21 April 2023 | 9781003254119 |

| SN | Name of the Book | Name of the Chapter contributed by Faculty / Staff Member of IIIT Kottayam | Authors | Co-Authors | Publisher | Month & Year of Publication | ISBN Number |
|----|---|--|-------------------|--------------------------------|----------------------------------|-----------------------------|----------------------|
| | Systems for Healthcare Applications | Cyberattacks – A Summary | | | | | |
| 11 | Digital Transformation and Sustainability | Digital transformation and sustainability in the field of education sector | Jai Ganesh S | Eashwar Rathod | ABS Books | March 22, 2021 | 978-93-91002-09-1 |
| 12 | Nanodevices for Integrated Circuit Design | Edge AI- A Promising Technology | Kala S | Remya R, Nalesh S | Wiley | October 2023 | |
| 13 | System Assurances | Security and Challenges in IoT Enabled Systems | Kala S | Nalesh S | Elsevier | January 2022 | |
| 14 | Advanced Topics in Fuzzy Graph Theory | Connectivity & Wiener Indices of Fuzzy Graphs | Binu M | John N Mordeson, Sunil Mathew | Springer | January 2019 | 978-3-030-04214-1 |
| 15 | Lecture Notes in Networks and Systems | FML Framework: Function Triggered ML-as-a-Service for IoT Cloud Applications | Shajulin Benedict | Rachit Verma, Bhagyalakshmi M. | LNNS, Vol. 427, Springer | 2022 | 978-981-19-1018-0_7 |
| 16 | Smart Computing Techniques and Applications | Performance Issues and Monitoring Mechanisms for Serverless IoT Applications -- An Exploratory Study | Shajulin Benedict | | Springer-SIST series, Vol.225 | 2021 | 978-981-16-0878-0_17 |
| 17 | Soft Computing and its Applications | Energy Efficient Aspects of Federated Learning -- Mechanisms and Opportunities | Shajulin Benedict | | Springer-CCIS series | 2021 | 978-981-16-0708-0_4 |
| 18 | Advanced Informatics for Computing Research | Energy Consumption Analysis of R-based Machine Learning Algorithms for Pandemic Predictions | Shajulin Benedict | Prateek Agrawal, Radu Prodan | Springer - CCIS Series, Vol 1393 | 2021 | 978-981-16-3660-8_18 |
| 19 | Advanced Informatics for | Energy-Aware Edge Intelligence for Dynamic | Shajulin Benedict | | Springer, Vol 1368 | 2021 | 978-981-16-0404-1_11 |

| SN | Name of the Book | Name of the Chapter contributed by Faculty / Staff Member of IIIT Kottayam | Authors | Co-Authors | Publisher | Month & Year of Publication | ISBN Number |
|----|---|---|-------------------|--|--------------------------------------|-----------------------------|-----------------------|
| | Computing Research | Intelligent Transportation System | | | | | |
| 20 | Advances in Signal Processing and Intelligent Recognition Systems | Indian Semi-Acted Facial Expression (iSAFE) Dataset for Human Emotions Recognition | Shivendra Singh | Shajulin Benedict | LNCS Springer | 2020 | 978-981-15-4828-4_13 |
| 21 | Intelligent Cloud Computing | Energy Consumption Analysis of HPC Applications using NoSQL Database Feature of EnergyAnalyzer | Shajulin Benedict | Rejitha R.S. C. Bright | LNCS, Springer, Vol. 8993 | 2015 | 978-3-319-19848-4_7 |
| 22 | Advances in Parallel Computing | Formalizing Bottlenecks in Task-Based OpenMP Applications, in Advances in Parallel Computing | Shajulin Benedict | Michael Gerndt, Diana Michaela | IOS press, Vol. 25 | 2014 | 978-1-61499-381-0-103 |
| 23 | Applied Parallel and Scientific Computing | Automatic Performance Analysis of OpenMP codes on a scalable shared memory system using Periscope | Shajulin Benedict | M. Gerndt | LNCS, Springer Publishers, Vol. 7134 | 2012 | 978-3-642-28145-7_44 |
| 24 | Lecture Notes in Computer Science | Automatic Performance Analysis of Large-Scale Simulations | Shajulin Benedict | Matthias Brehm, M.Gerndt, Carla Guillen, Wolfram Hesse V. Petkovve | LNCS, Springer Publishers, Vol. 6043 | 2009 | 978-3-642-14122-5_24 |
| 25 | Tools for High Performance Computing | PERISCOPE: An Online-based Distributed Performance Analysis Tool | Shajulin Benedict | V. Petkovve, M. Gerndt | Springer Publishers, Dresden | 2009 | 978-3-642-11261-4_1 |

Table 16: **Book Chapters** Published by the IIIT Kottayam Faculties

| SN | Name of the Book Published by Faculty / Staff Member of III Kottayam | Authors | Co-Authors | Publisher | Year of Publication | ISBN number |
|-----|---|--------------------------|--------------------------------|----------------------------|------------------------|-------------------|
| 1. | Federated Learning Principles, Paradigms, and Applications | Dr. Jayakrushna Sahoo | Mariya Quiassa, Akarsh K. Nair | Apple Academic Press, Inc. | Forthcoming March 2024 | 9781774916384 |
| 2. | Wireless Communication | Dr. Jai Ganesh S | Muthumanickam S | Magnus Publications | June 2023 | 978-81-964292-0-1 |
| 3. | Cognitive Radio | Dr. Jai Ganesh S | Arun, Manikandan | Technical Publications | May 2018 | 978 93 332 1855 9 |
| 4. | Big City Bold Ideas | Dr. Shajulin Benedict | | Self-Publisher | January 2021 | 978-93-5408-352-5 |
| 5. | Deep Learning Techniques for Social Impact | Dr. Shajulin Benedict | | IOP Publisher | October 2022 | 978-0-7503-4022-9 |
| 6. | Applications of Mathematics of uncertainty | Dr. Binu M | Sunil Mathew, John N Mordeson | Springer | November 2021 | 978-3-030-86995-3 |
| 7. | Weighted and Fuzzy Graph Theory | Dr. Binu M | Sunil Mathew, John N Mordeson | Springer | August 2023 | 978-3-031-39755-4 |
| 8. | The Hidden Treasure of C | Prof. Rajiv V. Dharaskar | | BPB Publications, | April 1995 | 978-8170295501 |
| 9. | Funding Techniques of World Renowned Universities | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Feb 2013 | 978-9351100102 |
| 10. | Strategy to Develop World Class University | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Aug 2013 | 978-9351102281 |
| 11. | Technology-Storms Redefining World Class Universities | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Oct 2013 | 978-9351103080 |
| 12. | 113 Difficulties in Developing World Class Universities | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | March 2014 | 978-9351104704 |
| 13. | Washington Accord & Multi-Objective Integrated Model for Developing WCU | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Aug 2014 | 978-9351107422 |
| 14. | Innovation - Growth Engine for Nation - Nice Buzzword but Often Misunderstood | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Dec 2014 | 978-9351108948 |
| 15. | Secrets of Success of IIIT Model | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Jan 2016 | 978-9352133048 |
| 16. | Roadmap, Risk, Intricacies & Challenges of Setting up Overseas Campus | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | April 2016 | 978-9352133499 |
| 17. | Recipe for Disaster | Prof. Rajiv V. Dharaskar | - | Shroff Publishers | Sept 2016 | 978-9352134496 |

| SN | Name of the Book Published by Faculty / Staff Member of III Kottayam | Authors | Co-Authors | Publisher | Year of Publication | ISBN number |
|-----|---|--------------------------|------------|-----------------------|---------------------|------------------|
| 18. | Eradicating Black Economy Globally? Prefer Less-Cash than Horrrifying Cashless Economy | Prof. Rajiv V. Dharaskar | - | Kindle Publication | Jan 2016 | ASIN: B01N24O1K8 |

Table 17: **Books** (not book chapters) Published by the IIIT Kottayam Faculties

VII. Nurturing Innovation Culture through Two-Way Industry-Interface

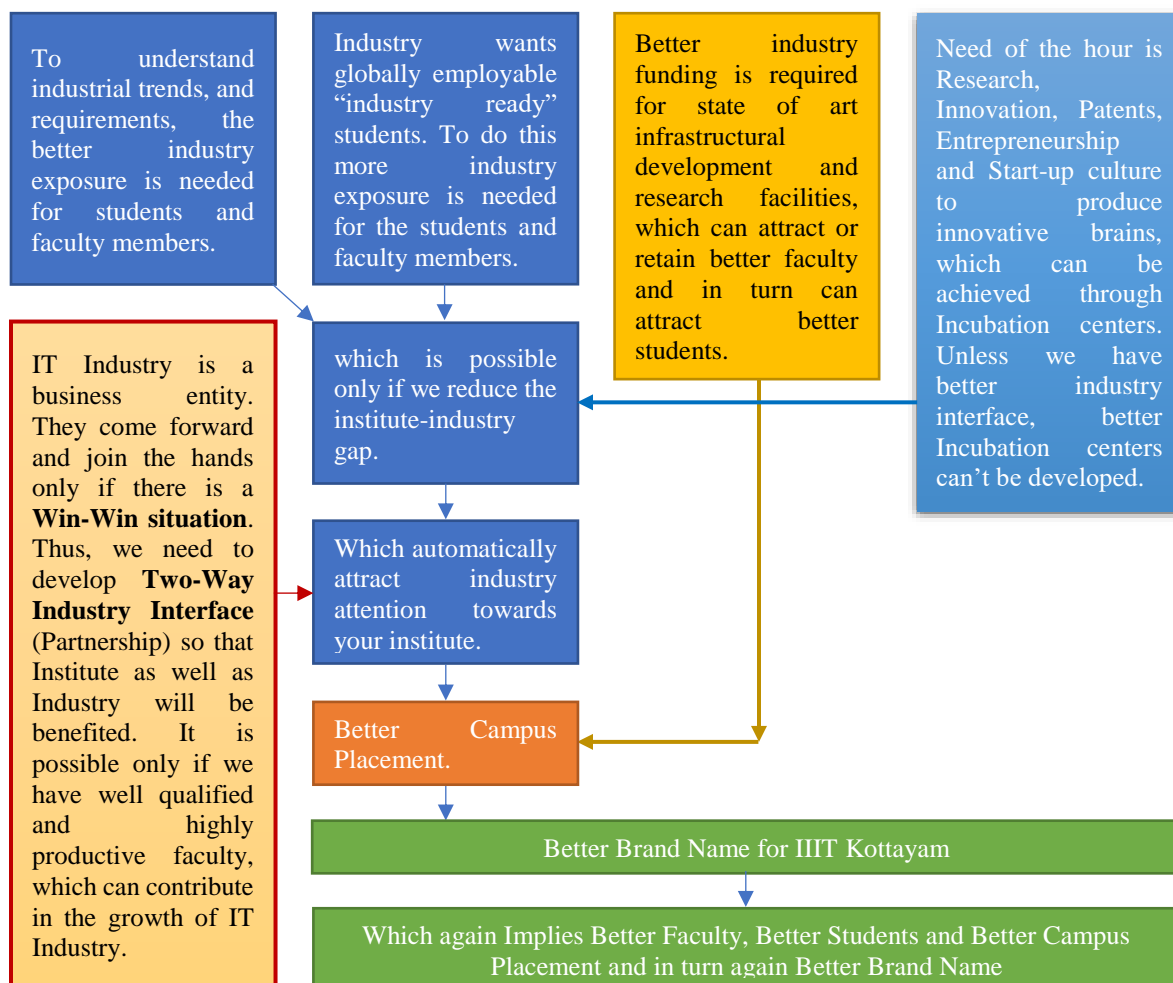


Fig. 02: Overall objectives for building a **Two-Way** industry interface for IIIT Kottayam

1. From January 2020, IIIT Kottayam has started a unique course in India for IT Working Professionals namely MTech in **AI & Data Science**, MTech in **Cyber Security**, MTech in CS specialization in **Big Data & ML**, MTech in **FinTech** and got an overwhelming response from IT Sector. IIIT Kottayam has admitted **270 students from 194 Leading IT Industries and Organizations**, which includes candidates with over 10 years of experience from top IT industries. This will dramatically enhance industry-based collaborative projects.

| SN | Industry | SN | Industry |
|----|--|-----|--|
| 1 | ABB Global Industries and Services Pvt Ltd | 98 | Kerala State Electronics Development Corporation |
| 2 | Ab-inBev/ CPG | 99 | Kimball Electronics |
| 3 | Accenture | 100 | KSVSCE |
| 4 | Actee, Denmark | 101 | Libano-Suisse Insurance Company |
| 5 | Adobe Systems India Pvt Ltd | 102 | Litebreeze infotech Pvt Ltd |

| | | | |
|----|---|-----|--|
| 6 | Air Liquide | 103 | Livewire India |
| 7 | Alcatel Lucent India Ltd (NOKIA) | 104 | Loblaw Companies Limited |
| 8 | Allianz Services Pvt Ltd | 105 | LSGD Engineering Wing Kerala |
| 9 | Altimetrik | 106 | Maersk GSC |
| 10 | Amazon | 107 | McFayden Consulting Software India Pvt Ltd |
| 11 | Amazon Development Center | 108 | MDRIFT Technologies Pvt Ltd |
| 12 | AOT Technologies Pvt Ltd | 109 | Medline India |
| 13 | Apollo Hospitals - Clinical AI Team | 110 | Mercedes-Benz Research & Development India Pvt Ltd |
| 14 | ATMECS Technologies Pvt Ltd | 111 | Microsoft |
| 15 | Atos-Syntel | 112 | Mindtree Ltd |
| 16 | Automation Anywhere | 113 | MiQ |
| 17 | AYATA Commerce | 114 | MMJS Dataphi |
| 18 | Bank of America | 115 | Moengage India Private Limited |
| 19 | Bank of India | 116 | Mphasis |
| 20 | BCH Electric Limited/ Electrical Switchgear | 117 | Muthoot Pappachan Technologies |
| 21 | Beginow | 118 | National informatics Centre |
| 22 | Bharat Sanchar Nigam Ltd | 119 | Navigant BPM (India) Pvt Ltd |
| 23 | Bliss Chocolates India Private Limited | 120 | Nettur Technical Training Foundation (NTTF) |
| 24 | Boeing Indian Pvt. Ltd | 121 | New Mangalore Port Authority |
| 25 | Bosch India | 122 | NKORR Technologies |
| 26 | BPCL Kochi Refinery | 123 | Nokia |
| 27 | Brillio Technologies Pvt. Ltd. | 124 | Nokia Networks |
| 28 | Caliczbee Solutions | 125 | Norton Lifelock |
| 29 | Capgemini | 126 | Novartis Healthcare Private Limited |
| 30 | C-DIT | 127 | Open Text Technologies |
| 31 | CGI | 128 | Oracle Financial Services Software Ltd. |
| 32 | Cholamandalam Investments & Finance Company Ltd | 129 | Oracle India Pvt Ltd |
| 33 | Cisco Systems India Pvt. Limited | 130 | Panasonic Automotive Systems Europe GmbH |
| 34 | Cleareye.AI | 131 | People10 Technosoft Private Limited |
| 35 | Cognizant Technology Solutions | 132 | PGS India Pvt Ltd |
| 36 | Continental | 133 | Philips India Limited |
| 37 | Credit Suisse | 134 | Planful |
| 38 | Dell Technologies | 135 | Publicis Sapient |
| 39 | Dexlock Technologies Pvt. Ltd | 136 | Qatar Armed Forces |
| 40 | Digital Mesh Softech India (P) Limited | 137 | Qburst Technologies Pvt Ltd |
| 41 | Digital Trust Technologies | 138 | Qualcomm India Pvt Ltd |
| 42 | DRDO | 139 | QuEST Global Japan |
| 43 | DXC Technology | 140 | Randstad Sourceright |
| 44 | ECCO Gulf | 141 | REC Ltd |
| 45 | EduBrisk Knowledge Solution Ltd | 142 | RKMC |
| 46 | Elemento Software Labs Pvt Ltd | 143 | RR Donnelley |
| 47 | Envestnet Asset Management India Pvt Ltd | 144 | Rupifi |
| 48 | Epiroc | 145 | RXLogix |
| 49 | Ericsson India Global Services Pvt Ltd | 146 | Samsung Electro-Mechanics |
| 50 | Experion Technologies | 147 | Sanofi |
| 51 | EY GDS India LLP | 148 | SAP Labs India Pvt Ltd |
| 52 | Faith Infotech | 149 | SatvatInfosol.Pvt.Ltd |
| 53 | Fifty-Hertz Limited | 150 | Shell Development Australia Pvt. Ltd |
| 54 | FIN Albina | 151 | Shell India |
| 55 | Financial Technologies | 152 | Shopalyst Technologies |
| 56 | FIS Global | 153 | Siemens |

| | | | |
|----|---|-----|---|
| 57 | Fiserv | 154 | Siemens Healthcare Private Limited |
| 58 | Flytxt | 155 | Siemens Healthineers |
| 59 | Forensic Science Lab, Thiruvananthapuram | 156 | Smiths Detection |
| 60 | Fortinet | 157 | Softland India Limited |
| 61 | Fujitsu Consulting India Private Limited | 158 | Software Incubator Pvt Ltd |
| 62 | GA Tech Industrial Electronic Pvt Ltd | 159 | Speridian Technologies |
| 63 | GCE Wayanad | 160 | SPSoft |
| 64 | Giridhar Eye Institute | 161 | Srivari Enterprises |
| 65 | GJ Infotech Pvt Ltd | 162 | Stanra Tech Solutions Pvt ltd |
| 66 | GLA University, Mathura | 163 | Star Services LLC Etisalat |
| 67 | Global Media Insight | 164 | State Street India Pvt Ltd |
| 68 | Grab Greco LLP | 165 | STPI |
| 69 | Haleon | 166 | Symantec |
| 70 | Harman International India Pvt. Ltd. | 167 | Symphony Talent |
| 71 | HCL Technologies | 168 | Tamil Nadu Electricity Board |
| 72 | HELP AG | 169 | Tata Consultancy Services |
| 73 | Here Technologies | 170 | Tata Elxsi |
| 74 | Hewlett Packar | 171 | Tata Power DDL |
| 75 | Honeywell | 172 | Tavant Pvt. Ltd. |
| 76 | HOTECC | 173 | Tech Mahindra Ltd |
| 77 | IBM India Pvt Ltd | 174 | Technicolor Connected Home India Pvt Ltd |
| 78 | IBS Software Private Limited | 175 | Telstra Global Business Services LLP |
| 79 | ICT Academy | 176 | Teradata India Pvt Ltd |
| 80 | Incture Technologies | 177 | The Mathrubhumi Printing & Publishing Co. Ltd |
| 81 | Inderprastha Engineering College | 178 | ThoughtSpot |
| 82 | INESH Smart Energy Pvt Ltd | 179 | TietoEvry India Pvt Ltd |
| 83 | Infosys Ltd. | 180 | Tiger Analytics |
| 84 | Ingram Micro India Pvt Ltd | 181 | Titan Company Limited |
| 85 | Intel Technology India Pvt Ltd | 182 | Tryzens India Pvt. Ltd |
| 86 | Intelizign Life Cycle service Pvt Ltd | 183 | Turquoise.llc |
| 87 | Jawahar Navodaya Vidyalaya | 184 | UCO Bank |
| 88 | JDT Islam Polytechnic College Calicut | 185 | UGAM Solutions |
| 89 | Jio Platforms Limited | 186 | UST Global Inc |
| 90 | JPMorgan Chase & Co | 187 | Vendor Globe Technology Solutions Pvt. Ltd. |
| 91 | JSW STEEL Ltd | 188 | VSSC, Indian Space Research Organization (ISRO) |
| 92 | K-DISC | 189 | Wells Fargo |
| 93 | Kendriya Vidyalaya Sangathan | 190 | Wipro Ltd |
| 94 | Kerala Council for Historical Research (KCHR) | 191 | Xceedance |
| 95 | Kerala Infrastructure Invest Fund Board | 192 | YNOT Infosolutions |
| 96 | Kerala Rail Development Corporation Ltd | 193 | Zlight |
| 97 | Kerala State Electricity Board | 194 | ZoomRx Healthcare Technology Services Pvt. Ltd. |

Table 18: MTech for Working Professionals – Till date **222 + 30 Employees of 194 Leading IT Companies and Organizations joined MTech for Working Professional courses**

2. Admitted a number of Ph.D. scholars from IT and Other Industries and they have preferred industry-based research projects, such as
 - a. CDAC-Bangalore
 - b. Cognizant technologies
 - c. ONGC
 - d. Skywalk Global Pvt Ltd and so forth.

| SN | One Credit Course for BTech by Industry Experts | Dates (Two weeks duration) | Name of the Expert |
|----|---|----------------------------|--|
| 1. | Blockchain technology | Oct 2020 | Mr. Bibin Manuel, TCS |
| 2. | IT workshop III: Industrial Perspective | 05.12.2022 – 16.12.2022 | Mr. Anmol Krishan Sachdeva, Hybrid Cloud Architect, Google |
| 3. | Big Data in Aerospace | 01.03.2020 – 10.03.2020 | Prof. S. S. Gokhale |
| 4. | Soft Skills and Holistic Development | 01.03.2020 – 10.03.2020 | Mrs. Beena Gokhale |

Table 19: One Credit Courses by Industry Experts

- Dr. Shajulin organized the 3rd iDEX outreach program of the Ministry of Defense on 23.9.2021 for startups, MSMEs, students, and innovators.
- Participation of Experts from Industry in Curriculum Development.
- MOU with Industries: IIIT Kottayam has signed MOU with various organizations for incubation centers, T&P activities, Coding Clubs and Research Collaborations.

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|------------|--|-----------|-------------|---|--|
| 1. | Active | Symmetrix Computer Systems Pvt. Ltd. | Bangalore | 23.09.2017 | By Dr. Shajulin Benedict for joint incubation project work | Mentoring support for startups of AIC |
| 2. | Active | Technical University Munich, Germany (Times Higher Education Top University Rank 30) | Germany | 18.04.2018 | By Dr. Shajulin Benedict for collaborative Courses and Research activities. | <ol style="list-style-type: none"> Continuous Faculty exchange programs. Our faculty has taken credit courses at TUM Germany and the TUM professor visited three times to IIIT Kottayam for conducting courses. Participation in International Conference Joint course on Cloud Computing (multiple times) IEE-Hacks prize Participation as resource person for webinar series. Startup exchange |
| 3. | Active | BOSE Information Technology | Germany | 28.10.2018 | By Dr. Shajulin Benedict for Joint incubation project work | Initial discussions held for offering mentoring support to the startups of AIC. |
| 4. | Active | Divella 3D Technologies Replicatron Research Labs Pvt. Ltd. | Chennai | 09.10.2018 | By Dr. Shajulin Benedict for joint incubation project work by | <p>Joint project development and patenting works with the Ph.D. student.</p> <p>Activities Done:</p> <ul style="list-style-type: none"> Joint research work with Basil (Ph.D. scholar) |

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|------------|--|-----------|-------------|--|---|
| | | | | | | <ul style="list-style-type: none"> They contributed two 3D printers to utilize them until the completion of the research work. |
| 5. | Active | Technolodge | Cochin | 25.11.2019 | By Dr. C D Mathew for T&P Cell | <ol style="list-style-type: none"> One of our students Mr. Rumaise had developed an App called UNARV for the employment enhancement of Foreign Returnees due to Covid. Discussion was held for Cooperative Bank Project |
| 6. | Active | University of New Brunswick, Canada | Canada | 02.12.2019 | By Dr. Ebin Deni Raj for joint Research collaboration | <ol style="list-style-type: none"> Participation in International Conference Involved UG students and one PhD scholar on a project Forest Inventory and Tree Measurement via 360° Spherical Images. Initiated the discussions on possible collaborations in the field of Cyber Security. |
| 7. | Active | Reliance NextGen - IT Park Ltd | Mumbai | 16.01.2020 | By Dr. Shajulin Benedict for Joint incubation project work. | <p>Supporting startups by listening / commenting on their pitch decks.</p> <p>Activities Done: Meeting with AIC Startups (Two meetings – one offline and one online) Startup review and panel.</p> |
| 8. | Active | DareToStart.org | Germany | 29.07.2020 | By Dr. Shajulin Benedict for joint incubation project work. | <ul style="list-style-type: none"> Joint Indo-European hackathon program was organized in 2020. Seed fund meetings. SISFS member and resource person. Initiation for student internships. Startup mentoring |
| 9. | Active | National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore | Bangalore | 03.10.2020 | By Dr. Bini A A for Research collaboration activities in the area of EEG Signal Processing, for the project titled “Machine Learning based | <p>Ms. Sreelakshmi Raveendran, PhD scholar under Dr. Bini AA is doing collaborative research on Brain-Computer Research at the Department of</p> |

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|------------|--|-----------|-------------|--|--|
| | | | | | Disorder of Consciousness classification using scalp EEG” by | Neurology, NIMHANS Bangalore. |
| 10. | Active | Build-GrunterZentrum, Austria | Austria | 30.12.2020 | By Dr. Shajulin Benedict for joint incubation project work by | Mutual visits of startups from India to Austria and vice-versa. Held up this year due to COVID-19. Participated in <ul style="list-style-type: none"> • Webinars • Hackathons • Startup exchange |
| 11. | Active | Sunrise Mentors Pvt. Ltd. (Coding Ninjas), New Delhi | New Delhi | 20.04.2021 | By Dr. Victor Paul to improve the programming and competitive coding skills of IIITK students, by | MoU signed in April. Initial discussion with Coding Ninjas Coordinator is done through online mode. The 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. |
| 12. | Active | Aster Digital Health Incubator | Bangalore | 26.4.2021 | By Dr. Shajulin Benedict for Incubation center | Discussions to establish a Centre of Excellence of ASTER at our campus were carried out based on the signed MoU. Research Project with faculties of IIIT-Kottayam |
| 13. | Active | DADB (Deutsche Akademie für Digitale Bildung / German Academy for Digital Education) | Germany | 04.01.2022 | By Dr. Ragesh G K for Digital learning, Content development, Testing, Evaluation and Research center for 5G Technologies. It's the First foreign collaborated learning center. | <ol style="list-style-type: none"> 1. First meeting held on 05th Jan 2022 2. Indo-German Workshop on disruptive technologies Initiated 3. The DADB officials visited the IIIT Kottayam Campus on 8th July 2022. 4. Initiated set up for “DADB Learning Centre” at IIIT Kottayam. The first course will be “Advanced 5G Communication Networks” |

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|------------|--|------------------------|-------------|--|--|
| | | | | | | 5. 5G private Spectrum License for Campus network- Initiated |
| 14. | Active | DPhi Tech BV | Belgium | 11.10.2021 | Dr. Rubell Marion Lincy G for Certificate courses and Research. | ACM-IIIT Kottayam and DPhi Belgium are organizing Boot Camp on “Introduction to Data Visualization using MATPLOTLIB” during 18-27 Feb 2022. |
| 15. | Active | Mibiz Cyber Forensics Laboratory | Technopark, Trivandrum | 01.11.2021 | By Dr. Panchami for joint Research, Consultancy works | Consultancy work |
| 16. | Active | Indocosmo Systems Pvt Ltd | Cochin, Kerala | 21.10.2021 | Joint Research, Consultancy works | Consultancy work |
| 17. | Active | TAIWAN-INDIA Joint Research Center on Artificial Intelligence, National Chung Cheng University, Taiwan | Taiwan | 24.11.2021 | By Dr. Ragesh G K for AI research. | Jointly writing a Journal paper on Federated Learning |
| 18. | Active | Manorama Horizon Online Certification Program | | 26.02.2022 | Dr. Ragesh for Certification programs and consultancy work. | Dr. Panchami has organized the first Certification Program “Workshop on Blockchain Technology and Cryptocurrency” on 28 to 30 June 2022. |
| 19. | Active | Kerala Police Cyberdome | Trivandrum | 27.03.2022 | By Dr. Ragesh G K for Cybersecurity / IoT / AI Research and Consultancy work. | Cryptocurrency Fraud detection/Investigation on real cases reported at Various police stations across Kerala ; Developing GPS based Handcuff |
| 20. | Active | IBM | India, USA | 20.05.2022 | By Dr. C D Mathew, Dr. Ebin Deni Raj, and Dr. M Radhakrishnan, Registrar IIIT Kottayam for Academic Partnership and joint research activities. | 1. Large Scale Collaborations on various levels. The IBM authorities visited IIIT Kottayam campus on 9 June 2022. 2. Discussed various possibilities for collaboration on AIOps |
| 21. | Active | UST Global | Trivandrum | - | By Dr. C D Mathew for T&P cell. | T&P activities |
| 22. | Active | Boat | Chennai | - | By Dr. C D Mathew for T&P cell. | T&P activities |
| 23. | Active | NeST Digital | Cochin, Kerala | | By Dr. Ragesh G K for Consultancy services on various software / | Many faculty members of IIIT Kottayam are actively involved in Advanced |

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|------------|--|--|-------------|--|--|
| | | | | | hardware domains; Joint research; Student Internships; and for establishing the NeST sponsored Lab at IIIT Kottayam. | Training programmes for employees of NeST Digital. |
| 24. | Active | Department of Information Security and Assurance, Concordia University of Edmonton, Alberta, Canada | University of Edmonton, Alberta, Canada | 28.02.2022 | By Dr. Panchami for Cyber Security Research | Analysis Lattice-based Public Key Encryption/ Key Encapsulation Mechanisms |
| 25. | Active | Rennova Solutions | Tamilnadu | 19.07.2021 | By Dr. Shajulin Benedict for AIC Start-up facilities. | Activities Done: <ul style="list-style-type: none"> • Mentor discussions with start-ups • IoT startup mentoring • Review panel |
| 26. | Initiated | HCL | Bangalore | 18 Oct 2023 | Large scale training activities and collaborative activities | Officials have visited the IIIT Kottayam campus on 21 June 2022. Discussed various activities and initiated few important planning. MOU Signed for Integrated MTech (BCA / MCA) |
| 27. | Signed | ADAM - Japan | Japan | 13 Nov 2022 | By Dr. Shajulin Benedict for Academic Collaborations. | Agreed activities during the meetings: Student internships (meetings are on progress) |
| 28. | Signed | Unternehmer, TUM-Germany (AIC) | Germany | 11 Nov 2022 | By Dr. Shajulin Benedict for AIC Collaborations | 1. Joint webinars / events 2. Startup exchange |
| 29. | Signed | Qkrishi Quantum Industry Lab by Monika Aggarwal and Prabha Narayan Prof. IIT Delhi | Delhi | 18.01.2023 | By Dr. Rubell Marion Lincy for G Quantum Centre of Excellence and Quantum Research Lab for research and consultancy in quantum computing, especially in the fields of finance, agriculture, chemistry, cybersecurity | Signed in the month of Jan 2023 |
| 30. | Active | University of Agder, Norway . | Norway | 21.02.2023 | Dr. Ragesh, Registrar Dr. Radhakrishnan, Academic Collaborations | Team from Norway has visited the IIIT Kottayam campus on 21-23 Feb 2023 for signing MOU. One PhD research scholar are doing collaborative research at Norway. In BTech-MS program, students of IIIT Kottayam |

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|---|--|----------------------|-------------|--|--|
| | | | | | | can complete term work of MS from Ager Norway without any tuition fees. |
| 31. | Recently signed | Rubber Research Institute (RRII), Kottayam | Kottayam | 16.03.2023 | By Dr. Suchithra, Dr. Shajulin Benedict, Dr. C D Mathew, and Dr. Divya Sindhu Lekha for Collaborative Research work. | Joint research works were initiated for undertaking them along with the students/startups. |
| 32. | Recently signed | National Forensic Sciences University | Gandhinagar, Gujarat | 24.02.2023 | By Dr. Balu and Dr. Ragesh G K for Academic / Research Collaboration | Recently signed |
| 33. | Recently Signed | Meta Lab | India | 17.03.2023 | Collaborative Activities | |
| 34. | Recently signed | CDAC Trivandrum | Trivandrum | 20.02.2023 | By Dr. Kala for Joint Research, Internship etc. | Research and Projects |
| 35. | Recently Signed | Chinmaya International Foundation Sodh Sansthan (CIFSS) | Ernakulam, Kerala | 07-09-2023 | Dr. Manu Madhavan, Dr. Nandhini J Warriar | Proposal submitted to Central Sanskrit University |
| 36. | Recently Signed | Linumiz | Coimbatore | 26-06-2023 | Dr. Selvi C, Dr. Manu Madhavan, Dr. Nandhini J Warriar, Dr Vengadeshwaran | R & D project initial work started |
| 37. | Recently Signed | aiRender | Bangalore | 10/7/2023 | Dr. Cinu C Killoor | Initial work started |
| 38. | Initiated | Kerala Engineering Research Institute (K.E.R.I), Irrigation Department of Government of Kerala | Thrissur, Kerala | - | By Dr. Ragesh G K for IoT sensor development for Dam Monitoring / Disaster Management; and other technical assistance on case by case Basis. | Initiated the agreement process. IoT sensor development proof of concept -initiated |
| 39. | Initiated | TCS | India | - | Dr. C D Mathew | Authorities of TCS visited IIIT Kottayam Campus on 21.06.2022. First round of discussion is over. Agreement process initiated. |
| 40. | MOU is Under Process but activities are already started | Klagenfurt University, Austria | Austria | | By Dr. Shajulin Benedict for Academic activities and joint project, student Exchange etc. | Agreed activities: <ul style="list-style-type: none"> • Student exchange programs. • Joint project initiated. • OEAD project completed. |
| 41. | Under Process | Miles Education | India | - | By Dr. Ebin Deni Raj for certificate courses. | - |
| 42. | Under Process | NVIDIA | | - | By Dr. Shajulin | - |

| S N | MoU Status | Organization | Location | Date of MOU | Initiated by Faculty Member & Purpose | Activities Carried Out |
|-----|---------------|---|----------------------|---------------------|--|--|
| 43. | Under Process | Sony India | India, Japan | - | By Dr. Ragesh G K | - |
| 44. | Under Process | KU-Leuven Belgium | Belgium | | | |
| 45. | Under Process | Universidad UFRO, Chile | Chile | | By Dr. Shajulin Benedict for Academic activities and the joint project works for students. | Agreed activities: <ul style="list-style-type: none"> • Internships via. Funded projects. • Student exchange and joint programs. (Planned meetings are organized). • Plan visit to university |
| 46. | Under Process | Universiti Technolgi, Brunei | | | | |
| 47. | Under Process | Indian Navy | Cochin | | Dr. Ragesh G K and Mr. Anuroop K B for Joint Research, Training, Academic Collaborations | |
| 48. | Under Process | Indian Institute of Space Science and Technology (IIST) | Trivandrum | | Dr. Ragesh G K for Academic / Research Collaboration | |
| 49. | Under Process | Rashtriya Raksha University | Gandhinagar, Gujarat | | By Dr. Balu for Academic / Research Collaboration | |
| 50. | Under Process | Indiana University USA | USA | | Dr. Ebin, Dr. Athira and team members | |
| 51. | Under process | Bose Information Technology, Germany | Germany | Ongoing (To revise) | Dr. Shajulin | 1. Joint hackathons 2. Knowledge Exchange |
| 52. | Uder Process | Optellent Inc. USA | USA | Ongoing | | 1. Joint product developments and research works 2. Initiated discussions |

Table 20: MOUs with various organizations in India and Abroad

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 an 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. Around 20 mentors, including industrial mentors from Hawaii, Telefon Germany, and Northeastern University USA, have registered for participating at AIC-IIIT Kottayam.

| SN | Joint Industrial Project | Funding Sanctioned in Rs. | Faculty Involved |
|----|-----------------------------------|---------------------------|------------------|
| 1. | Microsoft- AI for Earth Grant USA | 1271288 | Dr. Ebin |

| | | | |
|----|--|---------|------------------------|
| 2. | Volkswagen Germany | 4200000 | Dr. Ebin |
| 3. | BEL | 1416400 | Dr. Shajulin |
| 4. | Cymbient Technologies Pvt Ltd | 1000000 | Dr. Panchami V |
| 5. | aiRender Technology Pvt Ltd | 55920 | Dr. Divya Sindhu Lekha |
| 6. | Design and Development of Electronic nose for aroma analysis in Ayurveda | 926000 | Ragesh G K |

Table 21: Joint Industrial Research Project Funding

9. **Internships:** Most of the IIIT Kottayam students are going for industry internships after the second semester. Almost every student completes multiple Internships before joining VII Semester. In the last semester (i.e. semester VIII, December to July), almost every student goes for multiple Internships, except those who are interested to go for higher studies.



Fig. 03: Internship Plan for BTech students of IIIT Kottayam

10. Many Industry experts participated in different events at IIIT Kottayam

| SN | Event | Industry experts participated in different events at IIIT Kottayam - Name and Designation | Date | Invited by Faculty of IIIT Kottayam |
|----|---|---|------------|-------------------------------------|
| 1. | My Story Session- Life of an Entrepreneur (IIC activity) | Mr. Joy Sebastian, Techgentsia PVT Ltd. | 13.11.2021 | Dr. Ragesh G K |
| 2. | IPR- An Introduction (IIC activity) | Mr. Praveen Raj, Scientist, CSIR-NIIST, Trivandrum | 25.11.2021 | Dr. Ragesh G K |
| 3. | Advancements in Cyber Security | Mr. Manoj Abraham, Additional Director General of Police, Trivandrum | 27.12.2021 | Dr. Mathew C. D, Dr. Ragesh G K |
| 4. | Application of technology and innovation in Rubber (IIC Activity) | Dr. K. N. Raghavan, Executive Director, Rubber Board | 30.12.2021 | Dr. Mathew C. D, Dr. Ragesh G K |

| SN | Event | Industry experts participated in different events at IIIT Kottayam - Name and Designation | Date | Invited by Faculty of IIIT Kottayam |
|-----|---|---|-----------------------------|-------------------------------------|
| 5. | Intellectual Property Rights (IIC Activity) | Smt. Devika. R. Nair, Patent Examiner, India Patent Office, Chennai | 27.01.2022 | Dr. Ragesh G K |
| 6. | Ethics for Engineers | Dr. Ramesh Unnikrishnan, AICTE | 03.01.2022 | Dr. Mathew C. D, Dr. Ragesh G K |
| 7. | #QThursday Webinar #1 - Preparing for the Quantum Era | Dr. L Venkata Subramaniam, IBM India Research Laboratory, New Delhi | 27.01.2022 | Dr Rubell Marion Lincy G |
| 8. | How to become a Self-Taught Programmer | Mr. Prasanth Lalapeta, Co-Founder and UI Specialist at Fidisys | 10.7 .2020 | Dr. P. Victor Paul |
| 9. | ACM Workshop on "Design Thinking" | Mr. Jim J Seelan, Tata Consultancy Services | 24.12.2018 | Dr. Ebin Deni Raj |
| 10. | ACM - IEEE talks on Cloud Computing, Business Analytics | Mr. Mohan Kumar, Wipro | 19.10.2021, 26.10.2021 | Dr. Mathew |
| 11. | IOT Workshop | Mr. Subin Kuttapan, Oracle India | 14/02/2018 | Dr.. Ebin Deni Raj |
| 12. | Campus Placement Interviews | Ms. Rekha Mathews, Nisaan Digital | | Dr. Mathew CD |
| 13. | Webinar on AI and Applications using MATLAB | Dr. Spandhana Gonuguntla, MATLAB Bangaluru | 27.07.2020 | Dr. Bakkyaraj T |
| 14. | QThursday Webinar #3 Why do we want to take Quantum to Space? | Dr. Sonali Mohapatra, Space Applications Lead, Craft Prospect, Glasgow, Scotland, UK | 10.02.2022 | Dr. Rubell Marion Lincy G |
| 15. | QThursday Webinar #4 Quantum Computing for Finance | Dr. Rajiv Krishnakumar, Executive Director, R&D Team, Goldman Sachs, Geneva, Switzerland | 17.02.2022 | Dr Rubell Marion Lincy G |
| 16. | AICTE-FDP - Internet of Things | Dr. Deb Singdeo, MATLAB Pvt. Ltd, India | 14.9.2020 to 18.9.2020 | Dr. Shajulin Benedict |
| 17. | 3D Printing- DST-NIMAT | Shri. Rakesh Divella | 3.12.2018 | Dr. Shajulin Benedict |
| 18. | Patent Drafting | Mr. Anil Sharma, Delloitte | 27.12.2018 | Dr. Shajulin Benedict |
| 19. | Renewable Energy based IoT product | Mr. Joy Joseph, DML Industries | 19.8.2019 | Dr. Shajulin Benedict |
| 20. | iDEX Event | Mr. Kewyn Walter, Author of Digital First, Founder of Expeditors | 12.5.2019 | Dr. Shajulin Benedict |
| 21. | IEE Hacks | Mr. Manoj Nimbalkar, DareToStart, Germany | 27.11.2020 to 29.11.2020 | Dr. Shajulin Benedict |
| 22. | Webinars on Introduction to BlockChain, Fundamentals of Ethereum, Ethereum Tools And Frameworks | Ms. Abhilash P, Tata Consultancy Services | 9.11.2021 | Dr. Mathew CD |
| 23. | Webinar on Blockchain in Supply Chain | Mr. Murli Nahar, Tata Consultancy Services | 11.11.2021 | Dr Mathew CD |
| 24. | Webinar - Blockchain In Various Industries | Ms. Sonal Gupta, Tata Consultancy Services | 12.11.2021 | Dr Mathew CD |
| 25. | Blockchain Consortia Networks | Mr. Anantharaman Iyer, Tata Consultancy Services | 12.11.2021 | Dr Mathew CD |
| 26. | Cyber Security (Digital Forensics: Practitioners Perspective) | Mr. Nabeel Koya A, Cyber Security Group, CDAC | 12.11.2021 | |

| SN | Event | Industry experts participated in different events at IIIT Kottayam - Name and Designation | Date | Invited by Faculty of IIIT Kottayam |
|-----|---|---|------------|---|
| 27. | Cyber Security (Better Foundations for Secure Software Using Trusted Hardware And Verification) | Dr. Shweta Shinde, ETH Zurich | 13.11.2021 | |
| 28. | Cyber Security (Getting To Know Your Enemy And Yourself From Cyber Security Perspective) | Dr. Dittin Andrews, CDAC Thiruvananthapuram | 14.11.2021 | |
| 29. | Webinar - Application Security & OWASP Top 10 | Ms. Celine George, Cyber Security Manager, Cognizant, Ontario Canada | 06.07.2020 | Dr. J V Bibal Benifa Dr. Jayakrushna Sahoo |
| 30. | Webinar- Beyond 5G & 6G | Dr. Sukhdeep Singh, (Chief Engineer, Network R&D; Samsung Research Institute, Bangalore) | 22.07.2020 | Dr. Jayakrushna Sahoo Dr. J V Bibal Benifa |
| 31. | Webinar- Deep Learning | Dr. Sahana Prabhu (Data scientist ROBERT BOSCH) | 22.07.2020 | Dr. Mathew C D Dr. Jayakrushna Sahoo |
| 32. | Webinar- AI- The Key To Scaling Cyber Defence: Systematic Identification, Intelligent Automation, Ability to Action and Use Cases | Dr. Rizwan Ahmed (CTO, DELAPLEX) | 18.07.2020 | Dr. Jayakrushna Sahoo |
| 33. | Webinar- Revolutionizing of Real Estate on Blockchain | Mr. Suwendu Kumar Dash, (CTO, Oretes Consulting PVT. LTD.) | 17.07.2020 | Dr. Jayakrushna Sahoo Dr J V Bibal Benifa |
| 34. | Hands-On Workshop on Introduction to MATLAB | Dr. Ashita Gupta, Mathworks Inc, India | 14.09.2021 | Dr. Kala S |
| 35. | Webinar-IoT for Agriculture | Dr. Javed G S, Intel Bangalore & Kings, Consultant Education, Bengaluru | 11.06.2020 | Dr. Kala S |
| 36. | Webinar- Cloud computing to deep dive students over the trending areas for research in cloud computing | Mr. Mohan Kumar, Practice head at Wipro | 10.10.2021 | Dr Mathew CD |
| 37. | Webinar- Through and beyond Covid-19: Integrating social responsiveness and technology | Mr. Rejin Narayanan (Ingen Robotics) | | |
| 38. | Webinar- Through and beyond Covid-19: Integrating social responsiveness and technology | Mr. Jim Seelan (TCS) | | |
| 39. | PYNQ- Python Productivity on ZYNQ | Mr. Hemanth Kumar, Application, Engineer, CoreEL Bengaluru | 13.07.2020 | Dr. Manjith B.C. |
| 40. | IT Industry Expectation from Engineering Students | Dr. Rekha Mathews, HR, Nissan Global | 31.07.2020 | Dr. Mathew C. D Dr. Ebin Deni Raj |
| 41. | Placement Tips and Tricks | Aravind Warriar, HR Director at Rapid Value | | Dr. Mathew CD |
| 42. | Industry Expectations from Engineering Students | Mr. Robin Tommy, TCS Rapid Labs Head | | Dr. Mathew CD |
| 43. | CV Building for Jobs and Internships | Mr. Aravind Warriar, HR Director at Rapid Value | 12.06.2021 | Dr. Mathew CD |
| 44. | Webinar- Cloud Computing | Mr. Mohan Kumar, Wipro Ltd | 19.10.2021 | Dr. Mathew CD |
| 45. | Webinar- Business Analytics | Mr. Mohan Kumar, Wipro Ltd | 26.10.2021 | Dr. Mathew CD |

| SN | Event | Industry experts participated in different events at IIIT Kottayam - Name and Designation | Date | Invited by Faculty of IIIT Kottayam |
|-----|---|--|----------------------------|---|
| 46. | Webinar- Roadmap to Cracking Internships and Placement Interviews | Ms. Sakshi Sharma (SE Microsoft) | | |
| 47. | Webinar- 3D Computer Vision | Mr. Abhinav (Accenture Labs, Bangalore) | 11.02.2022 | Dr. Mathew C. D, Dr. Ragesh G K |
| 48. | Deep learning for computer vision using MATLAB | Ms. Alka Nair, Mathworks. | 05.09.2018 | Dr. Bini A A |
| 49. | FDP Session on “Sensors based Health Data Analytics” | Dr. Anand Mahalingam, Vice President - Data Labs, HDFC Life | 02.12.2021 | Dr. P. Victer Paul |
| 50. | FDP Session on trends in Sensor Data Analytics – Industry Perspective | Mr. Bibin Manuel, Lead - Microsoft Azure CoE, TCS | 03.12.2021 | Dr. P. Victer Paul |
| 51. | FDP Session on Sensors Data Analytics in the Weather Forecast Sector | Mr. Abhay Bharadwaj, Lead Embedded Systems Design Engineer, Fasal | 02.12.2021 | Dr. P. Victer Paul |
| 52. | ACM/CSI/IEEECS Research & Industry Symposium on IoT Cloud For Societal Applications (IoTCloud’21) | Dr. Debanand Singdeo, Engineer - Mathworks India Pvt. Ltd, India. | 03.05.2021 | Dr. Shajulin Benedict |
| 53. | ACM/CSI/IEEECS Research & Industry Symposium on IoT Cloud For Societal Applications (IoTCloud’21) | Mr. Sunderasa Subramanian, Director - NextGen QA Services (Americas), Infosys Limited, Atlanta Metropolitan Area, USA. | 03.05.2021 | Dr. Shajulin Benedict |
| 54. | Industry Expectations from Budding Engineers | Mr. Santosh Rao, Associate Vice President-HR, Toyota Industries Engine India | 18.03.2022 | Dr C D Mathew Dr. Ragesh G K |
| 55. | Webinar on “Towards Green Ai: Tracking and Curtailing the Carbon Footprint of Ai Python Code” | Shri Anmol Krishan Sachdeva, Hybrid Cloud Architect, Google, India | 06.07.2022 | Dr. Christina Terese Joseph & Dr. John Paul Martin |
| 56. | Workshop on “AI-DRIVEN IT AUTOMATION WITH AIOPS - The future of IT industry” | Shri Anwin Varghese, VP & Lead Engineer Wells Frago | 23.07.2022& 24.07.2022 | Dr. Christina Terese Joseph, Dr. John Paul Martin, Dr Sivaiah Bellamkonda & Dr. Keshab Nath |
| 57. | Webinar on “Placement Guidance for 2019 Batch” | Mr. AVS Aditya Vardhan (SE @ Shipy) | 07.07.2022 | Dr. Mathew CD |
| 58. | Webinar on “Industry Trends on Internships” | Mr. AVS Aditya Vardhan (SE @ Shipy) | 08.07.2022 | Dr. Mathew CD |
| 59. | Workshop on “AI-DRIVEN IT AUTOMATION WITH AIOPS - The future of IT industry” | Mr. Paolo Notaro, TUM Munich and Huawei | 23.07.2022 & 24.07.2022 | Dr. Christina Terese Joseph, Dr. John Paul Martin, Dr Sivaiah Bellamkonda & Dr. Keshab Nath |
| 60. | Workshop on “AI-Driven IT Automation with AIOPS - The future of IT industry” | Prateeti Mohapatra, Senior Research Engineer, IBM Research Lab | 23.07.2022& 24.07.2022 | Dr. Christina Terese Joseph, Dr. John Paul Martin, Dr Sivaiah Bellamkonda & Dr. Keshab Nath |

| SN | Event | Industry experts participated in different events at IIIT Kottayam - Name and Designation | Date | Invited by Faculty of IIIT Kottayam |
|-----|---|---|--|---|
| 61. | Workshop on “AI-driven IT Automation with AIOps - The future of IT industry” | Ruma Mukherjee, Principal Engineer – Analytics & DevOps Intel | 23.07.2022& 24.07.2022 | Dr. Christina Terese Joseph, Dr. John Paul Martin, Dr Sivaiah Bellamkonda & Dr. Keshab Nath |
| 62. | Workshop on “AI-driven IT Automation with AIOps - The future of IT industry” | Mr. Atri Mandal, Director, Machine Learning HEAL Software Inc. | 23.07.2022& 24.07.2022 | Dr. Christina Terese Joseph, Dr. John Paul Martin, Dr Sivaiah Bellamkonda & Dr. Keshab Nath |
| 63. | Webinar series on Cloud Security “Advanced Cloud Security Challenges specific to the current trends” | Dr. Deepnarayan Tiwari, Lead Blockchain, NPCI. | 11.06.2022 | Dr. Lavanya Settipalli, Dr. E. Silambarasan |
| 64. | FinTech Webinar Series: #1 FinTech in Various Business Functions | Mr. Ahsan Abdullah, Director FinTech, Tass & Hamjit | 11.07.2022 | Dr. Rubell Marion Lincy G. |
| 65. | FinTech Webinar Series: #2 FinTech Trends & Insights | Mr. Satyen Sharma, Vice President, State Street India | 13.07.2022 | Dr. Rubell Marion Lincy G. |
| 66. | A webinar on BioMEMS - Significance and its Applications | Dr. Anand Baby Alias, Biomedical Thermofluidics Lab, National Tsing Hua University, Taiwan | 30.9.2022 | Dr. Lidiya Thampi and Dr. Cinu C Kiliroor |
| 67. | Webinar Series on IoT Data Analytics | Satyadeep Behera of TCS Hyderabad | 08.11.2022, 10.11.2022 and 12.11.2022 | Shajulin Benedict, Goutam Mali, and Vengadeswaran S |
| 68. | Research Techniques and Career Development using IEEE | Mr. Nandalal of EBSCO | 08.11.2022, 10.11.2022 and 12.11.2022 | Shajulin Benedict, Goutam Mali, and Vengadeswaran S |
| 69. | One- Day Workshop on Fake News: Challenges in Fact-Checking | Talks delivered by Media and Cyber Security Experts | 30.11.2022 | Dr. Gayathri G.R. |
| 70. | Expert session Series | Mr. Anmol Krishan Sachdeva, Hybrid Cloud Architect, GOOGLE | 5.12.2022 to 16.12.2022 | Dr. John Paul Martin |
| 71. | Online Workshop on World Leading Industry Relevant Embedded, IoT, Robotics Design, Simulation, and Rapid Prototyping Software Proteus VSM | Navya Sri Pabbisetty, Embedded engineer, Cybermotion Technologies Pvt. Ltd., Hyderabad, India | 28.11.2022 | Dr. Koppala Guravaiah, Dr. Santhos Kumar, Dr. Selvi, Dr. Bhanu Chander |
| 72. | Webinar on Algorithmic Government: Concept & Research Trends | Dr. Rajan Gupta, VP- Research & Analytics, Analytica Datalab | 27.07.2022 | Dr. Jayakrushna Sahoo Dr J V Bibal Benifa |
| 73. | Webinar series #4 on Large-scale distributed graph processing: recent developments and Challenges | Dr. T. Ramalingeswara Rao, Data Scientist, Analytics & Insights, TCS, Hyderabad | 20.08.2022 | Dr. Jayakrushna Sahoo Dr J V Bibal Benifa |

| SN | Event | Industry experts participated in different events at IIIT Kottayam - Name and Designation | Date | Invited by Faculty of IIIT Kottayam |
|-----|--|---|--------------------------|--|
| 74. | 3-Day Hands on Workshop on Python Programming: A Communication Engineering Perspective | Dr. Sarath Gopi, Scientist, Naval Physical and Oceanographic Laboratory Kochi | 15.05.2023 | Dr. Rajesh G |
| 75. | Visualization: Decoding Performance using Microsoft Power BI | Mr. Amit Jain, Data Engineer, National Australian Bank | 16.05.2023 | Dr. Suchithra M S Dr. Lidiya Thampi |
| 76. | Webinar on Electronic Design Automation of Next-Generation Hardware Design | Mr. Arun Joseph STSM Master Inventor, IBM Electronic Design Automation | 6.03.2023 | Dr Ragesh Warrior Dr Mathew C D |
| 77. | Summit'23 @IIIT Kottayam | Dr. T. Ramalingeswara Rao, Data Scientist, Analytics & Insights, TCS, Hyderabad | 10.06.2023 | Dr. Cinu C Kiliroor, Dr. Lidiya Lilly Thampi, Dr. Jayakrushna Sahoo |
| 78. | Summit'23 @IIIT Kottayam | Mr. Sanju Varghese John, Associate Consultant, Technical Architect - Cloud Technology, Tata Consultancy Services, Infopark, Kochi | 10.06.2023 | Dr. Cinu C Kiliroor, Dr. Lidiya Lilly Thampi, Dr. Jayakrushna Sahoo |
| 79. | Certification Course on AI with specialization in Reinforcement Learning | Dr. Debanand Singdeo, Senior Engineer - Education Team, Mathworks | 09.07.2023 to 13.0.2023 | Dr. Rubell Marion Lincy G and Dr. Suchithra M S |
| 80. | Certification Course on AI with specialization in Reinforcement Learning | Dr. Dhruv Chandel, Senior Team Lead - Education, Mathworks | 09.07.2023 to 13.07.2023 | Dr. Rubell Marion Lincy G and Dr. Suchithra M S |
| 81. | Seminar on scope for technology integration in the rubber sector | Dr. Thomson Abraham Scientist Rubber Research Institute of India | 10.08.2023 | Dr. Suchithra M S |
| 82. | SERB Sponsored High-End Workshop (KARYASHALA) on "DISTRIBUTED INTELLIGENCE: Convergence of AI and Distributed Computing Systems" | Dr. Shridhar G. Domanal Enterprise Architect Consultant Accenture TS&A Bengaluru, India | 23.06.2023 | Dr. Jayakrushna Sahoo |
| 83. | SIKER 2023: School on Indian Knowledge system and Engineering Research | Dr. Rudra Murthy, IBM Research | 18.07.2023 | Dr. Manu Madhavan, Dr. Nandini J Warriar, and Dr. Selvi C |

Table 22: Industry experts participated in different events at IIIT Kottayam

11. Recognition from Prestigious Industry or organization to faculty members of IIIT Kottayam:

| SN | Organization | Recognition | Faculty of IIIT Kottayam |
|----|--------------|--|--------------------------|
| 1. | ACM | Dr. Ebin has been selected as an ACM Distinguished speaker in Data science by ACM (Association for Computing Machinery) for a tenure of three years. | Dr. Ebin Deni Raj |

| SN | Organization | Recognition | Faculty of IIIT Kottayam |
|-----|--|---|----------------------------|
| 2. | NASSCOM | Selection Panel member of prestigious "NASSCOM AI Gamechanger 2022" event https://nasscom.in/ai-gamechangers/ He is among the few members of Academic institutions. All others are Director / VP from premier IT Industries such as Microsoft, NetApp, Bosch, TCS, Myelin Foundry, Persistent etc. | Dr. Ebin Deni Raj |
| 3. | Aegis Graham bell | Jury member of the prestigious Aegis Graham bell award in the Data Science category. | Dr. Ebin Deni Raj |
| 4. | IEEE | Senior IEEE Member (In IEEE, only 10% of members out of 4 Lakhs could come under this category across the globe) | Dr. Ebin Deni Raj |
| 5. | IEEE | Senior IEEE Member (In IEEE, only 10% of members out of 4 Lakhs could come under this category across the globe) | Dr. Shajulin Benedict |
| 6. | IEEE | Senior IEEE Member (In IEEE, only 10% of members out of 4 Lakhs could come under this category across the globe) | Dr. Kala |
| 7. | IEEE | Senior IEEE Member (In IEEE, only 10% of members out of 4 Lakhs could come under this category across the globe) | Dr. Divya |
| 8. | Kerala Police Cyberdome Crypto Core Group | Member of Kerala Police Cyberdome Crypto Core Group | Dr. Ragesh |
| 9. | TUM Germany | Visiting and Guest Faculty to TUM Germany. | Dr. Shajulin Benedict |
| 10. | AICTE-SWAYAM | Validator, Translation of NPTEL | Dr. P Victor Paul |
| 11. | AICTE, Govt. of India | Evaluator, Toycathon-2021 | Dr. P Victor Paul |
| 12. | IEEE Kochi Subsection | Executive Council member- IEEE Kochi Subsection | Dr. Ragesh G K |
| 13. | AD Scientific Index | Listed in World scientific University Rankings Index | Dr. Ragesh G K |
| 14. | Birla Institute of Management Technology (BIMTECH) and Qkrishi | Master Instructor Quantum Computing for Managers | Dr. Rubell Marion Lincy G. |
| 15. | IEEE | Senior IEEE Member (In IEEE, only 10% of members out of 4 Lakhs could come under this category across the globe) | Dr. Suresh Chavhan |
| 16. | IEEE | Senior IEEE Member (In IEEE, only 10% of members out of 4 Lakhs could come under this category across the globe) | Dr. Divya Sindhu Lekha |
| 17. | IETE | Fellow of IETE (Membership No. F 235655) | Prof. Rajiv Dharaskar |
| 18. | CSI | Life Member of Computer Society of India (Membership No. 00173718) | Prof. Rajiv Dharaskar |
| 19. | Kerala Police Cyberdome | Member of Crypto-Currency Fraud Investigators Core group | Dr. Ragesh G K |
| 20. | IEEE Kochi Sub-Section | Executive Committee Member | Dr. Ragesh G K |
| 21. | DAAD Germany | DAAD Research Ambassador (2022 to 2025) | Dr. Shajulin Benedict |
| 22. | MeluXina Early Access Award for title "Deep Learning-Assisted Predictions for Energy Tuning of HPC Applications" from Luxembourg, Europe | MeluXina Early Access Award for title "Deep Learning-Assisted Predictions for Energy Tuning of HPC Applications" from Luxembourg, Europe | Dr. Shajulin Benedict |

| SN | Organization | Recognition | Faculty of IIIT Kottayam |
|-----|--|--|----------------------------|
| 23. | Mentor of Change - AIM (NITI Aayog – Mentor-India Program), India | Mentor of Change - AIM (NITI Aayog – Mentor-India Program), India | Dr. Shajulin Benedict |
| 24. | IEEE | IEEE - Brand Ambassador | Dr. Shajulin Benedict |
| 25. | Wadhvani Foundation, USA | Jury-Judge Global (Entrepreneurial) - Platinum Awardee (June 2021); Silver Awardee (June 2022) | Dr. Shajulin Benedict |
| 26. | MoE, Govt. of India | Innovation Ambassador - Ministry of Education, Govt. of India | Dr. Shajulin Benedict |
| 27. | IEEE | IEEE Senior Member | Dr Ebin Deni Raj |
| 28. | Hindustan Petroleum Corporation Limited (HPCL) | Delivered research talk to HPCL employees | Dr. Ebin Deni Raj |
| 29. | IEEE Global | Senior Member IEEE | Dr. Ragesh G K |
| 30. | U.S Department of State | Nominated by US Embassy to participate in an OPEN (Online Professional English) professional development course with a funding of INR 1 Lakh. | Dr. Gayathri G.R. |
| 31. | Indian Society for VLSI Education (ISVE) in partnership with Advanced Regional Telecom Training Centre, BSNL, Ranchi, Jharkhand in coordination with Birla Institute of Technology (BIT Mesra), Ranchi | Life Member (MEM ID: FM15022) | Dr. Milind Thomas Themalil |
| 32. | TCS and Pondicherry Central University | TCS Best Student Award | Dr P Victor Paul |
| 33. | Sri Manakula Vinayagar Engineering College (An Autonomous Institute) | Distinguished Alumni Award for Excellence in Academics | Dr P Victor Paul |
| 34. | Oracle | Certified Oracle Database exam (1Z0-006) | Dr Vengadeswaran S |
| 35. | IEEE | IEEE kerala section; appointed as Secretary- IEEE RFID Council and included as a core member in Conference Advisory Board (CAB)- IEEE Kerala section | Dr. Ragesh G K |

Table 23: Recognition from Prestigious organizations to faculty members of IIIT Kottayam

12. Industrial Projects of UG Students of IIIT Kottayam:

| SN | Name of Students | B.Tech. Batch | Industry | Status | Faculty Involved |
|----|---|---------------|-----------------------|-----------|-----------------------|
| 1. | Rumaise | 2018 | BEL | Completed | Dr. Shajulin Benedict |
| 2. | Rahul Barnwal, Rishab Srivastava, Aditi Shukla, Amritansh Singh | ECE-2020 | KrishTec R&D | Completed | Dr. Kala S |
| 3. | Ram Samarth | 2021 | RRR GigJobs Pvt. Ltd. | Ongoing | Dr. Shajulin Benedict |
| 4. | Kishan | 2021 | RRR GigJobs Pvt. Ltd. | Ongoing | Dr. Shajulin Benedict |

| SN | Name of Students | B.Tech. Batch | Industry | Status | Faculty Involved |
|-----|---|--|-----------------------------------|-----------|----------------------------|
| 5. | Guda Shivasai Reddy, N. Sai Hemanth, A. Santhosh | ECE-2020 | Vaidya Rathnam Research Institute | Ongoing | Dr. Ragesh G K |
| 6. | Rahul Barnwal | ECE-2020 | CDAC | Ongoing | Dr. Kala S |
| 7. | Karthik S, Vishakh P, Sankaran T P, Gurram Varshini | 2020 | Keltron Limited | Ongoing | Dr. Ragesh G K |
| 8. | Vishnu Ajith | 2018 | IBM Quantum | Completed | Dr. Rubell Marion Lincy G. |
| 9. | Rahul Barnwal | 2020-ECE | Reflections Info Systems | Completed | Dr. Kala S |
| 10. | Maruthi Panendhra | 2020 CSE | KOMHAR Services | Ongoing | Dr. Koppala Guravaiah |
| 11. | Maruthi Panendhra, Priyatham, Mahesh | 2020 CSE, 2021 Cyber Security and 2021 CSE | KOMHAR Services, USA | Ongoing | Dr. Koppala Guravaiah |

Table 24: Industrial Projects of UG Students of IIIT Kottayam

13. Ph.D. scholars involved in Industrial research work:

| SN | Name of student | Batch | Industry | Status | Faculty Involved |
|----|------------------|----------------------------------|------------------------|-----------|-----------------------|
| 1. | Bhagyalakshmi M. | Ph.D. (3 rd semester) | BEL, India | Completed | Dr. Shajulin Benedict |
| 2. | Sweety Kunjachan | Ph.D. (2022) | Vaidyaratnam, Thrissur | Ongoing | Dr. Kala S |
| 3. | VidyaSagar | Ph.D. | KOMHAR Services, USA | Ongoing | Dr. Koppala Guravaiah |

Table 25: Ph.D. scholars involved in Industrial research work

14. Faculty of IIIT Kottayam involved in Industrial Projects:

| SN | Name of Faculty | Industry |
|-----|-----------------------|--|
| 1. | Dr. Shajulin Benedict | Aster |
| 2. | Dr. Shajulin Benedict | RRR Gig Jobs Pvt. Ltd |
| 3. | Dr. Shajulin Benedict | BEL India |
| 4. | Dr. Christina M | Aster |
| 5. | Dr. Keshab Nath | Aster |
| 6. | Dr. Kala S | Vaidyaratnam Ayurveda Research Institute Thrissur |
| 7. | Dr. Kala S | NeST Digital |
| 8. | Dr. Kala S | CDAC |
| 9. | Dr. Kala S | KrishTec |
| 10. | Dr. Ragesh G K | Vaidyaratnam Ayurveda Research Institute, Thrissur |
| 11. | Dr. Ragesh G K | NeST Digital, Cochin |
| 12. | Dr. Ragesh G K | Kerala Police Cyberdome, Thiruvananthapuram |
| 13. | Dr. Ragesh G K | Kerala Engineering Research Institute (KERI), Thrissur |
| 14. | Dr. Ragesh G K | DADB, Germany |
| 15. | Dr. Ragesh G K | Royal Enfield, Chennai |
| 16. | Dr. Ragesh G K | Aerobits Developers PVT. Ltd. |
| 17. | Dr. Ragesh G K | Rubber Research Institute |

| | | |
|-----|-----------------------|---------------------|
| 18. | Dr. Koppala Guravaiah | KOMHAR Services USA |
|-----|-----------------------|---------------------|

Table 26: Faculty of IIIT Kottayam involved in Industrial Projects

VIII. Nurturing Innovation Culture through Internationalization



Most of the Foreign Universities are not like our fully funded universities. They need to generate their own revenue. The government support is limited. Thus, they are always interested to enhance their revenue generation and to provide the financial benefits to their nation. They come forward and join the hands with Indian universities only if there is a **Win-Win situation**. Thus, for developing international interface, the Indian Institutes should prefer a **Two-Way International Interface** so that Institute, as well as foreign universities, will be benefited. That is, apart from our interest we need to consider interest of foreign universities, which are shown in following 4 blue boxes. They are always interested to reach lakhs of young technical personal through Indian institute for building their brand name and in turn revenue generation. It is possible only if the Indian institute has well-qualified and highly productive faculty, talented students and huge networking of young technical talent across the nation, which is developed by conducting hundreds of events by the institute such as webinars, conferences, seminars, workshops, FDPs, etc. This talent pool could contribute to the growth of foreign university as well as the economy of their nation. That is why, the foreign universities are interested to collaborate with only such kind of Indian institutes.

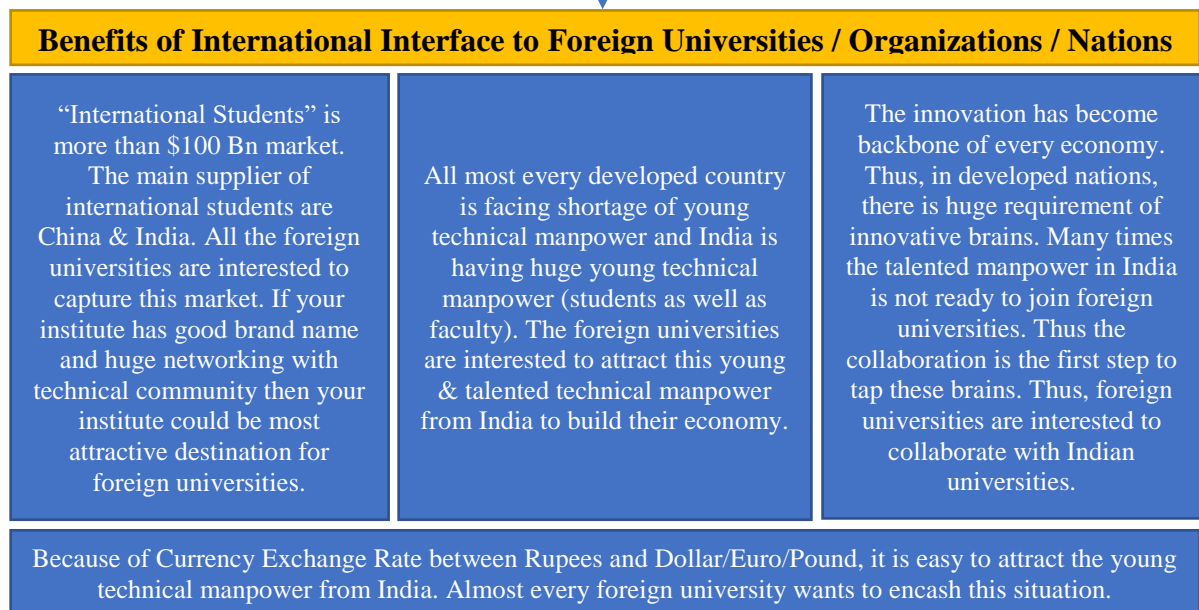


Fig. 04: Two-Way International Interface is possible only if there is a Win-Win Situation

International Linkages and Collaborations of IIIT Kottayam **Spread Over More Than 48 Countries within Just 7 Years**

Algeria, Australia, Austria, Bahrain, Belgium, Brazil, Brunei, Canada, Chile, China, Colombia, Denmark, Egypt, European Union (EU), Finland, France, Germany, Iran, Ireland, Italy, Japan, Kuwait, Luxembourg, Malaysia, Mexico, Netherlands, Norway, Oman, Pakistan and Bangladesh (via TUM Germany), Portugal, Qatar, Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Turkey, UAE (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain), UK, USA

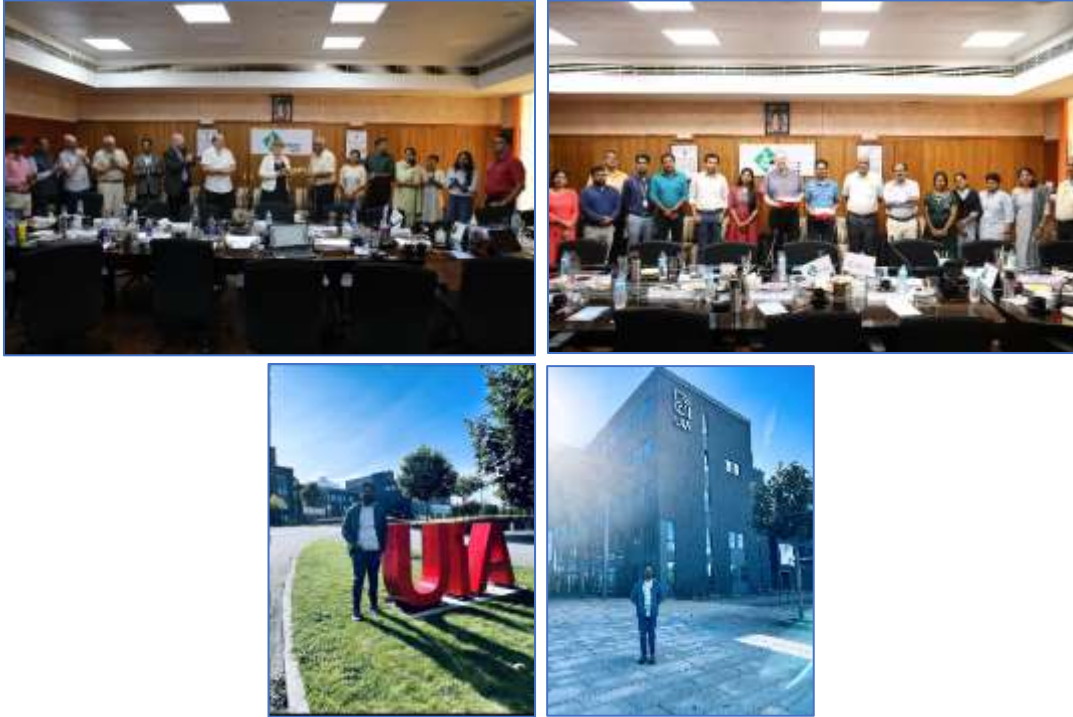


International Collaboration - USA



Two Visits of delegates of **Indiana University USA**: Vice President Dr. Hilary Kahn, Dr. Mathew Palakal, Dr. Ian S. McIntosh Director of International Partnership, Dr. Kenneth Carow, Sharon Kandris, Atibha Varma-Nelson Zafeena on 13 Oct 2023 and 23 Oct 2023

International Collaboration - Norway



Two visits of Delegation of **University of Agder Norway** (03 May 2023 and 21 Feb 2023) along with Norway Visit of Prof. Linga Reddy Cenkeramaddi, Department of ICT, Pål Grandal, Senior Adviser, International Coordinator, Geir Øivind Kløkstad, Senior Adviser, Coordinator Academic Affairs.
Due to this MOU, the IIIT's PhD research scholar is doing collaborative research at University of Agder Norway

International Collaboration - Australia



On 19th Oct 2022, Ms. Sarah Kirlew **Australian Consulate-General** Chennai has visited IIIT Kottayam along with Mr. Samuel Myers, Vice Consul and Chair of Direct Aid Program, Mr Arun PS, Policy Analyst and Janaki Sreeram

International Collaboration - Japan



Delegation from Human Resocia **Japan** visited IIIT Kottayam on 29 June 2022 and 11 Oct 2023 for Mutual Collaborations and Recruitment. The team members are Mr. Yuji Sakaguchi - HR GIT division recruitment Manager, Mr. Takuya Kagotani - HR GIT division recruitment In charge Senthil Sellappan - Fuji Academy Pvt Ltd. Last year, for Japanese company, they have selected 2 BTech students and this year 4 BTech students and gave PPO with Rs. 23 Lakh salary.

International Collaboration - Germany



On 8th July 2022, the delegates Dr.-Ing. Carsten S. Schröder, Mr. Shone Jose, Dipl.-Wi.-Ing. Thomas Höschele Managing Director, Campus Genius, Mr.Neelesh Lankireddy from DADB Germany visited IIIT Kottayam to start DADB **Germany** Learning Center.

International Collaboration - Germany



On 27-28 Nov 2019, Prof. Dr. Petra Ahrweiler, TISSS Lab, Institute of Sociology Johannes Gutenberg University Mainz Germany and Team members for AI FORA project, which is funded by the VolkswagenStiftung for Artificial Intelligence and the Society of the Future.

International Collaboration – Spain



12 Countries are involved in the Volkswagen project. For this project, 4 IIIT Faculty members visited Spain from 30th April to 8th May 2023.

International Collaboration - Germany

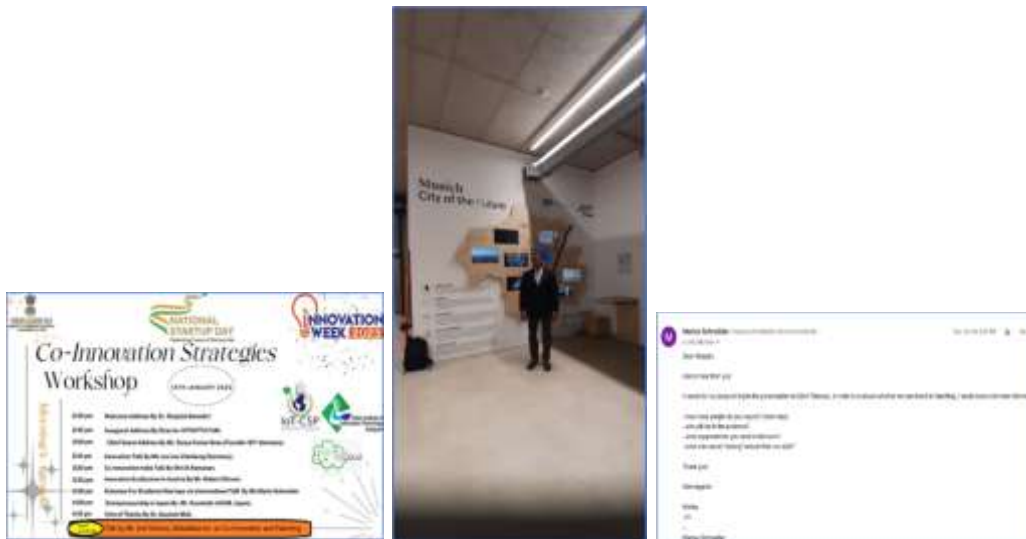


Prof. Michael Gerndt, Professor of TUM Germany visited three times to IIIT Kottayam for conducting Credit courses as well as International Hackathon etc. and Dr. Shajulin faculty of IIIT Kottayam is a visiting faculty of TUM Germany.

Period: 9.10.2017 to 30.10.2017
 Period: 28.10.2018 to 3.11.2018
 Period: 29.10.2019 to 31.10.2019
 Period: 29.11.2021 to 12.12.2021

Jointly organized Workshop on "IoT Platforms - Programming and Essentials" - with TUM-Germany, Dept of CSE, AIC - IIIT Kottayam, and IoT Cloud Research Laboratory - 7 to 12 Sep 2023. Prof. Michael was the Keynote address speaker for the IEEE International Conference ICITIIIT'20

International Collaboration - Germany



Dr. Shajulin has signed the LOI (Letter of Intent) with Unternehmer TUM, Germany – An incubator in Munich, Germany. On 7 June 2022, he has future collaboration plans of AIC with the CEO of Unternehmer-TUM. Ms. Marisa Schneider of UnternehmerTUM explained the startup ecosystem of TUM-Germany on 16 Jan 2023. She participated in the review assessment of the IEE-Hackathon winner of our startup in TUM-Germany (Sponsored by TUM-Germany) on 22 Feb 2023.

International Collaboration - Canada



On 2nd Dec 2019, Dr. John Kershaw, Vice President Brunswick University, Canada has visited IIIT Kottayam for signing the MOU, and Dr. Virendra Bhavsar Brunswick University, Canada participated in the IEEE International Conference at IIIT Kottayam on 12 Feb 2020.

International Collaboration - UK



IIIT Kottayam faculty Dr. Ragesh visited Glasgow University UK under the British Council Scheme from 1st Aug to 7th Aug 2022.

International Collaboration - Austria



On 15 July 2022, IIIT Kottayam faculty Dr. Shajulin visited University of Klagenfurt, Austria as a visiting faculty and for collaborative research activities.

International Collaboration - Taiwan

INDO-TAIWAN 2-DAY ONLINE WORKSHOP ON INTELLIGENT IOT SYSTEMS
HOSTED BY: IIIT KOTTAYAM

RESOURCE PERSONS

Dr. Pao Ann-Hsiung, Dr. Adrian C.K. Chiang
NATIONAL CHUNG CHENG UNIVERSITY, TAIWAN

Dr. Chiu C. Kijiroo, Anuroop KB, Dr. Sivath B
IIIT KOTTAYAM

Dr. Hari Govindan
NIT PUDUCHERRY

FACULTY COORDINATORS:
DR. RAGESH GK
DR. JAYAKRUSHNA SAHOO

FREE REGISTRATION

About the Speaker

- Prof. Ann-Hsiung (You may call me 011-81-888)
- Education: Ph.D. in EE, National Tsing-Tung University, Taiwan
- Education: MS, Taiwan
- Chief Information Technology Officer (CIO), State of CT, National Cheng-Cheng University (2013), Taiwan
- Professor, Dept. of Computer Science and Info. Engineering, IISZ
- Research: Research Center for AI and Sustainability, CNS, Taiwan
- Research: India-Taiwan Joint Research Center on Artificial Intelligence (JRCI) Model and IISZ
- Industry Professional: Intel University, Intel & IBM India
- Former Positions: Director General of Intelligent Technology Department, Central High School, Taiwan (2010)
- MOBILE: 847076247
- Open: Email: annhsiang@ccu.edu.tw; annhsiang@iiitkottayam.ac.in

AI Research @CCU

- Precision Medicine**
 - Professor's Research: Disease Evaluation
 - Data-intensive Healthcare Decision
 - Smart Fall Detection
- Sustainable Smart City Integrated Connected and Control Center**
 - IEEE IoT (Kohonen, K-Means, K-Means) and Automatic Deployment of AI Models
 - IoT-Edge AI and Image Recognition (IoT-Routing, IoT-Logging, etc.)
 - Introducing AI-Urban and Smart Environment (IoT-Routing, IoT-Logging, etc.)
 - Hyperconnected Image-based Pollution Classification
 - Connected Vehicle IoT-Applications
- Big Data Analytics for Evaluation on Long-term Fishing Status**
 - Overcoming Confusion Detection using AI and Big Data Analytics

In 2021, initiated the activities to establish the Taiwan-India (IIIT Kottayam) Joint Research Center on Artificial Intelligence with the help of National Chung Cheng University, Taiwan and signed MOU. On October 27-28, 2022 IIIT Kottayam and National Chung Cheng University has jointly organized Indo- Taiwan online Two-days workshop on “Intelligent Internet of Things”, (Sessions taken by faculties from CCU Taiwan, IIIT Kottayam and NIT Puducherry).

International Collaboration - Luxembourg



On 4 May 2021, Dr. Shajulin Benedict got the MeluXina Early Access Award for the title "Deep Learning-Assisted Predictions for Energy Tuning of HPC Applications" from Luxembourg, Europe and allowed to utilize their supercomputer with resource grant worth lakhs along with two Ph.D. scholars.

International Collaboration - Belgium



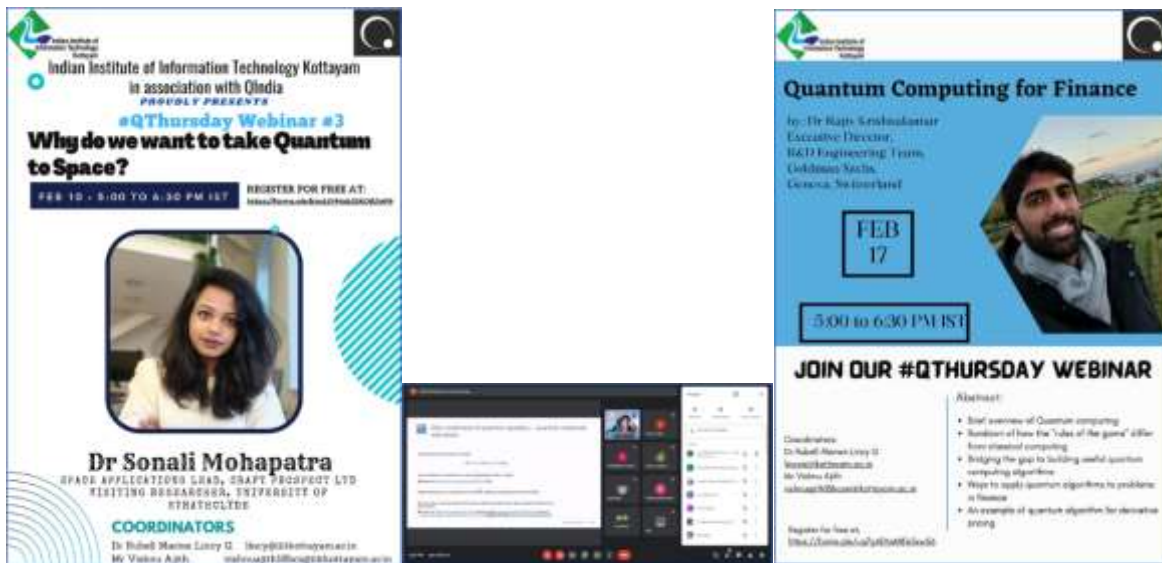
ACM-IIIT Kottayam and DPhi Belgium organized Boot Camp on “Introduction to Data Visualization using MATPLOTLIB” during 18-27 Feb 2022.

International Collaboration - Germany



Mr. Surya Bose (Grandson of great Indian Leader Subash Chandra Bose), Bose Information Technology, Germany involved in research activities of “IoTCloud Research Group” of IIIT Kottayam and interacted with Ph.D. scholars of IIIT Kottayam and the incubation manager of AIC.

International Collaboration – Scotland and Switzerland



Dr. Lincy has been involved in Quantum Computing research and collaborated with Dr. Sonali Mohapatra at the University of Strathclyde Glasgow, Scotland and Dr. Rajiv Krishnakumar, Goldman Sachs, Geneva, Switzerland.

International Collaboration – Mexico



Dr. Lincy is invited for an invited session for the Students of Tecnológico de Monterrey (Tec de Monterrey), a Mexican private university with QS World University Rankings 184 in 2023 as part of their global classroom initiative.

International Collaboration - Austria



In 2020, Dr. Shajulin and AIC have initiated collaborative activities with Build-Gundurzentrum – Austria and the CEO of Build-Austria has signed an MoU with AIC to establish tie-up with international incubators.

International Collaboration - Austria



Dr. Shajulin invited Prof. Radu Prodan Klagenfurt University, Austria served as Resource Person and Advisory board member of IIIT-Kottayam conference. On 27 Feb 2019, he delivered a talk on IoT.

International Collaboration - Singapore



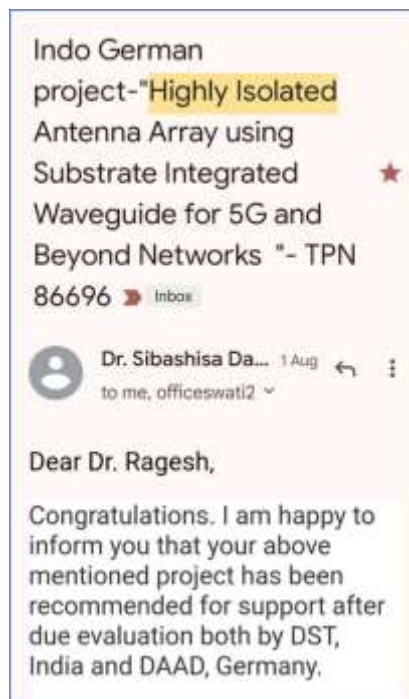
Dr. Manjith B.C. got sponsorship for collaborating on 6G TERACOMM SoC project with Prof. Ranjan Singh at TeraX Labs, Nanyang Technological University, Singapore.

International Collaboration - USA



On 17th Jan 2023, Dr. Koppala Guravaiah got the Industry Project title "ETL Tools & SQL Automation from on-prem technologies to Cloud" from Komhar Services, USA grant worth \$ 5,840 (USD) for one year. Four (1 PhD & 3 B. Tech) students are working on the project and phase I of the project was launched on 15 October 2023.

International Collaboration - Germany



Dr. Ragesh G K along with the University of Offenberg Germany, working on a DST- DAAD funded project worth Rs. 35 lakhs. The area of research is "Hightly Isolated SIW Antenna for 5G and Beyond".

International Collaboration - UK



The EPSRC UK-India funded Rs. 39 Lakhs to Dr. Ragesh GK for the first pilot project for future network initiative to address technical, engineering and business challenges of designing and building future telecommunications infrastructure.

International Collaboration - USA

Obtained access time to IonQ Trapped Ion Quantum Computer worth \$10,000 for the proposal "Post-Quantum Public Key Infrastructure" as part of IonQ research Credits Programme by IonQ, Inc. USA. PI: Mahima Mary Mathews, Co-PI: Dr. Panchami V



International Collaboration – Bangladesh, Pakistan, Romania, Taiwan

Dr. Shajulin Benedict is guiding the Master's Thesis of a student from Bangladesh Md Forhad Hossain. He has already guided students from different nations such as Fahad Rana from Pakistan, Mohammad, Emanueal Oscar from Romania, Yu-Ju Chiu from Taiwan



International Collaboration - Taiwan



IIIT Kottayam Chief Innovation Officer Mr. Anuroop K B participated in the event “Taitronics AIoT Taiwan 2023” which is the world’s Largest IoT Event. Collaborated with various companies to streamline custom component procurement and research and development efforts for in-house startups and students at the institute.

International Collaboration - UAE



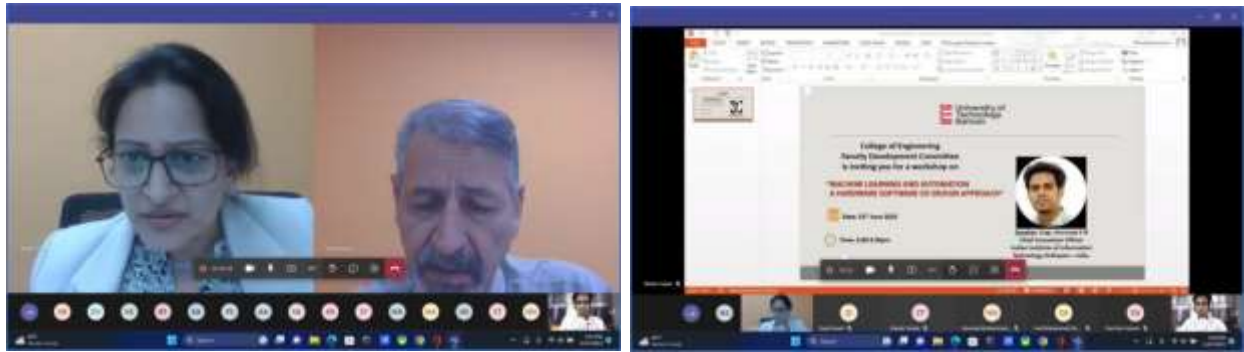
Mr. Anuroop K B, Chief Innovation Officer of IIIT Kottayam, participated in the Expand North Star event at Gitex Global 2023 in Dubai. Products from Gyaan Innovation Lab, IIIT-Kottayam, were showcased at the world's largest startup event.

International Collaboration - Saudi Arabia



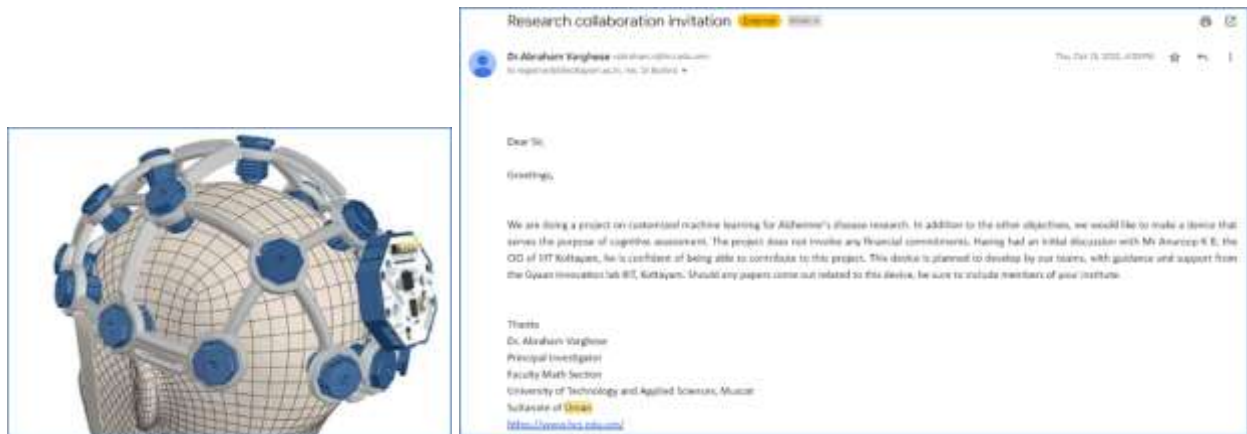
Recently, the Saudi Arabia Delegation as well as Shree. Ashwini Vaishnaw Minister of Railways of India experienced the metaverse platform designed by Gyaan Innovation Lab IIIT-Kottayam at G-20 Summit. The platform was developed for the Kerala Police Cyberdome.

International Collaboration - Bahrain



Mr. Anuroop K B, Chief Innovation Officer of IIIT Kottayam, shared the specifics of his ongoing research on "Hardware-Software Co-Design Approach" with the esteemed faculty members of the University of Technology Bahrain.

International Collaboration - Oman



Mr. Anuroop K B, Chief Innovation Officer of IIIT Kottayam, collaborated with the Oman University of Technology and applied sciences faculty Dr. Abraham Varghese for the co-development of the project, which customized Machine Learning for Alzheimer's disease research.

International Collaboration - UK

In 2022, Dr. Shajulin got Rs. 15 Lakhs grant from the British Council Scheme with Cardiff University, UK and IIT-Ropar for "Edge Computing and Analytics".

International Collaboration - Germany

In 2018, Dr. Shajulin Benedict faculty of IIIT Kottayam collaborated with DareToStart.org, Germany for Joint incubation project work and organized a Joint Indo-European hackathon program in 2020.

International Collaboration - Canada

In 2022, Dr. Panchami, HoD of Cyber Security Department initiated the Cyber Security Research research activities with Department of Information Security and Assurance, Concordia University of Edmonton, Alberta, Canada.

International Collaboration - Brunei

Active Collaboration is with Universiti Teknologi Brunei

International Collaboration - Chile

In 2023, Dr. Shajulin Benedict initiated collaborative research activities with Universidad UFRO, Chile.

International Collaboration – Netherlands

Dr. Shajulin Benedict along with 2 BTech-MS students Rachit Verma and Bhukya Aakash were involved in collaborative research work with Utrecht University Netherlands.

Other International Collaborative Activities

| Activity | Number |
|--|---------------|
| International Speakers from 15 countries (Australia, Austria, Canada, Denmark, Dubai, Germany, Ireland, Japan, Qatar, Singapore, Spain, Switzerland, Taiwan, UK and USA) participated in different events organized at IIIT Kottayam | 41 |
| Guided Ph.D. / M.Tech./ M.Sc. Thesis of foreign universities by IIIT Kottayam Faculty members | 03 |
| Collaborative Research of BTech students of IIIT-Kottayam with International Universities | 02 |
| Collaborative Research of PhD students of IIIT-Kottayam with International Universities | 01 |
| Evaluation of Ph.D. / M.Tech. / M.Sc. Thesis of foreign universities by faculty members of IIIT Kottayam | 03 |
| International Events organized | 15 |
| Guest Speakers / Visiting Faculty from IIIT Kottayam to foreign nations | 3 |
| Reviewer, Editor, Invited Talks, Keynote of International Journals and Conferences at foreign countries | More than 360 |
| Research publications in international journals and conferences at Abroad | Over 700 |

Fig. 4A: International Collaborations – IIIT Kottayam

IIIT Kottayam is focusing on internationalization through:

1. Live MOUs with top-ranking foreign universities and industries from Austria, Germany, Canada, Belgium, Taiwan, etc. MoU for faculty and student exchange with TUM, Germany. As per Times World University Ranking, TUM Germany is 43rd Ranked topmost university in the world.

| SN | MOU with International Organization | Location |
|-----|--|----------|
| 1. | Technical University Munich, Germany | Germany |
| 2. | BOSE Information Technology | Germany |
| 3. | University of New Brunswick, Canada | Canada |
| 4. | DareToStart.org | Germany |
| 5. | Build, Austria | Austria |
| 6. | DPhi Tech BV | Belgium |
| 7. | DADB (Deutsche Akademie für Digitale Bildung / German Academy for Digital Education) | Germany |
| 8. | TAIWAN-INDIA Joint Research Center on Artificial Intelligence, National Chung Cheng University, Taiwan | Taiwan |
| 9. | Department of Information Security and Assurance, Concordia University of Edmonton, Alberta, Canada | Canada |
| 10. | National Chung Cheng University | Taiwan |
| 11. | Adam-I | Japan |

Table 27: MOU with International organizations (part of Table 14)

2. Submitted or sanctioned 35 collaborative research projects with the following 13 countries

| SN | Country | Number of Projects from each country |
|-----|---------------------|--------------------------------------|
| 1. | Austria | 2 |
| 2. | Brazil | 4 |
| 3. | Brunei | 1 |
| 4. | European Union (EU) | 2 |
| 5. | Germany | 3 |
| 6. | Italy | 1 |
| 7. | Japan | 3 |
| 8. | Malaysia | 1 |
| 9. | Portugal | 1 |
| 10. | Russia | 1 |
| 11. | Serbia | 1 |
| 12. | UK | 5 |
| 13. | USA | 10 |
| | Total | 35 |

Table 28: Total of 35 Collaborative research projects applied with 13 different countries

3. International Research Events organized / organizing by IIIT Kottayam:

| SN | International Events Organized by IIIT Kottayam |
|--|--|
| International Conferences – Organized 6 | |
| 1. | Organized the 5 th IEEE International Conference on Innovative Trends in Information Technology ICITIIT'24 on 15-16 March 2024. https://icitiit24.iiitkottayam.ac.in/ |

| SN | International Events Organized by IIIT Kottayam |
|--|---|
| 2. | Organized the 4 th IEEE International Conference on Innovative Trends in Information Technology ICITIIT'23 in Feb 2023. |
| 3. | Organized the 3 rd IEEE International Conference on Innovative Trends in Information Technology ICITIIT'22 on 12-13 Feb 2022. |
| 4. | Organized the 2 nd IEEE International Conference on Innovative Trends in Information Technology ICITIIT'21 in Feb 2021. |
| 5. | Organized the 1 st IEEE International Conference on Innovative Trends in Information Technology ICITIIT'20 in 12-13 Feb 2020. |
| 6. | Organized the 1 st IEEE international conference iQCCHES'23 on 15-16 September 2023. |
| Organizing 3 more International Conferences in 2024 | |
| 7. | Organizing flagship international conference of IEEE Kerala section namely SPICES in Sept 2024. https://ieeespices2024.iiitkottayam.ac.in/ |
| 8. | Organizing Prestigious 14 th International Conference SPACE (Security, Privacy and Applied Cryptographic Engineering) in Dec 2024. <ul style="list-style-type: none"> • The 13th conference was organized by IIT Roorkee • The 12th conference was organized by LMNIIT, Jaipur • The 11th conferece was organized by IIT Kharagpur. |
| 9. | Organizing First IEEE International Conference on Communication Technologies (planning phase) |
| Other International Events | |
| 10. | Organized ACM / IEEECS / CSI Research & Industry Symposium on IoT Cloud (IoTCloud'21) on 3 May 2021. |
| 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: <ul style="list-style-type: none"> • IIIT Kottayam • AIC IIIT-Kottayam Foundation • MSME Business Incubation Centre IIIT-Kottayam • DaretoStart (Company), Germany. |
| 12. | Dr. Shajulin has organized Indo-European Entrepreneurial Hackathon – IEE-Hacks 2022, jointly with TUM-Germany . The winner will be invited to TUM-Germany. http://icentre.iiitkottayam.ac.in/hacks2022.html |
| 13. | ACM-IIIT Kottayam and DPhi Belgium are organizing Boot Camp on “Introduction to Data Visualization using MATPLOTLIB” during 18-27 Feb 2022. |
| 14. | Indo- Taiwan Joined online Two-days workshop on “Intelligent Internet of Things”, October 27-28, 2022 (Sessions taken by faculties from CCU Taiwan, IIIT Kottayam and NIT Puducherry); Coordinators: Dr. Ragesh G K and Dr. Jayakrushna Sahoo |
| 15. | Organized “Co-Innovation Strategies Workshop” on the eve of National start-up day on 16 th Jan 2023 sponsored by “Seed Fund-India (DPIIT)”. Five entrepreneurial ecosystems from four different countries (Germany - Munich and Hamburg, Austria, Japan , and India) have participated. The speakers of four different countries have participated: <ul style="list-style-type: none"> • Chief Guest of the function Mr. Surya Kumar Bose Founder BIT Germany, Grandnephew of Great Freedom Fighter of India Netaji Subhas Bose • Ms. Lee Lee Ong Hamburg Invest Germany, • Mr. R. Ramanan, First Mission Director AIM • Mr. Robert Gfrerer CEO SA Austria, • Ms. Maria Schneider TUM Germany, • Mr. Kaushal, i-ADM Japan • Mr. Anil Sharma, Global Inc. Hyderabad |
| 16. | Workshop on "IoT Platforms - Programming and Essentials" - Jointly with TUM- Germany , Dept of CSE, AIC - IIIT Kottayam, and IoT Cloud Research Laboratory - 7 to 12 Sep 2023. |

| SN | International Events Organized by IIIT Kottayam |
|-----|---|
| 17. | Science and Engineering Research Board (SERB) Sponsored One Week High-End (KARYASHALA) Workshop on SDN: Software Defined Networking Architectures and Applications (17 - 23 July 2023) |
| 18. | Science and Engineering Research Board (SERB) Sponsored One Week High-End (KARYASHALA) Workshop on “Distributed Intelligence: Convergence of AI and distributed computing systems” (19 -25 June 2023) |

Table 29: International Events organized by IIIT Kottayam

4. Received funding for industrial joint research projects from Microsoft, Volkswagen Germany, etc.
5. Post-Doc / Ph.D. faculty from foreign Universities
 - a. Dr. Shajulin has done Post-Doc from **TUM Germany**.
 - b. Dr. Bakkyaraj has done Post-Doc from ICP, **University of Stuttgart, Germany**.
 - c. Dr. Arun has done PG from **Coventry University UK** and Ph.D. from **Pretoria University South Africa**.
 - d. Our former Dean has done Post Doc from the **University of Linz, Austria**.
 - e. Our current Dean Prof. P. Mohanan has done Post Doc from UC Berkeley USA.
 - f. Dr. Ananth is Post Doc from **University of Saskatchewan, Saskatoon, Canada**
 - g. Dr. Milind Thomas Themalil Post-Doc, XLIM, University of Limoges, **France**
 - h. Dr. Debarati Ganguly Post-Doc Royal Military College, **Canada**
 - i. Dr. Konjengbam Anand is Post-Doc from **Shizuoka University, Japan**.
 - j. Dr. Suresh Chavhan is Post-Doc from UFPI, **Federal University of Piaui, Brazil**
 - k. Dr. Nilotpal Chakraborty is Post-Doc **Aalborg University Denmark** and Post-Doc **EMAX Group Brussels Belgium**
6. IIIT-Kottayam faculty members have published Joint Research Papers with faculty of top foreign universities and industry personnel.

| SN | Joint Research Papers | Foreign Author Designation | Name of Foreign Country | Name of Faculty of IIIT Kottayam |
|----|---|----------------------------|-------------------------|----------------------------------|
| 1. | Zahra Najafabadi Samani, Narges Mehran, Dragi Kimovski, Shajulin Benedict, Nishant Saurabh, Radu Prodan, Incremental Multilayer Resource Partitioning for Application Placement in Dynamic Fog, in IEEE Trans. on Parallel and Distributed Computing, doi:10.1109/TPDS.2023.3262695, , Vol. 34, No. 6, pp. 1877--1896, June 2023. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 2. | Markus Steinbach, Anshul Jindal, Mohak Chadha, Michael Gerndt, and Shajulin Benedict, TppFaaS: Modeling Serverless Functions Invocations via Temporal Point Processes, in IEEE ACCESS journal, Vol. 10, pp. 9059-9084, DOI: 10.1109/ACCESS.2022.3144078, 2022. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 3. | Nishant Saurabh, Shajulin Benedict, Jorge G.Barbosa, Radu Prodan, Expelliarmus: Semantic-Centric Virtual Machine Image Management in IaaS Clouds, in Journal of Parallel and Distributed Computing (Elsevier), Vol. 146, DOI: https://doi.org/10.1016/j.jpdc.2020.08.001 pp. 107-121, 2020 | | Austria | Dr. Shajulin Benedict |

| SN | Joint Research Papers | Foreign Author Designation | Name of Foreign Country | Name of Faculty of IIIT Kottayam |
|-----|--|----------------------------|-------------------------|----------------------------------|
| 4. | Ennio Torre, Juan J. Durillo, Vincenzo de Maio, Prateek Agrawal, Shajulin Benedict, Nishant Saurabh, Radu Prodan, A Dynamic Evolutionary Multi-Objective Virtual Machine Placement Heuristic for Cloud Data Centers, in Information and Software Technology, Vol. 128, No. 106390, pp. 1-12, DOI: https://doi.org/10.1016/j.infsof.2020.106390 Elsevier, Dec. 2020. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 5. | Matthias Janetschek, Radu Prodan, and Shajulin Benedict (2017), 'A Workflow Runtime Environment for Manycore Parallel Architectures', FGCS, Elsevier, DOI: http://dx.doi.org/10.1016/j.future.2017.02.029 , Vol. 75, pp. 330-347, 2017. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 6. | Vincenzo Di Maio, Radu Prodan, Shajulin Benedict, Gabor Kecskemeti (2016), 'Modelling energy consumption of network transfers and virtual machine migration', in FGCS-Elsevier (March 2016), Vol. 56, doi:10.1016/j.future.2015.07.007, pp. 388-406, 2016. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 7. | Shajulin Benedict, Michael Gerndt, and Diana Michaela (2014), Formalizing Bottlenecks in Task-Based OpenMP Applications, in Advances in Parallel Computing, IOS press, Vol. 25, doi:10.3233/978-1-61499-381-0-103 , pages 103-112, 2014. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 8. | Shajulin Benedict and M.Gerndt, Automatic Performance Analysis of OpenMP codes on a scalable shared memory system using Periscope, in Applied Parallel and Scientific Computing, Vol. 7134, pp. 452-462, LNCS, Springer Publishers, 10.1007/978-3-642-28145-7_44, 2012 | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 9. | Shajulin Benedict, Matthias Brehm, M.Gerndt, Carla Guillen, Wolfram Hesse and V.Petkovve, Automatic Performance Analysis of Large Scale Simulations, Lecture Notes in Computer Science (LNCS) series, Vol. 6043, pp. 199-207, 10.1007/978-3-642-14122-5_24 , Springer publications, 2009 | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 10. | Shajulin Benedict, V.Petkovve, M.Gerndt, PERISCOPE: An Online-based Distributed Performance Analysis Tool, Book Chapter, Tools for High Performance Computing 2009, Springer Publishers, Dresden, 10.1007/978-3-642-11261-4_1 , pp. 1-16. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 11. | Yu-Ju Chiu, Shajulin Benedict, and Michael Gerndt, E2D2: Elephant Emotion and Distraction Detection Framework using Edge-Enabled YOLOv5 Deep Learning Algorithm, in 2023 IEEE International Conference on Contemporary Computing and Communications (InC4), Bangalore, India, pp. 1--6, | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 12. | Shajulin Benedict, S. Vivek Reddy, Bhagyalakshmi M., Jiby Mariya Jose, and Radu Prodan, Performance Improvement Strategies of Edge-Enabled Social Impact Applications, in (IEEE) 6th Int. Conf. on Inventive Computation Technologies, ICICT'23, Lalitpur Nepal, pp. 1696-1703, doi: 10.1109/ICICT57646.2023.10134420, 2023. | Professor | Austria | Dr. Shajulin Benedict |
| 13. | Oscar Lange, Jiby Mariya Jose, Shajulin Benedict, and Michael Gerndt, Automated Energy Modeling Framework for Microcontroller-based Edge Computing Nodes, in Int. Conf. on Advanced Network Technologies and Intelligent Computing (ANTIC 2022), Varanasi, India, pp 422--437, doi: https://doi.org/10.1007/978-3-031-28180-8_29 , 2023. | Researcher and Professor | Germany | Dr. Shajulin Benedict |

| SN | Joint Research Papers | Foreign Author Designation | Name of Foreign Country | Name of Faculty of IIIT Kottayam |
|-----|---|----------------------------|-------------------------|----------------------------------|
| 14. | Mohak Chadha, Nils Krueger, Jophin John, Anshul Jindal, Michael Gerndt, Shajulin Benedict, Exploring the Use of WebAssembly in HPC, in Proc. of the Principles and Practice of Parallel Programming (PPoPP'23), Montreal, Canada, doi:https://doi.org/10.1145/3572848.3577436, pp. 92--106, Feb 2023. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 15. | Anshul Jindal, Jiby Mariya Jose, Shajulin Benedict, and Michael Gerndt, LoRA-Powered Energy-Efficient Object Detection Mechanism in Edge Computing Nodes, in Proc. of 6th (IEEE) Int. Conf. on I-SMAC 2022, Nepal, pp. 237-244, doi: 10.1109/I-SMAC55078.2022.9987393, 2022. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 16. | Thomas Van Loo, Anshul Jindal, Shajulin Benedict, Mohak Chadha, and Michael Gerndt, Scalable Infrastructure for Workload Characterization of Cluster Traces, in Proc. of 12th Int. Conf. on Cloud Computing and Services Science - 12th CLOSER 2022, pp. 254-263, SciTePress Publisher, DOI:10.5220/0011080300003200, 2022. . | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 17. | Christopher Peter Smith, Anshul Jindal, Mohak Chadha, Michael Gerndt and Shajulin Benedict, FaDO: FaaS Functions and Data Orchestrator for Multiple Serverless Edge-Cloud Clusters, in 2022 IEEE 6th International Conference on Fog and Edge Computing (ICFEC), pp. 17-25, doi: 10.1109/ICFEC54809.2022.00010 , 2022. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 18. | Anshul Jindal, Mohak Chadha, Shajulin Benedict and Michael Gerndt, Estimating the Capacities of Function-as-a-Service Functions, in Proc. of 14th IEEE/ACM International Conference on Utility and Cloud Computing Companion, UCC'21, UK, 2021. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 19. | Radu Prodan, Ennio Torre, Juan J. Durillo, Gagangeet Singh Aujla, Neeraj Kummar, Hamid Mohammad, and Shajulin Benedict, Dynamic Multi-objective Virtual Machine Placement in Cloud Data Centers, in proc. of IEEE 2019 45th Euromicro Conference on Software Engineering and Advanced Applications (SEAA), DOI: 10.1109/SEAA.2019.00023 , pp.92-99, 2019. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 20. | Shajulin Bendict, P.Gschwandtner, Thomas Fahringer, TOEP: Threshold Oriented Energy Prediction Mechanism for MPI-OpenMP Hybrid Applications, in IEEE IC32018, Noida, India, DOI: 10.1109/IC3.2018.8530575, 2018 | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 21. | TF Philipp Gschwandtner, Alexander Hirsch, Shajulin Benedict, Towards Automatic Compiler-assisted Performance and Energy Modeling for Message Passing Parallel Programs, in 13th Workshop on Parallel Systems and Algorithms PASA 2018, Germany, 2018. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 22. | Podolskiy, V., Gerndt, H.M., Benedict, S. QoS-based cloud application management: Approach and architecture, CrossCloud 2017 - 4th Workshop on CrossCloud Infrastructures and Platforms, Colocated with EuroSys, DOI: https://doi.org/10.1145/3069383.3069390, 2017. | Researcher and Professor | Germany | Dr. Shajulin Benedict |
| 23. | Matthias Janetschek, Radu Prodan, and Shajulin Benedict (2015), A Workflow Runtime Environment for Manycore Parallel Architectures, in WORKS-SC'15, NY, ACM Publisher, USA, doi:10.1145/2822332.2822333, , 2015. | Researcher and Professor | Germany | Dr. Shajulin Benedict |

| SN | Joint Research Papers | Foreign Author Designation | Name of Foreign Country | Name of Faculty of IIIT Kottayam |
|-----|--|--|---------------------------|----------------------------------|
| 24. | Shajulin Benedict, Rejitha R.S., Phillip G., Radu Prodan, Thomas Fahringer (2015), Energy Prediction of OpenMP Applications using Random Forest Modeling Approach , in iWAPT2015 @ IPDPS 2015 DOI 10.1109/IPDPSW.2015.12 , pp. 1251-1260, 2015. | Researcher and Professor | Austria | Dr. Shajulin Benedict |
| 25. | Vishnu Bajjuri, Nalesh S, Sree Ranjani Rajendran, Kala S, "Adiabatic Physical Unclonable Function Using Cross-Coupled Pair", in 8th IEEE International Symposium on Smart Electronic Systems (iSES 2022) | Research Associate | University of Florida | Dr. Kala S |
| 26. | M. Themalil, M. Majed, M. Rammal, E. Martinod, B. Jecko, "Miniaturized "Pixel" Antenna for Implantation on Argos CubeSat 4U", 21st National Microwave Day (Journée National Microonde), Caen, France, JNM 2019, 14 - 17 May, 2019. | Professor, XLIM, University of Limoges | France | Dr. Milind Thomas Themalil |
| 27. | M. Themalil, M. Majed, M. Rammal, E. Martinod, B. Jecko, "Miniaturized "Pixel" Antenna for Implantation on Argos CubeSat 4U", ICEAA - IEEE – APWC 2019 (also in IEEE Xplore), Granada, Spain, 9 - 13 September 2019. | Professor, XLIM, University of Limoges | France | Dr. Milind Thomas Themalil |
| 28. | Milind Thomas Themalil, Satya Singh, Divanshu Jain, Dinesh Yadav, Mohamad Rammal and Mayank Sharma, "Miniaturization Capability of the Pixel Antenna for Nanosatellite Footprints", VLSI, Microwave and Wireless Technologies, Springer, ISBN: 978-981-19-0311-3, Lect. Notes Electrical Eng., Vol. 877, DOI : 10.1007/978-981-19-0312-0, 4 Sept 2022. | Engineer, Airbus, France | France | Dr. Milind Thomas Themalil |
| 29. | Murugan. D, R. Ponalagusamy, Roy, A.K., O. Anwar B'eg, Tracer Dispersion due to Pulsatile Casson Fluid Flow in a Circular Tube with Chemical Reaction Modulated by Externally Applied Electromagnetic Fields. International Journal of Applied and Computational Mathematics 8, Article number: 221. 2022. | Professor, Salford University. | England | Dr. Murugan D |
| 30. | Susheel Kumar Joshi, Anshul Gopal, Shitu Singh, Atulya k Nagar and Jagdish Chand Bansal, "A novel neighborhood archives embedded gravitational constant in GSA", Soft Computing, vol. 25, pp. 6539-6555, 2021, | Professor, Liverpool hope university | England | Dr. Susheel Kumar Joshi |
| 31. | Jagdish Chand Bansal, Susheel Kumar Joshi and A.K. Nagar, "Fitness varying gravitational constant in GSA, Applied Intelligence, vol. 48,pp. 3446-3461, 2018. | Professor, Liverpool hope university | England | Dr. Susheel Kumar Joshi |
| 32. | Physical Layer Security of Cognitive Ambient Backscatter Communications for Green Internet-of-Things, IEEE Transactions on Green Communications and Networking, 2021 | Professors from xenan polytechnic uiversity, Univ. of Luxomburg, Alto University, Harbin Institute of Technology | China, Luxomburg, Finland | Dr. Ragesh G K |
| 33. | Performance of hybrid satellite-UAV NOMA systems, ICC Int.,conference, 2022 | Benha University, National University of Defense | Egypt, USA, China | Dr. Ragesh G K |

| SN | Joint Research Papers | Foreign Author Designation | Name of Foreign Country | Name of Faculty of IIIT Kottayam |
|-----|---|--|-------------------------|----------------------------------|
| | | Technology, Henan Polytechnic University, Idaho State University | | |
| 34. | A novel enhanced algorithm for efficient human tracking | Texas Tech University, Texas, University of Barcelona, University of Yazd | USA, SPAIN, IRAN | Dr. Ragesh G K |
| 35. | Energy Efficiency of Open Radio Access Network: A Survey, IEEE VTC, 2023 | University of Glasgow, Federal Technological University | UK, Brazil, Turkey | Dr. Ragesh G K |
| 36. | J. M. John, M. Bellingeri, D. S. Lekha , D. Cassi, and R. Alfieri, "Effect of Weight Thresholding on the Robustness of Real-World Complex Networks to Central Node Attacks," Mathematics, vol. 11, no. 16, p. 3482, Aug. 2023, doi: 10.3390/math11163482. | Professors and Researchers, Research Unit on Complex Networks (Networks Unit), Department of Mathematical, Physical and Computer Sciences (SMFI), University of Parma. | Italy | Dr Divya Sindhu Lekha |
| 37. | K. Balakrishnan, M. Changat, A. M. Hinz, D. S. Lekha , "The median of Sierpiński graphs", Discrete Applied Mathematics, Vol. 319, 2022, Pages 159-170, ISSN 0166-218X, doi: 10.1016/j.dam.2021.02.005. | Professor, Mathematical Institute, LMU Munich, München, Germany | Germany | Dr Divya Sindhu Lekha |
| 38. | M. Changat, D. S. Lekha , S. Mohandas, H. M. Mulder, A. R. Subhamathi, "Axiomatic characterization of the median and antimedian function on a complete graph minus a matching", Discrete Applied Mathematics, Vol. 228, 2017, Pages 50-59, ISSN 0166-218X, doi: 10.1016/j.dam.2016.04.013. | Professor, Erasmus Universiteit Rotterdam, Rotterdam, Netherlands | Netherlands | Dr Divya Sindhu Lekha |
| 39. | M. Changat, D. S. Lekha , I. Peterin, A. R. Subhamathi, S. Špacapan, "The median game", Discrete Optimization, Vol. 17, 2015, Pages 80-88, ISSN 1572-5286, doi: 10.1016/j.disopt.2015.05.002. | Professors, University of Maribor, Slovenia | Slovenia | Dr Divya Sindhu Lekha |

| SN | Joint Research Papers | Foreign Author Designation | Name of Foreign Country | Name of Faculty of IIIT Kottayam |
|-----|---|---|-------------------------|----------------------------------|
| 40. | M. Changat, D. S. Lekha , H. M. Mulder, A. R. Subhamathi, "Axiomatic Characterization of the Median and Antimedial Functions on Cocktail-Party Graphs and Complete Graphs." In: Ganguly, S., Krishnamurti, R. (eds) Algorithms and Discrete Applied Mathematics. CALDAM 2015. Lecture Notes in Computer Science, vol 8959. Springer, Cham. doi: 10.1007/978-3-319-14974-5_14 | Professor, Erasmus Universiteit Rotterdam, Rotterdam, Netherlands | Netherlands | Dr Divya Sindhu Lekha |
| 41. | R. P. Badoni, Jayakrushna Sahoo , Shwetabh Srivastava, Mukesh Mann, D. K. Gupta, Swati Verma, Predrag S. Stanimirović, Lev A. Kazakovtsev, and Darjan Karabašević. "An Exploration and Exploitation-Based Metaheuristic Approach for University Course Timetabling Problems." Axioms 12, no. 8 (2023): 720. | Professor of Mathematics and Computer Science University of Niš Faculty of Sciences and Mathematics Departments of Computer Science Niš, Serbia | Serbia | Dr. Jayakrushna Sahoo |

Table 30: Joint Research Publications of faculty of IIIT Kottayam with foreign authors

- Introduced foreign languages like French and Germany at the first-year level.
- Every year, our faculty Dr. Shajulin Benedict is taking credit courses at TUM Germany and the faculty of TUM Germany is conducting credit courses at IIIT Kottayam. From May 2022, Dr. Shajulin is at TUM Germany as a guest faculty for 4 months.
- In the month of November 2021, the 3 UK Universities submitted the collaborative proposals with IIIT Kottayam to the British Council, under the scheme launched by the British Council. Two of them are sanctioned by the British Council. Under this scheme, our faculty member Dr. Ragesh went to University of Glasgow for one-week academic visit.

| British Council | Topics | Amount in Rs | Faculty | Sanctioned |
|--|------------------------------|--------------|---|------------|
| British Council and Cardiff University, UK | Edge Computing and Analytics | 2009000 | IIT-Ropar, Dr. Shajulin Benedict, IIIT Kottayam | Yes |
| British Council and University of Glasgow | IOT for Intelligent Systems | 1500000 | Dr. Ragesh | Yes |

Table 31: Sanctioned Project Proposals by British Council

- Under DASA, a total of 45 international students have joined B.Tech. courses:

| SN | Country | Number of Students |
|----|--|--------------------|
| 1. | USA | 2 |
| 2. | UAE (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain) | 23 |
| 3. | Saudi Arabia | 5 |
| 4. | Qatar | 5 |
| 5. | Kuwait | 4 |
| 6. | Bahrain | 4 |

| | | |
|-------|------|----|
| 7. | Oman | 2 |
| Total | | 45 |

Table 32: International Students under DASA

11. Internship at Foreign Countries

| SN | Name of Student | Internship at Foreign Country |
|-----|--------------------------------------|--|
| 1. | Yashwant Srivatsav, 2015 batch | USA |
| 2. | Mannem Srinivas, 2016 Batch | USA |
| 3. | Chatla Akileshwara Kumar, 2016 Batch | Austria |
| 4. | Ashish Gusain | Switzerland, USA |
| 5. | Rumaise | UK, Dubai, Harman International, USA |
| 6. | A V S Aditya Vardhan, 2018 Batch | Artbook, The Platform - Germany |
| 7. | J V Sathya Krishna 2018 Batch | Artbook, The Platform - Germany |
| 8. | Tejash More 2018 Batch | Harman International, USA |
| 9. | Modassir Ansari, 2018 Batch | Harman International, USA |
| 10. | G Harsha Reddy | J P Morgan, Glasgow, UK |
| 11. | Vishnu S | App Mastery, Canada |
| 12. | Harini T | Volvo Sweden |
| 13. | Kishan Gurumurthy | Human Resocia Japan |
| 14. | Ram Savanth | Human Resocia Japan |
| 15. | Aditi Shukla (2020 ECE) | DAAD-WISE University of Offenburg, Germany |
| 16. | Akansha Singh | Begin AI, Canada |
| 17. | Aditya Menon | Begin AI, Canada |
| 18. | Harsh Vardhan Singh Chauhan | Scimertech GmbH, Germany (Online) |
| 19. | Blaize Tom | Scimertech GmbH, Germany (Online) |
| 20. | Soham | Scimertech GmbH, Germany (Online) |
| 21. | Sri Harsha Bodicherla | Scimertech GmbH, Germany (Online) |
| 22. | Roshin Nishad | i-ADAM, Japan (Online) |
| 23. | M.D. Sameer Basha | i-ADAM, Japan (Online) |
| 24. | Mohamed Jaasir Subair | i-ADAM, Japan (Online) |
| 25. | Santhosh Cheemala | i-ADAM, Japan (Online) |
| 26. | Prathamesh Vasaikar | i-ADAM, Japan (Online) |
| 27. | Ankur Majumdar | i-ADAM, Japan (Online) |
| 28. | Vishnu Narayanan Vinodkumar | i-ADAM, Japan (Online) |
| 29. | Akshay Warriar | DAAD-WISE Ludwig Maximilian University, Munich |
| 30. | Adusumilli Laahiri | DAAD-WISE Offenburg University of Applied Sciences |
| 31. | Saketh Mallojjala | DAAD-WISE Hochschule Offenburg |
| 32. | Arya suneesh | DAAD-WISE Universität der Künste, Berlin |
| 33. | Maitri Deepak Savla | DAAD-WISE Universität Bayreuth |
| 34. | Rohith George Ninan | DAAD-WISE Ruhr-Universität Bochum |
| 35. | Thennal Deepa Kuryachan | DAAD-WISE University of Hamburg |
| 36. | Samhitha Bharthulwar | DAAD-WISE University of Hamburg |

Table 33: Foreign Internships

12. International Speakers from 15 nations participated in different events at IIIT Kottayam. They are from Australia, Austria, Canada, Denmark, Dubai, Germany, Ireland, Japan, Qatar, Singapore, Spain, Switzerland, Taiwan, UK and USA

| SN | Event | International Speakers participated in different events at IIIT Kottayam - Name and Designation | Country | Date | Invited by Faculty of IIIT Kottayam |
|-----|---|--|----------------|------------|---|
| 1. | QThursday Webinar #3 Why do we want to take Quantum to Space? | Dr. Sonali Mohapatra, Space Applications Lead, Craft Prospect, Glasgow | Scotland, UK | 10.02.2022 | Dr Rubell Marion Lincy G |
| 2. | QThursday Webinar #4 Quantum Computing for Finance | Dr. Rajiv Krishnakumar, Executive Director, R&D Team, Goldman Sachs, Geneva | Switzerland | 17.02.2022 | Dr. Rubell Marion Lincy G |
| 3. | Certification Course on AI with specialization in Reinforcement Learning | Dr. Deepak Padmanabhan, Associate Professor, Queen's University, Belfast, UK. | United Kingdom | 13.07.2023 | Dr. Rubell Marion Lincy G and Dr. Suchithra M S |
| 4. | FinTech Webinar on “Fintech in Various Business Functions (Applications beyond banking)” by ACM Student Chapter | Mr. Ahsan Abdullah | Dubai | 11.07.2022 | Dr. Rubell Marion Lincy G. |
| 5. | ICITIIT'22 | Dr. Nachiketa Acharya, Assistant Research Professor, Center for Earth System Modeling, Analysis, and Data Department of Meteorology and Atmospheric Science Associate, Earth & Environmental Systems Institute Pennsylvania State University | USA | 12.02.2022 | Dr. Jayakrushna Sahoo Dr. Kala S |
| 6. | ICITIIT20 | Prof. Gerndt, TUM, Germany, HPC | Germany | 13.02.2020 | Dr. Shajulin Benedict |
| 7. | Webinar- How Small Companies are Making a Big Difference in the Cloud & Emerging | Mr. Nagesh Kunamneni, President & CTO, BizCloud Experts, USA | USA | 31.07.2020 | Dr. Shajulin Benedict |
| 8. | ACM / CSI / IEEECS Research & Industry Symposium on IoT Cloud for Societal Applications (IoTCloud'21) | Mr. Sunderasa Subramanian, Director - NextGen QA Services (Americas), Infosys Limited, Atlanta Metropolitan Area, USA. | USA | 03.05.2021 | Dr. Shajulin Benedict |
| 9. | ICITIIT20 | Prof. Virendra Bhavsar, Univ. of New Brunswick, Canada, HPC | Canada | 13.02.2020 | Prof. Rajiv V. Dharaskar |
| 10. | ICITIIT23 | Prof. Arunangsu Chatterjee University of Lead UK | UK | | Prof. Rajiv V. Dharaskar |
| 11. | Webinar-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 | Australia | 06.07.2020 | Dr. J V Bibal Benifa Dr. Jayakrushna Sahoo |
| 12. | Webinar-MULSEMEDIA IN 360 VR | Dr. George Ghinea, Professor of Mulsemedia Computing Department of Computer Science, Brunel University, London | UK | 09.07.2020 | Dr. J V Bibal Benifa |
| 13. | Webinar-Application Security & OWASP Top 10 | Ms. Celine George, Cyber Security Manager, Cognizant, Ontario | Canada | 07.07.2020 | Dr. J V Bibal Benifa Dr. Jayakrushna Sahoo |

| SN | Event | International Speakers participated in different events at IIIT Kottayam - Name and Designation | Country | Date | Invited by Faculty of IIIT Kottayam |
|-----|--|--|-------------|------------|---|
| 14. | AICTE ATAL FDP on “Data Science” | Mr. George V Joy, Research Scientist, Hamad Medical Corporation, Qatar. | Qatar | 30.07.2021 | Dr. J V Bibal Benifa |
| 15. | Webinar on ‘Big Data Quality to the performance of Machine Learning’ | Dr. Junhua Ding | USA | 22.07.2022 | Dr. J. V. Bibal Benifa |
| 16. | ICITIIT’21 | Prof. Oscar Sanjuan Martinez | Spain | 11.02.2021 | Dr. Ebin Deni Raj |
| 17. | Webinar-Industry 4.0 for Discrete Manufacturing | Thadeus Devasagayam, Digital Transformation of Discrete Manufacturing, Sutton Coldfield, England | UK | 6.07.2020 | Dr. Ebin Deni Raj Dr. Panchami V |
| 18. | Security Vulnerabilities in HPC | Dr. Sree Ranjani R, University of South Florida, Gainesville, Florida | USA | 14.07.2021 | Dr. Kala S |
| 19. | AICTE ATAL FDP on “Internet of Things: Hardware, Software and Applications” | Dr. Nitin, Post Doc Scholar, Arhus University, Denmark | Denmark | 08.12.2020 | Dr. Kala S |
| 20. | AICTE ATAL FDP on “Internet of Things: Hardware, Software and Applications” | Dr. Jobish, University College Cork, Ireland | Ireland | 10.12.2022 | Dr. Kala S |
| 21. | ACM Student Chapter Event | Dr. Shweta Shinde, ETH Zurich, Switzerland | Switzerland | 13.11.2021 | Dr. Manjith B.C. Dr. Panchami |
| 22. | AICTE ATAL FDP on “Security & Privacy Management in IoT Sensor Networks” | Prof. Edmond C Prakash, Cardiff Metropolitan University | UK | 02.12.2021 | Dr. P. Victor Paul |
| 23. | Two-days Workshop on “AI-Driven IT Automation: The future of IT industry” | Paolo Notaro | Germany | 23.07.2022 | Dr. Christina Terese Joseph & Dr. John Paul Martin |
| 24. | Data Science & ML in Real World Webinar on “Introduction to Legal NLP” | Mr. Yusuke Kido, CTO, Legalscape INC | Japan | 4.09.2022 | Dr. Konjengbam Anand |
| 25. | Data Science & ML in Real World Webinar on “Mind the Gap - Thinking About Meaning in the Context of Ethical AGI” | Dr. Rafal Rzepka, Assistant Professor, Hokkaido University | Japan | 14.09.2022 | Dr. Konjengbam Anand |
| 26. | Webinar Series on Data Science and Machine Learning in Real World | 1) Yusuke Kido, Co-Founder and CTO, LEGALSCAPE Inc Japan. 2) Dr. Rafal Rzepka, Assistant Professor, Hokkaido University, Japan. | Japan | 04.09.2022 | Dr. Amit Kumar Roy Dr. C. Oswald Dr. Konjengbam Anand |
| 27. | Indo- Taiwan Joined Online two days workshop on Intelligent Internet of Things | Dr. Pao- Ann Hsiung | Taiwan | 27-10-2022 | Dr. Ragesh G K |
| 28. | Indo-Taiwan Joined Online Two days workshop on the | Dr. Pao- Ann Hsiung and Dr. Adrian C.K. Chiang, CCU Taiwan | Taiwan | 27.10.2022 | Dr. Ragesh G K |

| SN | Event | International Speakers participated in different events at IIIT Kottayam - Name and Designation | Country | Date | Invited by Faculty of IIIT Kottayam |
|-----|--|---|--|--------------------------|--|
| | Intelligent Internet of Things | | | | |
| 29. | "Certification Course on 5G and IoT | Dr. Axel Sikora, University of Offenberg, Germany | Germany | 01.06.2023 to 15.06.2023 | Dr. Ragesh G K |
| 30. | iQCCHES'23 International Conference | Dr. Ganesh Iyer, NUS | Singapore | 15.09.2023 to 16.09.2023 | Dr. Ragesh G K, Dr. Panchami V, Dr. Manjith |
| 31. | iQCCHES'23 International Conference | Dr. Vipindev Adat, MIT, USA | USA | 15.09.2023 to 16.09.2023 | Dr. Ragesh G K, Dr. Panchami V, Dr. Manjith |
| 32. | iQCCHES'23 International Conference | Dr. Ranjan Sigh | USA | 15.09.2023 to 16.09.2023 | Dr. Ragesh G K, Dr. Panchami V, Dr. Manjith |
| 33. | Webinar on Fair AI: Where AI meets Politics | Dr. Deepak Padmanabhan, Associate Professor, Queen's University, Belfast, UK. | United Kingdom | 13.10.2022 | Dr. Suchithra M S |
| 34. | Webinar on Visualization: Decoding Performance using Microsoft Power BI | Mr. Amit Jain, Data Engineer, National Australian Bank | Australia | 16.5.2023 | Dr. Suchithra M S |
| 35. | Co-Innovation Strategies | Mr. Surya Bose | Germany | 16.1.2023 | Dr. Shajulin Benedict |
| 36. | Co-Innovation Strategies | Ms. Lee Lee Ong, Hamburg Invest | Germany | 16.1.2023 | Dr. Shajulin Benedict |
| 37. | Co-Innovation Strategies | Mr. Robert Gfrerer, CEO, SiliconAlps | Austria | 16.1.2023 | Dr. Shajulin Benedict |
| 38. | Indo-European Entrepreneurial Hackathon (Hacks 2022) | Prof. Michael Gerndt, Professor, TUM | Germany | 23.8.2022 | Dr. Shajulin Benedict |
| 39. | Workshop/Training Session on IoT Platforms -- Programming and Essentials | Prof. Dr. Michael Gerndt, Professor, TUM-Germany | Germany | 7.09.2023 to 12.09.2023 | Dr. Shajulin Benedict |
| 40. | Workshop/Training Session on IoT Platforms - Programming and Essentials | Mr. Isaac Nunez, Researcher, TUM-Germany | Germany | 7.09.2023 to 12.09.2023 | Dr. Shajulin Benedict |
| 41. | Webinar | Dr. Anand Baby Alias | Institute of Nanoengineering & Microsystems, National Tsing Hua university, Taiwan | 20.09.2022 | Dr. Lidiya Lilly Thampi Dr. Cinu C Kiliroor |
| 42. | SERB sponsored "One Week High-End Workshop on Methods for Creating a Quality Research Article: | Dr. Bharathi Raja Ramadoss | Canada | 24.07.2022 | Dr. A. Ananth |

| SN | Event | International Speakers participated in different events at IIIT Kottayam - Name and Designation | Country | Date | Invited by Faculty of IIIT Kottayam |
|----|-----------------------------------|---|---------|------|-------------------------------------|
| | Software and Writing Perspective” | | | | |

Table 34: International Speakers participated in different events at IIIT Kottayam

Guided Ph.D. / M.Tech./ M.Sc. Thesis of foreign universities by IIIT Kottayam Faculty members:

| SN | Name of the student of TUM Germany | Degree | Thesis | Native Country of the student | Faculty |
|----|--|--------|--|-------------------------------|-----------------------|
| 1. | Mohammad Fahad Rana | MTech | Implementation and Performance Evaluation of Different Workflows by using Apache AirFlow | Pakistan | Dr. Shajulin Benedict |
| 2. | Emanueal Oscar | MTech | Measuring Framework for Energy Consumption and Performance on Edge Computing Devices | Romania | Dr. Shajulin Benedict |
| 3. | Yu-Ju Chiu | MTech | Emotion Intelligence and Distraction Detection on Elephant using Edge Nodes | Taiwan | Dr. Shajulin Benedict |
| 4. | Md Forhad Hossain | MTech | Decentralized Federated Learning for Social Good Application | Bangladesh | Dr. Shajulin Benedict |

Table 35: Guided MTech Thesis of students of foreign universities by IIIT Kottayam Faculty members

Collaborative Research of BTech students of IIIT-Kottayam with International Universities:

| SN | Name of the student of IIIT Kottayam | Batch | Universities Involved | Status | Faculty Involved |
|----|--------------------------------------|---------------------------|--|---------|-----------------------|
| 1. | Rachit Verma | B.Tech.-M.S. (Integrated) | Utrecht University Netherlands | Ongoing | Dr. Shajulin Benedict |
| 2. | Bhukya Aakash | Third year B.Tech | Utrecht University, Netherlands | Ongoing | Dr. Shajulin Benedict |
| 3. | Anirudh | B.Tech. (II Year) | Utrecht University Netherlands | | Dr. Shajulin Benedict |

Table 36: Collaborative Research of IIIT-Kottayam BTech/BTech-MS students with International Universities

Evaluation of Ph.D. / M.Tech. / M.Sc. Thesis of foreign universities by faculty members of IIIT Kottayam:

| SN | Name of the student of Foreign University | Degree | Name of Guide | Thesis Title | Foreign University | Faculty Involved |
|----|--|--------|--|--|--|-----------------------|
| 1. | Elsabe Ros, the Department of Computer Science, University of Pretoria, South Africa | M.Sc. | Prof. H.S. Venter, Professor & Head, Digital Forensic Science Research Group, Department of Computer Science | Digital Forensic Readiness in Mobile Device Management Systems | University of Pretoria, South Africa | Prof. Rajiv Dharaskar |

| | | | University of Pretoria, South Africa | | | |
|----|---------------------|-------|--------------------------------------|--|-------------|-------------------|
| 2. | Muhammed Fahad Rana | M.Sc. | Shajulin Benedict and Michael Gerndt | Implementation and Performance Evaluation of Different Workflows by Using Apache Airflow | TUM-Germany | Shajulin Benedict |
| 3. | Emanuel Oscar Lange | M.Sc. | Shajulin Benedict and Michael Gerndt | Measurement Framework for Energy Consumption and Performance on Edge Computing Devices | TUM-Germany | Shajulin Benedict |

Table 37: Evaluation of Ph.D. / M.Tech. / M.Sc. Thesis of foreign universities by faculty members of IIIT Kottayam

Indo-UK British Council project – Joint Course preparation on Edge Intelligence for 3 Universities (IIT Ropar, Cardiff University UK and IIIT Kottayam) under Exploratory Grant coming under British Council by Dr. Shajulin, faculty of IIIT Kottayam and 2 Ph.D. scholars of IIIT Kottayam.

| SN | Name of student | Degree | Collaborative University | Status | Faculty Involved |
|----|------------------|----------------------------------|--------------------------|-----------|-----------------------|
| 1. | Jiby Maria Jose | Ph.D. (2 nd semester) | Cardiff University, UK | Completed | Dr. Shajulin Benedict |
| 2. | Bhagyalakshmi M. | Ph.D. (3 rd semester) | Cardiff University, UK | Completed | Dr. Shajulin Benedict |

Table 38: Indo-UK British Council project with Ph.D. scholars of IIIT Kottayam

International Collaborative Linkages established to provide the Mentoring Services for Incubation Centers of IIIT Kottayam, International Members of Research Groups, and Other activities

| SN | Name | Organization | Country |
|-----|-----------------------|---|-----------|
| 1. | Dr. Driss Nehari | Univ. Center- Ain Temouchent | Algeria |
| 2. | Dr. Sarder Islam | Victoria University | Australia |
| 3. | Dr. Rajkumar Buyya | University of Melbourne, Australia | Australia |
| 4. | Prof. S. Soh | Curtin University | Australia |
| 5. | Dr. Albert Zomaya | Univ. of Sydney | Australia |
| 6. | Dr. Radu Prodan | Klagenfurt University | Austria |
| 7. | Dr. Thomas | Univ. of Innsbruck | Austria |
| 8. | Prof. Wim Polet | KU-Leuven | Belgium |
| 9. | Dr. Pertry Isabelle | Howest Univ. of Applied Sciences | Belgium |
| 10. | Dr. Elena Smirnova | Howest Univ. of Applied Sciences | Belgium |
| 11. | Dr. Ana Bazzan | Universidade Federal do Rio Grande do Sul | Brazil |
| 12. | Dr. John Kershaw | Brunswick University | Canada |
| 13. | Dr. Virendra Bhavsar | Brunswick University | Canada |
| 14. | Dr. Goutam Srivastava | Brandon University | Canada |
| 15. | Dr. Andres Avila | Universidad de La Frontera | Chile |
| 16. | Dr. Md Belal Bin | University of Electronic Science and Technology | China |

| SN | Name | Organization | Country |
|-----|--------------------------------|--|-------------|
| 17. | Xingwang Li | School Of Physics and Electronic Information Engineering | China |
| 18. | Yike Zheng | Henan Polytechnic University | China |
| 19. | Dr. Mehdi Gheisari | Guangzhou University | China |
| 20. | Dr. Gunasekaran Manogaran | Universidad Distrital | Colombia |
| 21. | Dr. Xiao Zhi Goa | University of Eastern Finland | Finland |
| 22. | Prof. Michael Gerndt | Technische Universitaet Muenchen | Germany |
| 23. | Dr. Petra A | Johannes Gutenberg | Germany |
| 24. | Dr.-Ing. Carsten S. | DADB - German Academy of Digital Education | Germany |
| 25. | Mr. Shone Jose | DADB - German Academy of Digital Education | Germany |
| 26. | Mr. Thomas H. | DADB - German Academy of Digital Education | Germany |
| 27. | Mr. Neelesh Lankireddy | DADB - German Academy of Digital Education | Germany |
| 28. | Mr. Surya Bose | Bose Information Technology | Germany |
| 29. | Dr. Bharathi Raja Chakravarthi | University of Galway | Ireland |
| 30. | Dr. Michele Bellingeri | University of Parma | Italy |
| 31. | Mr. Yuji Sakaguchi | Human Resocia | Japan |
| 32. | Mr. Takuya Kagotani | Human Resocia | Japan |
| 33. | Senthil Sellappan | Fuji Academy Pvt. Ltd | Japan |
| 34. | Mr. Kaushal Wawlagala | i-ADAM | Japan |
| 35. | Mr. Kenneth Ghana | i-ADAM | Japan |
| 36. | Pubudu Widhanage | i-ADAM | Japan |
| 37. | Sone Kaishi | i-ADAM | Japan |
| 38. | Basem M. ElHalawany | Benha Univeristy & College of Science and Technology | Kuwait |
| 39. | Wali Ullah Khan | Univeristy of Luxembourg | Luxembourg |
| 40. | Prof. Linga Reddy Cenkeramaddi | Univ. of Agder | Norway |
| 41. | Pål Grandal | Univ. of Agder | Norway |
| 42. | Geir Øivind Kløkstad | Univ. of Agder | Norway |
| 43. | Dr. Seifedine Kadry | Oslo Univ | Norway |
| 44. | Dr. Valentina Emila Balas | Aurel Vlaicu University of Arad | Romania |
| 45. | Dr. Mikhail Zymbler | South Ural State University | Russia |
| 46. | Dr. Muhammad Bilal | Hankuk University of Foreign Studies | South Korea |
| 47. | Dr. Manual Fernandez Delgado | University of Santiago | Spain |
| 48. | Dr. Pao-Ann Hsiung | National Chung Cheng University | Taiwan |
| 49. | Dr. Vasile Padale | Coventry University | UK |
| 50. | Dr. George Ghinea | Brunel University | UK |
| 51. | Dr. Omer Rana | Cardiff University | UK |
| 52. | Dr. Muhammad Imran | University of Glasgow | UK |
| 53. | Dr. Oluwakayode Onireti | University of Glasgow | UK |
| 54. | Dr. Lei Zhang | University of Glasgow | UK |
| 55. | Dr. Yusuf Sambo | University of Glasgow | UK |
| 56. | Dr. Yulei Wu | University of Exeter | UK |
| 57. | Dr. Kasi Periyasami | University of Wisconsin | USA |
| 58. | Dr. Deepak Padmanabhan | Queen's University | USA |
| 59. | Zohreh Safari | Elizabeth City State University | USA |
| 60. | Dr. Riduan M. Abid | Columbus State Univ | USA |
| 61. | Dr. Hilary Kahn | Indiana University | USA |
| 62. | Dr. Mathew Palakal | Indiana University | USA |
| 63. | Dr. Ian S. Mackintosh | Indiana University | USA |
| 64. | Dr. Kenneth Carow | Indiana University | USA |
| 65. | Dr. Sharon Kandris | Indiana University | USA |
| 66. | Nelson Zafeena | Indiana University | USA |

| SN | Name | Organization | Country |
|-----|--------------|--------------------|---------|
| 67. | Atibha Varma | Indiana University | USA |

Table 39: International Collaborative Linkages established to provide the Mentoring Services for Incubation Centers of IIIT Kottayam, International Members of Research Groups, and Other activities

IX. Nurturing Innovation Culture through Boosting Learning Attitude & Learning Beyond Syllabus

1. Organized more than 100 Webinars for students and faculty during the Covid-19 Pandemic in which speakers across the globe participated and delivered talks on various latest technologies.
2. In IT, the absorption 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 the syllabus through various Professional Certification options such as Coursera, Udemy, Ed-Tech, Swayam, NPTEL, Java, Oracle, etc. In the recruitment process, IT companies are looking for lifelong learners. That is, they want candidates with a 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 600 students** have done these certification courses. The following chart shows only a few of them. During Covid Pandemic, we got free access to Coursera under “Coursera for Campus Response Program”.

| SN | Student Name | Course Name | From |
|-----|--------------------------------|--|----------------------------------|
| 1. | AVS Aditya Vardhan | Introduction to Tensorflow for AI, ML and DL | Deeplearning.ai, Coursera |
| | | Introduction to Deep Learning | Deeplearning.ai, Coursera |
| | | Python zero to hero bootcamp | Pierrean Data |
| | | Introduction to Machine Learning | Internshala Trainings |
| | | Career Edge knockdown the lockdown | TCS IoN |
| 2. | Yaralagadda Sai Bhavadeesh | Machine learning | Stanford University, Coursera |
| | | Flutter & Dart - The complete guide [2020 edition] | Academind |
| 3. | Y. Vinay | Programming for everybody | University of Michigan, Coursera |
| 4. | Vibhor Vij | Machine Learning | Coursera/Stanford |
| | | Deep Learning- Specialization | Coursera/Deeplearning.ai |
| 5. | Abhishek Vishwakarma | Machine Learning A-Z | Udemy |
| 6. | Vishal Shivakumar Kanakamamidi | Convolutional Neural Networks | Coursera |
| 7. | Nikhil Kumar Ghanghor | DeepLearning.AI Tensorflow Developer | deeplearning.ai, Coursera |
| 8. | Mekala Uday Bhargav | Python | Solo learn |
| | | Python Problem solving | Hackerrank |
| | | Django | Youtube |
| | | Java | Internshala |
| 9. | Anjali M N | machine learning | Verzeo |
| 10. | Shubham Mishra | Coursera Machine learning | Stanford, Coursera |
| | | Python masterclass | Udemy |
| 11. | A V Bhavya | Data Base Management System | IIT Kharagpur, NPTEL |
| | | Introduction to Operating Systems | IIT Madras, NPTEL |

| SN | Student Name | Course Name | From |
|-----|------------------------------|---|--|
| | | CS50: CS50's Introduction to Computer Science | HarvardX, EdX |
| | | Angular | Internshala |
| | | Advanced Styling with Responsive Design | University of Michigan, Coursera |
| | | Interactivity with JavaScript | University of Michigan, Coursera |
| | | Python Project: pillow, tesseract, and opencv | Univeristy of Michigan, Coursera |
| | | compiler Design | IIT Kharagpur, NPTEL |
| | | Machine Learning: Clustering & Retrieval | University of Washington, Coursera |
| | | Machine Learning: Classification | University of Washington, Coursera |
| | | Machine Learning: Regression | University of Washington, Coursera |
| | | Machine Learning Foundations: A Case Study Approach | University of Washington, Coursera |
| | | Introduction to CSS3 | University of Michigan, Coursera |
| | | Introduction to HTML5 | University of Michigan, Coursera |
| | | Carrer Edge- Knockdown the Lockdown | TCS IoN, TCS |
| | | Using Python to Access Web Data | University of Michigan, Coursera |
| | | Capstone: Retrieving, Processing, and Visualizing Data with Python | University of Michigan, Coursera |
| 12. | Sohel Samirkhan Modi Tamboli | Cyber Security and Internet of Things | Kennesaw State University, Coursera |
| | | Cyber Security and Internet of Things | Kennesaw State University, Coursera |
| | | Introduction to Pointers and Memory Management in C/C++ | Coursera |
| | | Programing For Everybody | University of Michigan, Coursera |
| | | COVID-19: What You Need to Know (CME Eligible) | Osmosis.org, Coursera |
| 13. | Abhijith S Babu | Web applications for everybody | University of Michigan, Coursera |
| 14. | Vishnu Ajith | Neural Networks and Deep Learning | Deeplearning.ai, Coursera |
| | | Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization | deeplearning.ai, Coursera |
| | | Vishnu Ajith | deeplearning.ai, Coursera |
| | | Convolutional Neural Networks | Deeplearning.ai, Coursera |
| | | Build a Modern Computer from First Principles: From Nand to Tetris Part1 | Hebrew University of Jerusalem, Coursera |
| | | Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning | Deeplearning.ai, Coursera |
| | | Psychological First Aid | John Hopkins University, Coursera |
| | | The Hardware of a Quantum Computer | Technical University Delft, Netherlands, EdX |
| | | Architecture, Algorithms, and Protocols of a Quantum Computer and Quantum Internet | Technical University Delft. EdX |
| | | Advanced JAVA Technologies | CDAC |
| 15. | D. Neehari Naik | Deep Learning and NLP A-Z™: How to create a ChatBot | Udemy |
| 16. | Paruchuri Sai Suhas | Python programming for everybody | University of Michigan, Coursera |

| SN | Student Name | Course Name | From |
|-----|----------------------|--|--|
| 17. | A. Nithin | Programming for Everybody (Getting Started with Python). | University of Michigan, Coursera |
| | | University of Michigan | Python Data Structures, Coursera |
| 18. | Alaka Jayan | Web Applications for Everybody | University of Michigan, Coursera |
| | | HTML, CSS, and Javascript for Web Developers | Johns Hopkins University, Coursera |
| 19. | J V S Krishna | Machine learning | Verzeo |
| | | Complete C++ programming | Emenwa Gobal, Udemy |
| | | Complete PHP opp concepts | Srinivasa Vanamala, Udemy |
| | | Crash course Laravel 7 and vue js Bootcamp | Gerrit Vermeulen, Udemy |
| | | The complete 2020 PHP full stack web developer bootcamp | Srinivas Vanamala, Udemy |
| 20. | Sameer Ahmed S J | Programming, Data Structures and Algorithms Using Python | IITM, NPTEL |
| | | Introduction to Machine Learning | IIT Kharagpur, NPTEL |
| | | Natural Language Processing (with honors) | National Research University Higher School of Economics, Coursera |
| | | Autopsy Basics and Hands On | Basis Technology, Autopsy |
| | | Machine Learning A-Z™: Hands-On Python & R In Data Science | Udemy |
| | | Neural Networks and Deep Learning | DeepLearning.AI, Coursera |
| 21. | Ashish Gusain | Data Science | Coursera |
| | | Machine Learning | Coursera |
| | | Deep Learning | Coursera |
| 22. | Charles V.J. | Algorithmic Toolbox | University of San Diego, Coursera |
| 23. | Kumari Misa | Javascript, HTML5, CSS, Cybersecurity | University of Michigan, Coursera |
| 24. | Anshuman Mishra | Machine Learning – Stanford | Stanford – Coursera |
| | | Neural Networks and Deep Learning | Deeplearning.ai, Coursera |
| | | Natural Language Processing In Tensorflow | Deeplearning.ai, Coursera |
| | | The Complete Self-Driving Car Course - Applied Deep Learning | Udemy |
| 25. | Pushpam Saxena | Deep Learning Specialization | Coursera |
| | | Tensorflow Specialization | Coursera |
| | | RestAPI Certification | Hackerrank |
| 26. | Seshathri S | Google IT Automation with Python | Google, Coursera |
| | | Introduction to Discrete mathematics for computer science | University of California San Diego & National Research University Higher School of Economics, Coursera |
| | | Front end development with React | The Hong Kong University of Science and Technology, Coursera |
| 27. | Vedant Sandeep Joshi | Oracle Certified Java Associate Programmer | Coursera |
| | | Deep learning Specialization | Coursera |
| | | Tensorflow In Practice Specialization | Coursera |
| | | TensorFlow: Data And Deployment Specialization Coursera | Coursera |
| | | Introduction To Data Science In Python | Coursera |

| SN | Student Name | Course Name | From |
|-----|--------------------|--|---|
| | | Applied Plotting, Charting Data Representation in Python | Coursera |
| | | Applied Machine Learning in Python | Coursera |
| | | The Complete 2020 Flutter Development Bootcamp with Dart | Coursera |
| | | Deep Learning Computer Vision™ CNN, OpenCV, YOLO, SSD & GANs | Coursera |
| | | Drone Programming Primer for Software Development | Coursera |
| 28. | Sagar Bhatia | Frontend web development with react | John Hopkins University Hong Kong University of science and technology, Coursera |
| | | Frontend web development ui and frameworks: bootstrap 4 | John Hopkins University Hong Kong University of science and technology, Coursera |
| | | HTML CSS JavaScript for web developer | John Hopkins University Hong Kong University of science and technology, Coursera |
| 29. | Abhimanyu Kumbhar | Introduction to Quantum Computing and Quantum Hardware | Summer School, IBM |
| | | Practical Quantum Computing using Qiskit and IBMQ | Electronics & ICT Academy (IIT Roorkee), Bootcamp |
| | | Introduction to Quantum Computing with IBM Quantum | The Coding School |
| 30. | Prasanna Devadiga | Deep Learning Specialization (5 courses total) | Coursera |
| | | Python for everybody Specialization (2 courses) | Coursera |
| | | Python for Data Science and Machine Learning Bootcamp | Udemy |
| | | Complete Tensorflow 2 and Keras Deep Learning Bootcamp | Udemy |
| | | React - The Complete Guide (incl Hooks, React Router, Redux) | Udemy |
| 31. | Joel Mathew Philip | Introduction to Data Science in Python | Coursera |
| | | Convolutional Neural Networks | Coursera |
| | | CNN in Tensorflow | Coursera |
| | | Improving Deep NN: Hyperparamertization | Coursera |
| | | Neural networks and DL | Coursera |
| | | Structuring ML Projects | Coursera |

Table 40: Certificate courses (Out of over 600 entries only a few are displayed)

X. Nurturing Innovation Culture through Interdisciplinary Approach

Courses at IIIT Kottayam:

1. BTech in CSE
2. BTech in CSE with specialization in AI & Data Science

3. BTech in CSE with specialization in Cyber Security
4. BTech in ECE

5. MTech in AI & Data Science for Working Professionals
6. MTech in Cyber Security for Working Professionals
7. MTech in Bigdata & ML for Working Professionals

8. Ph.D. in Mathematics
9. Ph.D. in Computer Science & Engineering
10. Ph.D. in Electronics & Communications
11. Ph.D. in Cyber Security

12. Post Doc in Electronics & Communications (already registered)
13. Post Doc in Cyber Security (Possibility of joining within 2 months after getting scholarship)
14. Post Doc in CSE (applied for scholarships, waiting for the sanction)
15. Post Doc in Mathematics (applied for scholarships, waiting for the sanction)

Started from Jan 2024

16. Integrated MTech in AI & Data Science
17. Integrated MCA in AI & Data Science
18. BCA in AI & Data Science for Working Professionals

Starting from Jan 2024: Joint Degree MS programmes for our BTech – MS students with University of Agder Norway

19. MS in CSE
20. MS in CSE with a specialization in AI & Data Science
21. MS in CSE with a specialization in Cyber Security
22. MS in ECE

Approved Courses by Senate and BOG but not yet started

23. MTech in FinTech (Approved by Senate and BOG, starting soon)
24. MTech in AI Powered IoT

New Courses under considerations:

25. BTech in AI Driven Robotics
26. BTech in HCI & Game Programming
27. MTech for Working Professionals in AI Driven Robotics
28. MTech in HCI & Game Programming

1. Data Science is a highly interdisciplinary field of computer science. Our BTech and MTech Curriculum cover almost every important subject of “Data Science”.
2. Introduced a highly interdisciplinary course namely BTech in CSE with a Specialization in Cyber Security.
3. Introduced a highly interdisciplinary course namely MTech (Cyber Security) for Working Professionals.

4. Soon launching MTech in FinTech, which is a highly interdisciplinary course for Working Professionals.

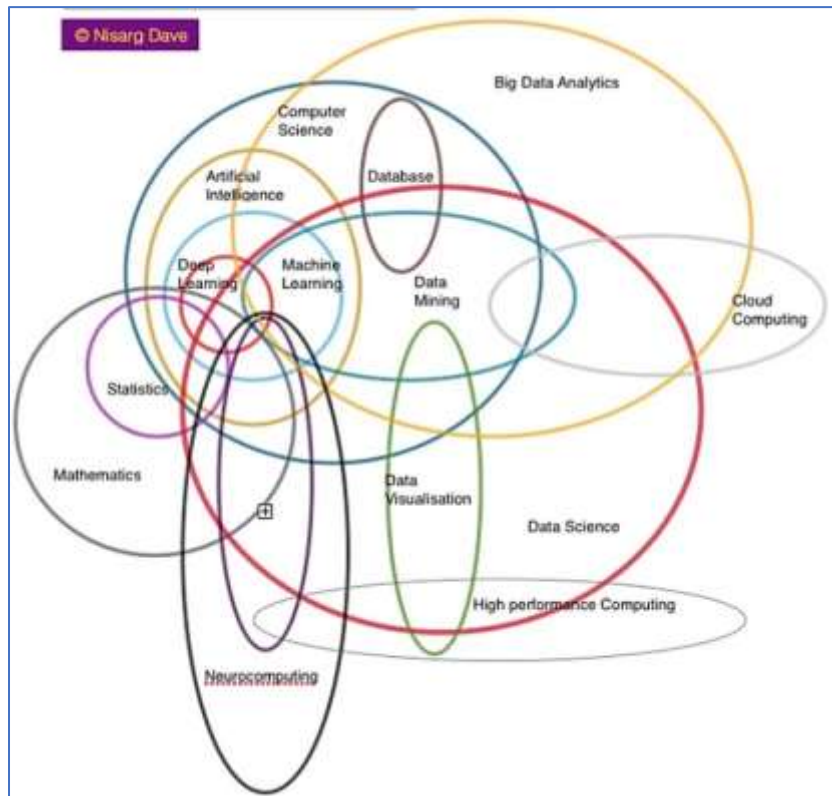


Fig. 05: Data Science is a Highly Interdisciplinary field

| | | | |
|--|--------------------------|-------------------------------------|------------------|
| Cloud Security | IOT Security | Blockchain | Network Security |
| Biometric Security | Wireless Security | Digital Forensics | Quantum Security |
| Database Security | Lightweight Cryptography | | Cryptography |
| Cyber Security: Highly Interdisciplinary Field | | | |
| Security Risk Management | | Secure Software Engineering | |
| Mobile Forensics and Security | | Multimedia Security & Forensics | |
| Distributed System Security | | Machine Learning and Cyber Security | |
| Cyber Ethics, Privacy and Legal Issues | | | |
| Embedded System and Hardware Security | | | |
| Financial crime, Motivations and Typologies | | | |
| Criminal Psychology and Behavior Intelligence | | | |
| Information Security Standards, Policies, Strategies & Audits | | | |
| Penetration Testing, Vulnerability Analysis, Reverse Engineering, IDS and Malware Analysis | | | |

Fig. 06: Cyber Security is a Highly Interdisciplinary field

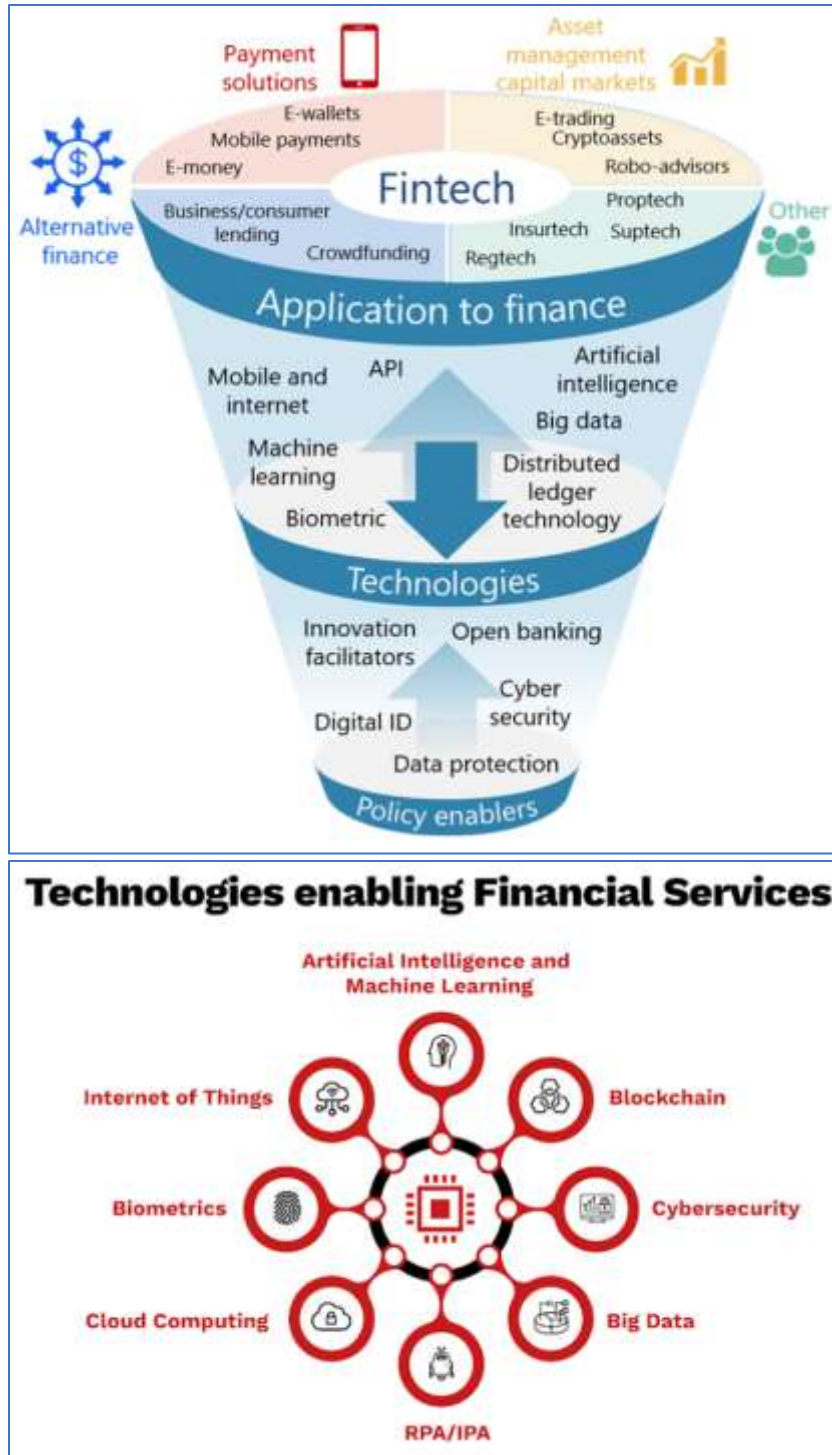


Fig. 07: FinTech is a highly Interdisciplinary field

5. We have adopted the model of Mathematics Department of IIT Kharagpur, which is offering MTech (Computer Science) and PhD (Computer Science) since 1990. We preferred Maths faculty with interdisciplinary background such as Computing Engineering and Cyber Security.

| SN | Name of Mathematics Faculty | Qualifications | Specialization in Computer Science Subjects |
|----|-----------------------------|---|--|
| 1. | Dr. Bakkyaraj T | Post Doc from ICP, University of Stuttgart, Germany, Post Doc from Institute of Mathematical Sciences Chennai, Former faculty of NIT Puducherry | Data Science AI ML |
| 2. | Dr. Dhanyamol M V | Ph.D. from NIT Calicut | <ul style="list-style-type: none"> Graph Theory Social Network Analysis |
| 3. | Dr. Rubell Marion Lincy G | PhD from NIT Calicut | <ul style="list-style-type: none"> Stochastic Learning Financial Decision Making Fuzzy Expert Systems Artificial Intelligence – Reinforcement Learning Machine Learning Data Science Deep Learning Quantum Computing and Programming Quantum Machine Learning |
| 4. | Dr. A Balu | Ph.D. from Alagappa University, Karaikudi. Former Faculty of NIT Tiruchirappalli, NIT Calicut | <ul style="list-style-type: none"> Applied Cryptography Pairing Based Cryptography Attribute Based Encryption Zero-Knowledge Protocol (ZK-SNARKs) <p>Now shifted to Cyber Security Department.</p> |
| 5. | Dr. Susheel Kumar Joshi | PhD (Maths) from South Asian University (An international university established by SAARC countries) New Delhi, M.Tech. (System Analysis and Computer Applications) NIT Surathkal | <ul style="list-style-type: none"> Cyber Security Swarm Intelligence Nature-inspired Optimization Techniques Evolutionary Computation Optimization Algorithms Soft Computing <p>Now shifted to Cyber Security Department.</p> |
| 6. | Dr. Asha Sebastian | Ph.D. from NIT Trichi, M.Sc. (Tech) in Mathematics and Scientific computing from NIT Calicut | <ul style="list-style-type: none"> Data Science Quantum Computing |
| 7. | Dr. Murugan D | Ph.D. from NIT Trichi | <ul style="list-style-type: none"> Cyber Security Fluid Mechanics Bio Fluid Mechanics Operation Research Data Science |
| 8. | Dr. Suriyapriya K | Ph.D. from NIT Trichi | Fuzzy Logic |
| 9. | Dr. Riyasudheen T K | Ph.D. from NIT Trichi Former Chief Executive Officer (CEO), MathLab Research Private Limited | <ul style="list-style-type: none"> FinTech Computational Mathematics Computational Finance Fractional PDEs |

| | | |
|--|--|---|
| | | <ul style="list-style-type: none"> Artificial Neural Network (ANN) methods for PDEs Supervised Learning Techniques for Option Pricing |
|--|--|---|

Table 41: Maths Department with interdisciplinary background

6. The faculty members of IIIT Kottayam are doing a lot work in various Interdisciplinary areas through Research, Funded Projects, Innovation, and Startups.

| SN | Interdisciplinary Area | External International / National Institutes / Organizations / Industries Involved or Interdisciplinary Innovation and Start-ups from ATAL / MSME Incubation Centers | Funded Research Projects | PhD / MTech / MPhil Thesis Guiding/ Guided | Number of Research Papers (RP) / Book Chapters (BC) / Patents (by faculty & Start-ups) (P) | Faculty Member |
|-------------------------------------|--|--|--------------------------|--|--|---|
| Agriculture, Food and Forest | | | | | | |
| 1. | Agriculture and Artificial Intelligence | Orzico, USA | Y | | 1 P | Dr. Ebin Deni Raj |
| 2. | Agriculture and Artificial Intelligence | Microsoft, USA Krishi Bhavan Palakkad | | | | Dr. Ebin Deni Raj |
| 3. | Forestry and Artificial Intelligence | University of New Brunswick, Canada | | | | Dr. Ebin Deni Raj |
| 4. | Agriculture – Rubber Plantation | | | | 7 RP | Dr. Suchithra M S |
| 5. | Agriculture using IoT | | | | 2 RP | Dr. Koppala Guravaiah |
| 6. | Agriculture and IoT | Rajiv Gandhi University | | | 1 P | Dr. Keshab Nath, Dr. P.B. Acharjee Dr. Rupam Kumar Sharma |
| 7. | Artificial Intelligence for health and diet management | Amerald Care Private Limited | | | 2-Patent, 1-Other IP | Dr. Shajulin Benedict & AIC Team |
| 8. | Biotech for pest control | Eco Bugs India Private Limited | | | 2-Other IP | Dr. Shajulin Benedict & AIC Team |
| 9. | IoT Cloud technologies for Improving quality and hygiene of traditional Indian street food | Water N Spices Foodsz Private Limited | | | 1-Patent | Dr. Shajulin Benedict & AIC Team |
| 10. | Social IoT Cloud platform for ultra-local food delivery | People Reacher Private Limited | | | 1-Other IP | Dr. Shajulin Benedict & AIC Team |
| 11. | Yield Advisory for Rubber Tree | | | | 1RP | Dr. Shajulin Benedict |
| 12. | Machine learning in Agriculture | | | PhD – 1 (ongoing) | | Dr. Goutam Mali |

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|-----|---|--|--|--|--|---|
| 13. | Machine learning in Agriculture and Security (Smart Farming) | | | PhD – 1 (ongoing) | | Dr. E. Silambarasan |
| 14. | Deep learning Methods in Rubber Latex Harvesting Field | | | PhD – 1 (ongoing) | | Dr. Suchithra M S |
| 15. | Leaf disease prediction methods using 3D images | aiRENDER Technology Private Limited, Bangalore | | | | Dr. Suchithra M S |
| 16. | Leaf disease prediction methods using 2D images | | | | 4 RP | Dr. Suchithra M S |
| 17. | Detecting Brinjal Plant's Pest and Diseases | Tamil Nadu Agriculture University, Coimbatore | DBT A Light-weight Mobile Application for Detecting Brinjal Plant's Pest and Diseases using Efficient Deep Learning Algorithm to provide Automated Advisory Services | | | Dr. Selvi C, Dr. Koppala Guravaiah, Dr. Vengadeswaran S |
| 18. | Irrigation System based on Weather Forecasting using IoT | | | | 1 RP | Dr. Koppala Guravaiah |
| 19. | Design And Simulation of Fuzzy Logic-Based Automatic Environmental Controller for Oyster Mushroom Cultivation | | | | 1 RP | Dr. Koppala Guravaiah |
| 20. | Internet of Things for Smart Gardening and Securing Home from Fire Accidents | | | | 1 RP | Dr. Koppala Guravaiah |
| 21. | Plant disease detection using Deep learning | | | PhD -1 (ongoing) | 1 RP 1 BC | Dr. Jayakrushna Sahoo |
| 22. | Rubber Clone Identification using Image Processing Techniques | Rubber Research Institute India, Kottayam | | PhD - 1 (ongoing) | | Dr. Lidiya Lilly Thampi Dr. Leena Mary |

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|---|--|--|---|--|--|-------------------------|
| 23. | Adulteration detection in Ayurveda | Vaidyaratnam Ayurveda Research Institute, Kerala | | PhD - 1 (ongoing) | 2 RP | Dr. Kala S |
| 24. | Leaf Species Identification | | | B. Tech project | 1 RP | Dr. Lidiya Lilly Thampi |
| 25. | Design and Development of IoT Assisted Plant Health monitoring | | | | 1 Patent Published | Dr. Ragesh G K |
| 26. | E-nose for Aroma Analysis in Ayurveda | IIT Indore CPS Foundation, Digialytic Technologies Chennai, Aerobits Biotech Pvt. Ltd. | Lab-to-Market Scheme, funded by IIT Indore CPS Foundation | | 1 Patent (in process) | Dr. Ragesh G K |
| 27. | Hardware Software Co-design for a Low-Cost Egg Quality Prediction and Anomaly Detection System | Collaborated with IIT Indore CPS Foundation | Chanakya scheme- PhD- IIT Indore CPS Foundation. | PhD - 1 (ongoing) | 1 RP and 1 patent (in progress) | Dr.Ragesh G K |
| Medical, Health Care, Human Body | | | | | | |
| 28. | Health and Artificial Intelligence | Industry: Breath of Hope | | | | Dr. Ebin Deni Raj |
| 29. | Brain-Computer Interaction | Scientist and Doctors at NIMHANS Bangalore | | Ph.D. - 1 (Ongoing) | | Dr. Bini A A |
| 30. | Speech synthesis and Artificial Intelligence | TCS Rapid Labs | | | | Dr. Ebin Deni Raj |
| 31. | Bedridden patients using IoT | | | | 1 RP | Dr. Koppala Guravaiah |
| 32. | Universal Sign Language for Deaf | | | Guided PhD | 15 RP | Dr. Rajiv Dharaskar |
| 33. | Intelligent Multimodal System | | | Guided PhD | 22 RP | Dr. Rajiv Dharaskar |
| 34. | Speech Synthesis for Indian Languages | | | Guided PhD | 10 RP | Dr. Rajiv Dharaskar |
| 35. | Fetal Heart Sound Signals | | | Guided MTech | 4 RP | Dr. Rajiv Dharaskar |
| 36. | Blood Count Related Diseases | | | Guided MTech | 3 RP | Dr. Rajiv Dharaskar |
| 37. | Early Detection of Lung Cancer Through Breath Analysis | | | | 1 RP | Dr. Ragesh G K |
| 38. | Non-invasive Diagnosis of COPD | | | | 1 RP | Dr. Ragesh G K |
| 39. | Digital Pathology | | | Ph.D. – 1 (Ongoing) | | Dr. Keshab Nath |

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|-----|---|--|---|--|--|----------------------------------|
| | | | | | | Dr. Jayakrushna Sahoo |
| 40. | Intelligent Medical Device | | | M.Tech (Ongoing) | | Dr. Keshab Nath |
| 41. | Evidence-based data analytics in health care using the EHR and drug is recommended using the Sentiment Analysis with Evidence-based methodology | | | M.Tech | 1 RP | Dr. P. Victor Paul |
| 42. | Health Technologies | Collaborated with University of Glasgow, UK | Wearable for Monitoring the health of Mother and Fetus during Pregnancy | | One Indian Patent | Dr. Ragesh G K |
| 43. | Ayurveda | Vaidya Rathnam Ayurvedic Research Institute | Design of Inflammation Therapy Device | | One Indian Patent (In preparation) | Dr. Ragesh G K |
| 44. | Ayurveda | Vaidya Rathnam Ayurvedic Research Institute | Development of Electronic Nose and Tongue | | | Dr. Ragesh G K |
| 45. | Cloud platform to provide assisted fitness coaching | Cuttlfish Fitness (Opc) Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 46. | IoT Cloud solutions to deliver emergency health services in remote locations | Rudra Digital Marketing Private Limited | | | 1- Other IP | Dr. Shajulin Benedict & AIC Team |
| 47. | Artificial Intelligence and IoT in wound treatment | Romemariya Technology Consultancy Services Private Limited | | | 3-Patent, 3-Other IP | Dr. Shajulin Benedict & AIC Team |
| 48. | Development of advanced critical health care devices | Eduhex Technologies Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 49. | Healthcare device | Startup from ATAL - Lukahealthcare Pvt. Ltd. | Production-level | nil | NIL | Dr. Shajulin Benedict & AIC Team |
| 50. | Healthcare | Startup - Desintox Pvt. Ltd | Research-level | nil | Patents - 2 (Applied) | Dr. Shajulin Benedict & AIC Team |

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|-----|--|--|--------------------------|--|--|---|
| 51. | Diabetes control through AAKA wafers | | | | 1 Indian Patent | Dr. Milind Thomas Themalil |
| 52. | Explainable AI in Medical domain | | | 1 | | Dr. Selvi C |
| 53. | IoT based monitoring and Bedsores Prevention System for Bed Ridden Patients | | | | 1RP | Dr. Koppala Guravaiah |
| 54. | AI-Based Light-Weight Mobile App to Monitor, Assist and Alert Alzheimer Patients and Caretakers | | KSCSTE | | | Dr. Vengadeswaran S, Dr. Shajulin Benedict, Dr. Selvi C |
| 55. | Machine Learning Approaches for Mammogram Classification | | | PhD - 1 (ongoing) | 1 RP 2BC | Dr. Jayakrushna Sahoo |
| 56. | IoT Based Smart Health Monitoring system for Armed Forces | | PSCMRCET | | 1P,1BC | Dr. A Ravi |
| 57. | Hearing Aid and Method Employed in its Functioning | | PSCMRCET | | 1P | Dr. A Ravi |
| 58. | Neuroscience Research | NIMHANS Bangalore and IISc Bangalore | | PhD - 1 (ongoing) | 2 RP | Dr. Kala S |
| 59. | Heartbeat classification on hardware | IIT Hyderabad | | BTech Project | 1 RP | Dr. Kala S |
| 60. | IoT for Healthcare | Reflections Info Systems, Trivandrum | | BTech Project | 1 RP (submitted) | Dr. Kala S |
| 61. | AI Based Decision Support System for Early Detection and Prediction of Gynecological Emergencies | Collobrated with LIRRIS ERNAKULAM. NEOS START UP incubated in IIT Indore | | PhD - 1 (ongoing) | 1 BC | Dr. Lidiya Lilly Thampi |
| 62. | Automated Diagnosis of Covid-19 and Pneumonia Using Transfer Learning | | | M. Tech Project | 1 RP | Dr. Lidiya Lilly Thampi |
| 63. | Design of a Single Smart Handheld Device for Controlling and Diagnosis of Asthma | | | | 1 PATENT | Dr.Ragesh G K |
| 64. | Wireless Body Area Networks | | | | 4 RP | Dr.Ragesh G K |

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|---------------------|--|--|--|--|--|---|
| 65. | Doily- Sanitary Napkin Vending Machine- Feminine Hygiene | | | | 1 patent | Dr.Ragesh G K |
| 66. | Multi-purpose cauterization tool | | | | 1 patent | Dr.Ragesh G K, Anuroop KB |
| 67. | Wearable Sensor Based Anxiety Disorder Prediction using Federated Learning | Collaborated with IIT Indore CPS Foundation, Digialytic Technologies Chennai; Vaidyarathnam Ayurvedic Research Institute, Thrissur. | Chanakya Scheme-PhD; IIT Indore CPS Foundation | PhD - 1 (ongoing) | 1 RP, 1 Patent (in Process) | Dr.Ragesh G K |
| 68. | Remote Healthcare monitoring | | | | 1 RP | Dr. Shajulin Benedict |
| 69. | Graph-Theoretic Analysis of Functional Brain Networks in Neuro degenerative Diseases | | | PhD - 1 (ongoing) | | Dr. Dhanyamol M V, Dr. Divya Sindhu Lekha |
| 70. | Detecting diabetic retinopathy using deep learning techniques | | | BTech Project | 1RP | Dr. Rubell Marion Lincy G |
| 71. | Motor Imagery-Based Brain-Computer Interface Using Fusion of Deep Convolutional Neural Network with Wavelet Scattering Network | | | MTech Project | 1RP | Dr. Rubell Marion Lincy G |
| 72. | Early detection of neurodegenerative disorders like alzheimer's disease using deep learning on retinal images | | | MTech Project and PhD (ongoing) | 1RP (submitted) | Dr. Rubell Marion Lincy G |
| 73. | Security in Wireless Body Area Networks | | | | 2 RP and 1 RP (under process) | Dr. Bhanu Chander |
| Astrophysics | | | | | | |
| 74. | Astrophysics | Moscow state University, Russia Indian Institute of Astrophysics, Bangalore | | PhD - 1 (ongoing) | | Dr. J. V. Bibal Benifa |
| Oceanography | | | | | | |

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|-------------------------|---|--|--------------------------|--|--|--|
| 75. | Oceanography | National Institute of Ocean Technology, Chennai | | PhD - 1 (ongoing) | | Dr. Bibal Benifa J V |
| 76. | Underwater Imaging | Department of Electronics, CUSAT, Kerala | | | 2 RP | Dr. Lidiya |
| Bioinformatics | | | | | | |
| 77. | Bioinformatics | | | | 3 RP (SCI Journals) | Dr. Samson Anosh Babu P |
| 78. | Machine Learning in Bioinformatics | Industry: Computational Genomics Scientist at AgriGenome Labs Pvt. Ltd. Kochi, who is Ph.D. & Post Doc in Bioinformatics from NCBS, Bangalore | | PhD - 1 (ongoing) | 1 RP | Dr. Jayakrushna Sahoo Dr. Oommen K Mathew |
| 79. | Protein family classification and Drug Target interaction studies | | | PhD - 1 (ongoing) | 2 RP 2BC | Dr. Jayakrushna Sahoo |
| Biology, BioTech | | | | | | |
| 80. | Deep Learning and Computational Biology | | | | 1 BC | Dr. Samson Anosh Babu P |
| 81. | Computational Biology | Sikkim University | | | 1 RP | Dr. Keshab Nath Dr. Swarup Roy |
| 82. | Bio-Inspired Algorithm | | | M.Tech | 5 RP | Dr. P. Victor Paul |
| 83. | Biotech R&D and Quality assurance | Trophic Biosystems Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| Security | | | | | | |
| 84. | Smart Home Security | | | PhD - 1 (ongoing) | 1 RP | Dr. Jayakrushna Sahoo |
| 85. | Privacy and Security | | | PhD - 1 (ongoing) | 1 RP | Dr. Arun Cyril Jose |
| 86. | Smart Office Security | | | | | Dr. Arun Cyril Jose |
| 87. | Intelligent Transportation and Connected Vehicles | | 2-AICTE RPS, KSCSTE | | 2 Indian Patent Published 6 RP, 2 BC | Dr. Abin Oommen Philip |
| 88. | Portable bicycle mobile charger-International | | | | 1 UK Patent | Dr. Milind Thomas |

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|-----|--|--|--------------------------|--|--|-----------------------|
| | Design Classification: Equipment for production, distribution or Transformation of Electricity | | | | | |
| 89. | Botnet detection system | | | PhD - 1 (ongoing) | 1RP | Dr. Amit Kumar Roy |
| 90. | Efficient Handover Authentication Protocol with Message Integrity for Mobile Clients in Wireless Mesh Networks | | | | 1 RP (revision stage) | Dr. Amit Kumar Roy |
| 91. | Common key multi-hop packet authentication protocol for WMN | | | | 1 RP (revision stage) | Dr. Amit Kumar Roy |
| 92. | Securing edge devices in IoT networks | | | PhD - 1 (ongoing) | | Dr. Goutam Mali |
| 93. | Enhancing security in 6G using Quantum Key Distribution (QKD) | | | PhD - 1 (ongoing) | | Dr. E. Silambarasan |
| 94. | Exploring novel quantum-resistant cryptographic primitives based on isogenies and algebraic structures. | | | PhD - 1 (ongoing) | | Dr. A. Balu |
| 95. | HomeID: Home Visitors Recognition using Internet of Things and Deep Learning Algorithms | | | | 1 RP | Dr. Koppala Guravaiah |
| 96. | Machine Learning Approaches to Enhance the Security of Smart Homes | | | M.Tech (1) Completed PhD - 1 (ongoing) | 1 BC | Dr. Jayakrushna Sahoo |
| 97. | Federated Learning Schemes for Mobile IoT | | | PhD – 1 (ongoing) | 2 RP | Dr. Jayakrushna Sahoo |
| 98. | Secure Image Transmission through Crypto- OFDM System using Rubik's Cube Algorithm over an AWGN channel | | PSCMRCET | | 1 P | Dr. A Ravi |
| 99. | Hardware Security | IIT Madras | | PhD – 1 (ongoing) | | Dr. Kala S |

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|-----------------------------------|--|--|--------------------------|--|--|----------------------------------|
| 100. | Hardware Security | University of Florida | | BTech Project | 1 RP | Dr. Kala S |
| 101. | WBAN -Cloud Security | | | | 5 RP | Dr. Ragesh G K |
| 102. | IoT Security | | | | 2 RP | Dr. Ragesh G K |
| 103. | Secure Method-Sensitive Information of Mobile Users | | | | 1 P | Dr. Ragesh G K |
| 104. | UAV Security | IIT Kanpur; IIST Trivandrum | | | | Dr. Ragesh G K |
| 105. | Physical Layer Security for Green IoT | Henan Polytechnic University, China | | | 1 RP- IEEE transaction | Dr. Ragesh G K |
| 106. | Blockchain - IoT security | | Consultancy Project - 2 | PhD - 1 (ongoing) | 8 RP 1 Patent | Dr. Shajulin Benedict |
| 107. | WSN and IoT Security | | | | 4 RP,6 BC | Dr. Bhanu Chander |
| Transportation and Traffic | | | | | | |
| 108. | Vehicle Monitoring using Deep Learning & IoT | | | | 2 RP | Dr. Koppala Guravaiah |
| 109. | Traffic Signal Control | | | M.Tech | 2 RP | Dr. P. Victor Paul |
| 110. | Peer to peer transportation solutions using cloud technologies | Vayana Mobility Private Limited | | | 5-Other IP | Dr. Shajulin Benedict & AIC Team |
| 111. | Incident detection and evidence management for Intelligent Transportation | | AICTE RPS, KSCSTE | | 2 Indian Patent Published, 6 RP, 2 BC | Dr. Abin Oommen Philip. |
| 112. | Portable bicycle mobile charger-International Design Classification: Equipment for production, distribution or Transformation of Electricity | | | | 1 UK Patent | Dr. Milind Thomas |
| 113. | Secure V2V communication through deep learning driven compression | | | Ph.D. (ongoing) | | Dr. Rajesh G |
| 114. | Vehicle Monitoring using Internet of Things | | | | 1 RP, 1 Patent Published | Dr. Koppala Guravaiah |
| 115. | Design and Evolution of LTE and 5G Technology for Advanced Wireless Communications | MHRD-AICTE | AICTE, RPS | M.Tech. - 1 | 1RP | Dr. A Ravi |

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|----------------------|---|--|------------------------------------|--|--|----------------------------------|
| 116. | AI-based Mobility Model for Alternative Fuel Vehicles (AFV) to optimize the route | | SERB | PhD – 1 (ongoing) | | Dr P Victor Paul |
| 117. | AI-Flynet: Developing AI-driven protocol stacks for Enhanced UAV communication | University of North Decotah USA, IIST | | | | Dr. Ragesh G K |
| 118. | Shared Mobility | | | | 1 RP | Dr. Shajulin Benedict |
| Fire Fighting | | | | | | |
| 119. | Fire Monitoring in home using IoT | | | | 2 RP | Dr. Koppala Guravaiah |
| 120. | Prescriptive Analytics based Safety Point Alarm System | Effetronics Pvt.Ltd | Consultancy Project | | 1RP | Dr. A Ravi |
| Energy | | | | | | |
| 121. | Energy Analysis | CDAC, Bangalore | | Ph.D. -1 Ongoing | 2 RP | Dr. Shajulin Benedict |
| 122. | Affordable sustainable energy systems for Domestic Consumers | Dml Industries Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 123. | Clean energy solutions for rural applications | Aigon Mechatronics Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 124. | Optimizing Wind Farm Layouts for Enhanced Efficiency in the Renewable Energy Sector | Dept of Electrical Engineering and Computer Science, University of Stavanger, Norway | | | 1 RP (communicated) | Dr. Susheel Kumar Joshi |
| 125. | Energy Efficient Evaluation Framework for OPEN-RAN | University of Glasgow, UK | UK-INDIA Future Network Initiative | | 1 RP, 1 BC 1 conference publication | Dr. Ragesh G K |
| 126. | Implementation of an Autonomous Wireless Body Area Network (WBAN) For IoT Enabled Healthcare Applications Using Wearable Sensor Node with Solar Energy Harvesting | | | | 1 P | Dr. Ragesh G K |
| 127. | Energy Efficiency | | 3 projects | Ph.D. - 2 (Ongoing) | 26 RP | Dr. Shajulin Benedict |

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|--|---|--|--------------------------|--|--|----------------------------------|
| 128. | Energy storage (Design and development of pseudo-capacitors using conducting polymer and polymer composite) | United Arab Emirates University, UAE. | 4 projects | | 4 RP (work in progress) | Dr. S.Venkatesh |
| 129. | Artificial Intelligence in Energy Sector | | | | 1 RP (in progress) 1 BC | Dr. Bhanu Chander |
| Cognitive Science, Human Intelligence | | | | | | |
| 130. | Emotion Intelligence | | | Ph.D. - 1 (Ongoing) | | Dr. Shajulin Benedict |
| 131. | Facial Emotion | | | | 2 RP | Dr. Shajulin Benedict |
| Financial Technology, Business | | | | | | |
| 132. | Artificial Intelligence in Fintech | | | | 3 RP | Dr. Rubell Marion Lincy G |
| 133. | Investment Analytics | | | M.Tech | 4 RP | Dr. P. Victor Paul |
| 134. | Direct-To-Community Decentralized Crypto Currency Platform | Bittron Labs Private Limited | | | 1-Other IP | Dr. Shajulin Benedict & AIC Team |
| 135. | Cloud technologies to digitalize local businesses | Unvoiced Media and Entertainment Pvt Ltd | | | | Dr. Shajulin Benedict & AIC Team |
| 136. | Cloud platform for direct asset renting | Browku Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 137. | Artificial Intelligence based claim management system | Anspruch Techsoft Private Limited | | | 1-Other IP | Dr. Shajulin Benedict & AIC Team |
| 138. | Roboadvisor - Artificial Intelligence based share market advisor | Upmarket Fintech Solutions India Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 139. | Stochastic learning and AI in financial decision making | | | PhD Ongoing | 1 RP (Submitted) | Dr. Rubell Marion Lincy G |
| 140. | Financial fraud detection using Quantum Machine Learning | | | PhD Ongoing | | Dr. Rubell Marion Lincy G |
| 141. | Credit Risk Analysis using Quantum Machine Learning | | | PhD Ongoing | | Dr. Rubell Marion Lincy G |
| Quantum Computing | | | | | | |
| 142. | Quantum Computing for Finance | IBM Research, India | | | | Dr. Rubell Marion Lincy G |

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|---|--|--|---|--|--|----------------------------------|
| 143. | Quantum Bitprobe Model | | Submitted one project | Ph.D. - 1 (ongoing) | | Dr. Mirza Ghalib |
| 144. | Financial fraud detection using Quantum Machine Learning | | | PhD Ongoing | | Dr. Rubell Marion Lincy G |
| 145. | Credit Risk Analysis using Quantum Machine Learning | | | PhD Ongoing | | Dr. Rubell Marion Lincy G |
| E-Learning, Teaching & Learning | | | | | | |
| 146. | Learning Evaluation System using Genetic Algorithm | | | Guided MTech | 2 RP | Dr. Rajiv Dharaskar |
| 147. | Educational Data Analytics | | | PhD | 3 RP | Dr. P. Victor Paul |
| 148. | Augmented Reality for Classrooms | Infusory Future Tech Labs Pvt Ltd | | | 1-Other IP | Dr. Shajulin Benedict & AIC Team |
| 149. | Project Based Learning Pedagogy | Olin College of Engineering, Boston, USA | | | | Dr. Milind Thomas Themalil |
| 150. | IoT for Intelligent Systems | University of Glasgow | Trans National Education-British Council Funded | | | Dr. Ragesh G K |
| 151. | Edge Computing Course | Cardiff University, UK IIT Ropar | Course Development | Project | | Dr. Shajulin Benedict |
| Mechanical Engineering / Manufacturing | | | | | | |
| 152. | Real Time Image Processing of Welding Process | | | Guided MTech | 1 RP | Dr. Rajiv Dharaskar |
| 153. | Cloud Manufacturing | International | Non-funded student research | M.S. | nil | Dr. Shajulin Benedict |
| 154. | ICT solutions for industrial applications | Nexpression Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 155. | Artificial Intelligence and IOT based solutions for Industries | Deepqai Business Solutions Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 156. | IIoT - Cloud Manufacturing | | | PhD - 1 | 8 RP | Dr. Shajulin Benedict |
| 157. | Height Adjustable Table | | | | 1 Patent (Design) | Dr. Shajulin Benedict |
| Space and Satellite | | | | | | |

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|--------------------|--|--|--------------------------|--|--|-------------------------|
| 158. | Hybrid Satellite-UAV NOMA Systems | Benha University, Egypt , Sixty-third Research Institute, National University of Defense Technology, Nanjing, China Physics and Electronic Information Engineering, Henan Polytechnic University, China | | | 1 RP | Dr. Ragesh G K |
| 159. | Design of microstrip antennas with isoflux patterns for small satellite applications (ARMA) | XLIM, University of Limoges, France | CNES, France | | 2 RP | Dr. Milind Thomas |
| 160. | Transparent solar panel-based antennas for small satellite applications | Celestial Space Technologies, TU Berlin, Germany | | | 1 RP | Dr. Milind Thomas |
| 161. | Wireless Broadcasting System Using Selective Switching | ATAL | | | 1P | Dr. A Ravi |
| 162. | Performance of hybrid satellite-UAV NOMA systems | Benha University, Egypt | | | 1 RP | Dr. Ragesh G K |
| Earthquake | | | | | | |
| 163. | Earthquake Predictions | | | | 1 RP | Dr. Sivaiah Bellamkonda |
| Smart City | | | | | | |
| 164. | Smart City | Industry-Academia Collaboration | Sponsored R&D Project | BTech Students | 1 RP | Dr. Kala S |
| 165. | Design and Development of IoT devices and systems for Smart City and Smart Building (IDEA Lab) | MHRD-AICTE | AICTE, PSCMRCET | | 2RP | Dr. A Ravi |
| 166. | Smart city | | | | 1 Book | Dr. Shajulin Benedict |
| 167. | Smart city | | | | 6 RP | Dr. Shajulin Benedict |
| 168. | Smart city | | | | 1 Patent (design) | Dr. Shajulin Benedict |
| Mathematics | | | | | | |

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|-----------------|--|--|---|--|--|--------------------------|
| 169. | Modeling Information Diffusion in Social Networks with Partial Differential Equations | | | | 14 RP | Dr. Avinash Kumar Mittal |
| 170. | Studies on Exact Solutions of Fractional Differential and Differential -Difference Equations | | | Ph.D. - 1 (ongoing) | 3 RP and 2 Scopus Conference Proceedings | Dr. Bakkyaraj |
| 171. | Solving Differential Equations using Deep learning Techniques (PINNs) | | | Ph.D. - 1 (ongoing) | One conference paper is presented | Dr. Bakkyaraj |
| 172. | Image Denoising using Autoencoder | | | Ph.D. - 1 (ongoing) | One conference paper is presented | Dr. Bakkyaraj |
| 173. | Fluid Mechanics | | | | 6 RP and 1 Scopus Conference Proceeding | Dr. Murugan D |
| 174. | Surrogate optimization and its applications | | | PhD – 1 (Ongoing) | | Dr. Susheel Kumar Joshi |
| 175. | Fuzzy graph theory applied in network connectivity | | | 3 M Sc Mathematics projects guided | 5 SCI & 2 Scopus RP, 2(B) | Dr. Binu M |
| 176. | Fuzzy Median Graphs and related applications | | | PhD – 1 (Ongoing) | 2 RP | Dr. Dhanyamol M V |
| 177. | Convexity in Fuzzy Graphs | | | PhD – 1 (Ongoing) | One conference paper is presented | Dr. Dhanyamol M V |
| Hardware | | | | | | |
| 178. | Hardware for Artificial Intelligence | TU Dresden, Germany | Indo-German (IGSTC -DST) funded Project of Rs. 39 Lakhs | | | Dr. Kala S |
| 179. | IoT based Streetlight Controller System | | Eurth Techtronics Pvt Ltd | | 1RP | Dr. A Ravi |
| 180. | Hardware for AI | TU Dresden, Germany | IGSTC funded project (39 Lakhs) | PhD – 1 (Ongoing) | 4 RP | Dr. Kala S |

| SN | Interdisciplinary Area | External International / National Institutes / Organizations / Industries Involved or Interdisciplinary Innovation and Start-ups from ATAL / MSME Incubation Centers | Funded Research Projects | PhD / MTech / MPhil Thesis Guiding/ Guided | Number of Research Papers (RP) / Book Chapters (BC) / Patents (by faculty & Start-ups) (P) | Faculty Member |
|--|---|--|----------------------------------|--|--|--|
| 181. | Desing and development of Deep learning on hardware | CUSAT, Kerala | | PhD – 1 (Ongoing) | 2 RP | Dr. Kala S |
| 182. | Highly Isolated Antenna Array using Substrate Integrated Waveguide for 5G and Beyond networks | DAAD GERMANY-DST | IGSTC Funded-35 lakhs INR | 1 Post Doc (ongoing) | 2 RP | Dr. Ragesh G K |
| 183. | Isolation enhancement of CPW fed MIMO array using substrate integrated waveguide (SIW) techniques for 5G and beyond | DST | IGSTC Funded-4.5 LACS+ 4400 EURO | 1 Post Doc (ongoing) | 1 RP | Dr. Ragesh G K |
| Animal | | | | | | |
| 184. | Animal Emotions | International - TUM-Germany | Non-funded project | M.S. | 1 RP | Dr. Shajulin Benedict |
| 185. | IoT based Collar Band for monitoring illicit use of Captive Elephants | | | | 1 IP | Dr. Abin Oommen Philip, Dr. Panchami V |
| 186. | Elephant Emotion | | | PhD – 1 (Ongoing) | 1 RP | Dr. Shajulin Benedict |
| 187. | Fish Feeder | | | | 1 Patent (Design) | Dr. Shajulin Benedict |
| Environment, Pollution and Global Warming | | | | | | |
| 188. | Pollution Control | | MeitY (submitted) | | 3RP | Dr. P. Victor Paul |
| 189. | IT solutions for environmental protection | Technoace Consultancy Services Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 190. | IoT based monitoring device | | | | 1 IP | Dr. Panchami V, Dr. Abin Oommen Philip |
| 191. | Water Quality | | | Ph.D. - 1 | 4 RP | Dr. Shajulin Benedict |
| 192. | Air Quality | | | | 3 RP | Dr. Shajulin Benedict |
| 193. | Carbon Emission | | | | 1 RP | Dr. Shajulin Benedict |
| Job, Skill Development and Recruitment | | | | | | |
| 194. | Artificial Intelligence and Cloud based Solutions for the Unorganized Jobs (GigJobs) sector | RRR Gig Jobs & Services Private Limited | | | | Dr. Shajulin Benedict & AIC Team |

| SN | Interdisciplinary Area | External International / National Institutes / Organizations / Industries Involved or Interdisciplinary Innovation and Start-ups from ATAL / MSME Incubation Centers | Funded Research Projects | PhD / MTech / MPhil Thesis Guiding/ Guided | Number of Research Papers (RP) / Book Chapters (BC) / Patents (by faculty & Start-ups) (P) | Faculty Member |
|---|---|--|--------------------------|--|--|--|
| 195. | Technology and skill development for rural population | Procis Brainlabs Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 196. | Empowering tribal youth by providing training and employment | Balutedaar (Opc) Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| Disable Persons | | | | | | |
| 197. | Robotic assistive devices for disabled persons | Desintox Technologies Private Limited | | | 2-P | Dr. Shajulin Benedict & AIC Team |
| 198. | Third Eye: Object Recognition and Speech Generation for Visually Impaired | | | | 1 RP | Dr. Koppala Guravaiah |
| 199. | Smart-elevator for wheelchair bound people | | | B.Tech (Hons) project | 1 patent (in process) | Dr. S.Venkatesh |
| Civil Engineering & Construction | | | | | | |
| 200. | Cloud platform for construction management | Catalog Technologies Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| Waste Collection and Management | | | | | | |
| 201. | Block-Chain solution for waste collection and management | Teamstarbase Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 202. | Sustainable energy generation in combination with waste management | Den N Den Sustainable Solutions Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 203. | Smart Bin | | | | 1 Patent (Design) | Dr. Shajulin Benedict |
| Arts | | | | | | |
| 204. | Social E-commerce platform for artists and craftsmen | Fluxfed Technologies Private Limited | | | 1-Other IP | Dr. Shajulin Benedict & AIC Team |
| 205. | Culture and Computing | Kerala Kalamandalam | | PhD -1 (Ongoing), Internship (external B.Tech. students) – 2 (completed) | | Dr. Nandini J Warriar, Dr. Manu Madhavan Dr. Selvi C |
| 206. | Sanskrit Language Computing | Chinmaya International Sodh Sansthan | | BTech – 1 (Ongoing) | | Dr. Nandini J Warriar, |

| SN | Interdisciplinary Area | External International / National Institutes / Organizations / Industries Involved or Interdisciplinary Innovation and Start-ups from ATAL / MSME Incubation Centers | Funded Research Projects | PhD / MTech / MPhil Thesis Guiding/ Guided | Number of Research Papers (RP) / Book Chapters (BC) / Patents (by faculty & Start-ups) (P) | Faculty Member |
|-----------------------|--|--|--------------------------|--|--|---|
| | | | | | | Dr. Manu Madhavan |
| Tourism | | | | | | |
| 207. | Artificial Intelligence and Cloud based platform that'll promote tribal tourism, trekking etc. and thereby bring development to those areas. | Ethnographic Art Private Limited | | | | Dr. Shajulin Benedict & AIC Team |
| 208. | Smart Tourism | | | | 1 RP | Dr. Shajulin Benedict |
| Sports | | | | | | |
| 209. | Sports Analytics- Novel Ranking scheme for T20 batsmen ranking | | | | 2 RP | Dr. Abin Oommen Philip |
| 210. | Machine learning and Genetic Algorithm based Player Selection for Optimal Cricket Team Composition | | | | 1RP (Communicated) | Dr. Jayakrushna Sahoo |
| Geography, GIS | | | | | | |
| 211. | Recent Trends in GIS and Remote Sensing and its Applications Using AI | ATAL | | | 1P | Dr. A Ravi |
| Miscellaneous | | | | | | |
| 212. | Software Defined Networks | | | Ph.D. – 1 (ongoing) | | Dr. Koppala Guravaiah |
| 213. | Access Control Mechanism | | | | | Dr. A. Balu |
| 214. | Industrial Internet of Things using Blockchain | | | | 1 Patent Granted (Australian Innovation Grant) | Dr. Ragesh G K Dr. Shajulin Benedict |
| 215. | Cloud Assisted Wireless Body Area Networks | | | | 2 Copyrights | Dr. Ragesh G K |
| 216. | Design of microstrip antennas for wireless communication | | | PhD- 2 (ongoing) | 2 BC 13 RP | Dr. Milind Thomas Themalil |
| 217. | Design of proximity coupled microstrip antennas for MIMO applications in 5G/6G networks | | | Internship external student - 1 (ongoing) | | Dr. Milind Thomas Themalil |

| SN | Interdisciplinary Area | External International / National Institutes / Organizations / Industries Involved or Interdisciplinary Innovation and Start-ups from ATAL / MSME Incubation Centers | Funded Research Projects | PhD / MTech / MPhil Thesis Guiding/ Guided | Number of Research Papers (RP) / Book Chapters (BC) / Patents (by faculty & Start-ups) (P) | Faculty Member |
|------|--|--|--------------------------|--|--|---------------------------|
| 218. | Machine learning for Image Processing and its Applications | ATAL | | M.Tech - 2 | 1P | Dr. A Ravi |
| 219. | Deep Learning Techniques for Social Impact | | | | 1 Book | Dr. Shajulin Benedict |
| 220. | Optimizing 2D to 3D real-time inference models | aiRender Tecnologies | | PhD Ongoing | 1 RP (Submitted) | Dr. Rubell Marion Lincy G |
| 221. | Reinforcement Learning Application on Automated Vehicle | | | BTech Project | 1 RP | Dr. Rubell Marion Lincy G |

Table 42: Interdisciplinary Work by IIIT Kottayam in Research, Innovations, and Start-ups

7. Introduced Interdisciplinary subjects like Bio-Informatics at the second-year level.
8. 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
 - Business Communication Skills
 - Human Resource Management
 - Financial Management & Accounting
 - Operations and Supply Chain Management

XI. 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, HackerEart and Kaggle for ML, Data Science, etc. It's a time-consuming job and litter bit more time is required to see the results.

| SN | Name of the Contributing Student(S) | Contribution Details | Github Link |
|----|-------------------------------------|----------------------|---|
| 1. | Gotam Gorabh | GIMP | https://gitlab.com/inkscape/inkscape/-/merge_requests/4730 |

| SN | Name of the Contributing Student(S) | Contribution Details | Github Link |
|-----|---|---|---|
| | | Adding scrolled window to TIFF description field. | |
| 2. | Gotam Gorabh | INKSCAPE Fix overlapping info box in measurement tool. | https://gitlab.com/inkscape/inkscape/-/merge_requests/4728 |
| 3. | Gotam Gorabh | INKSCAPE Fixed differences in position of infobox for different display unit | https://gitlab.com/inkscape/inkscape/-/merge_requests/4944 |
| 4. | Gotam Gorabh | GNOME Settings Redesigned remove user dialog. | https://gitlab.gnome.org/GNOME/gnome-control-center/-/merge_requests/1584 |
| 5. | Gotam Gorabh | INKSCAPE SymbolsDialog: Increased scale_factor to make zoomin faster. | https://gitlab.com/inkscape/inkscape/-/merge_requests/4954 |
| 6. | Vishal Lokare | AutoJoomer Open source utility app for IIIT Kottayam 24 stars & 30 forks | https://github.com/vishal-lokare/AutoJoomer |
| 7. | Ram Samarth B B | Fancy Print Modified the correct working of printer.py , added the tag to colour converter function , writing the correct usage of package | https://github.com/IamMU/Fancy-Print/commits?author=achiverram28 |
| 8. | Ram Samarth B B | F1 Stats Created the qualifying_results() function , json extractor , created the respective classes , test cases. | https://github.com/alec-kr/F1PyStats/commits?author=achiverram28 |
| 9. | Gouri Nair and Aditya Srinivas Menon | Attack prediction on evil twin using Deep Learning | https://github.com/rio-nair/attackprediction-evilTwin |
| 10. | Aryan Yadav | Codestream A collaborative web based code-editor | https://github.com/starwiz-7/codestream |
| 11. | Abhijit Mishra | Enlace Website One of the Three Major events of IIIT Kottayam. | https://github.com/iiitkottayam/Enlace |
| 12. | Shashank Kumar Srivastava, Nikhil Menon, Abhijit Mishra | Internship Portal As the name suggests, we are developing an in house internship portal for IIIT Kottayam students to connect with recruiters for an internship. | https://github.com/iiitkottayam/InternshipPortal-Frontend |
| 13. | Abhinav, Akshay, Ganesh, Rohith and Samhitha | Wildbeats Website Our goal with the cultural website is to highlight the cultural diversity of our country and then show how wildbeats is trying to celebrate that. | https://github.com/samhitha-b/wildbeats |

| SN | Name of the Contributing Student(S) | Contribution Details | Github Link |
|-----|--|---|--|
| 14. | Akanksha Singh, Arya Suneesh, Roshini, Anoushka, Shilpa and Sushant | Trendles Website The Trendles Club organizes and promotes various personality building activities and provides enough avenues under multiple domains to students to facilitate the pursuit of their dreams. | https://github.com/aryasuneesh/trendles-2022 |
| 15. | Hrishabh Joshi | GSoC Tagger GSoC Tagger aims to provide students targeting for GSoC 2022 a platform to search and filter projects based on the technology used and year it appeared in GSoC. | https://github.com/joshi008/gsoc-tagger |
| 16. | Akshay Warriar, Ganesh Nathan and Thennal DK | Newsify Newsify gets the latest headlines from different news sources and topics of your choice, and answers your questions about the headline directly, without ever needing to skim the article. | https://github.com/nonpeep/newsify |
| 17. | Ananthkrishnan Nb Aditya Taparia Som Sagar Vishnu Narayanan A | BORO Maps Borrow, earn, save! Let's reduce waste one Boro at a time... | https://github.com/somsagar07/Boro |
| 18. | Ab Murali | DODGE BOX Hyper-Casual | https://github.com/Satan6780/Dodge-Box-Game |
| 19. | Addanki Sri Rohith Mangesh Thappeta Aarthi Reddy Kotte Saandeep Krishna Sashank Allimpalli | WePack WePack is a service based company which offers customers more flexible in choosing courier services. | https://github.com/AarthiReddy-02/We-Pack |
| 20. | Muskan Rana Jagriti Thakur Sumadithya Sreenivasa Prabal Kalia | CoPPeR A VSCode Extension built for Competitive Programmers. | https://github.com/starkizard/CoPPeR |
| 21. | Pushpam Saxena | Queueless Doctor appointments now made queue-less. | https://github.com/JashanPuri/queueless |
| 22. | Ishaan Mahesh | Project-Dome This is Project Dome. An assortment of productivity tools and stress relievers in a beautiful coat of paint. | https://github.com/ishaan5199/Project-Dome |
| 23. | Faiz Hasan | DevIn : A platform to guide the developers to right path of skill development with help of other fellow developers. | https://github.com/faiz-hasan11/DevIn |
| 24. | Gotam Gorabh | I contributed to different open-source projects under GNOME Foundation. And also I am selected as a GSoC 2023 contributor for GNOME Settings project. My work is to create a new system panel in GNOME Settings. | GitLab - https://gitlab.gnome.org/gautham_x AND GitHub - https://github.com/GOTAM672 |

| SN | Name of the Contributing Student(S) | Contribution Details | Github Link |
|-----|-------------------------------------|--|---|
| 25. | Mohammed Ziyad C | Ethereum Push Notification Service (EPNS) Merged PRs: 1. Used PushSDK for API calls. - Bug Fix 2. Removed extra dependencies to avoid increasing the size of the package. | https://github.com/mohdzyadc |
| 26. | Darisi Priyatham | Participated, and contributed to projects in Hacktoberfest 2022 GSSoC 2023 SSOC 2023 | https://github.com/DPRIYATHAM |
| 27. | Divyanth Satya | Trendles club mentor (2022-2023) | https://github.com/Divyanth2468 |
| 28. | Mudigonda Sai Karthikeya | Wireless Sensor Cars | https://github.com/dashboard |

Table 43: Open-Source Contribution by students of IIIT Kottayam

XII. 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. Symposiums
7. YouTube Channel for teaching programming languages C/C++
8. Various Collaborative Activities for IIIT Kottayam and for Incubation Centers
9. Ph.D. Programs
10. Post-Doc Programs
11. MTech for working professionals
12. Faculty members of IIIT Kottayam participated/conducted events in other institutes/organizations and participated as Resource Person, Editor, Reviewers, etc.

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

Events Organized During - 2024



IEEE SPICES 2024
IEEE INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING, INFORMATICS, COMMUNICATION AND ENERGY SYSTEMS
A Flagship Conference of IEEE Kerala Section
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY (IIIT) KOTTAYAM
 Kerala, India
20-22 SEPTEMBER 2024
Conference Theme:
"Harmonizing Signals, Data, and Energy: Bridging the Digital Future"
 IEEE Conference Record Number 82142

Organizing Institute & Venue:
 Indian Institute of Information Technology (IIIT) Kottayam, Kerala, India
Financial Co-Sponsor:
 IEEE Kerala Section

IMPORTANT DATES
 Call for paper opens: 01st January 2024
 Full Paper Submission Deadline: 30th April 2024
 Notification of Acceptance: 28th June 2024
 Camera Ready Submission: 24th July 2024
 Conference Date: 20-22 September 2024

IEEE SPICES 2024 invites contributions in following streams but not limited to:

- Signal Processing
- Next Generation Communication Networks
- Intelligent Computing
- Advanced Analytics and AI Integration
- Smart Energy Technologies
- Instrumentation for Smart Systems
- Cognitive Robotics
- Power Electronics and Smart Grids

Author Guidelines:

- Authors are encouraged to submit full papers within a 6-page limit in standard IEEE double-column format for review.
- Extra charges are applicable for papers exceeding 6 pages (a maximum of 8 pages).
- All submitted papers will be checked for plagiarism through the IEEE Cross-Check system.

All registered and presented papers will be submitted to IEEE for publication in IEEE Xplore.

www.spices2024@iiitkottayam.ac.in | https://www.spices2024@iiitkottayam.ac.in



2-DAY HANDS-ON WORKSHOP ON DIR-V VEGA PROCESSORS AND ECOSYSTEM
 India's Indigenous Processor Developed by C-DAC

Patrons
 Dr. Rajiv Dhanasekar, Director
 Dr. M. Radhakrishnan, Registrar
 Prof. P. Mahesan, PIC, Academics

About Workshop
 This National Workshop on Indigenous RISC-V based VEGA processors will provide an insight to the VEGA series of processors and ecosystems focusing on both theoretical and practical aspects of the processors, development boards, SDK, and applications. Hands-on sessions will be conducted on ARIES boards which are compatible with Arctino. **Certificates** will be issued after the workshop. Sessions are conducted by experts from C-DAC.

Registration Details
 Registration is mandatory. **Registration Deadline: 27 Jan 2024**
 Eligibility: All interested candidates
 Registration fee: Rs. 500/- (Includes registration kit, lunch, tea & snacks)
 Fill the Registration form after fee payment.
 Fee Payment to: REG@iiitkottayam.ac.in
 (cc: icds@iiitkottayam.ac.in)
 Steps for payment:
 1. Choose category as Educational Institutions
 2. Choose paper as IIIT Kottayam
 3. Choose payment category as VEGA Processor Workshop

Organizers
Dr. Kala S
 Assistant Professor, ECE
 Head, Integrated Circuits & Systems Research Group - IIITK
Dr. Miru A Pillai
 Assistant Professor, ECE
 Integrated Circuits & Systems Research Group - IIITK

Hardware Challenge based on VEGA processor will also be conducted and attractive prizes will be given to winners!

February 2 & 3, 2024
 IIIT Kottayam, Valuvayar P.O., Pata, Kottayam - 686315, Kerala
www.iiitkottayam.ac.in

Registration Form: <http://www.iiitkottayam.ac.in/vdr87165>

0482 230267
Office@iiitkottayam.ac.in
<http://www.iiitkottayam.ac.in>

More info on VEGA processor: www.vega-processors.in

Events Organized During - 2024

WEBINAR
STRATEGIES FOR DIGITAL SUCCESS FOR STARTUPS
 17 JAN 7:00 PM TO 8:00 PM
AJAY S NAIR
 CEO & Chief Strategist
 Fresh Mind Ideas
bit.ly/aicliitkwo3

SHORT-TERM CYBER SECURITY COURSE FOR KERALA POLICE CYBER OPERATIONS DIVISION
 THREE WEEKS FROM 16 JAN 2024 TO 02 FEB 2024
 ORGANIZED BY DEPARTMENT OF CSE - CYBER SECURITY
 INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTTAYAM
 Contact us: 0482-2202151 | panchamamf16@iiitkottayam.ac.in

2

Events Organized During - 2023

About Network Science Research Group
 Network science is a new and emerging scientific discipline that examines the interconnections among diverse physical or engineered networks, information networks, biological networks, cognitive and semantic networks, and social networks. The Network Science Research Group of IIIT Kottayam is an interdisciplinary group of researchers. The research group explores the theory of Complex Networks and is currently focused on understanding how the structure and dynamics of large networks contribute to their robustness. Other interest include the network representation learning, dynamics of Online Social Networks, Functional Brain Networks, and Bibliographic networks.
 Visit us at: <http://network.iiitkottayam.ac.in/>

About Data Science Research Group
 The Data Science Research Group at IIIT Kottayam focuses on both fundamental research in the field of data science and applied research in areas where data science can provide valuable insights that can be used for decision making. The primary focus of the group is on the creation of algorithmic approaches and methodological workflows for the purpose of achieving scalable solutions in major social, scientific and societal application domains. Additionally, the group is dedicated to the resolution of challenges in implementing data science projects in industry/real-time. Our techniques and solutions are influenced both directly and indirectly by real-world applications and use cases.
 Visit us at: <http://dsr.iiitkottayam.ac.in/>

About IIIT Kottayam
 Indian Institute of Information Technology Kottayam of Valluvoor Hills, Kerala is one among the IIITs that have been established as Institution of National Importance by MoU, Govt. of India under the ambit of IT PPP act 2007. Institute offers 4 year BTech and MTech (Hotel) programs in ECE, CSE, AI and Data Science, and Cybersecurity. In addition, Institute also offers M.Phil programs in IIT, CSE, and Mathematics, as well as MTech programme for the working professionals in (1) AI & Data Science (2) Cyber Security (3) CSE with specialization in Big data and ML.

Certification
 Participation certificate will be issued for all the participants who attend the whole session.

E Payment Link for Registration
<https://www.onlinestriptechnology.com/collect/collect/home.htm>

Steps for payment:

- Choose the category as Educational Institutions
- Choose payee as IIIT Kottayam
- Choose payment category as: Workshop FDP on Data Science with Complex Networks

Five-Day Workshop cum FDP on Data Science with Complex Networks (DataNetWork-2023) 24-28 July 2023
 Organized by Network Science Research Group and Data Science Research Group, Indian Institute of Information Technology, Kottayam

3

Events Organized During - 2023



Image Analysis with Hands-on Training using Python

Date: 14.12.2023 to 20.12.2023 **Time:** 5:30 PM to 7:30 PM

Second-day online FDP cum Workshop in **Image Analysis with Hands-on Training using Python** organized by Department of Computer Science and Engineering, Indian Institute of Information Technology Kottayam.

TOPICS TO BE COVERED:

- Introduction to computer vision and Image Processing: Image representation, digitization, digital image properties.
- Image Pre-processing: Pixel brightness transformation, histogram Transformation, Local pre-processing, Image restoration.
- Image Enhancement: Image compression, Morphological Processing.
- Segmentation: Thresholding, Edge based segmentation, Region-based segmentation, Template Matching, feature segmentation.
- Feature Description: Spatial, Textures, Edges and boundaries, shape, moments and feature features.
- Machine learning in image analysis: Image classification, clustering, object detection, and image synthesis.
- Deep learning for image analysis: Explanation of deep neural networks for solving complex image analysis problems.

WHO CAN ATTEND?

- The intended workshop is open to people from academia, industry, researchers, UG, PG students and anybody with a curiosity about computer vision and image processing.
- The specified candidates will receive information about the online platform and meeting link via their registered email.

HIGHLIGHTS

- Experts from academia and industry will lead the sessions. This workshop will equip you with practical skills and valuable information.
- Hands-on Training using Python for all sessions.
- Assignments, presentations and other relevant materials will also be shared.
- The entire program is going to be delivered online (1:00 PM to 1:00 PM).
- Participants will receive a certificate (one year leave at least 80% attendance and 60% marks for assessment).
- Incentives for every session will also be conducted online.

REGISTRATION LINK: <https://forms.gle/3pqr8K7Vt17t5y3y>

REGISTRATION FEE: Academics, researchers, UG, PG students: **Rs. 500 /-**
Industry: **Rs. 2000 /-**
Internals (IITK): **Rs. 500 /-**

REGISTRATION DEADLINE: 10 December 2023

COORDINATORS: Dr. Jothi C. Dr. Shanthi J. Marjan, Dr. Vengalrao S. S.

CONTACT INFORMATION: Office: registrar@iitkottayam.ac.in, 04719411334
Email: iiitk@iitkottayam.ac.in

Workshop on Cloud Computing and Security

Organized by: IOTCloud Research Group
Department of Computer Science and Engineering

Explore the Cloud Computing and Security Practices in Enterprises

Speakers



Dr. Shajulin Benedict
Associate Professor, IIT Kottayam



Dr. Vengalrao S. S.
Assistant Professor, IIT Kottayam



Dr. Goutam Mall
Assistant Professor, IIT Kottayam

Facilities

- Interactive Hands-on Sessions
- Expert led Demonstrations
- Networking Opportunities

18-20 December, 2023

30 Seats Only

Registration Fee: Rs 500/-

More information

Email: goutam@iitkottayam.ac.in
Phone: 0482220 2214 / 2156 / 2208

Website: <http://www.iitkottayam.ac.in/>
<http://iitcloud@iitkottayam.ac.in/>

Registration Link: <https://forms.gle/LFrDzY1y9u0Z5K8kuc7>

IIIT Kottayam, Vellore, Para, Kottayam - 686605

Events Organized During - 2023



Xilinx FPGA Board Workshop: From Basics to Advanced

Indian Institute of Information Technology Kottayam

13th to 15th October 2023 (Offline)

COURSE CONTENTS

- 7 Series Architecture
- Model Design Flow: From Verilog HDL to custom hardware, design implementation and post-synthesis analysis.
- Hardware Debugging
- Embedded System Design Flow
- Zynq UltraScale+ MPSoC Architecture
- Adding Design to Programmer Logic
- Software Development Environment
- Board Linux on Zynq and Zynq UltraScale+ Board
- HLS Design and Synthesis

ABOUT US

Indian Institute of Information Technology Kottayam at Vellore, Para, Kerala is one among the 25 IITs that have been established as Institutes of National Importance. It has been established in the month of April 1999 and 2007. IIT Kottayam campus is situated at Vellore, Para, Kottayam. A national research park is set up in 2008 at Vellore, Para, Kottayam. The institute is one of the few centrally funded IITs. IIT Kottayam Institute offers a year B.Tech and M.Tech degree programs in CSE, CSE and Cybersecurity. In addition, Institute also offers M.Sc. programs in CSE, CSE and Cybersecurity as well as M.Tech programs in CSE, CSE and Cybersecurity for the working professionals.

REGISTRATION FEE

Academics, researchers, UG, PG students: **Rs. 500 /-**
Industry: **Rs. 2000 /-**
Internals (IITK): **Rs. 500 /-**

REGISTRATION LINK: <https://forms.gle/3pqr8K7Vt17t5y3y>

COORDINATORS: Dr. Jothi C. Dr. Shanthi J. Marjan, Dr. Vengalrao S. S.

CONTACT INFORMATION: Office: registrar@iitkottayam.ac.in, 04719411334
Email: iiitk@iitkottayam.ac.in



TRAINING SCHOOL ON MACHINE LEARNING USING PYTHON

(Offline mode)

30 + 2 Days
9:00 am - 6:00 pm

Topics covered

- Day1: Python Basics and Know Your Data
- Day2: Data Analysis and Visualization
- Day3: Exploring ML Algorithms
- Day4: ANN and it's Applications

Patrons

- Prof. J.C. Raju, Director, IITKottayam
- Dr. M. Shanthi Marjan, Registrar, IIT Kottayam
- Prof. Dr. P. Marjan, Prof. Anil George (Academics), IIT Kottayam

Program co-ordinators

- Dr. Suresh M S
- 0482-222208
- registrar@iitkottayam.ac.in
- Dr. KP S S
- 0482-222208
- iiitk@iitkottayam.ac.in

Registration

Registration Fee: **RS 500/-**
Registration link: <https://forms.gle/3pqr8K7Vt17t5y3y>
**No Accessibility

Fee payment details

Bank: <https://www.sbi.co.in/>

- Through the account no. (Accounting table below)
- Through the account no. (Accounting table below)
- Through the account no. (Accounting table below)
- Through the account no. (Accounting table below)

IIIT Kottayam, Vellore, Para, Kottayam - 686605

Events Organized During - 2023

10th Indian Institute of Information Technology (IIIT) Kottayam Convocation 2023

10th Indian Institute of Information Technology (IIIT) Kottayam Convocation 2023

10th Indian Institute of Information Technology (IIIT) Kottayam Convocation 2023

SIKER2023: School on Indian Knowledge System and Engineering Research

SIKER2023: School on Indian Knowledge System and Engineering Research

SIKER2023: School on Indian Knowledge System and Engineering Research

6

Events Organized During - 2023

JOINT CERTIFICATION COURSE ON AI

JOINT CERTIFICATION COURSE ON AI

JOINT CERTIFICATION COURSE ON AI

Learning Quantum Computing From The Experts

Learning Quantum Computing From The Experts

Learning Quantum Computing From The Experts

10th Indian Institute of Information Technology (IIIT) Kottayam Convocation 2023

10th Indian Institute of Information Technology (IIIT) Kottayam Convocation 2023

10th Indian Institute of Information Technology (IIIT) Kottayam Convocation 2023

ABOUT IIIT KOTTAYAM

ABOUT IIIT KOTTAYAM

ABOUT IIIT KOTTAYAM

20TH JULY '23 YOU'RE HIRED!

20TH JULY '23 YOU'RE HIRED!

20TH JULY '23 YOU'RE HIRED!

7

Events Organized During - 2023

Indian Institute of Information Technology Kottayam

Indian Institute of Information Technology, Kottayam (An Autonomous Institute of Higher Education)
Kerala State Council of Educational Research and Training
Kottayam

One-day sensitisation workshop on DIGITAL TOOLS IN COMMUNICATION for Language Teachers

January 06, 2023

IIIT Kottayam, Kottayam

Topic: Reproductive Management in the Digital World: The Relevance of Corporate Communication

Topic: Recent Advancements in India's Foreign Communication

Topic: AI Tools for Communication

Topic: Natural Language Processing in Communication

Registration Fee: 500/-

PAY-NOW

CONTENTS OF WORKSHOP

- 1. Reproductive Management in the Digital World: The Relevance of Corporate Communication
- 2. Recent Advancements in India's Foreign Communication
- 3. AI Tools for Communication
- 4. Natural Language Processing in Communication

ABOUT THE PROGRAM

The workshop focuses on digital marketing, branding, communication and content creation through digital communication.

FOR PAYMENT

Payment Link: <https://www.paycomonline.in>

ABOUT THE INSTITUTE

Indian Institute of Information Technology, Kottayam is an Autonomous Institute of Higher Education established in the year 2008. It is the first IIIT in Kerala and the first IIIT in the South Indian Region. The Institute is a member of the Association of Indian Universities (AIU) and the Association of South Indian Universities (ASIU).

PROGRAM COORDINATOR

Dr. K. Mohan Kumar, Associate Professor, Head of Department, Department of Computer Science and Engineering

REGISTRATION

Registration Fee: 500/-

CONTACT US

Phone: +91 94478 34343

Location: IIIT Kottayam, Kottayam, Kerala

8

Events Organized During - 2023

Indian Institute of Information Technology Kottayam

Workshop on Indian Knowledge System and Engineering Research

12-13 June 2023

IIIT Kottayam, Kottayam

Registration Fee: 500/-

Indian Institute of Information Technology Kottayam

Department of Computer Science and Engineering

Organize STEE (DIT) Sponsored High and Workshop (KATYASHALU)

12-13 June 2023

Registration Fee: 500/-

Indian Institute of Information Technology Kottayam

Department of Computer Science and Engineering

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12-13 June 2023

Registration Fee: 500/-

1

Events Organized During - 2023

2

Events Organized During - 2023

3

Events Organized During - 2023

4

Events Organized During - 2023

5

Events Organized During - 2022

Events Organized During - 2022

Events Organized During - 2022



Five Day Workshop
on
Introduction to Transportation Network Science
(Online)
(1 - 5 November, 2022)
7:00 pm to 9:00 pm



Organized by
**Network Science Research Group
& ACM Student Chapter**
Indian Institute of Information Technology
Kottayam

About IIIT Kottayam

Indian Institute of Information Technology Kottayam in Valluvanur, Pals, Kerala is one among the IIITs that have been established as "Institutes of National Importance" by MoE, Govt. of India under the initiative of IIIT PSP Act 2017. IIIT Kottayam occupies a unique as Valluvanur, Pals, Kottayam - a picturesque location, spread over 45 acres of land allotted by Govt. of Kerala in the southern part of the Country and is situated in an eco-friendly area. It Tech students are admitted against the JEE(AA)/CBSE standing against the JEE main rank list. Institute offers 4 year B.Tech and B.Tech (Dual) programs in ECE, CSE, AI and Data Science, and Cybersecurity. In addition, Institute also offers Ph.D programs in ECE, CSE and Mathematics as well as M.Tech programme in (1) AI & Data Science (2) Cyber Security for the working professionals (3) CSE with specialization in Big data and ML.

About Network Science Research Group

Network science is a new and emerging scientific discipline that examines the interconnections among diverse physical or engineered networks, information networks, biological networks, cognitive and semantic networks, and social networks. The Network Science Research Group of IIIT Kottayam is an interdisciplinary group of researchers. The research group explores the theory of Complex Networks and is currently focused on understanding how the structure and dynamics of large networks co-evolve to their robustness. Other areas include the network representation, learning, dynamics of Online Social Networks, Fractional Brown Motions, and Bibliographic networks.

Visit us at: <http://www.iiitkottayam.ac.in>

About the Workshop

Transportation networks are a framework of nodes, linking locations. The links have characteristics such as speed and capacity for mobility, frequency and travel time data are defined on transit links or links for the transit system.

Networks, journey planning is typically aided by mobile apps and backend algorithms. Ideally, these applications need to be fast and should provide details on efficient routes between origin and destination or the percentage April 500 efficiency, another important aspect of these problems is their scalability.

The main contents of the workshop are:

- The various applications of computer science and allied domains in the field of transportation networks.
- Route planning in transportation networks.
- Introduction to Graph-A-Style Problems (DARP), Traveling Salesman Problem (TSP) and Vehicle Routing Problem (VRP).
- Introduction to various of applications in transportation networks.
- Hands-on sessions on:
 - Use of shortest path algorithms in the NetworkX module of Python on real world graphs imported using OpenStreetMap.
 - Journey planning algorithms for public transit systems.
 - Google OR-Tools
 - IBM CPLEX.



All International Experiences on Innovative Trends in Information Technology
October 22-23, 2022 (9:00 AM to 5:00 PM)
CALL FOR PAPERS
(Deadline: Please "Digital Technology for Smart Society")
(Workshop: IIIT Kottayam, Kerala)

The 1st International Experiences on Innovative Trends in Information Technology (IEIT 2022) will be held in virtual mode from October 22-23, 2022, starting from 9:00 AM to 5:00 PM. The conference is organized by IIIT Kottayam, Kerala. The conference is organized by IIIT Kottayam, Kerala. The conference is organized by IIIT Kottayam, Kerala.

CALL FOR CONTRIBUTIONS

Original Research Papers in the following areas:
Artificial Intelligence and Data Science
Big Data Analytics
Cloud Computing
Cyber Security
Digital Transformation
IoT
Machine Learning
Mobile Computing
Networks
Software Engineering
Web and Mobile Applications
Workshop on Emerging Trends in Information Technology (ETIT 2022)

FAITH SUBMISSION

Authors are invited to submit their original research papers in PDF format to the conference. The conference is organized by IIIT Kottayam, Kerala. The conference is organized by IIIT Kottayam, Kerala. The conference is organized by IIIT Kottayam, Kerala.



Progress of Computational and Graphical Algorithms
Speaker: Dr. S. V. Madhavan
Date: 22 Sept 2022
Time: 3:00 pm - 4:00 pm



Choose a Career in AI & Data Science
Speaker: Mr. Akarsh K Har
Date: 22 Sept 2022
Time: 3:00 pm - 4:00 pm



Learn about the intricate world of networks
Speaker: Dr. S. V. Madhavan
Date: 22 Sept 2022
Time: 3:00 pm - 4:00 pm

Events Organized During - 2022



INDUSTRIAL EXPERT SESSION
INTRODUCTION TO EXPLAINABLE AI SCOPE AND RESEARCH
Speaker: Pradeep T
Date: 27 Aug
Time: 3:30 pm



WEBINAR SERIES on AI-driven Big Data Analytics
Day 2: Deep Learning in Real World
Speaker: Dr. S. V. Madhavan
Date: 27 Aug
Time: 3:30 pm



India-European Entrepreneurship Hackathon 2022
IEE-HACKS 2022
Theme: AI/Cloud Analytics and Entrepreneurship
Date: 27 Aug



Department of ECE
HISTORY OF MICROELECTRONICS AND FUTURE SCOPE
Speaker: Dr. S. V. Madhavan
Date: 27 Aug
Time: 3:30 pm



WEBINAR SERIES on AI-driven Big Data Analytics
Day 2: Algorithmic Governance: Colleague & Research Trends
Speaker: Dr. Rajan Gupta
Date: 27 July 2022
Time: 10:00 am - 11:00 am



WEBINAR SERIES on AI-driven Big Data Analytics
Day 3: Deep Learning for Medical Image Analysis
Speaker: Dr. Mohammed Al-mozani
Date: 01 August 2022
Time: 03:00 pm - 04:00 pm



WEBINAR SERIES on AI-driven Big Data Analytics
Day 4: Large scale distributed graph processing - Recent developments and challenges
Speaker: Dr. T. Ramalingeswara Rao
Date: 30 August 2022
Time: 04:00 pm - 05:00 pm

Events Organized During - 2022



12

Events Organized During - 2022



13

Events Organized During - 2021

Events Organized During - 2021

4

15

Events Organized During - 2020

18

Events Organized During - 2020

19

Fig. 08: 120+ Events organized from by IIIT Kottayam from 2020-24

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|-----|--|------------|---|
| 1. | Bibliographic Data Analysis - Online - as part of Refresher Course in Data Analytics and Machine Learning, UGC-Human Resource Development Centre, University of Kerala | 02.03.2021 | Dr Divya Sindhu Lekha |
| 2. | “Story of Unexplored Networks” (Research Explorations on Graphs and Complex Networks) – Online - as part of WOMEN on SCIENCE - Lecture Series 2021, St Teresas College, Ernakulam. | 12.03.2021 | Dr Divya Sindhu Lekha |
| 3. | Research Writing as part of Online FDP on Research Tools – Online Hands-on Training, NSS College of Engineering Palakkad | 25.03.2021 | Dr Divya Sindhu Lekha |
| 4. | Keynote speaker in the International Conference on Computational Intelligence and Digital Technologies ICCIDT2K21 hosted by Department of Computer Science and Engineering, | 15.05.2021 | Dr. Manjith B.C. |
| 5. | AICTE sponsored Two Week Online Faculty Development Programme on “Machine Learning and Deep Learning: A Hands -On Approach”, CUSAT, Kochi | 19.12.2020 | Dr. Kala S |
| 6. | TEQIP-III sponsored Five days FDP on IOT and Embedded applications, CUSAT, Kochi | 07.02.2020 | Dr. Kala S |
| 7. | KTU sponsored FDP on Recent Developments in Machine Learning and Data Science, TOCH Institute of Science and Technology, Kochi | 03.06.2021 | Dr. Kala S |
| 8. | FDP on Recent Research Trends in Communication Engineering, and the topic is “VLSI Implementation of Signal Processing Systems”, conducted by R&D cell of Indra Ganesan College of Engineering, Trichy, Tamil Nadu | 28.05.2021 | Dr. Kala S |
| 9. | Technical Webinar on “Machine Learning and Deep Learning Architectures”, REVA University Bangalore | 15.05.2021 | Dr. Kala S |
| 10. | “Social Big Data”, as part of AICTE FDP at Sree Ramakrishna Engineering College, Coimbatore | 28.11.2017 | Dr. Ebin Deni Raj |
| 11. | "Data Science and Data Engineering" at DST-NIMAT Cloud Solutions for Emerging IoT Applications, | 22.12.2018 | Dr. Ebin Deni Raj |
| 12. | STTP on "Data Science and Artificial Intelligence" at St Gitts College of Engineering | 16.10.2019 | Dr. Ebin Deni Raj |
| 13. | Invited Talk on "Trends in Data Science and Artificial Intelligence" at ToCH college of Engineering and Technology | 11.02.2020 | Dr. Ebin Deni Raj |
| 14. | 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 : https://www.youtube.com/watch?v=bzjcWr4ITow | 03.08.2020 | Dr. Ebin Deni Raj |
| 15. | Invited Talk on “DATA SCIENCE – PROCESS, HYPE AND FUTURE” organized by Kristu Jayanthi College, ACM-W, Bangalore | 24.6.2020 | Dr. Ebin Deni Raj |
| 16. | 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 https://www.youtube.com/watch?v=bzjcWr4ITow | 22.03.2021 | Dr. Ebin Deni Raj |
| 17. | Keynote Speaker of International Conference on Innovative Applications of Emerging Technologies and Management, 2021 | 09.04.2021 | Dr. Ebin Deni Raj |

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|-----|---|------------|---|
| | (ICIAETM-2021). Talk can be accessed at: https://www.youtube.com/watch?v=mQAW7XBd_bA | | |
| 18. | 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 : https://www.youtube.com/watch?v=4LT9u354zR0 | 25.05.2021 | Dr. Ebin Deni Raj |
| 19. | Invited talk on "Opportunities in Artificial Intelligence and Data Science" as part of Alan Turing day celebration at St George's college Aruvithara | 23.06.2021 | Dr. Ebin Deni Raj |
| 20. | ACM Invited talk on "Pursuing a career in Data Science" organized by Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada | 25.06.2021 | Dr. Ebin Deni Raj |
| 21. | Talk on "Pursuing a CS Career" organized by Computer Science and Technology, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh | 14.08.2020 | Dr. P. Victor Paul |
| 22. | Delivered a talk on "IoT security" organized by Department Electronics and Communication Engineering, Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, Kerala, AICTE sponsored Faculty Development Program (FDP) on Internet of Things. | 23.07.2019 | Dr. Panchami V |
| 23. | Delivered a talk on "Blockchain 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) | 16.12.2020 | Dr. Panchami V |
| 24. | Delivered a talk on "Blockchain 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) | 23.12.2020 | Dr. Panchami. V |
| 25. | 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) | 03.02.2021 | Dr. Panchami V |
| 26. | 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 the Department of Computer Science and Engineering at College of Engineering, Perumon, February 01-06, 2021 | 05.02.2021 | Dr. Panchami V |
| 27. | 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 | 23.03.2021 | Dr. Panchami V |
| 28. | 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. | 25.03.2021 | Dr. Panchami V |
| 29. | Delivered an invited talk on Applications of Mathematics in Engineering at Kongu Engineering College, Erode | 26.03.2018 | Dr. Bakkyaraj T |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|-----|--|---------------------------------|---|
| 30. | Delivered an invited talk on Probabilistic PCA at AICTE Sponsored FDP - St. Gits College of Engineering Kottayam | 16.10.2019 | Dr. Bakkyaraj T |
| 31. | Delivered an invited talk on Differential Equations and Its Applications at Queen Mary's College, Chennai | 06.09.2019 | Dr. Bakkyaraj T |
| 32. | 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 | 30.01.2020 | Dr. Bakkyaraj T |
| 33. | 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 | 05.03.2020 | Dr. Bakkyaraj T |
| 34. | Delivered an invited webinar talk on Application of Fractional Calculus An Update at Kongu Engineering College (Autonomous), Perundurai, Erode. | 23.06.2020 | Dr. Bakkyaraj T |
| 35. | 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. | 05.03.2021 | Dr Bakkyaraj T |
| 36. | A Master class on "IoT Devices: Security and Applications" at Department of Information Technology, BV Raju Institute of Technology, Telangana. | 19.06.2021 | Dr. Koppala Guravaiah |
| 37. | A Topic "Text Mining & Natural Language Processing Applications and Techniques" presented in Two Days Online Workshop on Tools & Techniques of Data Mining at Department of Computer Science and Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai. | 27.04.2021 and 28.04.2021 | Dr. Koppala Guravaiah |
| 38. | A Topic "Introduction to Natural Language Processing through NLTK" presented in AICTE Sponsored Two weeks Online Faculty Development Programme on "Data Science using Python - II" at Shri Vishnu Engineering College for Women, Andhra Pradesh. from 7th December to 18th December, 2020 | 17.12.2020 | Dr. Koppala Guravaiah |
| 39. | A Topic "Introduction to Natural Language Processing" presented in AICTE Sponsored Two weeks Online Faculty Development Programme on "Data Science using Python - I" at Shri Vishnu Engineering College for Women, Andhra Pradesh. from 23rd Nov to 5th Dec 2020 | 04.12.2020 | Dr. Koppala Guravaiah |
| 40. | A Short-Term Training Program on "Technical writing using LATEX" at National Institute of Information Technology Tiruchirappalli, Tamil Nadu. | 19.11.2020 to 21.11.2020 | Dr. Koppala Guravaiah |
| 41. | AICTE FDP organized by Charusat University, Gujarat, India on "IoT for Air Quality Monitoring in Smart Cities | 16.06.2021 | Dr. Shajulin Benedict |
| 42. | 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 | 31.05.2021 | Dr. Shajulin Benedict |
| 43. | Keynote talk in International Conference on Smart Data Intelligence (ICSMDI 2021); Topic: "Serverless Cloud Architecture for Deep IoT Analytics | 29.04.2021 | Dr. Shajulin Benedict |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|-----|---|-------------|---|
| 44. | Keynote Talk on STTP organized by GEC Barton Hill -- Topic: "Serverless Cloud Deployment for IoT Applications", sponsored event by DTE, Govt. of Kerala | 23.02.2021 | Dr. Shajulin Benedict |
| 45. | Keynote Talk -- Topic: "Recent Trends in IoT and Funding Options", Workshop by State Project Felicitation Unit, Kerala | 28.01.2021 | Dr. Shajulin Benedict |
| 46. | Keynote Talk -- Topic: "IoT-Cloud related Funding Schemes for Entrepreneurs", at COHORT-Impulse 2021 | 20.01.2021 | Dr. Shajulin Benedict |
| 47. | AICTE-FDP -- Keynote Talk on Topic: "IoT for Wearable Applications", at SaintGits Engg. College, Kottayam | 13.01.2021 | Dr. Shajulin Benedict |
| 48. | AICTE-FDP -- Keynote Talk on Topic: "IoT - Performance and Monitoring Aspects", Knowledge Institute of Technology, Salem, Tamil Nadu | 04.02.2021 | Dr. Shajulin Benedict |
| 49. | Keynote Talk on "Serverless Blockchain - Pros and Cons" IEEE ICOSEC2020 | Sep 2020 | Dr. Shajulin Benedict |
| 50. | AICTE-FDP -- Keynote Talk on "Monitoring of Machine using IoT" at Amity University. | Oct 2020 | Dr. Shajulin Benedict |
| 51. | IoT Cloud for Trainers of School Students, Webinar Series at Labor India Teachers College of Mahatma Gandhi College, Kottayam, Kerala, India | August 2020 | Dr. Shajulin Benedict |
| 52. | One day webinar organized by Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu in the topic "Research Challenges and Applications in Data Science | 27.08.2020 | Dr. J.V. Bibal Benifa |
| 53. | One day webinar organized by Adama Science and Technology University, (Ministry of Education, Ethiopia) on the topic "Big Data Predictive Analytic Techniques" | 02.10.2020 | Dr. J.V. Bibal Benifa |
| 54. | ATAL FDP on "Data Science" hosted by Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu, and delivered a session on the topic "Linear and Logistic Regression Model Building" | 03.11.2020 | Dr. J.V. Bibal Benifa |
| 55. | Delivered an expert lecture on the topic "Cloud Computing", at Satyam College of Engineering and Technology, Nagercoil, Tamil Nadu. | 23.10.2019 | Dr. J.V. Bibal Benifa |
| 56. | Resource Person for the National level workshop on "Cloud Computing and Programming" organized by Noorul Islam Centre for Higher Education, Tamil Nadu | 20.01.2020 | Dr. J.V. Bibal Benifa |
| 57. | ATAL FDP on "Data Science" hosted by Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu, and delivered a session on the topic "Data Manipulation with Pandas" | 02.11.2020 | Dr. Jayakrushna Sahoo |
| 58. | Refresher Course in Data Analytics and Machine Learning, UGC-Human Resource Development Centre, University of Kerala, delivered a session on "Applied Predictive Analytics" | 02.03.2021 | Dr. Jayakrushna Sahoo |
| 59. | ATAL FDP on "Machine Learning" hosted by College of Engineering Kidangoor, Kottayam and delivered a session on the topic "Restricted Boltzman Machine and its application to recommended system" | 25.08.2020 | Dr. Jayakrushna Sahoo |
| 60. | Webinar on "Introduction to Cloud, microservices and Docker containers" at Shri Madhwa Vadiraja Institute of Technology and Management (NAAC, NBA Accredited), Udupi, Karnataka, | 20.07.2021 | Dr. Christina Terese Joseph |
| 61. | Online POCO workshop, "Post-conference proceedings compilation and submission, conference conclusion, valedictory" (Panel Discussion) | 04.09.2021 | Dr. Ragesh G. K. |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|-----|--|---------------------------------|---|
| 62. | Keynote Speaker, 13th National Conference on VLSI, Signal Processing and Communication, Kerala | 26.07.2021 – 27.07.2021 | Dr. Kala S |
| 63. | Resource person, AICTE - ATAL FDP on “System-On-Chip Design and Verification”, organized by Department of ECE, IIIT Tiruchirappalli, Tamil Nadu, | November 2021 | Dr. Kala S |
| 64. | SERB Sponsored - Karyashala (High-end Workshop) on Statistical Modelling & Computational Intelligence, Conducted by NIT, Tiruchirappalli | December 2021 | Dr. Sivaiah Bellamkonda. |
| 65. | Introduction to Natural Language Processing using Deep Learning ; presented in AICTE sponsored one week Online ATAL FDP on “Deep Learning for Natural Language Processing” Department of Information Technology, Bhilai Institute Of Technology, Durg, Chhattisgarh, India. | 15.11.2021 – 19.11.2022 | Dr. Koppala Guravaiah |
| 66. | Delivered a session on, "Research in Artificial Intelligence: A path into Quantum Computing" in the KTU sponsored Faculty Development Programme on “Research Frontiers in Computer Science” organized by the Computer Science & Engineering Department at Christ College of Engineering, Thrissur, Kerala | 01.07.2021 | Dr. Rubell Marion Lincy G |
| 67. | Delivered a session on, “Quantum Programming with Qiskit” in the AICTE-ATAL sponsored 5-day Faculty Development Programme on Quantum Computing organized by Indian Institute of Information Technology Kottayam, Kerala | 13.07.2021 | Dr. Rubell Marion Lincy G |
| 68. | An invited talk on, “Quantum Computing – Future of Computing” in the What’s up Wednesday Webinar organized by the Corporate Technology & Engineering Academy (CTEA), Larsen & Toubro, Mumbai | 11.08.2021 | Dr. Rubell Marion Lincy G |
| 69. | Delivered a session on, “Role of Artificial Intelligence and Machine Learning in Optimization Problems” at the KTU sponsored Faculty Development Program on Optimization Techniques organized by the Department of Mechanical Engineering, College of Engineering Perumon, Kollam, Kerala | 02.09.2021 | Dr. Rubell Marion Lincy G |
| 70. | Delivered a session on, “Research Directions in Artificial Intelligence” in the AICTE-ATAL sponsored 5-day Faculty Development Programme on AI-enabled IoT Networks organized by the Department of Electronics and Communication Engineering, Adi Shankara Institute of Engineering and Technology (ASIET), Kalady, Kerala | 14.09.2021 | Dr. Rubell Marion Lincy G |
| 71. | Webinars on the following topics were organized by the Department of Mathematics, KAHM Unity Women’s College, Manjeri, Kerala on 12 November 2021 I. Introduction to e-learning platforms II. Introduction to Internship Programmes | 12.11.2021 | Dr. Rubell Marion Lincy G |
| 72. | Research Problem Identification and Formulation in DTE Sponsored FDP on ‘Trajectory to Success in Research’ organized by the Department of Information Technology , Govt Engineering College, Palakkad. | 29.10.2021 | Dr. Divya Sindhu Lekha |
| 73. | AICTE sponsored Short Term Training Program (STTP) on "Recent Advancement on AI and Machine Learning". | 05.10.2021 and 28.10.2021 | Dr. Keshab Nath |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|-----|--|---|---|
| 74. | 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. | 25.03.2021 | Dr. Panchami. V |
| 75. | 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. | 23.03.2021 | Dr. Panchami. V |
| 76. | 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 the Department of Computer Science and Engineering at College of Engineering, Perumon | 01.06.2021 | Dr. Panchami. V |
| 77. | Delivered a talk on” Blockchain 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) (Date: 16.12.2020) | Dr. Panchami. V |
| 78. | Delivered a talk on “Blockchain 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) (Date: 23.12.2020) | Dr. Panchami. V |
| 79. | Delivered a talk on” Blockchain 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- 01.02.2021 to 06.02.2021) (Date: 03.02.2021) | Dr. Panchami. V |
| 80. | The resource person of 5-day KTU Sponsored FDP “Research Trends in Data Science” Organized by St. Joseph College of Engineering, Pala | 23.07.2021 | Dr. Ebin Deni Raj |
| 81. | Keynote on AI & Data Science for Innovation at BVRIT Hyderabad college of engineering for women. The talk can be accessed at: https://www.youtube.com/watch?v=gkuGnrRDqaY | 23.10.2021 | Dr. Ebin Deni Raj |
| 82. | Delivered a talk on “Development of Machine Learning Models using Python” in ATAL sponsored online Faculty Development Programme on "Applications of Machine Learning for Autonomous and Futuristic Electric Vehicles-(MLEV-2021)" organized by Department of Electrical Engineering, National Institute of Technology Calicut | 13.07.2021 | Dr. Jayakrushna Sahoo |
| 83. | Delivered a talk on “Time Series Analysis Using Python” in an e-workshop on Machine learning and Data Science” (e-WMLDS-2021) organized by the Department of Mathematics, SRMIST, Chennai, 2021 | 12.11.2021 | Dr. Jayakrushna Sahoo |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|------|--|------------|---|
| 84. | Technology Clinic-on Investment Opportunities in IT Based MSME's (Initiated by Department of Industries and Commerce, Idukki- Govt. of Kerala) | 13.02.2022 | Dr. Ragesh G K |
| 85. | Innovation and Entrepreneurship Webinar (Initiated by Malayala Manorama News Daily- Manorama Horizon) | 30.12.2021 | Dr. Ragesh G K |
| 86. | Introducing the programs of IIIT Kottayam; career enrichment programme "Wings 22" - Educational Expo at Irikoor, Kannur. | 25.06.2022 | Dr Ebin Deni Raj |
| 87. | Delivered Expert Talk on "Research Publication Types and Literature Survey" in the SERB – Accelerate Vigyan sponsored "Karyashala – Methods for Creating a Quality Research Article: Software and Writing Perspective" at Indian Institute of Information Technology Kottayam | 19.7.2022 | Dr. P. Victor Paul |
| 88. | Delivered Expert talk on "Research Paper Publication Process" at Mangalam College of Engineering, Kottayam | 6.5.2022 | Dr. P. Victor Paul |
| 89. | Technology Clinic-on Investment Opportunities in IT Based MSME's; Department of Industries and Commerce, Idukki- Govt. of Kerala | 13.03.2022 | Dr. Ragesh G K |
| 90. | Innovation and Entrepreneurship; Malayala Manorama Horizon | 30.12.2021 | Dr. Ragesh G K |
| 91. | Online POCO workshop, "Post-conference proceedings compilation and submission, conference conclusion, valedictory"; IEEE Kochi Subsection | 04.09.2021 | Dr. Ragesh G K |
| 92. | Introducing the programs of IIIT Kottayam; career enrichment programme "Wings 22" - Educational Expo, An initiative of Adv. Sajeev Joseph MLA, Irikkur, Kannur, Kerala | 25.06.2022 | Dr. Ragesh G K |
| 93. | Invited Talk on "Extreme Learning Machine on Agriculture" in the National Conference on Artificial Intelligence and Cognitive Computing (NCAICC-22), Federal Institute of Science And Technology, Angamaly, Kerala, India | 15.07.2022 | Dr. Suchithra M S |
| 94. | Handled a session on "tutorial on Hadoop Ecosystem" for GIAN course on "Artificial Intelligence for Social Media Content Extraction, Analysis and Recommendation Systems" at NIT Tiruchirappalli. | 21.04.2022 | Dr. Lavanya Settipalli |
| 95. | Invited talk on "Neoteric Trends in Computing", Rajagiri School of Engineering and Technology, Kochi, Kerala | 11.12.2021 | Dr Christina Terese Joseph |
| 96. | Delivered Session on "Computational intelligence as the building block of intelligent distributed systems" for IEEE Computer Society & ISTE-sponsored FDP on "Computational Intelligence & Bio-inspired Systems", Rajagiri School of Engineering and Technology, Kochi, Kerala | 25.01.2022 | Dr Christina Terese Joseph |
| 97. | Invited talk on Artificial Intelligence & Machine Learning, Manorama Horizon, Kottayam, India | 09.01.2022 | Dr Christina Terese Joseph |
| 98. | Delivered Expert Talk on "Do's and Don'ts in Research" in SERB – Accelerate Vigyan sponsored "Karyashala – Methods for Creating a Quality Research Article: Software and Writing Perspective" at Indian Institute of Information Technology Kottayam | 21.07.2022 | Dr. Kala S |
| 99. | Invited talk on Artificial Intelligence & Machine Learning, Manorama Horizon, Kottayam, India | 09.01.2022 | Dr. Kala S |
| 100. | Resource person for Faculty Development Programme on "Physical Design and Verification using Cadence", Saintgits | 14.03.2022 | Dr. Kala S |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|------|---|-------------------------------|---|
| | College of Engineering, Kerala | | |
| 101. | Chief Guest and Keynote Speaker, International Conference of VLSI – Embedded, Optical, Image Processing, Communication and Electrical Systems (ICVOICE 2022), Mangalam College of Engineering, Kottayam | 28.06.2022 | Dr. Kala S |
| 102. | Delivered an online talk on AI and Data Science hosted by the popular print media Malayala Manorama. The session had a registration of over 1300. | 06.01.2022 | Dr Ebin Deni Raj |
| 103. | Invited talk as part of Berchmans Lecture Series in Mathematics organized by SB College Changanachery | 07.01.2022 | Dr Ebin Deni Raj |
| 104. | Keynote speaker of 4th International Conference on Computational Intelligence and Digital Technologies (ICCIDT 2022) organized by Mangalam College of Engineering, Kottayam | 03.06.2022 | Dr Ebin Deni Raj |
| 105. | Resource person as part of six day FDTP on "CS8091" - "Big Data Analytics" organized by PSG Institute of Technology and Applied Research, Coimbatore, | 19.06.2022 | Dr Ebin Deni Raj |
| 106. | Resource Person for the FDTP on Machine Learning organized by Anna University | 08.07.2022 | Dr. J.V. Bibal Benifa |
| 107. | Resource Person for the FDP on Big Data and Security organized by IIIT Kottayam | 06.12.2022 | Dr. J.V. Bibal Benifa |
| 108. | Resource Person for the webinar on Foundations of Convolutional Neural Networks organized by Anna University | 07.12.2022 | Dr. J.V. Bibal Benifa |
| 109. | Delivered Expert Talk on “Journey Towards Better Academic Publishing ” at Department of computer science, Vimala college, Thrissur. kerala | 17.08.2021 | Dr. Lidiya Lilly Thampi |
| 110. | Industry IoT & its applications" presented in AICTE- ISTE Sponsored One-Week Induction/Refresher Programme on “Technical Trends and Recent Advances in Industrial Robotics & Applications” conducted by Department of Electronics and Instrumentation Engineering, V R Siddhartha Engineering College, Vijayawada, Andhra Pradesh | 24.01.2022 | Dr. Koppala Guravaiah |
| 111. | A Topic "Data Collection Routing protocols in Wireless Sensor Networks & IoT" presented in Department of Information Science & Engineering, Sahyadri college of Engineering and Management, Mangalore, Karnataka | 18.01.2022 | Dr. Koppala Guravaiah |
| 112. | A Topic "Deep Learning in Natural Language Processing" presented in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Deep Learning for Natural Language Processing" in Bhilai Institute of Technology Durg. | 15.11.2021 - 19.11.2021 | Dr. Koppala Guravaiah |
| 113. | A Topic on “Internet of Things Applications” presented in National Level FDP on "Recent Advancements in Computer Science and Technology" conducted by the Department of Computer Science & Engineering, Chadalawada Ramanamma Engineering College, Tirupati, Andhra Pradesh from 2nd to 6th August 2021. | 5.08.2021 | Dr. Koppala Guravaiah |
| 114. | A Webinar on Concepts Series “Applications of IoT - Home and Vehicle Monitoring” presented in the Department of Computer Science, IT & Applications, 4th August 2021 at Shrimati Indira Gandhi College, Tiruchirappalli, Tamil Nadu. | 4.08. 2021 | Dr. Koppala Guravaiah |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|------|---|-------------------------------|---|
| 115. | 5-Day online workshop on MATLAB Simulations for 5G Wireless Technologies, at IIITDM Kancheepuram | 28.02.2022 - 04.04.2022 | Dr. Ananth |
| 116. | From Counting to Calculus (Five day workshop on Foundations of Mathematics) Newman College Thodupuzha, Kerala. | 15.02.2022 | Dr. Dhanyamol M V |
| 117. | Resource Person for the FDTP on Machine Learning organized by Anna University | 08.07.2022 , 09.07.2022 | Dr. Jayakrushna Sahoo |
| 118. | Resource Person for the FDP on Big Data and Security organized by IIIT Kottayam | 06.12.2021 | Dr. Jayakrushna Sahoo |
| 119. | Resource Person for the FDP on Data Science organized by IIIT Kottayam | 29.07.2022 , 30.07.2022 | Dr. Jayakrushna Sahoo |
| 120. | Taken a session on "Mathematical Perspective on Data Dimension Reduction & Model Fitting" in the Webinar Series on Artificial Intelligence and Data Science organised by Department of Mathematics & Centre for Topology and Application, Rajagiri School of Engineering and Technology | 27.11.2021 | Dr. Jayakrushna Sahoo |
| 121. | Taken a session on "Time Series Analysis Using Python" in the e-Workshop on Machine Learning and Data Science (e-MLDS-2021) organised by Department of Mathematics and Data Science and Business systems, SRM Institute of Science and Technology, Kattankulathur, Chennai. | 11.12.2021 | Dr. Jayakrushna Sahoo |
| 122. | Taken a key note Session on "Artificial Intelligence and Its Application" at Indocosmo System Pvt Ltd, Cochin. | 04.03.2022 | Dr. Jayakrushna Sahoo |
| 123. | Delivered a talk on "Evolution of Machine Learning: Federated Learning" SOAWA, Department of Computer Science & Engineering, Siksha 'O' Anusandhan Deemed to Be University, Odisha, | 26.02.2022 | Dr. Jayakrushna Sahoo |
| 124. | Guest Lecture on Topic "Edge Intelligence and Protocols for IoT Applications, at the Univ. of Klagenfurt, Austria | 15.7.2022 | Dr. Shajulin Benedict |
| 125. | Keynote Speaker on AICTE-FDP on "5G/6G -- A Next Generation IoT Perspective" at VelTech Institute of Technology, Online. | 22.11.2022 | Dr. Shajulin Benedict |
| 126. | Keynote Speaker on 3rd International Conference on Data Intelligence and Cognitive Informatics on the topic "Federated Learning using Edge Nodes" | 06.07.2022 | Dr. Shajulin Benedict |
| 127. | Keynote Speaker on International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2022 , Reva University, India, on the topic "Edge Intelligence" | 01.07.2022 | Dr. Shajulin Benedict |
| 128. | Webinar Speaker on "Edge Intelligence for IoT Applications", invited by IEEE/ACM India Council | 11.06.2022 | Dr. Shajulin Benedict |
| 129. | Keynote Speaker on 2nd Int. Conf. on Soft Computing for Security Applications, ICSCS 2022 | 21.04.2022 | Dr. Shajulin Benedict |
| 130. | Keynote Speaker on 2nd Int. Conf. on Smart Data Intelligence ICSDI2022., Topic: IoT Edge/Cloud for Smart Cities -- A Manhole Depth Analysis Perspective | 11.04.2022 | Dr. Shajulin Benedict |
| 131. | Keynote Talk on Springer ICMCSI 2022: 3rd International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2022), Title: IoT and Edge Intelligence | 27.1.2022 | Dr. Shajulin Benedict |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|------|--|-------------------------------|---|
| 132. | Keynote Talk on ICSCDS 2022: International Conference on Sustainable Computing and Data Communication Systems | 07.04.2022 | Dr. Shajulin Benedict |
| 133. | Keynote Talk on IEEE ICICV 2022: 4th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks | 11.02.2022 | Dr. Shajulin Benedict |
| 134. | Keynote Talk on (ICISC-2022) , 6th Int. Conf. on Inventive Systems and Control, Title: "IoT for Air Quality Monitoring -- Edge, Cloud, Serverless, and Quantum Computing" | 06.01.2022 | Dr. Shajulin Benedict |
| 135. | Keynote Talk on AICTE-FDP organized by University College of Engineering, Kancheepuram, Anna University, Title: "IoT - Can it benefit from Quantum Computing?" | 30.12.2021 | Dr. Shajulin Benedict |
| 136. | Delivered a talk on “ Access Control and Data Security in Cloud (with Demo) , Three Days Workshop on "Access Control and Data Security in Cloud" Organized by Manorama Horizon, Kerala | 12.12.2022 – 14.12.2022 | Dr. E. Silambarasan |
| 137. | Delivered a talk on “Cloud Data Security (with Demo), Three Days Workshop on Advanced Cyber Security and Cryptography: Possibilities and Challenges, Organized by IIIT Kottayam. | 01.12.2022 - 03.12.2022 | Dr. E. Silambarasan |
| 138. | Delivered a talk on “ Access Control and Data Security “, Five Days Short Term Course on Recent Trends in Cyber Security and Energy Management organized by IEEE Student Branch at NIT Puducherry. | 12.10.2022 - 16.10.2022 | Dr. E. Silambarasan |
| 139. | Delivered talk on “ Medical Imaging & Underwater Imaging “, KTU Sponsored 5-day FDP (offline) on “Advancements in Image Processing Applications on Medical Imaging and Underwater Imaging” | 30.08.2022 | Dr. Lidiya Thampi |
| 140. | Delivered a talk on “ Swarm Intelligence based optimization algorithms”, Essence of mathematics and engineering application (ICEMEA-2022) organised by Department of mathematics, KL university, India | 10.12.2022 | Dr. Susheel Kumar Joshi |
| 141. | Delivered a talk on “Sustainable Development through the Lens of Humanities and Social Sciences”, National Level Workshop on 'Pursuing Sustainable Development Using Literary Tools' at St. Aloysius College Thrissur, Kerala. | 29.10.2022 | Dr. Gayathri G. R |
| 142. | Delivered a talk on “ ML Driven Intelligent Systems”, Five Days FDP IoT & ML Driven Intelligent Systems & Solutions | 10.10.2022 - 14.10.2022 | Dr. Cinu C Kiliroor |
| 143. | Delivered a talk on “ Machine Learning Models and Applications”, Workshop on Intelligent IoT, IIIT Kottayam | 27.10.2022 - 28.10.2022 | Dr. Cinu C Kiliroor |
| 144. | Delivered a talk on “ Language Aspects of a Scientific Research Paper “, SERB sponsored High End Workshop on " Methods for Creating a Quality Research Article: Software and Writing Perspective" | 22.07.2022 | Dr. Gayathri G.R. |
| 145. | Visiting Lecture: Workshop on Embedding and Transformer, Govt Engg College Palakkad | 21.11.2022 | Dr. Manu Madhavan |
| 146. | Delivered a talk on “ 5G Enabled IoT networks : Ushering in a new era” IEEE- FORUM '22, IEEE SPS KERALA CHAPTER | 18.09.2022 | Dr. Ragesh G K |
| 147. | Delivered a talk on “5G for Smart Healthcare using IoT”, KTU Sponsored 5-Day FDP/ SCMS School of Engineering and | 22.08.2022 | Dr. Ragesh G K |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
|------|--|---|---|
| | Technology, Karukutty, Ernakulam. | | |
| 148. | Delivered a poster presentation on “ Laser Spectroscopic analysis and characterization studies of Marine Biofouling “, Women in Optics and Photonics in India (Raman Research Institute, Bangalore) | 06.12.2022 - 07.12.2022 | Dr. Della Thomas |
| 149. | As a Invited Speaker presented “ Oceanic application of laser induced breakdown spectroscopy”, Photonics and Lasers - Industry Meet (PLAIM) co-located with ‘LASER World of PHOTONICS INDIA’ expo, at Bombay Exhibition Centre., Mumbai, Maharashtra organized by IEEE Photonics Student Chapter IIT Bombay jointly with IEEE Photonics Society-Bombay Chapter | 07.12.2022 -09- 12.2022 December 2022 | Dr. Della Thomas |
| 150. | Delivered a talk on “ Extreme Learning Machine”, online FDP on “Deep Learning: Models and use cases using Python” Organized by Electronics & ICT Academy, NIT Warangal in association with Indian Institute of Information Technology, Kottayam (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI) | 22.12.2022 | Dr. Suchithra M S |
| 151. | Delivered a talk on “Research Opportunities and Challenges in Nano electronics”, Five Days Short term course | October 2022 | Dr. Kala S |
| 152. | FDP on “PYTHON & SDR - A hands-on approach for Communication Engineers (at Government Engineering College Thrissur, Kerala) | 13.02.2023 to 17.02.2023 | Dr. Rajesh G |
| 153. | 5-day Faculty Development Programme (FDP) on "ML and DL applications in Computer Vision at Adi Shankara Institute of Engineering and Technology, Kalady | 30.01.2023 to 3.02.2023 | Dr. Suchithra M S |
| 154. | TEQIP Sponsored FDP on “Robotics and Artificial Intelligence” at Rajiv Gandhi Institute of Technology, Kottayam, Kerala | 14.02.2023 to 16.02.2023 | Dr.Minu A Pillai |
| 155. | WORKSHOP ON “ INTRODUCTION TO AI/ML”Sant Longowal Institute of Engineering & Technology (SLIET), Longowal, Punjab | 24.03.2023 , 25.03.2023 | Dr. John Paul Martin |
| 156. | WORKSHOP ON “ INTRODUCTION TO AI/ML”Sant Longowal Institute of Engineering & Technology (SLIET), Longowal, Punjab | 24.03.2023 , 25.03.2023 | Dr. Christina Terse Joseph |
| 157. | Three Days Workshop on Advanced Cyber Security and Cryptography: Possibilities and Challenges, IIIT Kottayam | 1.12.2022 to 3.12.2022 | Dr. Amit Kumar Roy |
| 158. | 5 day MDP on Scaling up of MSMEs Through ICT Tools, Organised by MSME FO Thrissur in Association with IIIT Kottayam. | 6.03.2023 to 10.03.2023 | Dr. Amit Kumar Roy |
| 159. | 5 day MDP on Scaling up of MSMEs Through ICT Tools, Organised by MSME FO Thrissur in Association with IIIT Kottayam. | 6.03.2023 to 10.03.2023 | Dr. Vengadeswaran S |
| 160. | 5G NR Key aspects and use cases, Organized by SENSE, VIT Vellore | 03.04.2023 | Dr.Ragesh G K |

| SN | Conferences / Seminars / Webinars / Symposiums / FDPs Across India and the Globe, where IIIT Kottayam faculty is invited as a resource person | Date | Name of the IIIT Kottayam's Faculty Member as a Resource Person |
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| 161. | IEEE CS Kerala Chapter COLLOQUIUM '23- Incident response plan for working professionals | 25.02.2023 | Dr. Manjith B C |
| 162. | A talk on "Introduction to LaTeX and its Demo", organized by TN government sponsored five day FDP in GCT, Coimbatore 2023 | 14.03.2023 | Dr Selvi C |
| 163. | A talk on "Data preprocessing and visualization", organized by the department of Computer Application at Madanapalle Institute of Technology and Science 2023. | 02.01.2023 | Dr Selvi C |
| 164. | A talk on "Filter Design" at VIT University, Vellore. | March, 2023 | Dr. A. Ananth |
| 165. | A talk on "Cooperative Space Shift Keying for 5G MIMO systems" at VIT University, Vellore, | April, 2023 | Dr. A. Ananth |
| 166. | A talk on "Cooperative Communication in Space Shift Keying Systems" at Presidency University, Bengaluru, | April, 2023 | Dr. A. Ananth |
| 167. | Expert talk on "Data Analysis and Research Opportunities" at UGC – HUMAN RESOURCE DEVELOPMENT CENTRE, Pondicherry Central University | October 2022 | Dr P Victor Paul |
| 168. | 5G powered IoT: The next growth wave for digital transformation @SRIT, Coimbatore, India | 22.03.2023 | Dr.Ragesh G K |
| 169. | One week workshop on "Mathematics for Artificial intelligence (MAI2023) " organized by Department of Mathematics, NIT Calicut, | 16.01.2023 to 20.01.2023 | Dr. Jayakrushna Sahoo |
| 170. | 5 day MDP on Scaling up of MSMEs Through ICT Tools, Organized by MSME FO Thrissur in Association with IIIT Kottayam. | 6.03.2023 to 10.03.2023 | Dr. Jayakrushna Sahoo |
| 171. | Served as a speaker in the joint certification course on AI with specialisation in Reinforcement Learning organised by Dept. of Computer Science and Engineering, IIIT Kottayam on the topic "Introduction to Stochastic Learning and Markov Decision Processes" | 03.07.2023 to 14.07.2023 | Dr. Asha Sebastian |
| 172. | Delivered lectures on "Gradient optimization algorithms" and "Evolutionary algorithms" in the FDP on "Optimization Techniques for AI/ML/DS Models", May 22–26, 2023, IIIT, Kottayam.. | 22.05.2023 to 26.05.2023 | Dr. Susheel Kumar Joshi |
| 173. | Lecture cum Demonstration on Rhythmic Patterns in Carnatic Music, as part of the five-day national seminar SIKER 2023, IIIT Kottayam | 19.07.2023 | Dr. Rajesh G |
| 174. | Speaker for webinar on "Recent Advances and Future Trends in Wireless Sensor Networks" organized by IEEE Malabar Hub (Bi-Weekly Webinar Series) on August 26, 2023 | 26.08.2023 | Dr. Rajesh G |
| 175. | Acted as a resource person for Online Faculty Development(FDP) on "Randomized and Approximation Algorithms " conducted by Department of CSE, NIT Warangal from 28th March -- 6th April 2023. | 28.03.2023 to 06.04.2023 | Dr. Mirza Ghalib Baig |
| 176. | Guest Lecture at Technical University Munich Germany on "Virtualization and IoT Essentials" | 10.07.2023 to 14.07.2023 | Dr. Shajulin Benedict |
| 177. | Resource person for the Five Days Online FDP on "Artificial Intelligence for Solving Real World Problems (Part-II)" scheduled from Sep 11 to Sep 15, 2023 in association with Academic Staff College, VIT, Vellore. Topic: | 12.09.2023 | Mr. Balasubramanian P |

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|------|--|--------------------------|---|
| | Fake news detection using Deep learning | | |
| 178. | Resource Person for the 7 Days Short Term Course on "Information and Communication Technology" conducted by UGC-HRDC, Topic Delivered- Introduction to Blockchain and Cryptocurrencies. | 05.09.2023 | Dr. Amit Kumar Roy |
| 179. | Acted as Resource Person for the National Webinar on Cryptography, Organized by the Department of Computer Applications, Shift I, Patrician College, Chennai on 15th July and 4th August, 2023. | 15.07.2023 to 04.08.2023 | Dr. E. Silambarasan |
| 180. | "Mathematics for AI and Data Science", organized by Dept of Mathematics, Sacred Heart College, Chalakudy, Kerala | 20.-6.2023 | Dr. Manu Madhavan |
| 181. | Applications of POS Tagging as part of Morphological Analysis of Low-Resource Indian Languages for Technology Development" (MALLTeD-2023), IIT Dharward | 22.07.2023 | Dr. Manu Madhavan |
| 182. | Resource Person in the joint certification course on AI with specialization in Reinforcement Learning organised by Dept. of Computer Science and Engineering, IIIT Kottayam jointly with Mathworks and FinAIQu Research on the topic "RLHF and ChatGPT" | 03.07.2023 to 14.07.2023 | Dr. Rubell Marion Lincy G |
| 183. | Resource Person in Five-Day Workshop cum FDP on Data Science with Complex Networks (DataNetWork-2023), Organized by Network Science Research Group and Data Science Research Group, IIIT Kottayam on the topic "Financial Network Analysis" | 24.7.2023 to 28.07.2023 | Dr. Rubell Marion Lincy G |
| 184. | Resource Person in Optimization Techniques for AI/ML/DS Models organized by the Department of Computational Science and Humanities, IIIT Kottayam on the Topics 1) Basic Python Course (with hands-on session) and 2) Portfolio Optimization (with hands-on session) | 22.05.2023 to 26.5.2023 | Dr. Rubell Marion Lincy G |
| 185. | Resource Person in DST STUTI ICT sponsored Computational Studies of Differential Equations: Modeling, Theory and Simulation (CSDE: MTS) organized by Department of Mathematics, NIT Calicut on the Topics 1) Introduction to R Programming and 2) Demonstration of R in Data Science | 24.07.2023 to 30.07.2023 | Dr. Rubell Marion Lincy G |
| 186. | Resource Person in 5-Days summer camp for students on "Math, Coding & AI" Jointly organized by IIIT Kottayam and MathLab Research on the Topic "Introduction to Artificial Intelligence" | 09.05.2023 to 13.05.2023 | Dr. Rubell Marion Lincy G |
| 187. | Resource Person in 6-day online Faculty Development Programme on "High Performance VLSI Architectures for Multidisciplinary Applications" | 01.08.2023 | Dr. S.Venkatesh |
| 188. | Resource Person in 2-Day Hands-on Workshop on "Arduino Programming for IOT Applications" | 17.07.2023 to 18.07.2023 | Dr. S.Venkatesh |
| 189. | Resource person for DST-SERB sponsored National Seminar at RMKCET, Chennai, on the topic, "Risks and Mitigation Strategies for Radiation from Cell Towers - A Research Outlook | 08.09.2023 to 09.09.2023 | Dr. Milind Thomas Themalil |
| 190. | Invited talk as part of Department of Computer Applications Students Association inauguration, St. George's College, Aruvithura, on the topic "Networks in the real world". | 15.09.2023 | Dr Divya Sindhu Lekha |

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|------|--|--------------------------|---|
| 191. | Invited talk as part of the two-day International Conference, "INTELLIGENT TECHNIQUES IN COMPUTER AND ENGINEERING SCIENCE (ITCES-2023)", College of Engineering Perumon, on the topic "Multilayer Network Analysis" | 15.06.2023 to 16.06.2023 | Dr Divya Sindhu Lekha |
| 192. | International Seminar on Algebra and Discrete Mathematics (INSADM 2022), as part of Centenary Celebrations, St Berchman's College, Changanassery, on the topic "Multilayer Network Analysis" | 14.12.2022 | Dr Divya Sindhu Lekha |
| 193. | Invited talk as part of the BiWeekly seminar series, IEEE Malabar Subsection, on the topic "Multilayer Network Analysis" | 20.10.2022 | Dr Divya Sindhu Lekha |
| 194. | Resource Person in Five-Day Workshop cum FDP on Data Science with Complex Networks (DataNetWork-2023), Organized by Network Science Research Group and Data Science Research Group, IIIT Kottayam on the topics "Introduction to Network Science" and "Network Visualization Tools". | 24.07.2023 to 28.07.2023 | Dr Divya Sindhu Lekha |
| 195. | Resource Person in the joint certification course on AI with specialization in Reinforcement Learning organised by Dept. of Computer Science and Engineering, IIIT Kottayam jointly with Mathworks and FinAIQu Research on the topic "Introduction to Machine Learning" | 03.07.2023 to 14.07.2023 | Dr. Suchithra M S |
| 196. | "Resource Person in Five-Day Workshop cum FDP on Data Science with Complex Networks (DataNetWork-2023), Organized by Network Science Research Group and Data Science Research Group, IIIT Kottayam on the topics ""Introduction to ML and DL" | 24.07.2023 to 28.07.2023 | Dr. Suchithra M S |
| 197. | Resource Person in invited talk on Why AI usage reaching critical mass today? organized by department of computer science St. Joseph's college (Autonomous), Irinjalakuda | 02.08.2023 | Dr. Suchithra M S |
| 198. | Resource Person for Three Days webinar Organized by Manorama Horizon,Kerala on the topic “ Artificial Neural Network (ANN): The Gateway to Artificial Intelligence”, | 27.05.2023 to 29.05.2023 | Dr. Suchithra M S |
| 199. | Resource Person for Three Days webinar Organized by Manorama Horizon,Kerala on the topic “ Artificial Neural Network (ANN) and AI”, | 20.03.2023 to 22.03.2023 | Dr. Suchithra M S |
| 200. | Delivered a talk on “Data Visualisation for Business” on the "Management Development Program for MSMEs" | 06.03.2023 to 10.03.2023 | Dr Vengadeswaran |
| 201. | Delivered a talk on “Distributed processing of large data using Hadoop” on 5 days FDP & Workshop on Nextgen Computing Paradigms for Big Data Applications | 05.06.2023 to 09.06.2023 | Dr Vengadeswaran |
| 202. | Delivered a talk on “R programming” on certification course program on "AI specialized in Reinforcement Learning," | 03.07.2023 to 14.07.2023 | Dr Vengadeswaran |

Table 44: List of Resource Persons from IIIT Kottayam for Various Events Across the India & Globe

Series of Webinars on Major Thrust Areas of National Interest by IIIT Kottayam

| SN | Series of Webinars on Major Thrust Areas of National Interest | Date of the Event | Details of Speakers | Number of Participants | Organized by Faculty Member |
|-----|--|--------------------------|--|------------------------------------|------------------------------------|
| 1. | Cyber Security Series of Webinar I | 12.11.2021 to 14.11.2021 | Dr. Shweta Shinde, Assistant Professor, ETH Zurich, Switzerland Mr. Nabeel Koya A, Scientist E, Cyber Security Group, CDAC Mr. Dittin Andrews, Scientist E, Cyber Security Group, CDAC | 150 | Dr. Panchami. V Dr. Manjith B C |
| 2. | Cyber Security Series of Webinar II | 20.11.2021 | Dr. Sakthivel Ramachandran, Associate professor, VIT Dr. Rasmi P S, Associate Professor & HoD, TIST Dr. Kokila Jagadeesh, Assistant Professor, IIIT Allahabad | 250 | Dr. Panchami. V Dr. Manjith B C |
| 3. | Quantum Computing Series of Seminars I | 27.01.2022 | Dr. L. Venkata Subramaniam, IBM India Research Laboratory, New Delhi | 257 Registrants 73 Participants | Dr. Rubell Marion Lincy G |
| 4. | Quantum Computing Series of Seminars II | 03.02.2022 | Prof. Prasanta K. Panigrahi, Professor (HAG), Department of Physical Sciences, IISER Kolkata | 169 Registrants 71 Participants | Dr. Rubell Marion Lincy G |
| 5. | Quantum Computing Series of Seminars III | 10.02.2022 | Dr. Sonali Mohapatra, Space Applications Lead, Craft Prospect, Glasgow, Scotland, UK | 143 Registrants 71 Participants | Dr. Rubell Marion Lincy G |
| 6. | Quantum Computing Series of Seminars IV | 17.02.2022 | Dr. Rajiv Krishnakumar, Executive Director, R&D Team, Goldman Sachs, Geneva, Switzerland | 152 Registrants 66 Participants | Dr. Rubell Marion Lincy G |
| 7. | Quantum Computing Series of Seminars V | 24.02.2022 | Mr. Simsarul Haq Vengaserri, Innovation Lead, Quantum Research, UST Innovation Labs, UST Global, Kerala | 169 Registrants 67 Participants | Dr. Rubell Marion Lincy G |
| 8. | Webinar on “Placement Guidance for 2019 Batch” | 07.07.2022 | Mr. AVS Aditya Vardhan (SE @ Shipy) | 70+ | Dr. C. D. Mathew |
| 9. | Webinar on “Industry Trends on Internships” | 08.07.2022 | Mr. AVS Aditya Vardhan (SE @ Shipy) | 100+ | Dr. C. D. Mathew |
| 10. | FinTech Webinar Series: #1 FinTech in Various Business Functions | 11.07.2022 | Mr. Ahsan Abdullah, Director FinTech, Tass & Hamjit | 60+ | Dr. J. V. Bibal Benifa |

| SN | Series of Webinars on Major Thrust Areas of National Interest | Date of the Event | Details of Speakers | Number of Participants | Organized by Faculty Member |
|-----|---|--------------------------|--|------------------------|--|
| 11. | Session- Life of an Entrepreneur (IIC activity) | 13.11.2021 | Mr. Joy Sebastian, Techgentsia PVT Ltd. | 100+ | Dr. Ragesh |
| 12. | IPR- An Introduction (IIC activity) | 25.11.2021 | Mr. Praveen Raj, Scientist, CSIR-NIIST, Trivandrum | 100+ | Dr. Ragesh |
| 13. | Advancements in Cyber Security | 27.12.2021 | Mr. Manoj Abraham, Additional Director General of Police, Trivandrum | 100+ | Dr. Ragesh and Dr. C.D.Mathew |
| 14. | Application of technology and innovation in Rubber (IIC Activity) | 30.12.2021 | Dr. K. N. Raghavan, Executive Director, Rubber Board | 100+ | Dr. Ragesh and Dr. C.D.Mathew |
| 15. | Intellectual Property Rights (IIC Activity) | 27.01.2022 | Smt. Devika. R. Nair, Patent Examiner, India Patent Office, Chennai | 120+ | Dr. Ragesh |
| 16. | Ethics for Engineers | 03.01.2022 | Dr. Ramesh Unnikrishnan, AICTE | 100+ | Dr. Ragesh and Dr. C.D.Mathew |
| 17. | 3D Computer Vision | 11.02.2022 | Mr. Abhinav (Accenture Labs, Bangalore) | 100+ | Dr. Ragesh and Dr. C.D.Mathew |
| 18. | Industry Expectations from Budding Engineers | 18.03.2022 | Mr. Santosh Rao, Associate Vice President-HR, Toyota Industries Engine India | 100+ | Dr. Ragesh and Dr. C.D.Mathew |
| 19. | Cloud security webinar series | 10.06.2022 to 12.06.2022 | Dr. Rajesh Doriya, Assistant professor, NIT Raipur Dr. Deepnarayan Tiwari, NPCI Lead blockchain Dr. Praveen Kumar Premkamal, Assistant professor, Kamaraj college of Engineering and Technology, Madurai | 100+ | Dr. Lavanya Settipalli and Dr. E. Silambarasan |
| 20. | Webinar on “Towards Green Ai: Tracking and Curtailing The Carbon Footprint Of Ai Python Code” | 06.07.2022 | Shri Anmol Krishan Sachdeva, Hybrid Cloud Architect, Google, India | 178 | Dr. Christina Terese Joseph & Dr. John Paul Martin |
| 21. | FinTech Webinar Series: #2 FinTech Trends & Insights | 13.07.2022 | Mr. Satyen Sharma, Vice President, State Street India | 60+ | Dr. J. V. Bibal Benifa |
| 22. | BioMEMS - Significance and Applications | 20.09.2022 | Dr. Anand Baby Alias | 50 | Dr. Lidiya Thampi Dr. Cinu C Kiliroor |

| SN | Series of Webinars on Major Thrust Areas of National Interest | Date of the Event | Details of Speakers | Number of Participants | Organized by Faculty Member |
|-----|--|--|--|------------------------|--|
| 23. | Digital Story Telling and Extended Reality | 21.9.2022 | Dr. Merin Simi Raj, Assistant Professor IIT Madras and Chairperson Indian Network for Memory Studies | 230 | Dr. Gayathri G.R Dr. Bakkyaraj .T |
| 24. | Webinar Series on Data Science and Machine Learning in Real World | 27th Aug, 4th Sept, 14th Sept, 24th Sept. | Dr. Hridoy Jyoti Mahanta, Scientist, CSIR-NEIST, Jorhat, Assam. Yusuke Kido, Co-Founder and CTO, LEGALSPACE Inc Japan. Dr. Rafal Rzepka, Assistant Professor, Hokkaido University, Japan. Prof. Arnab Bhattacharya, IIT Kanpur. | 200+ | Dr. Amit Kumar Roy, Dr. C. Oswald, Dr. Konjengbam Anand |
| 25. | Fair AI: Where AI meets Politics | 13.10.2022 | Dr. Deepak Padmanabhan, Associate Professor, Queen's University, Belfast, UK. | 80 | Dr. Suchithra M S |
| 26. | Online Workshop On World Leading Industry Relevant Embedded, Iot, Robotics Design, Simulation And Rapid Prototyping Software Proteus VSM | 28.11.2022 | NAVYA SRI PABBISSETTY, Embedded engineer, Cybermotion Technologies Pvt. Ltd., Hyderabad, India | 68 | Dr. Koppala Guravaiah, Dr. Santhos Kumar, Dr. Selvi C, Dr. Bhanu Chander |
| 27. | Introduction to Transportation Network Science | 01.11.2022 to 05.11.2022 | Dr Tarun Rambha, IISc Bangalore Mr. Prateek Agarwal, IISc Bangalore | 50 | Dr Divya Sindhu Lekha |
| 28. | Webinar on Reinforcement Learning- A Research Perspective | 10.03. 2023 | Dr. Viswanath Gopalakrishnan, Assistant Professor, IIIT Bangalore | 83 | Dr. Suchithra M S |
| 29. | Drones and Security Issues | 30.03.2023 | Dr. Manoj Abraham IPS, ADGP Kerala | 137 | Dr Ragesh Warrior and Dr Mathew C D |
| 30. | Webinar on Introduction to Web 3.0 and Smart Contracts | 15.04.2023 | Mr. Sanket Agarwal, Project Manager and Lead academics, QuillAudit | 90 | Dr. Lavanya Settipalli, Dr. Mathew C D, Dr. Ragesh Warrior |
| 31. | Webinar on Visualization: Decoding Performance using Microsoft Power BI | 16.05.2023 | Mr. Amit Jain, Data Engineer, National Australian Bank | 48 | Dr. Suchithra M S, Dr. Lidiya Thampi |
| 32. | Technology & Vocation in the | 02 June, 2023 | Dr. Rachel Philip, Assisstant Professor, IIT Jodhpur | 38 | Dr. Josit Mariya |

| SN | Series of Webinars on Major Thrust Areas of National Interest | Date of the Event | Details of Speakers | Number of Participants | Organized by Faculty Member |
|----|---|-------------------|---------------------|------------------------|-----------------------------|
| | Information Age: A Sociological Perspective | | | | |

Table 45: Series of Webinars on Major Thrust Areas of National Interest by IIIT Kottayam

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|-------------|--|-----------------------------|---|---|-----------------------------|
| 2020 | | | | | |
| 1. | Machine Learning Algorithms and Applications | 4-8, November 2020 (5 days) | <p>Day 1:</p> <ol style="list-style-type: none"> 1. Dr. B. R. Shankar, Professor, NITK 2. Dr. Jidesh P., Associate Professor, NITK 3. Dr. Deepu V., Associate Professor, NITK <p>Day 2:</p> <ol style="list-style-type: none"> 4. Dr. Sudeep V, Assistant Professor, NITC 5. Dr. Bibal Benifa, Assistant Professor, IIITK 6. Dr. Jeny Rajan, Assistant Professor, NITK <p>Day 3:</p> <ol style="list-style-type: none"> 7. Dr. Muruganandam P. Professor, St. Gitts, Kottayam. 8. Dr. Narasimhadhan A. V., Assistant Professor. NITK 9. Dr. Shyam Lal, Assistant Professor, NITK <p>Day 4:</p> <ol style="list-style-type: none"> 10. Dr. Lalit Singh, Scientist-G, BARC. 11. Dr. Suraj K., Tech Lead, Continental Automotive Components India Pvt. Ltd. 12. Mr. Sundara Moorthy, Project Manager, SocGen, Bangalore. <p>Day 5:</p> <ol style="list-style-type: none"> 13. Dr. Jayakrusha Sahoo, Assistant Professor, IIITK | 52 | Dr. Bini A. A. |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|----|--|------------------------------|---|---|-----------------------------|
| | | | 14. Dr. Shyju Wilson, Assistant Professor, IIITK | | |
| 2. | Internet of Things: Hardware, Software, and Applications | December 7-11, 2020 (5 days) | <p>Day 1:</p> <ol style="list-style-type: none"> 1. Dr. Ankesh Jain, IIT Delhi 2. Dr. Javed, Intel Bangalore <p>Day 2:</p> <ol style="list-style-type: none"> 3. Dr. Anoop, IIT Bhubaneswar 4. Dr. Nitin, Post Doc Scholar, Arhus University, Denmark 5. Dr. Nalesh, CUSAT, Kochi <p>Day 3:</p> <ol style="list-style-type: none"> 6. Dr. Soumya Prakash, IIT Bhubaneswar 7. Dr. Vimal, KrishTec <p>Day 4:</p> <ol style="list-style-type: none"> 8. Dr. Jobish, University College Cork, Ireland 9. Dr. Aswathy, Prana Yoga <p>Day 5:</p> <ol style="list-style-type: none"> 10. Dr. Basawaraj T, NITK Suratkal | 147 | Dr. Kala S |
| 3. | Cyber Security and Digital Forensics | December 1-5, 2020 (5 days) | <p>Day 1:</p> <ol style="list-style-type: none"> 1. Dr. Hiran V Nath Assistant Professor, CSE, NIT Calicut 2. Dr. N. Annamalai Assistant Professor, IIIT Kottayam <p>Day 2:</p> <ol style="list-style-type: none"> 3. Dr. Manikandan V.M, Assistant Professor, CSE, SRM University, Amaravati, Andhra Pradesh (SRM) 4. Dr. Ch. Aswani Kumar Professor, School of Information Technology & Engineering, VIT 5. Ms. Mahima Mary Mathews, Assistant Professor, CSE, CUSAT <p>Day 3:</p> <ol style="list-style-type: none"> 6. Dr. Chester Rebeiro Department of Computer Science and Engineering, IIT Madras 7. Dr. Manjith B.C, Assistant Professor, IIIT Kottayam | 100 | Dr. Panchami V |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|-------------|--|---|---|---|-----------------------------|
| | | | <p>Day 4:</p> <p>8. Dr. Panchami.V, Assistant Professor, IIIT Kottayam</p> <p>9. Mr. Rumaise CEO, Daddysanta Technologies, Ernakulum, Kerala</p> <p>Day 5:</p> <p>10. Dr. Rajesh P. Nair Assistant Professor, Department of Ship Technology, CUSAT, Kerala</p> <p>11. Mr. Nabeel Koya Scientist-E, CDAC, Thiruvananthapuram, Kerala.</p> <p>12. Dr. Rizwan Ahmed CTO, delaPlex Software</p> | | |
| 4. | Internet of Things | September 14.9.2020 to 18.9.2020 (5 Days) | <p>Day 1:</p> <p>1. Dr. Shajulin Benedict, Asst. Professor, IIITK</p> <p>Day 2:</p> <p>2. Dr. Jobish, Asst. Prof. IIITK</p> <p>3. Dr. K. Guraviah, Asst. Prof. IIITK</p> <p>4. Dr. Arun E., Asst. Prof. IIITK</p> <p>5. Dr. Panchami, Asst. Prof. IIITK</p> <p>Day 3:</p> <p>6. Prof. Rajkamal Ex. Vice-Chancellor, Devi Ahilyabai University, Indore</p> <p>7. Mr. Rakesh D., Repricatron Pvt. Ltd.</p> <p>Day 4:</p> <p>8. Dr. Sivasankar E., Asst. Prof. NIT Trichy</p> <p>9. Dr. Jayakrushna Sahoo, Asst. Prof. IIITK</p> <p>10. Mr. Anil Sharma, Dolcera Inc..</p> <p>Day 5:</p> <p>11. Dr. Shajulin Benedict, Asst. Prof. IIITK</p> <p>12. Mr. Basil C. Sunny, IIITK Research Scholar.</p> | 68 | Dr. Shajulin Benedict |
| 2021 | | | | | |
| 5. | Serverless IoT for Societal Products | May 24.5.2021 to | <p>Day 1:</p> <p>1. Dr. Shajulin Benedict, Asst. Professor. IIITK</p> | 53 | Dr. Shajulin Benedict |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|----|--|---------------------------|---|---|-----------------------------|
| | | 28.5.2021 (5 Days) | <p>Day 2:</p> <ol style="list-style-type: none"> 2. Dr. Shajulin Benedict, Asst. Professor IIITK 3. Dr. Deb Singdeo, Matlab Inc., PostDoc Researcher. <p>Day 3:</p> <ol style="list-style-type: none"> 4. Prof. Rajkamal Ex. Vice-Chancellor, Devi Ahilyabai University, Indore 5. Dr. Jitendra Tembhurne, IIIT Nagpur. <p>Day 4:</p> <ol style="list-style-type: none"> 6. Dr. Sivasankar E., Asst. Prof., NIT-Trichy 7. Mr. Harikrishna, Trysara Pvt. Ltd. 8. Mr. Anil Sharma, Dolcera Inc. <p>Day 5:</p> <ol style="list-style-type: none"> 9. Shri. R. Ramanan, First Mission Director, Atal Innovation Mission. 10. Mr. Basil C. Sunny, Ph.D. Scholar, IIITK 11. Dr. Shajulin Benedict, Asst. Professor. IIITK | | |
| 6. | Quantum Computing | July 12-16, 2021 (5 days) | <p>Day 1:</p> <ol style="list-style-type: none"> 1. Dr. Aswath Babu, IIIT Dharwad 2. Dr. Debajyoti Bera, IIIT Delhi <p>Day 2:</p> <ol style="list-style-type: none"> 3. Sharad Sinha, IIT Goa 4. Dr. Abhoy, Kolkata <p>Day 3:</p> <ol style="list-style-type: none"> 5. Dr. Aswathy, Prana yoga 6. Dr. Kala S and Mr. Vishnu Ajith, IIIT Kottayam <p>Day 4:</p> <ol style="list-style-type: none"> 7. Dr. Harish Sahu, DRDO Delhi 8. Dr. Vimal, KrishTec <p>Day 5:</p> <ol style="list-style-type: none"> 9. Dr. Lincy, IIIT Kottayam | 78 | Dr. Kala S |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|----|--|--|---|---|-----------------------------|
| 7. | Data Science | 28.07.2021 to 01.08.2021 (5 days) | <p>Day 1:</p> <ol style="list-style-type: none"> 1. Dr. Ebin Deni Raj, Asst. Prof, IIIT-K 2. Dr. T. Bakkyaraj, Asst. Prof, IIIT-K 3. Dr. J. Bruce Ralphin Rose, Asst. Prof, Anna University, Chennai. <p>Day 2:</p> <ol style="list-style-type: none"> 4. Dr. T. Bakkyaraj, Asst. Prof, IIIT-K 5. Dr. Jayakrushna Sahoo, Asst. Prof, IIIT-K 6. Dr. Dilwar Hussain Mazumder, Asst. Prof, NIT, Nagaland <p>Day 3:</p> <ol style="list-style-type: none"> 7. Dr. Jayakrushna Sahoo, Asst. Prof, IIIT-K 8. Dr. Nagaraju Baydeti, Asst. Prof, NIT, Nagaland 9. Mr. George V Joy, Research Scientist, Hamad Medical Corporation, Qatar. <p>Day 4:</p> <ol style="list-style-type: none"> 10. Dr. Nagaraju Baydeti, Asst. Prof, NIT, Nagaland 11. Dr Dilwar Hussain Mazumder, Asst. Prof, NIT, Nagaland 12. Dr. J.V. Bibal Benifa, Asst. Prof, IIIT-K <p>Day 5:</p> <ol style="list-style-type: none"> 13. Dr. K. Saravanan, Asst. Prof, Anna University, Chennai. 14. Mr. Arunjit Chowdhury, CEO, Enterprise Building Training Solutions | 102 | Dr. J. V. Bibal Benifa |
| 8. | Sensor Data Analytics | 28 th Nov - 3 rd Dec 2021 (5 days) | <p>Day 1:</p> <ol style="list-style-type: none"> 1. Dr.Kumaravel S, Asst. Prof, NIT Calicut 2. Dr. Arun Raj Kumar, Asst. Prof, NIT Calicut <p>Day 2:</p> <ol style="list-style-type: none"> 3. Dr. J. Sahoo, Asst. Prof, IIIT Kottayam | 104 | Dr. P. Victor Paul |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|----|--|-----------------------------|--|---|-----------------------------|
| | | | <p>4. Dr. Shajulin Benedict, Asst. Prof, IIIT Kottayam</p> <p>5. Dr. K.S. Kuppu Samy, Asst. Prof, Pondicherry Central University</p> <p>Day 3:</p> <p>6. Dr. Santhi Thilagam, Asso. Prof, NIT Surathkal</p> <p>7. Dr. C. Ganesh Kumar, Asst. Prof, Indian Institute of Plantation Management Bangalore</p> <p>8. Dr. Pradeep Kumar Bisen, SVP, R&D at SatSure Limited</p> <p>Day 4:</p> <p>9. Dr Anand Mahalingam, Vice President - Data Labs, HDFC Life</p> <p>10. Prof. Edmond C Prakash, Cardiff Metropolitan University, UK</p> <p>11. Dr. Madhumita Dash, Principal AI Research Engineer, Fasal Limited</p> <p>Day 5:</p> <p>12. Mr. Bibin Manuel, Lead – Microsoft Azure CoE, TCS</p> <p>13. Ms. Remitha Rajan P.T, Psychologist, IIIT Kottayam</p> | | |
| 9. | Big Data Security and Analytics | December 6-10 2021 (5 days) | <p>Day 1:</p> <p>1. Dr. J. V Bibal Benifa, Assistant Professor, CSE, IIIT Kottayam</p> <p>2. Dr. Saravanan Krishnan, Assistant Professor, CSE, Anna University, Regional Campus, Tirunelveli</p> <p>3. Dr. Jayakrushna Sahoo, Assistant Professor, CSE, IIIT Kottayam</p> <p>Day 2:</p> <p>4. Dr. Satyajit Das, Assistant Professor, CSE, IIT Palakkad</p> <p>5. Dr. Dittin Andrews, Scientist-E, CDAC, Thiruvananthapuram, Kerala.</p> <p>6. Dr. Tony Thomas, Associate Professor, Indian Institute Of Information Technology and Management-Kerala (IIITM-K)</p> | 145 | Dr. Panchami V |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|-----|--|------------------------------------|--|---|-----------------------------|
| | | | <p>Day 3:</p> <p>7. Dr. Hiran V Nath Assistant Professor, CSE, NIT Calicut</p> <p>8. Dr. Amritha P. P, Assistant Professor, TIFAC-CORE in Cyber Security, Coimbatore Campus.</p> <p>9. Ms. Mahima Mary Mathews, Assistant Professor, CSE, CUSAT</p> <p>Day 4:</p> <p>10. Mr. Srinivasan Thanukrishnan, CTO & Director, Glosys Technology Solutions Pvt. Ltd, Chennai</p> <p>11. Dr. Rajesh P. Nair, Assistant Professor, Department of Ship Technology, CUSAT</p> <p>Day 5:</p> <p>12. Dr. Mukesh Saini, Assistant professor, CSE, IIT-Ropar</p> <p>13. Dr. Judy M.V, Professor, Department of Computer Applications, CUSAT, Kerala</p> <p>14. Dr. Lija Mohan, Domain Analyst, Prevalent AI</p> | | |
| 10. | <p>Deep Learning: Models and use cases using Python</p> <p>10 days Online FDP Funded by Electronics & ICT Academy, NIT Warangal and sponsored by Ministry of Electronics and Information Technology (MeitY), GOI</p> | 12.12.2022 to 21.12.2022 (10 Days) | <p>Day 1: Dr. M Srinivas, NIT Warangal</p> <p>Day 2: Prof. Dr. Garimella Ramamurthy, Mahindra University</p> <p>Day 3: Dr. M Srinivas, NIT-Warangal</p> <p>Day 4: Dr. Rubell Marion Lincy, IIIT Kottayam Dr. Adepu Ravi Sankar, Amazon</p> <p>Day 5: Dr. Suchithra M S, IIIT Kottayam Dr Earnest Paul, NIT Warangal</p> <p>Day 6: Dr. Argya Pal, Monashu University</p> <p>Day 7: Dr. Mohammad Farukh Hashmi, NIT Warangal</p> <p>Day 8: Subba Reddy Oota</p> | 62 | Dr. Suchithra M S |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|-----|---|---------------------|--|---|--|
| | | | ML Researcher- Woundtech, France Day 9: Subba Reddy Oota ML Researcher- Woundtech, France Day 10: Dr. Mohammad Farukh Hashmi, NIT Warangal Dr. Adepu Ravi Sankar, Amazon | | |
| 11. | 5-day FDP & Workshop on "Nanodevices for Wearable Electronics" @IIIT-K | 17-21 July 2023 | Day 1: Prof. Honey John, CUSAT; Dr. G.Padmalaya, Vel Tech University; Dr. VK. Srivithya, Incheon National University; Day 2: Dr. J. Anitha, North Carolina University, USA; Dr. G. Raam Dheep, Lovely Professional University, Punjab; Dr. S.Venkatesh, IIIT-K; Day 3: Dr. G. Raam Dheep, LPU, Dr. Della Thomas, IIIT-K; Day-4: Dr. S.Venkatesh, IIIT-K; Dr. G.Raam Dheep, LPU, Dr. GNK Reddy, NIT, Calicut; Day 5: Mr. Anuroop, IIIT-K, Dr. Srikrishnarkar Pillalamarri, Tampere University. | 23 | Dr. S.Venkatesh, Dr. Della Thomas |
| 12. | 5-Day Workshop on "Advanced Cryptography and Digital Forensics" | 5th - 9th June 2023 | Day 1: Mr. Nabeel Koya A, CDAC, Trivandrum; Day 2: Dr. Manjith B C, and Dr. A. Balu, IIIT Kottayam, Dr. Kunwar Singh, NIT, Trichy; Day 3: Mr. Prakesh Khasor, NSFU, Gandhinagar, Ms. Mahima Mary Mathews, IIIT Kottayam and Dr. Meenakshi Kansal, RRU, Gujarat; Day 4: Dr. B. Janet, NIT, Trichy, Dr. Panchami V, IIIT Kottayam and Dr. Vinod P, Univ. of Padua, Italy; Day 5: Dr. Ragesh G K, Dr. Arun Cyril Jose, and Ms. Sheema Madhusudhanan, IIIT Kottayam and Mr. Avinash Kumar, RRU, Gujarat | 40 | Dr. E. Silambarasan, Dr. Lavanya Settipalli |
| 13. | 2 week Certification Course on AI with specialization in Reinforcement Learning | 03 -14th July 2023 | Day 1: Dr. John Paul Martin Assistant Professor, IIITK, Dr. Victor Paul Assistant Professor, IIITK Day 2: Dr. Bakkyaraj Assistant Professor, IIITK, Dr. Dhanyamol M V | 17 | Dr. Rubell Marion Lincy G Dr. Suchithra M S |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|-----|--|----------------|---|---|---|
| | | | <p>Assistant Professor, IIITK, Dr. Christina Assistant Professor, IIITK, Dr. Suchithra M S Assistant Professor, IIITK</p> <p>Day 3: Dr. Selvi Assistant Professor, IIITK, Dr. Bibal Benifa Assistant Professor, IIITK, Dr. Manu Madhavan Assistant Professor, IIITK</p> <p>Day 4: Dr. Asha Assistant Professor, IIITK, Dr. Viswanath Gopalakrishnan Assistant Professor, IIIT Bangalore</p> <p>Day 5: Dr. Viswanath Gopalakrishnan Assistant Professor, IIIT Bangalore</p> <p>Day 6: Dr. Debanand Singdeo and team (Mathworks)</p> <p>Day 7: Dr. Debanand Singdeo and team (Mathworks)</p> <p>Day 8:Dr. Debanand Singdeo and team (Mathworks)</p> <p>Day 9: Dr. Vengadeswaran Assistant Professor, IIITK, Dr. Ebin Associate Dean, IIITK</p> <p>Day 10: Dr. Lincy, Assistant Professor, IIITK, Dr. Deepak Padmanabhan Queens University, Belfast, UK</p> | | |
| 14. | Nextgen Computing Paradigms for Bigdata Applications- 5-9 June 2023, | 5-9 June 2023 | <ol style="list-style-type: none"> 1. Dr. S D Madhukumar, NIT Calicut 2. Dr. Anand K, IIT Dharward 3. Dr. Raghavan, IIITDM Kancheepuram 4. Dr. Ansool, NIT Patna 5. Dr. Sridhar Dominlal, Accenture 6. Dr. Muneeswaran P-IIITDM Kancheepuram 7. Dr. Prasanth Misra, TCS Research 8. Dr. Panthadeep, Bhattacharjee, IIIT Guwahati | 32 | Dr. John Paul Martin, Dr. Nilotpal Chakrabarty, Dr. Manu Madhavan |
| 15. | SIKER: School on Indian Knowledge | 17-21 Jul 2023 | Dr. Sreedharan R, NIT Calicut Dr. Manoj V R, CIFSS | 58 | Dr. Manu Madhavan, |

| SN | Title of FDP sponsored by AICTE ATAL or Other Funding Agencies | Dates | Day-wise list of Speakers for FDP | Number of Participants from Various Institutions across India | Organized by Faculty Member |
|---------------|--|-------------------|---|---|--|
| | System and Engineering Research | | Dr. Pawan Goyal, IIT KGP Dr. Rudramurthy, IBM Research Dr. Jayakrishnan N, Amrita Dr. Achut Sankar S Nair, Kerala University Dr. Deepak John, IIT Hyderabad Dr. Dinesh, Kottakkal Dr. Gopakumar NIT Calicut | | Dr. Nandini J Warriar, Dr. Selvi C |
| 16. | N-FAB: NLP Foundation and Beyond | 7-12, Augst, 2023 | Dr. U S Reddy, NIT Trichy Dr. Anand K, IIT Dhanward Dr. Jeena K K, CUSAT Dr. Premjith B, Amrita Ms. Athira P, GE | 42 | Dr. Manu Madhavan, Dr. John Paul, Dr. Christina Therasa Joseph |
| Total 16 FDPs | | | 122 Speakers / Talks | 1123 Participants | |

Table 46: Faculty Development Programmes (FDP) organized by faculty members of IIIT Kottayam

| SN | Conference / Symposium / Seminar / Hackathons Organized by IIIT Kottayam | Dates | In Charge Faculty Member |
|----|---|-------------------------|--|
| 1. | Organized IoT-Cloud 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) | 7.12.2018 | Dr. Shajulin Benedict IIIT Kottayam and Dr. Sohrab R. Bhot, ROLTA Foundation |
| 2. | Organized ACM / IEEE-CS / CSI Sponsored Research & Industry symposium on IoT Cloud (IoTCloud'21) | 03.05.2021 | Dr. Shajulin Benedict |
| 3. | 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. | 27.11.2020 – 29.11.2020 | Dr. Shajulin Benedict |
| 4. | First IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-20) | 13.02.2020 – 14.02.2020 | Dr. Shajulin Benedict |
| 5. | Second IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-21) | 13.02.2021 – 14.02.2021 | Dr. Ebin Deni Raj and Dr. Jayakrushna Sahoo |
| 6. | Third IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-22) | 13.02.2022 – 14.02.2022 | Dr. Jayakrushna Sahoo and Dr. Kala S |
| 7. | Forth IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-23) | 11-02-2023 – 12-02-2023 | Dr. Kala and Dr. Divya |
| 8. | National Level Entrepreneurial Seminar jointly with MSME-GoI | 17.11.2021 | Dr. Shajulin Benedict & Team |
| 9. | Announced Fourth IEEE International Conference on Innovative Trends in Information Technology (ICITIIT-23) | 11.02.2023 – 12.02.2023 | Dr. Kala S and Dr. Divya Sindhu Lekha |

| SN | Conference / Symposium / Seminar / Hackathons Organized by IIIT Kottayam | Dates | In Charge Faculty Member |
|-----|---|--------------------------|---|
| 10. | Announced Fourth IEEE International Conference on Quantum Technologies, Communications, Computing, Hardware and Embedded Systems Security (iQ-CCHES'23) | Sept 2023 | Dr. Panchami. V and Dr. Ragesh G K |
| 11. | One- Day Workshop on Fake News:Challenges in Fact-Checking | 30.11.2022 | Dr. Gayathri G.R. |
| 12. | Five-day Online Workshop “Introduction to Transportation Network Science” | 01.11.2022 to 05.11.2022 | Dr. Divya Sindhu Lekha |
| 13. | Online Workshop on World Leading Industry Relevant Embedded, IoT, Robotics Design, Simulation, and Rapid Prototyping Software Proteus VSM | 28.11.2022 | Dr. Koppala Guravaiah, Dr. Selvi C, Dr. Santhos Kumar, Dr. Bhanu Chander |
| 14. | A Symposium on LiFE mission awareness and talk on “AI Solutions to Climate Change” | 18.05.23 | Dr. Gayathri G.R. |
| 15. | Indo-European Entrepreneurial Hackathon (IEE-Hacks 2022) (Jointly with TUM-Germany and AIC IIITKottayam) | 15.8.2022 to 23.8.2022 | Dr. Shajulin Benedict |
| 16. | Management Development Program – Scaling up of MSMEs via. ICT (Jointly with MSME-Trissur and AIC IIITKottayam) | 6.3.2023 to 10.3.2023 | Dr. Shajulin Benedict |
| 17. | EBSCO-IEEE (Industry-specific) webinar on "IEEE Article Writing and Digital Library Features" | 2.3.2022 | Dr. Shajulin Benedict, Dr. Gautam Mali Dr. Vengadeswaran |
| 18. | 3 Day Workshop on IoT Analytics | 8.11.2022 to 10.11.2022 | Dr. Shajulin Benedict Dr. Gautam Mali Dr. Vengadeswaran |
| 19. | In-plant Training on IoT | 19.12.2022 to 20.12.2022 | Dr. Shajulin Benedict |
| 20. | Organized theme based Special Session titled "Graph Based Application In Intelligent Computing" in FICTA-2023 held at Cardiff School of Technologies, Cardiff Metropolitan University, Cardiff, UK. | 11.03.2023, 12.03.2023 | Dr. Jayakrushna Sahoo Dr. Manu Madhavan., Dr Nandini J Warriar., Dr. Selvi C |
| 21. | Research Showcase Event, Summit'23 @IIIT Kottayam | 10.06.2023 | Dr. Cinu C Kiliroor, Dr. Lidiya Lilly Thampi, Dr. Jayakrushna Sahoo |
| 22. | Internal Hackathon for Smart India Hackathon 2023 | 21.09.2023 | Dr. Sivaiah Bellamkonda Dr. Victor Paul Dr. Santos Kumar |
| 23. | SIKER2023: School on Indian Knowledge System and Engineering Research | 17.07.2023 to 21.07.2023 | Dr. Manu Madhavan Dr. Nandini J Warriar Dr. Selvi C |
| 24. | FNA-2023: International Workshop on “New Trends in Future Networking Architectures and Routing Solutions” | 15.03.2023 to 17.03.2023 | Dr. Guravaiah Dr. Santhosh Dr. Bhanu chander |
| 25. | Seminar on scope for technology integration in rubber sector | 10.08.2023 | Dr. Suchithra M S |
| 26. | iQCCHES'23-International Conference | 15.09.2023 to 16.09.2023 | Dr. Panchami V and Dr. Ragesh G K |

Table 47: Conference / Symposium / Seminar / Hackathons Organized by IIIT Kottayam

| SN | Summer / Winter Internship Program | Dates | Internal / External | Faculty Members Involved | Number of Participants |
|-----|------------------------------------|--|---------------------|-----------------------------|------------------------|
| 1. | Summer | 07.06.2021 to 06.08.2021 (In progress) | Sponsored | Dr. Divya Sindhu Lekha | 1 |
| 2. | Summer | 07.06.2021 to 06.08.2021 (In progress) | Internal | Dr. Koppala Guravaiah | 1 |
| 3. | Summer | 07.06.2021 to 06.08.2021 (In progress) | External | Dr. J. V. Bibal Benifa | 2 |
| 4. | Summer | 07.06.2021 to 06.08.2021 (In progress) | External | Dr. Christina Terese Joseph | 1 |
| 5. | Summer | 11.06.2021 to 10.08.2021 (In progress) | External | Dr. Keshab Nath | 1 |
| 6. | Summer | 07.06.2021 to 06.08.2021 (In progress) | External | Dr. P. Victor Paul | 3 |
| 7. | Summer | 1.7.2021 to 31.8.2021 | External | Dr. Shajulin Benedict | 2 |
| 8. | Summer | 1.6.2018 to 30.6.2018 | External | Dr. Shajulin Benedict | 3 |
| 9. | Summer | 22.7.2019 to 17.8.2019 | External | Dr. Shajulin Benedict | 1 |
| 10. | Summer | Started on 07.06.2021 (In progress) | External | Dr. Bakkyaraj T | 3 |
| 11. | Summer | 07.06.2021 to 06.08.2021 (in progress) | External | Dr. Kala S | 2 |
| 12. | Summer | 07.06.2021 to 06.08.2021 (in progress) | External | Dr. Jayakrushna Sahoo | 2 |
| 13. | Summer | 07.06.2021 to 06.08.2021 (in progress) | External | Dr. Arun Cyril | 2 |
| 14. | Summer | 01.05.2019 to 15.06.2019 | External | Dr Ebin Deni Raj | 1 |
| 15. | Summer | 07.06.2021 to 06.08.2021 (in progress) | External | Dr Ebin Deni Raj | 2 |
| 16. | Institute Internship | 07.06.2021 to 06.08.2021 (in progress) | External | Dr Panchami.V | 1 |
| 17. | Institute Internship | 07.06.2021 to 06.08.2021 (in progress) | External | Dr Rubell Marion Lincy G | 1 |
| 18. | Institute Internship | 02.07.2021 to 01.09.2021 (in progress) | External | Dr Rubell Marion Lincy G | 1 |
| 19. | Summer Internship Program | 7-June-2021 to 27-October-2021 | External | Dr. Panchami.V | 1 |
| 20. | Summer | 07.06.2021 to 06.08.2021 (Completed) | External | Dr. Divya Sindhu Lekha | 1 |
| 21. | Summer | June - July 2022 | External | Dr. Lidiya Lilly Thampi | 2 |
| 22. | Summer | June - July 2022 | External | Dr Ebin Deni Raj | 1 |
| 23. | Summer | June - July 2022 | External | Dr Bakkyaraj T | 1 |
| 24. | Winter | Dec 2021 - Feb 2022 | External | Dr Suchithra M S | 2 |
| 25. | Summer | June - July 2022 | External | Dr P Victor Paul | 3 |
| 26. | Summer | Dec 2021- Feb 2022 | External | Dr P Victor Paul | 1 |
| 27. | Summer | June - July 2022 | External | Dr. Kala S | 4 |
| 28. | Summer | June - July 2022 | External | Dr. Jayakrushna Sahoo | 4 |
| 29. | Winter | Dec 2021-Feb 2022 | External | Dr. Christina Terese Joseph | 3 |
| 30. | Summer | June-August 2022 | External | Dr. Christina Terese Joseph | 3 |
| 31. | Winter | Dec 2021-Feb 2022 | External | Dr. J. V. Bibal Benifa | 2 |
| 32. | Summer | June-August 2022 | External | Dr. J. V. Bibal Benifa | 2 |
| 33. | Summer | June-August 2022 | External | Dr. Koppala Guravaiah | 1 |
| 34. | Summer | June-August 2022 | External | Dr. Divya Sindhu Lekha | 1 |

| SN | Summer / Winter Internship Program | Dates | Internal / External | Faculty Members Involved | Number of Participants |
|-----|------------------------------------|--------------------------|---------------------|--------------------------|------------------------|
| 35. | Winter | Dec 2021-Feb 2022 | External | Dr. Dhanyamol M V | 2 |
| 36. | Summer | June-July 2022 | External | Dr. Dhanyamol M V | 1 |
| 37. | Summer | June-Aug 2022 | External | Dr. Lidiya | 2 |
| 38. | Summer | June-Dec 2022 | External | Dr. Kala S | 4 |
| 39. | Winter | 27.11.2017 to 9.12.2017 | Internal | Dr. Shajulin | 1 |
| 40. | Summer | 01.06.2018 to 14.06.2018 | External | Dr. Shajulin | 3 |
| 41. | Summer | 02.07.2019 to 15.07.2019 | External | Dr. Shajulin | 4 |
| 42. | Summer | 10.08.2021 to 09.09.2021 | External | Dr. Shajulin | 2 |
| 43. | Summer | June-August 2022 | External | Dr P Victor Paul | 2 |
| 44. | Summer Internship | 08/06/2023 - 08/08/2023 | External | Dr. Goutam Mali | 1 |
| 45. | Internship | 11/09/2023- | External | Dr. Asha Sebastian | 1 |
| 46. | Internship | 27/09/23- | External | Dr. Asha Sebastian | 1 |
| 47. | Internship | 08-05-2023 to 31-07-2023 | External | Dr. Manu MADhavan | 3 |
| 48. | Internship | 1-6-2023 to 17-8-2023 | External | Dr. Cinu C Kiliroor | 1 |
| 49. | Internship | 24-5-23- to 30-8-23 | External | Dr. Lidiya Lilly Thampi | 2 |
| 50. | Internship | 1/6/2023 to 23-8-2023 | External | Dr. Nandini J. Warriar | 1 |
| 51. | Internship | 1.06.2023 - 30.7.2023 | External | Dr. Kala S | 2 |
| 52. | Internship | 1-6-2023 to 31-8-2023 | External | Dr P Victor Paul | 3 |
| 53. | | | | | |
| | Total | | | | 98 |

Table 48: Summer / Winter Internship Programs Offered by IIIT Kottayam for Internal & External Students - Total 98

| SN | Training Program | Dates | Faculty Members Involved |
|-----|---|--------------------------|--|
| 1. | Learning Week - Competitive Coding Sessions | 22.12.2020 to 30.12.2020 | Dr. P. Victor Paul, Dr. Ebin Deni Raj, Dr Koppala Guruvaiah, Dr. Jayakrushna Sahoo, Dr. Arun Cyril, Dr. Shyju Wilson |
| 2. | STTP at IIIT-K: ARM Programming | 22.03.2018 to 23.03.2018 | Dr. Bini A. A |
| 3. | Deep Learning for Computer Vision for MATLAB | 05.08.2018 | Dr. Bini A. A |
| 4. | Workshop on Embedded Programming using ARM Microcontroller Development Boards | 18.02.2020 | Dr. Bini A.A |
| 5. | Workshop on Development of Embedded Software using Altair Embed | 19.02.2020 | Dr. Bini A. A |
| 6. | A one-day workshop on the Internet of Things | 13.01.2018 | Dr. Ebin Deni Raj |
| 7. | Design Thinking | 24.10.2018 | Dr. Ebin Deni Raj |
| 8. | Tech Talk – Disruptive Technology | 08.03.2018 | Dr. Shajulin Benedict |
| 9. | TechTalk –Cloud Computing | 08.03.2018 | Dr. Shajulin Benedict |
| 10. | STTP at IIIT-K: Collaborative Teaching Cloud Computing | 8.03.2018 to 15.03.2018 | Dr. Shajulin Benedict |
| 11. | Women Entrepreneurship Program | 25.07.2019 | Dr. Shajulin Benedict & AIC Team |
| 12. | Endeavor | 31.07.2019 | Dr. Shajulin Benedict |

| SN | Training Program | Dates | Faculty Members Involved |
|-----|--|--------------------------|--|
| 13. | DST-NIMAT Entrepreneurial training program | 03.12.18 to 10.01.2019 | Dr. Shajulin Benedict |
| 14. | Summer Training Program 2019: Industry-Research Oriented Summer course | May to June 2019 | Dr. Shajulin Benedict a joint event with 3DDivella, Dolcerra, and IIT Professors |
| 15. | IDEATORS 2019 | 25.07.2019 | Dr. Shajulin Benedict |
| 16. | Seminar: IT for Business – for Mangalam College of Engineering (19 students and 2 Faculties) conducted at IIIT-K | 01.10.2019 | Dr. Shajulin Benedict |
| 17. | Organized “30 Days of Google Cloud Program ” with 200+ students from IIITK registered for the program and monthly subscription is being provided to all to the qwiklabs account. | 25.9. 2021 to 27.10.2021 | Dr. P. Victor Paul through GDSC, IIITK |
| 18. | DPhi - Introduction to Data Visualization with Matplotlib Bootcamp | 18.02.2022 to 27.02.2022 | Dr Rubell Marion Lincy, Dr Divya Sindhu Lekha through ACM Student Chapter |
| 19. | Embedded System Hardware Design | 12.12.2022 to 15.12.2022 | Dr. Ragesh G K, Mr. Anuroop K B (Chief Innovation Officer) |
| 20. | 5G and IoT certification programme in association with DADB, Germany | 1.04.2023 to 15.05.2023 | Dr. Ragesh G K |
| 21. | AWS Training | 17.05.2023 to 01.06.2023 | Dr. Ragesh G K, Anuroop K B |
| 22. | One Week High – End (KARYASHALA) Workshop on Distributed Intelligence: Convergence of AI and distributed computing systems | 19.06.2023 to 25.06.2023 | Dr. Jayakrushna Sahoo |
| 23. | Manorama Horizon Certificate Program on Quantum Computing for Beginners | 26.06.2023 To 28.06.2023 | Dr. Asha Sebastian, Dr. Rubell Marion Lincy G. |
| 24. | 2 WEEK JOINT CERTIFICATION COURSE ON AI with specialization in Reinforcement Learning in association with MathWorks. | 03.07.2023 to 14.07.2023 | Dr. Rubell Marion Lincy G Dr. Suchithra M S |
| 25. | IoT Platforms -- Programming and Essentials | 07.09.2023 to 12.09.2023 | Dr. Shajulin Benedict, Dr. Goutham Mali, Dr. Vengadeswaran, Dr. Jayakrushna Sahoo, Dr. Victor Paul, Dr. Bibel Benifa, Dr. Guraviah K., Dr. Divya Sindhu Lekha |
| 26. | YOU'RE HIRED | 20.07.2023 | Dr. Josit Mariya |
| 27. | FDP & Workshop on "Nanodevices for Wearable Electronics" | 17.07.2023 to 21.07.2023 | Dr. S.Venkatesh, Dr. Della Thomas |
| 28. | DataNetWork-2023 workshop (for external candidates) | 24.7.2023 to 28.07.2023 | Dr Divya Sindhu lekha, Dr Dhanyamol, Dr Christina T, Dr. Rubell Marion Lincy G |
| 29. | One Week High – End (KARYASHALA) Workshop on SDN: Software Defined Networking Architectures and Applications | 17.07.2023 to 23.07.2023 | Dr. Koppala Guravaiah |

| SN | Training Program | Dates | Faculty Members Involved |
|-----|---|-----------|--------------------------|
| 30. | MSME Project Proposal Writing and Doubt Clearance Session | 26.7.2023 | Dr. Shajulin Benedict |
| 31. | | | |

Table 49: Training Programs Offered by IIIT Kottayam for Internal & External Students

XIII. Nurturing Innovation Culture through Innovation / Incubation Centers

Innovation Lab

IIIT Kottayam has recently started Innovation Center. Dr. Ragesh G K along with Innovation Manager Mr. Anuroop are managing all the activities of this center. This is the additional facility apart from two incubation centers (NITI Aayog's Atal Incubation and MSME Incubation center).





Innovation Lab





Innovation Lab





Innovation Lab





Innovation Lab



Innovation Lab



NITI Aayog's Atal Incubation Center



Atal Incubation Center (AIC – IIIT K) by NITI Aayog



Atal Incubation Center (AIC – IIIT K) by NITI Aayog:

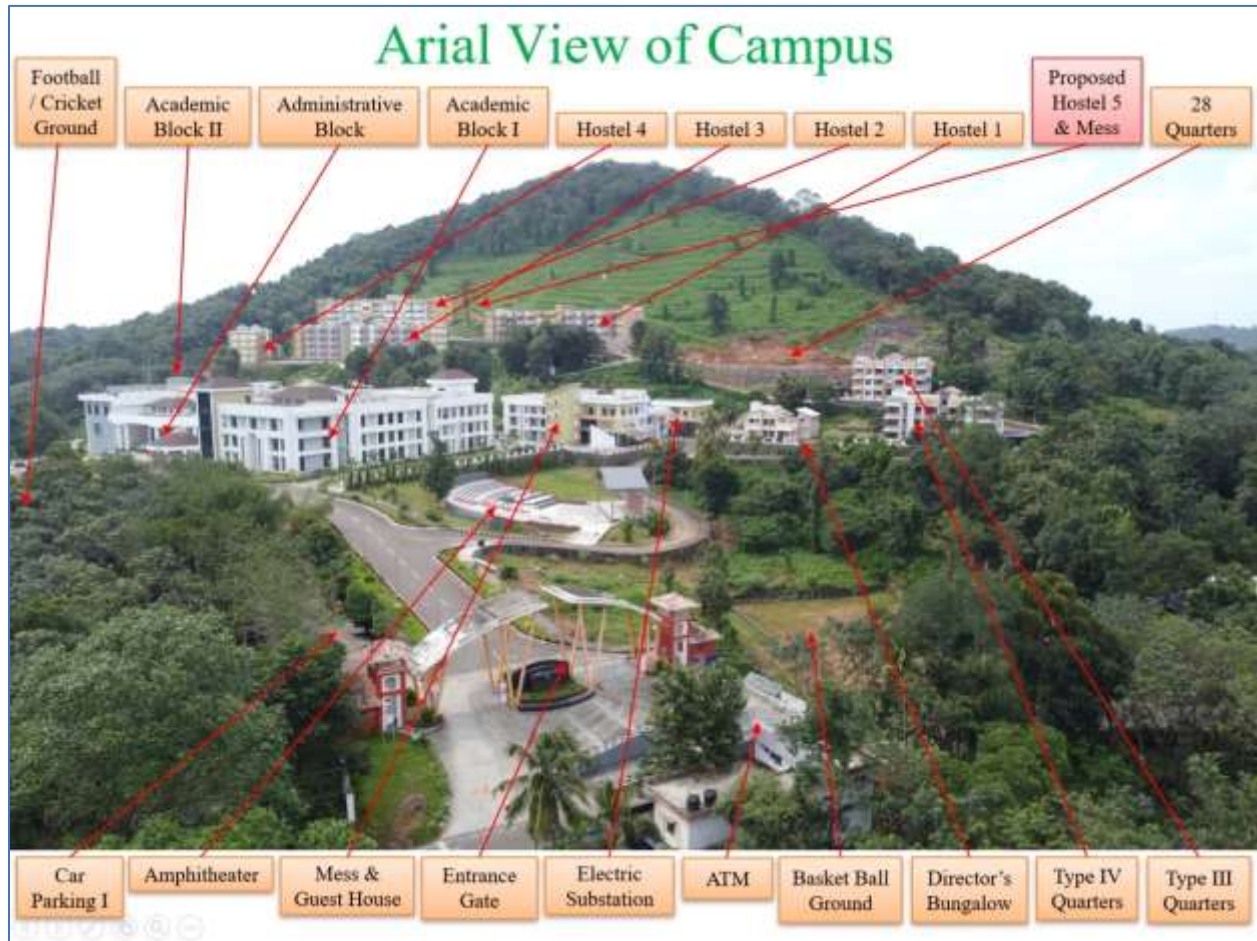


Atal Incubation Center (AIC – IIIT K) by NITI Aayog:

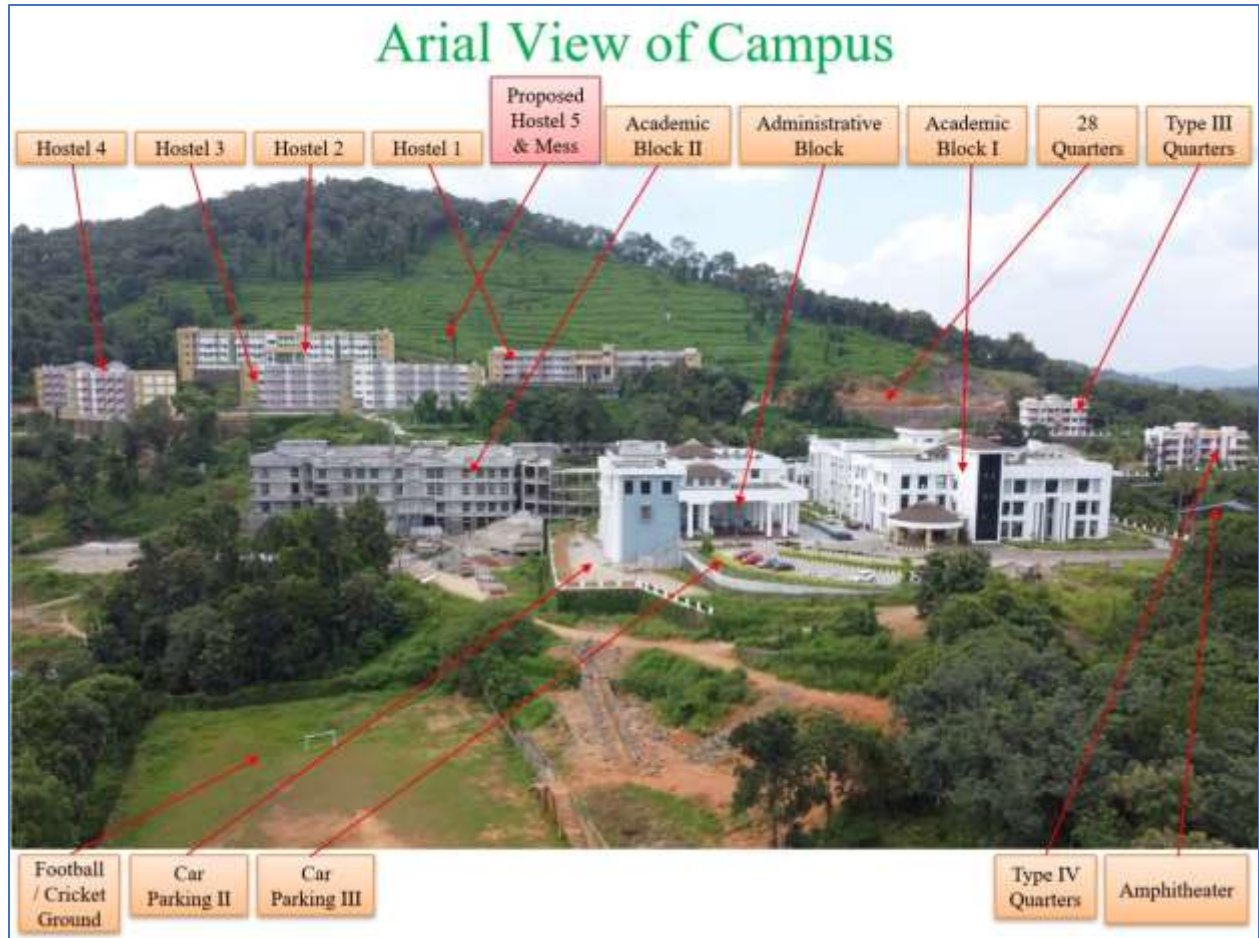


Atal Incubation Center (AIC – IIIT K) by NITI Aayog

XIV. Nurturing Innovation Culture through Provision of Excellent Learning Space for Innovators



Aerial View of IIIT Kottayam using Drone Camera (23 Sept 2022)



Arial View of IIIT Kottayam using Drone Camera (23 Sept 2022)



Arial View of IIIT Kottayam using Drone Camera (23 Sept 2022)



Arial View of entire IIIT Kottayam campus using Drone Camera (13 Nov 2022)



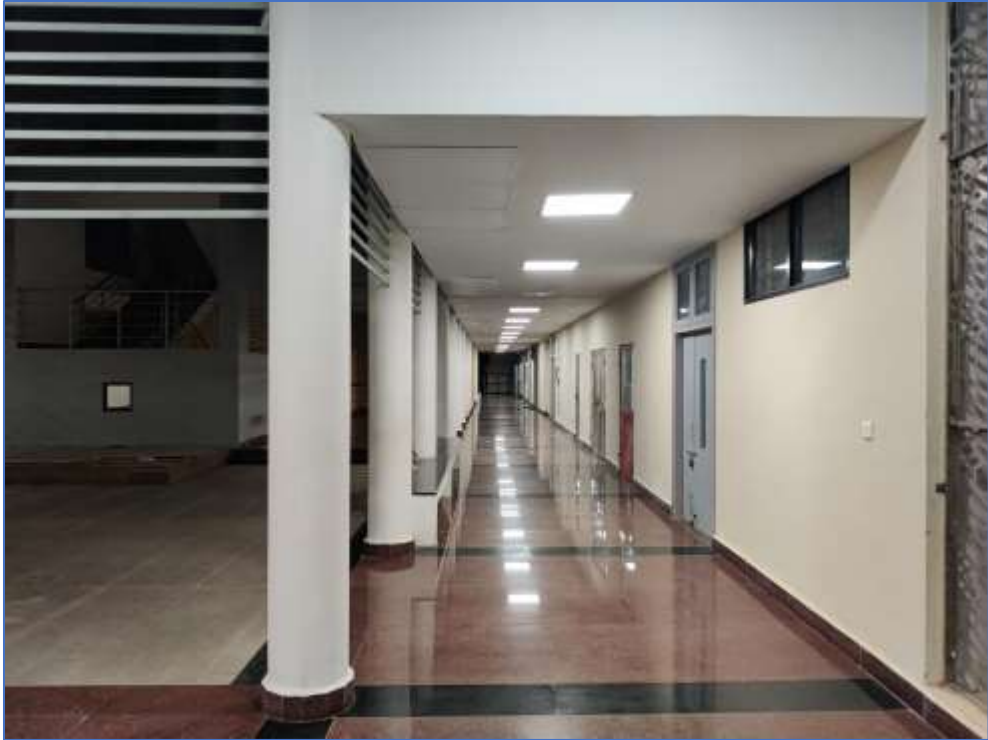
Arial View of entire IIIT Kottayam campus using Drone Camera (13 Nov 2022)



Arial View of entire IIIT Kottayam campus using Drone Camera (13 Nov 2022)



Academic Block 1



Academic Block 1





Academic Block 1



Academic Block 1



Academic Block 1



Administrative Block



Administrative Block and Academic Block 1



Administrative Block and Academic Block 1



Academic Block 1 – Side View in Rainy Season



Academic Block 1



Night View of Academic Block 1



Academic Block – Early Morning Fog



Kids Park













Entrance Gate



Arial View of IIIT Kottayam using Drone Camera (23 Sept 2022)



Campus Night View



Roads inside the campus - Early Morning View



Roads inside the campus





IIIT Kottayam name at entrance



Path way (Behind Hostel 3)



Path way (Beside Mess)



Path way (to Hostels)



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



Insight view of Quarters



Pleasant Weather: Academic Block, Canteen, Director Residence, Staff Quarter III and II



Pleasant Weather: Academic Block, Canteen, Director Residence, Staff Quarter III and II



Evening View – from pathway











Administrative Block



Administrative Block









Passage between Academic Block 1 and Administrative Block



Passage between Academic Block 1 and Administrative Block



Canteen



Canteen



Staff Club Cooperative Store





Administrative Block



Administrative Block



View of Administrative Block through Porch of Academic Block I



Front Side of Administrative Block



Administrative Block – Evening view



Open Cafeteria between Academic Block and Administrative Block



Fog: Open Cafeteria between Academic Block and Administrative Block



Fog: Administrative and Academic Block II



Open Cafeteria between Academic Block and Administrative Block



Auditorium during International Workshop on Innovation (16 Jan 2023)



Auditorium: With Former Mentor Director Prof. Ramakrishnan



Auditorium: During IEEE International Conference





View from Mess and Guest House



Computer Labs



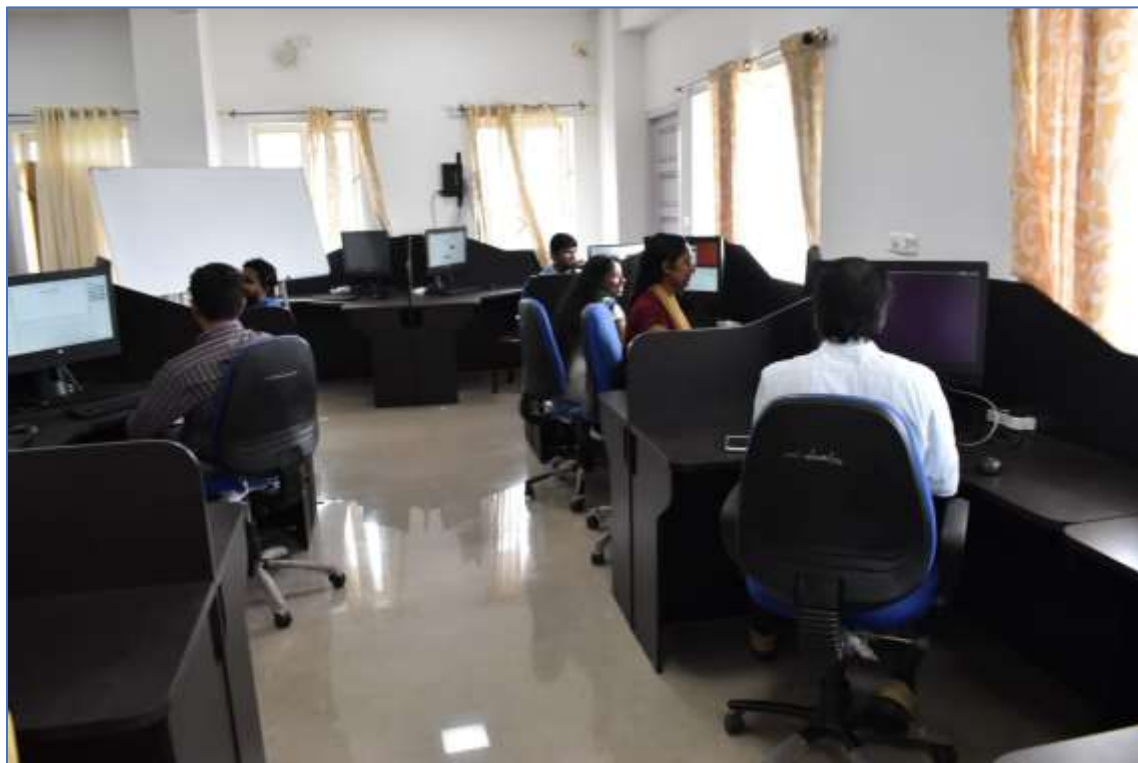
7 Multipurpose Halls - Classrooms cum BYOD Computer Labs - Academic Block II



Computer Labs



BYOD Lab





Lab for 95 Ph.D. scholars



Lab for 95 Ph.D. scholars



Lab for 95 Ph.D. scholars



Cyber Security Laboratories





Classrooms



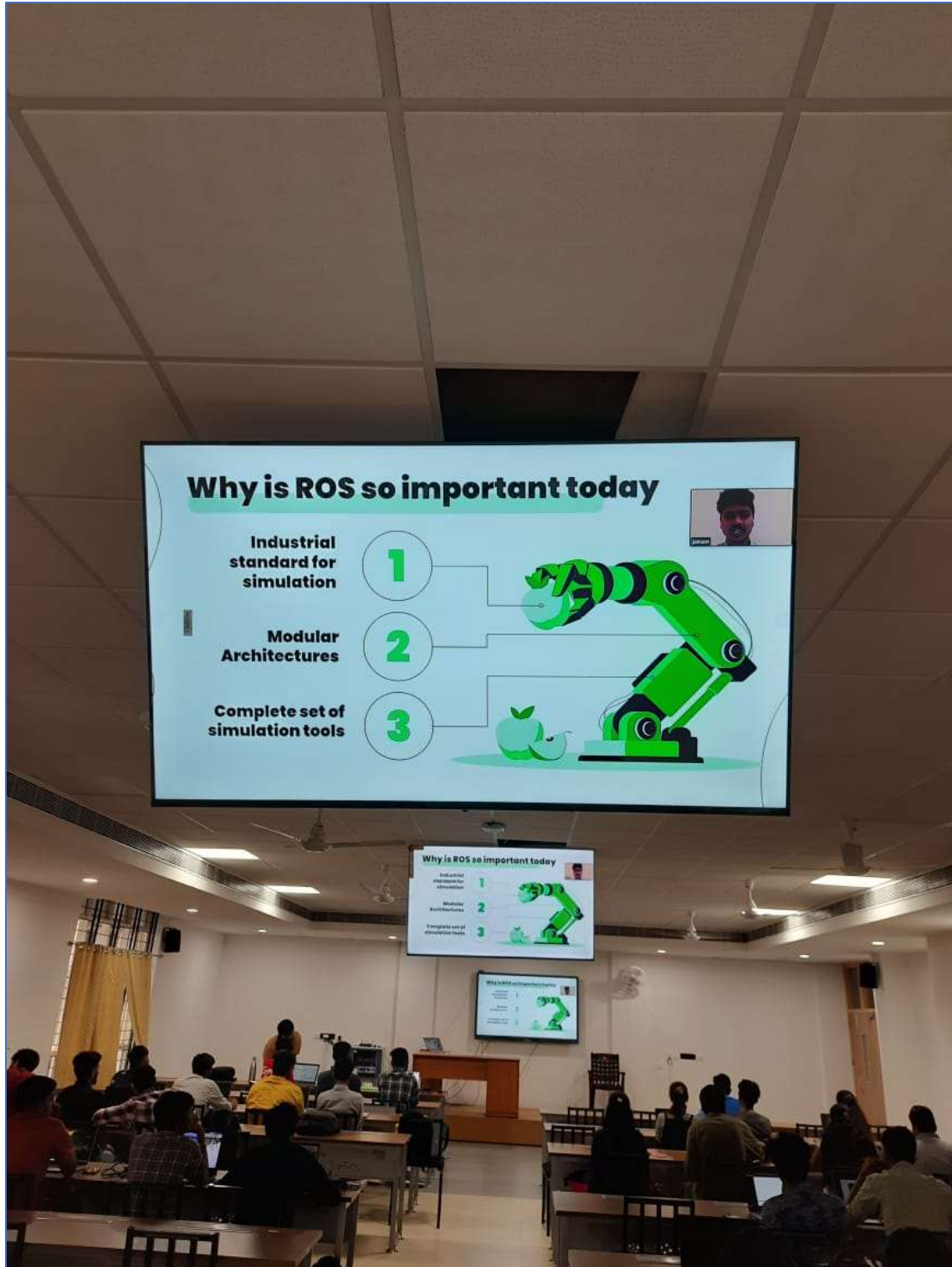
Classrooms



Classrooms



Classrooms



Multipurpose - Classroom



Class Rooms



Class Rooms to accommodate 450 students



Classrooms -Academic Block 1



Trivandrum Off-Campus Center for M.Tech. Working Professionals



All Classrooms are converted into Teaching Studios, equipped with Laptop, Digitizer, Tablets, Audio systems, Microphones, Large size TVs, Internet connectivity



Entrance and SBI ATM



Conference Room



Faculty Conference Room



Faculty - Conference Room



Director & Registrar - Conference Room



Director & Registrar - Conference Room



Board Room - Conference Room



Board Room - Conference Room



Dean Office & Conference Room



Lift – Administrative Block



Library – Academic Block II



Administrative Block 2: Small Water Pond



Administrative Office Premises – Director Office



Administrative Office Premises – Director Office



Administrative Office Premises – Entrance lobby



Administrative Office Premises - Waiting Hall



Administrative Office Premises – Waiting Hall



Administrative Office Premises



Administrative Office Premises





Area in front of Administrative Block



Area in front of Administrative Block



Front Side of Administrative Block



Amphitheater (Open Air Theatre)



Amphitheater (Open Air Theatre)



Amphitheater (Open Air Theatre)



Amphitheater (Open Air Theatre) during night



Amphitheater (Open Air Theatre)



Amphitheater (Open Air Theatre)





Amphitheater (Open Air Theatre)



Amphitheater (Open Air Theatre)



Canteen and Guest House – Fog in morning hours



Way to Canteen and Guest House – Fog in morning hours



Evening View of Guest House & Mess



Evening View of Guest House & Mess



Evening View of Guest House & Mess



Executive AC rooms – Guest House



Executive AC rooms – Guest House



Double Bedded Rooms - Guest House



Guest House – Open Space - Outside the rooms



Guest House – Open Space - Outside the rooms



Guest House - Dining Hall



Hostel 1



Hostel 1 (Entrance)



Hostel 2



Hostel 2



Arial View of Hostels of IIIT Kottayam using Drone Camera (23 Sept 2022)



All 4 Hostels



Hostel Number 4



Hostel Number 4



Hostel Number 3 (side view)



Hostel Number 3



Hostel Number 3 (back view)



Hostel 3 (Entrance)



Hostel 3 (Evening View)



Arial View of all 4 Hostels



Hostel 1



External Hostel – Block 1 & II – With Attached Bathrooms



Trivandrum Off-Campus Center for M.Tech. Working Professionals



Staff Quarters



Staff Quarters: Evening View



Staff Quarters: Early Morning



Staff Quarters: Early Morning Fog



Staff Quarters



Staff Quarters



Staff Quarters



Staff Quarters: Behind the Amphitheater (Open Air Theatre)



Indoor Gymnasium - Through Internal Revenue Generation (IRG)



Indoor Gymnasium - Through Internal Revenue Generation (IRG)



Open Gymnasium - Through Internal Revenue Generation (IRG)



Open Gymnasium - Through Internal Revenue Generation (IRG)



Open Gymnasium - Through Internal Revenue Generation (IRG)



Volleyball Ground near entrance (Under development)



Cricket Net Practice facility



Badminton Court (Not yet fully developed)



Football Ground / Cricket Ground (Extending soon)



Football Ground / Cricket Ground (Extending soon)



Football Ground / Cricket Ground (Extending soon)



Indoor Sports – Table Tennis



Internal Hostels – Extra Badminton Courts near to hostels



Academic Block 2



Academic Block 2



Academic Block 2



Entrance of Academic Block 2



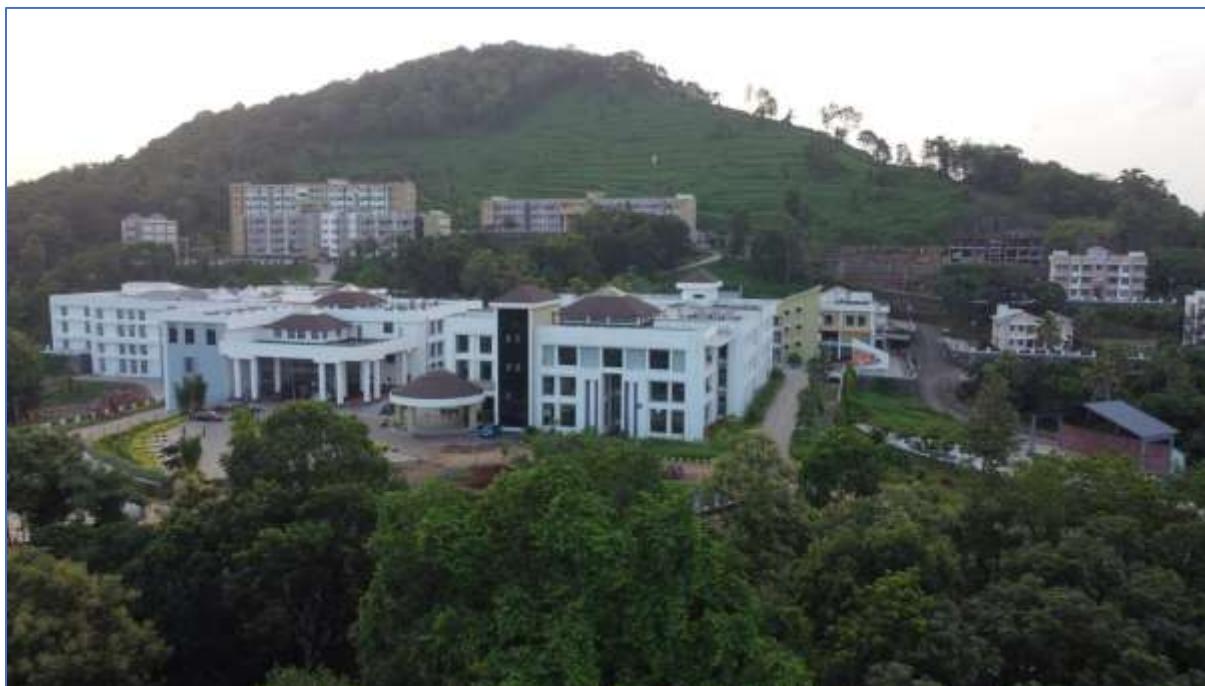
Entrance of Academic Block 2



Entrance of Academic Block 2 and Administrative Block



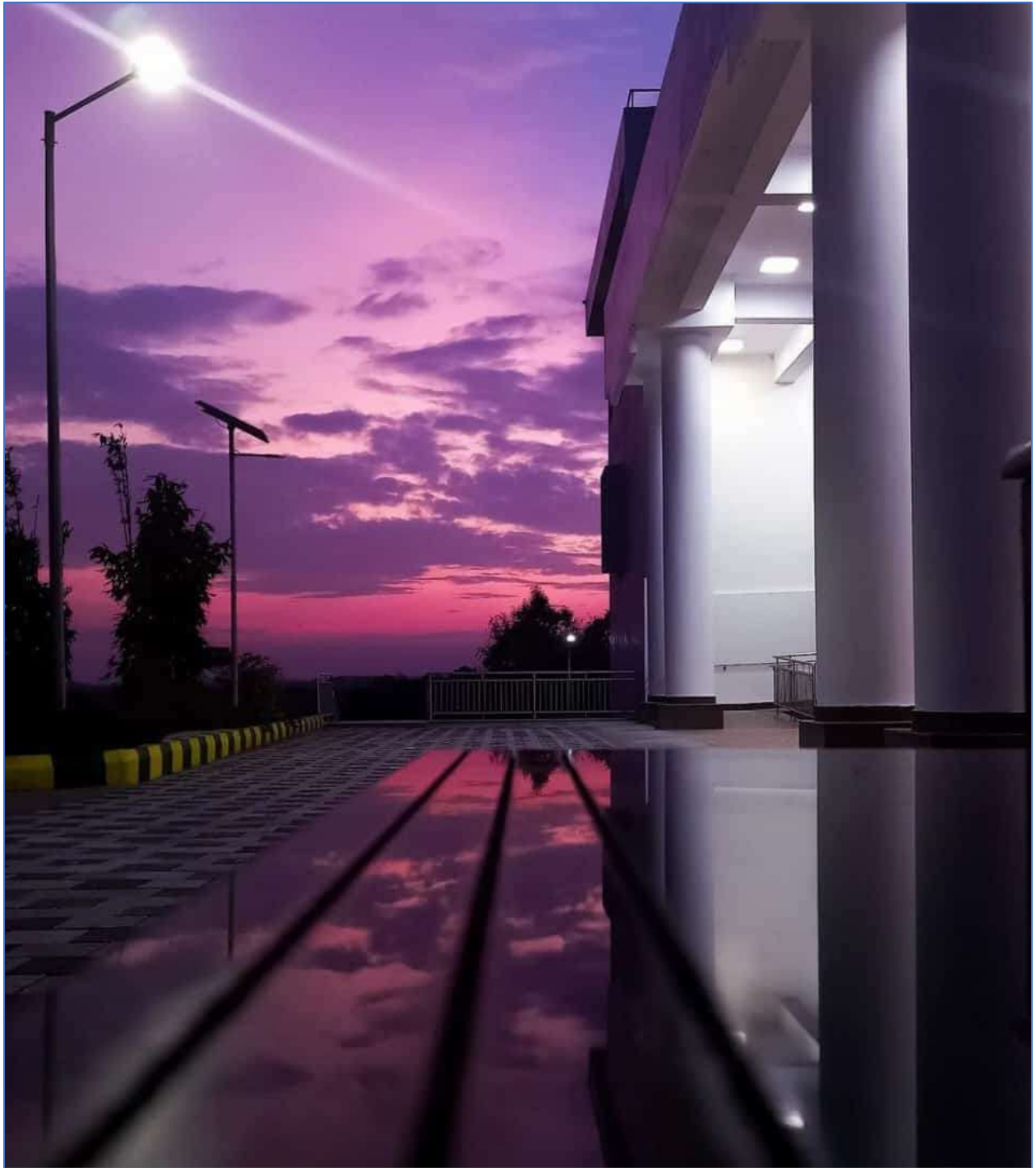
Entrance of Academic Block 2



Arial View



Entrance of Academic Block 1



Entrance – Early Morning view



Entrance of Academic Block 2 from Administrative Block



Entrance of Academic Block 2 from Administrative Block



Entrance of Academic Block 2 from Administrative Block



Academic Block 2 In side view of Ground Floor





Campus views from different angles



Campus views from different angles



Academic Block II – Diwali Celebrations



Academic Block II – Hospital



Academic Block II – Hospital



Academic Block II – Hospital



Faculty Quarters – Adjacent to Campus with common boundary wall on Rent



Faculty Quarters – Adjacent to Campus with common boundary wall on Rent



Faculty Quarters – Adjacent to Campus with common boundary wall on Rent



Single Storied Hostel for PhD scholars – Under construction - Through Internal Revenue Generation (IRG) (13 Dec 2023)



Single Storied Hostel for PhD scholars – Under construction - Through Internal Revenue Generation (IRG) (3 Jan 2023)



28 Staff Quarters Both the Buildings– Under Construction – Through Internal Revenue Generation (IRG) (on 03 Jan 2023)



28 Staff Quarters 1st Building – Under Construction – Through Internal Revenue Generation (IRG) (on 05 Feb 2024)



28 Staff Quarters 2nd Building – Under Construction – Through Internal Revenue Generation (IRG) (on 05 Feb 2024)



28 Staff Quarters Top View Both the Buildings– Under Construction – Through Internal Revenue Generation (IRG) (on 27 Feb 2024)



28 Staff Quarters Long Distance View Both the Buildings– Under Construction – Through Internal Revenue Generation (IRG) (on 02 Oct 2023)



New Cafeteria - Under Construction - Through Internal Revenue Generation (IRG) (29 Feb 2024)



New Cafeteria - Under Construction - Through Internal Revenue Generation (IRG) (05 Feb 2024)



New Cafeteria - Under Construction - Through Internal Revenue Generation (IRG) (06 March 2024)



6 Car and Bike Parking places



Car Parking places



Wheelchair Ramps for all the buildings for Physically Challenged (disabled) persons

Appendix: Details of Project Funding Proposals

1. List of 101 Sanctioned Research / Project Funding Proposals of Rs. 26.14 Crores

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Organization Involved |
|--|--|---|----------------|--|
| Dr. Shajulin Benedict (19) + Joint Projects (4) | | | | |
| 1. | ROLTA Foundation | Organized IoT-Cloud Analytics and Visualization -- HackICAV'18. The organizing partners are IIIT Kottayam, Rolta Foundation, and Incubation Centre. | 150000 | Dr. Shajulin Benedict IIIT Kottayam and Dr. Sohrab R. Bhot, ROLTA Foundation |
| 2. | Indo-Austrian project (OEAD-DST) Dr. Shajulin had visited Austria 3 times and worked at their research laboratory for more than 4 months. | Energy Aware Scientific Workflow Compiler for Future Heterogeneous Systems Rs. 8,82,740 | 882740 | Dr. Shajulin Benedict |
| 3. | BEL | Exploration of Blockchain Technology and development of Secure Transaction and Smart Contract solutions | 416400 | Dr. Shajulin Benedict |
| 4. | 3DDivella Technologies ltx | 3D printing based smart manufacturing | 250000 | Dr. Shajulin Benedict |
| 5. | Atal Incubation Centre (AIC) by NITI Aayog | 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. | 36000000 | Dr. Shajulin Benedict |
| 6. | MSME Business Incubation Centre | 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. | 11500000 | Dr. Shajulin Benedict |
| 7. | DSTNIMAT / TEDP | Technology-based Entrepreneurship Development Programme Sanctioned till date Rs. 6 Lakhs (Rs. 3 Lakhs per year) | 600000 | Dr. Shajulin Benedict |
| 8. | AICTE ATAL FDP | IoT Cloud-based Innovative Product development | 93000 | Dr. Shajulin Benedict |
| 9. | DST NIMAT | Training Program | 350000 | Dr. Shajulin Benedict |
| 10. | BEL, India | Industry Project | 1000000 | Dr. Shajulin Benedict |
| 11. | ACM/IEEE-CS/CSI sponsorship for organizing Symposium | IoT-Cloud Symposium | 50000 | Dr. Shajulin Benedict |
| 12. | AICTE ATAL FDP | Serverless IoT for Societal Products | 93000 | Dr. Shajulin Benedict |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Organization Involved |
|------------------------------|--|---|----------------|---|
| 13. | RRR Gig Jobs and Services Pvt. Ltd. | Social IoT and AI-assisted Gig Job Listing Portal | 875000 | Dr. Shajulin Benedict, Mr. Digo J. Sebastian and Mrs. Teresa Joy K. and students |
| 14. | DSIR-SIRO (Renewal) | Scientific Industrial Research Organization status (Tax exemption) | 675000 | Dr. Shajulin Benedict, Mr. Siju K.S. |
| 15. | Meluxina EURO HPC Supercomputer | Deep-learning assisted predictions 5000 CPU and 2000 GPU node-hours | | Dr. Shajulin Benedict |
| 16. | CV Raman International Grant | HPC solutions for Hosting | | Dr. Shajulin Benedict |
| 17. | Aster Medigroup Healthcare | AI and Cloud Systems Infrastructure worth Rs. 18 Lakhs | 1800000 | Dr. Shajulin Benedict via. Dr. Christina, Dr. Keshab, Dr. Ragesh, and AIC Team |
| 18. | UK-British Council Cardiff University, UK | Edge Computing and Analytics | 2009000 | IIT-Ropar, Dr. Shajulin Benedict, IIIT Kottayam |
| 19. | Startup India | Seed Fund | 20000000 | Dr. Shajulin Benedict via. (Mr. Digo J. Sebastian and Mrs. Teresa Joy K) |
| 20. | MSME | Integrated Medical Alert Communication System | 1500000 | Dr. Shajulin Benedict (via. AIC) |
| 21. | NSDC, MSDC, GoI | IoT-Cloud Training under PMKVY 4.0 | 2076900 | Dr. Shajulin Benedict |
| Dr. Ebin Deni Raj (6) | | | | |
| 22. | Microsoft- AI for Earth Grant, USA | Artificial Intelligence for Detection and Classification of Diseases in Rice and wheat | 1271288 | Dr. Ebin Deni Raj |
| 23. | Microsoft- AI for Earth Grant | Travel Grant for Conference at Microsoft Headquarter at USA | 200000 | Dr. Ebin Deni Raj |
| 24. | Volkswagen Germany, German Centre for Artificial Intelligence DFKI | Foundation AI FORA, Joint Collaborative Project of 5 nations (Germany, Estonia, USA, China, India) worth 1.5 million EURO | 25000000 | Dr. Ebin Deni Raj, Dr. Shajulin Benedict, Dr. Jayakrushna Sahoo & Dr. P. Victor Paul, Dr. M.P Rajan |
| 25. | Project from Germany – Dr. Petra, 50 K Euro | AI and Social Problems | 4200000 | Dr. Ebin Deni Raj |
| 26. | Orzico, USA | Autonomous Fruit Picker | 100000 | Dr. Ebin Deni Raj |
| 27. | Mozilla Foundation and USAID | Understanding Diversity implication from a sociology perspective to gain insights on Fairness Accountability and Transparency of algorithms | 5000000 | Dr. Ebin Deni Raj, Dr. Arun Cyril Jose |
| Dr. Kala S (4) | | | | |
| 28. | AICTE ATAL FDP | IoT enabled Systems for tomorrow's Digital World | 93000 | Dr. Kala S |
| 29. | AICTE ATAL FDP | Quantum Computing | 93000 | Dr. Kala S |
| 30. | Industry Collaborative Project | Development of On-Board Diagnostic System for Connected Cars / Two Wheelers | 500000 | Dr. Kala S |
| 31. | IGSTC-DST | Hardware accelerators for deep learning | 3900000 | Dr. Kala S |
| Dr. Panchami. V (3) | | | | |
| 32. | AICTE ATAL FDP | Cyber Security and Digital Forensics | 93000 | Dr. Panchami. V |
| 33. | AICTE ATAL FDP | Big Data Security and Analytics | 93000 | Dr. Panchami. V |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Organization Involved |
|--|---|---|----------------|--|
| 34. | IonQ Research Credits Program, USA | Post-Quantum Public Key Infrastructure | 593142 | Dr. Panchami. V |
| 35. | Cymbient Technologies Pvt Ltd, Gurgaon, Haryana, India. | A Quantum-safe Multi-Party Threshold Signature Scheme for Blockchain | 944000 | Dr. Panchami. V |
| Dr. Bini A. A. (1) | | | | |
| 36. | AICTE ATAL FDP | Training proposal | 93000 | Dr. Bini A. A. |
| 37. | SERB MATRICS scheme | "Fractional Order non-local Variational Regularization Models and their Applications in Image Processing" | 660000 | Dr. Bini A. A. |
| Dr. P. Victor Paul (1) + Joint Projects (1) | | | | |
| 38. | AICTE ATAL FDP | Sensor Data Analytics | 93000 | Dr. Victor Paul |
| 39. | MSME | AutoHire - An AI-Based Automated Technical Interview Solution | 1500000 | Dr. Victor Paul |
| 40. | SERB - CRG | Artificial Intelligence based Mobility Model for Alternative Fuel Vehicles (AFV) to optimize the route and Mitigate Carbon Emission using the prevailing AFV Fuel Infrastructure in India | 2402960 | Dr. Victor Paul |
| Dr. J. V. Bibal Benifa | | | | |
| 41. | AICTE ATAL FDP | Data Science | 93000 | Dr. J. V. Bibal Benifa |
| Dr. Ragesh G K | | | | |
| 42. | UK -British Council University of Glasgow | IOT for Intelligent Systems | 1500000 | Dr. Ragesh GK |
| 43. | UKI- FNI Project (UK -INDIA Future Network Initiative) | Energy Efficiency Evaluation Framework for OPEN- RAN (E3FORAN). | 3900000 | Dr. Ragesh G K International Collaborators (from University of Glasgow, UK) 1. Dr. Kayode 2. Dr. Yusuf 3. Prof. Lei Zhang 4. Dr. Muhammad Imran |
| 44. | IIT Indore CPS Foundation- Lab to Market Scheme | Design and Development of Electronic Nose for Aroma Analysis in Ayurveda | 1000000 | Dr. Ragesh G K |
| 45. | Indo-German Science and Technology Centre (IGSTC), Govt. of India | "Isolation enhancement of CPW-fed MIMO array using Substrate Integrated Waveguide (SIW) technique for 5G and Beyond" | 900000 | Dr. Ragesh G K (PI) Dr. Ansal K A , postdoc scholar (Co-PI) Collaborator: Dr. Marlene Harter University of Offenberg, Germany |
| 46. | IIT Kanpur, C3iHub | A Multi-Layer Approach for Secure UAV Networks | 3935000 | Dr. Ragesh G K |
| 47. | UKIERI-MeitY | UAV-enabled ultra-reliable low-latency communication for energy efficiency and latency reduction in 6G networks | 6000000 | 1. Dr. Ragesh G K 2. Dr. Ebin Deni Raj |
| Dr. Bakkyaraj T | | | | |
| 48. | DST-SERB Power Grant | On the central Idempotents of algebras arising from Schur- Weyl | 2105472 | Dr. Geetha T – PI Dr. Bakkyaraj T- Co-PI |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Organization Involved |
|--|---|--|---------------------------|---|
| | | Duality and the invariant theory of certain groups | | Dr. Shripad Garge- Co-PI |
| Dr. Suchithra M S | | | | |
| 49. | E&ICT Academy, NIT Warangal | FDP | 110000 | Dr. Suchithra M S |
| Dr. Ananth A. | | | | |
| 50. | SERB Karyasala | Event Title "Methods for Creating a Quality Research Article: Software and Writing Perspective" | 500000 | Dr. Ananth A. |
| Dr. Suresh Chavhan | | | | |
| 51. | Indo-Russian DST Project | Multiscale Modeling of deformation behaviour of Carbon Fiber Reinforced high-end Thermoplastics | 13100000 | Dr. Suresh Chavhan IIIT Kottayam, Dr. Deepak Gupta and Ashish Khanna, MAIT, Delhi, and a team from National University of Science and Technology, Russia |
| 52. | Universidad Antonio Nariño, Columbia | Implementation of an intelligent transportation system (ITS) for the prediction of traffic accident risk in Bogota, Colombia | 9500000 | Dr. Suresh Chavhan IIIT Kottayam, Dr. Deepak Gupta MAIT, Delhi and Dr. Juan Camilo Ramírez, Universidad Antonio Nariño, Columbia |
| Dr. Koppala Guravaiah | | | | |
| 53. | Komhar Services, North Carolina, USA | ETL Tools & SQL Automation from on-prem technologies to Cloud | 520000 | Dr. Koppala Guravaiah |
| 54. | SERB Karyasala | Event Title “SDN: Software Defined Networking Architectures and Applications” | 500000 | Dr. Koppala Guravaiah |
| Dr. Jayakrushna Sahoo | | | | |
| 55. | SERB Karyasala | Event Title “Distributed Intelligence: Convergence of AI and distributed computing systems” | 500000 | Dr. Jayakrushna Sahoo |
| Dr. John Paul Martin | | | | |
| 56. | DST SERB | Building Intelligent Systems: Fog Computing, AI/ML, and Digital Twin | 150000 | Dr. John Paul Martin |
| Scholarships for Ph.D. scholars | | | | |
| 57. | 44 scholarships from various funding agencies | | 90000000 | Please refer scholarship Table |
| Total | | | 26.14 Crores 261463902 | |

Table 50: Sanctioned Funded Projects

2. List of Research / Project Funding Proposals Under Various Stages of Evaluation & Considerations: 206 Projects of Rs. 347.21 Crores

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|---|---|--|----------------|---|
| Dr. Jayakrishna Sahoo (6) + Joint Projects (6) | | | | |
| 1. | SERB; Start Up Grant (SRG) Scheme | Discovering Interesting High Utility Item-sets | 1424000 | Dr. Sahoo |
| 2. | DST - TIDE | Data analytics for remote monitoring and healthcare of the elderly population | 5227000 | PI: Dr. Anoop Jacob Thomas Co-PI (s): Dr. Arun Cyril Jose, Dr. Jayakrushna Sahoo |
| 3. | AICTE ATAL Program FDP | Predictive Data Analytics | 200000 | Dr. Jayakrishna Sahoo |
| 4. | SERB, Submitted Under “Start-up Research Grant” Scheme | Machine Learning-based method to discover association rules with utility constraint | 1700000 | Dr. Jayakrushna Sahoo |
| 5. | DST – SERB/SGR (Early Career Award) | Automation of Stress Recognition and monitoring in Campus Students based on Electro dermal Activity | 2059500 | Dr. Jayakrishna Sahoo |
| 6. | DST- Technology Development Transfer, Science and Heritage Research Initiative (SHRI) | Edge architecture based intelligent aggregation pipeline for crowdsourcing in cultural heritage | 3180000 | PI: Dr. Jayakrishna Sahoo Co-PI: Dr. Ebin Deni Raj and |
| Dr. Panchami (14) + Joint Projects (3) | | | | |
| 7. | NSTEDB, DST | "New Generation IEDC incubation Centre" | 25000000 | Dr. Panchami |
| 8. | Integrated Technology Interventions for Sustainable Environment (ITISE), June 2020 | "A Safe, Self-Sustainable and Low-cost Device for monitoring and Preventing the Intrusion of Wild Animals and Insects/Pets into Agricultural Fields." | 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 of Harmful/ Poisonous Gasses. | 4600000 | Dr. Panchami |
| 10. | Atal New India Challenge an initiated by Govt of India, Nov 2018 | iFollow: A Mobile Application to reduce accidents and fatalities and to ensure road safety | 6284000 | Dr. Panchami |
| 11. | DST, December 2018 | A Novel Lightweight Encryption Algorithm for IoT devices | 1800000 | Dr. Panchami |
| 12. | KSCSTE, February 2019 | Asset Management and Verification using Blockchain Technology | 2500000 | Dr. Panchami |
| 13. | 4 th BRICS Young Scientist Conclave Campinas, Brazil | | 100000 | Dr. Panchami |
| 14. | SERB-National Post-Doctoral Fellowship | A Low-Latency, End to End Secure Medical Cyber-Physical System for | 1620000 | Dr. Panchami Guide Prof. Rajiv Dharaskar |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|---|--|--|----------------|---|
| | | Monitoring and Analysing the Physiological Data of Patients having Contagious Diseases | | |
| 15. | NIDHI4COVID2.0, National Science & Technology Entrepreneurship Development Board (NSTEDB), DST | CoviCare: A Secure End to End Medical Cyber Physical System for Monitoring, Analyzing and Alerting the physiological data of Corona Patients to Get Immediate medical Care and Treatment | 1000000 | Dr. Panchami |
| 16. | CSRI Post-Doctoral Fellowship | An Efficient Cyber-Physical System to analyses Electroencephalogram signals which Predicts and Detect Drowsiness in Divers using Artificial Intelligence | 1980000 | Dr. Panchami Guide Prof. Rajiv Dharaskar |
| 17. | IonQ Research Credits Program | Multiclass Prediction On Standard/ Large Dataset Using Variational Quantum Algorithms And Quantum SVMs | 402948 | Dr. Panchami. V |
| 18. | IonQ Research Credits Program | Post-Quantum Public key Infrastructure | 582787 | Dr. Panchami. V |
| 19. | Ministry of Electronics & Information Technology (MeitY) | A Resilient and Hybrid Quantum-Safe Non-Interactive Cryptographic Key Exchange Scheme in Delay Tolerant Networks for Satellite Communications | 8964000 | Dr. Panchami. V |
| 20. | SERB Power | An Efficient, Side-Channel Resistant, Reconfigurable Hardware Accelerator for Quantum-safe Digital Signature Scheme in Delay Tolerant Networks | 4814450 | Dr. Panchami V Co-PI: Dr. Manjith B.C |
| 21. | MeitY Quantum Computing Application Lab | "Study on impact of Quantum Algorithms on Classical Lightweight Cryptosystems for Internet of Things." | 1200000 | Dr. Panchami V Ms. Mahima Mary Mathews (Co-PI) |
| Dr. J. V. Bibal Benifa (11) + Joint Projects (1) | | | | |
| 22. | DST- SUPRA | Automated Weed Removal from Farmlands Using Unmanned Aerial Vehicle | 4449500 | Dr. J. V. Bibal Benifa |
| 23. | DRDO - NAVAL | Underwater Object Tracking and Classification using AUV with Deep Learning Approach | 7987000 | Dr. J. V. Bibal Benifa |
| 24. | ISRO | Tropical Cyclone Detection using Machine Learning Techniques | 1400000 | Dr. J. V. Bibal Benifa |
| 25. | Department of Biotechnology, Government of India | Coral and Fish Species Classification using Deep Learning Approach | 1600000 | Dr. Bibal and PhD scholar Ms. Delsey |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|----------------------------|---|--|----------------|--|
| 26. | SERB | Development of analytical models for mining knowledge from text data | 1400000 | Dr. J. V. Bibal Benifa |
| 27. | SERB | Smart IOT-enabled drones for precision agriculture | 3000000 | Dr. J. V. Bibal Benifa |
| 28. | SERB | Forecasting Tropical Cyclones and its intensity estimation using Deep Learning Techniques | 4500000 | Dr. J. V. Bibal Benifa |
| 29. | SERB | Development of Biomedical Device and analytic models for the stage prediction of Chronic Liver Ailments | 2560000 | Dr. J. V. Bibal Benifa Dr. Dhanyamol MV |
| 30. | ICMR | Development of Novel Analytic Model for The Effective Prediction of Stages of Chronic Kidney Disease and Dietary Recommendation | 3836000 | Dr. J. V. Bibal Benifa |
| 31. | SERB-CRG | Recognizing objects from underwater videos using lightweight deep learning methods | 3000000 | Dr. J. V. Bibal Benifa |
| 32. | SERB | Development of analytic models for prediction of Air Quality Index and health hazards in Indian Cities. | 3449500 | Dr. J. V. Bibal Benifa |
| 33. | Kerala State Council for Science - Technology and Environment | Real-Time Disease Identification in Coconut Trees through drones using Tiny Machine Learning models | 2000000 | Dr. Bibal Benifa and Dr. J. Sahoo |
| 34. | SERB | Development of RoboBees for artificial pollination in plants | 4000000 | Dr. Bibal Benifa |
| 35. | SERB | Density Based Regularization model for Effective Forecasting of Stage Transition in Chronic Kidney Disease | 600000 | Dr. Bibal Benifa |
| Dr. Victor Paul (3) | | | | |
| 36. | MeitY | Development of an Intelligent Mobility Model to mitigate CO2 emission for alternative fuel vehicle in India | 3620000 | Dr. Victor Paul |
| 37. | R&D in IT Group, MeitY | Development of an Artificial Intelligence based Embeddable Application Module to Estimate and Mitigate Carbon Emission by Alternative Fuel Vehicles in India | 3620000 | Dr. Victor Paul |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|--|---|---|----------------|---|
| 38. | SERB under Special Call for Proposal scheme | Smart Pulse Diagnostic Kit using the Ayurveda Principles and Artificial Intelligence Techniques | 2566640 | Dr. Victor Paul |
| Dr. Ebin Deni Raj (27) + Joint Projects (5) | | | | |
| 39. | MeitY | Research lab for AI & Data Science at IIIT-K | 60000000 | Dr. Ebin, Dr. Sahoo, Dr. Bibal, Dr. N. K. Narayana |
| 40. | FIST scheme | Project Proposal On "FIST-project (Level-1)" | 31100000 | Dr. Ebin |
| 41. | DST-NRDMS | An IOT based monitoring and prediction framework for precision agriculture | 5074000 | Dr. Ebin |
| 42. | DST-NIMAT | Entrepreneurship in Data Science-Faculty Development Programme (FDP) | 250000 | Dr. Ebin |
| 43. | SERB IMPRINT -II | Automatic Toll and Smart Real-Time Transportation Analytic System for Modern India | 14446300 | Dr. Ebin |
| 44. | National Geographic Foundation, USA | A computer vision-based Fruit picker | 20000000 | Dr. Ebin |
| 45. | Leonardo Dicaprio Foundation, USA | Rice leaf disease detection and prediction | 6000000 | Dr. Ebin |
| 46. | Bill and Melinda Gates Foundation, USA | Neglected Tropical Diseases Data Innovation Incubator | 20000000 | Dr. Ebin |
| 47. | SERB- Core Research grant | An AI based robotic system for detection and classification of diseases in rice and wheat crops | 3010000 | Dr. Ebin |
| 48. | Leonardo Dicaprio Foundation, Los Angeles, California USA | The AI based detection of root wilt, Tanjore wilt, leaf rot, stem bleeding in coconut trees | 6900000 | Dr. Ebin |
| 49. | DST | BRICS (India, Russia and Brazil) collaborative Project (Total 1.5 Crores) | 5000000 | Dr. Ebin |
| 50. | DST-SERB MATRICS Scheme | A mathematical model for citation network analysis of Indian origin academicians | 700000 | Dr. Ebin |
| 51. | TBI, DST | Prepared proposal for "Technical Business Incubation TBC" | 50000000 | Dr. Ebin |
| 52. | 4th BRICS Young Scientist Conclave Campinas, Brazil | | 100000 | Dr. Ebin Deni Raj |
| 53. | DST | NM-ICPS, Rs. 120 Crore | 400000000 | Dr. Ebin, Joint project with IIIT Sri City, IIIT Kurnool, IIIT Kancheepuram |
| 54. | AICTE ATAL Program FDP | Data Science and Machine Learning | 200000 | Dr. Ebin Deni Raj |
| 55. | NIDHI i-TBI | Incubation Center | 50000000 | Dr. Ebin Deni Raj and Dr. Divya Sindhu Lekha |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|-----|--|--|----------------|---|
| 56. | CSRI-Post-Doctoral Fellowship (PDF) | Effective Strategies for Information Spreading In Online Social Networks | 1980000 | Dr. Ebin Deni Raj Guide Prof. Rajiv Dharaskar |
| 57. | CSRI Project | Analysis of Cognitive methods for Effective Object Detection under adverse environments | 5295000 | Dr. Ebin Deni Raj and Dr. Jayakrishna Sahoo |
| 58. | SERB | Explainability in Deep Learning model architectures for Responsible AI | 150000 | Dr. Ebin Deni Raj |
| 59. | SERB-National Post-Doctoral Fellowship | A novel smart contract-based framework with tracker tool to address the unethical practices and to maintain integrity in academic research | 1620000 | Dr. Sharon Moses J Guide Dr. Ebin Deni Raj |
| 60. | ICMR | Explainable Artificial Intelligence in Detecting Abnormal Optic Nerve Head Cup Disc Ratio from Retinal Fundus Images | 2956740 | Dr Ebin Deni Raj Dr. Jaykrushna Sahoo Ms. Jeena Thomas |
| 61. | Microsoft Academic Partnership Grant 2022 USA | Natural Disaster Relief Management ensuring fairness and accountability in Artificial Intelligence Framework | 2000000 | Ms. Ashly Ann Jo Dr Ebin Deni Raj Dr Jaykrushna Sahoo Dr Lincy |
| 62. | NVIDIA Applied Research Accelerator Program 2021 | SPORTSHEAL: Quick Tendonitis Recovery | 250000 | Ms. Ashly Ann Jo Dr Ebin Deni Raj |
| 63. | Google India PhD Fellowship Program 2022 | IGAN: Interpretable AI for Fraud Detection | 4000000 | Ms. Ashly Ann Jo Dr Ebin Deni Raj |
| 64. | MSME Idea Hackathon 2022 | SPORTSHEAL: A Novel technique for Quick Tendonitis Recovery with interpretability feature. | 1500000 | Ms. Ashly Ann Jo Dr Ebin Deni Raj |
| 65. | MSME Idea Hackathon 2022 | PHOENIXTRACK – Surveillance System | 1500000 | Ms. Remya Raveendran Dr Ebin Deni Raj |
| 66. | Meity | RobustFairAI: A Framework for Responsible Multimodal Large Language Models | 10000000 | Dr Ebin Deni Raj Dr Ragesh G. K |
| 67. | HEFA CSR | Responsible AI Driven Smart Agriculture Solutions for Kottayam District, Kerala | 9600000 | Dr Ebin Deni Raj Dr Ragesh G. K |
| 68. | Spencer Foundation | Finding the biases in Indian Education system. | 10000000 | Dr Ebin Deni Raj |
| 69. | UNESCO | Generative AI in education and research | 100000 | Dr Ebin Deni Raj |
| 70. | European Commission | Cross-sectoral collaborations on artificial intelligence systems transnationally. | 20000000 | Dr Ebin Deni Raj |
| 71. | Templeton Foundation | Climate change and Artificial Intelligence: From a Responsible Computing Perspective | 25000000 | Dr Ebin Deni Raj |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|---|---|--|----------------|--|
| 72. | Meity | RobustFairAI: A Framework for Responsible Multimodal Large Language Models | 10000000 | Dr Ebin Deni Raj Dr Ragesh G. K |
| 73. | HEFA CSR | Responsible AI Driven Smart Agriculture Solutions for Kottayam District, Kerala | 9600000 | Dr Ebin Deni Raj Dr Ragesh G. K |
| 74. | Spencer Foundation | Finding the biases in Indian Education system. | 10000000 | Dr Ebin Deni Raj |
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| 76. | European Commission | Cross-sectoral collaborations on artificial intelligence systems transnationally. | 20000000 | Dr Ebin Deni Raj |
| 77. | Templeton Foundation | Climate change and Artificial Intelligence: From a Responsible Computing Perspective | 25000000 | Dr Ebin Deni Raj |
| Dr. Manjith (4) | | | | |
| 78. | DST | Training Program on Entrepreneurship | 100000 | Dr. Manjith, Dr. Ebin |
| 79. | DST | India Serbia Collaborative project | 2400000 | Dr. Manjith Joint project with IIIT Trichy, NIT Trichy, Indira Gandhi Delhi Technical University for Women (IGDTUW) |
| 80. | DST, India Japan Collaborative project | India Japan Collaborative project, Joint Workshops / Seminars, DST & 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) |
| 81. | DST SERB POWER scheme | A cyber physical system for maintaining the vegetation on urban areas | 4460000 | Dr. Manjith B.C., Dr. Panchami V., Dr. Divya Sindhu Lekha |
| 82. | CSIR - ASPIRE | Automating Intellectual Property Protection: Emulating Logic Locking for IP Security using ML | 2901139 | Dr. Manjith B.C., Dr. Panchami V. |
| Dr. Kala (5) + Joint Project (1) | | | | |
| 83. | DST | India Portugal research grant | 7000000 | Dr. Kala |
| 84. | Xilinx Inc USA | 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 | 3700000 | Dr. Kala |
| 85. | ASEAN-India Collaborative R&D, AISTDF | With Universiti Sains Islam Malaysia (USIM), University Teknologi Brunei , Intelligent "Wearable Devices for Maternal Health care" | 2900000 | Dr. Kala |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|--|--|---|----------------|--|
| 86. | SERB Accelerate Vigyan | Deep Learning Architectures | 200000 | Dr. Kala |
| 87. | SERB Power | A framework for deep neural network accelerator | 2443440 | Dr. Kala |
| 88. | Indo-German (Bilateral) project proposal | RISC Processors | 3500000 | Dr. Kala |
| 89. | SERB | Hardware Accelerators for Deep Learning Algorithms: A framework for Secure Scalable and Configurable Neural Network Co-processor for AI Applications on RISK-V core | 2500000 | Dr. Kala S (PI), Dr. Nalesh S (Co-PI), CUSAT, Kerala |
| 90. | MeitY | Development of ITS on Hardware | 33000000 | Dr. Kala S (PI), Dr. Jayakrushna Sahoo (Co-PI), Team members: Dr. Divya S Lekha, Dr. Minu A Pillai |
| Dr. Divya Sindhu Lekha (7) + Joint Projects (3) | | | | |
| 91. | DST | Workshop submitted to DST-SERB under Abhyaas Karyashala | 500000 | Dr. Divya Sindhu Lekha |
| 92. | DST - India-Italy Significant Bilateral Project Scheme | Realistic measures of robustness for real-world networks | 3170500 | Dr Divya Sindhu Lekha (PI) Dr. Dhanyamol MV (Co-PI) |
| 93. | KSCSTE | Kerala State Young Scientist Award | 50000 | Dr Divya Sindhu Lekha |
| 94. | SERB-National Post-Doctoral Fellowship | Association Rule Mining and Sequential Pattern Mining in a Nutshell: A Novel Sequence Graph-based Approach for Market Basket Data Analysis | 1620000 | Dr Soumya George Guide Dr Divya Sindhu Lekha |
| 95. | Google Research Scholar Program | | 4500000 | Dr Divya Sindhu Lekha |
| 96. | ISRO Research Grants | Development of Multi-Satellite Assimilation System to improve the short-range rainfall forecasts using machine learning techniques and numerical models. | 5388040 | Dr Divya Sindhu Lekha and Dr Christina |
| 97. | SERB; Power Grant Scheme | Multilayer network embedding for recommender systems | 5921000 | PI: Dr. Divya Sindhu Lekha Co- PI: Dr Keshab Nath |
| 98. | Program of the Human Frontier Science Program (HFSP International Funding) | Effect of weight thresholding on the robustness of biological networks | | PI: Dr Divya Sindhu Lekha Co-PI: Dr Michele Bellingeri, Department of Physics, Politecnico di Milano, Italy |
| 99. | DST-SERB under the MATRICS scheme. | Fingerprinting and Communicability of Functional Brain Networks - A Graph Theoretic Analysis | 600000 | Dr. Divya Sindhu Lekha |
| Dr. Bini A.A. (4) + Joint Projects (1) | | | | |
| 100. | SERB-DST | A study on phase retrieval from the magnitude data | 600000 | Dr. Bini A.A. |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|--------------------------|--|--|----------------|--|
| | | using regularization approaches for reconstruction of the data. | | |
| 101. | Ministry of Earth Sciences | Satellite image enhancement for efficient Land Use and Cover Classification | 1826264 | Dr. Bini A. A. |
| 102. | FA: DST/SERB | An automated system for detection and diagnosis of organ related and systemic diseases from eyes using fundus and OCT images | 2035264 | Dr. Bini A. A. |
| 103. | SERB | Multi Resolution Analysis and Restoration of Images Using Discrete Orthogonal Stockwell Transform: With Applications to Medical and Satellite Image Data | 1571900 | Dr. Bini A.A |
| 104. | MeitY | Development of ... Network | 40664000 | Joint Project |
| Dr. Shajulin (16) | | | | |
| 105. | Indo-USA | AquaHPA Framework | 22200032 | Dr. Shajulin |
| 106. | NITI Aayog | Smart Home security (ANIC challenge): Shortlisted for presentation | 10000000 | Dr. Shajulin and Dr. Arun |
| 107. | IMPRINT 2018 | Smart intelligent real time Transportation Analytic System for modern Digital India | 19000000 | Dr. Shajulin |
| 108. | DST | Energy Aware IoT Cloud Societal applications | 2046000 | Dr. Shajulin |
| 109. | DRDO | Private Blockchain for secure and agile Messaging in Military operations | 3565000 | Dr. Shajulin |
| 110. | NDMA | IEEE Conference Funding | 400000 | Dr. Shajulin |
| 111. | Toyota Foundation Japan | Blockchain Application for Mobility | 6900000 | Dr. Shajulin |
| 112. | SERB-National Post-Doctoral Fellowship | Digital twin technologies for the preservation of cultural heritage artifacts | 1620000 | Rajkumar G Guide Dr. Shajulin |
| 113. | SIDBI - Swavalamban Challenge Fund | Women Entrepreneurial Seed Fund | 3500000 | Dr. Shajulin Benedict via. (Mr. Digo J. Sebastian and Mrs. Teresa Joy K. and students) |
| 114. | BROWK Pvt. Ltd | Design for Rental Recommendation System | 100000 | Dr. Shajulin Benedict via. (Mr. Digo J. Sebastian and Mrs. Teresa Joy K. and students) |
| 115. | SERB Accelerate Vigyan | IoT Cloud Solutions for Productization – A Step to Entrepreneurship | 222750 | Dr. Shajulin Benedict |
| 116. | Indo-Russia | Cloud-Enabled IoT | 1788000 | Dr. Shajulin Benedict |
| 117. | Top Ranking Foreign Universities | Joint MTech Program (40.28 Cr) | 402800000 | Dr. Shajulin Benedict |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|---|---|---|----------------|--|
| 118. | DST | Expression of Interest for Social Good Product Developments using High-End Technologies | 187000000 | Dr. Shajulin |
| 119. | UK-British Council Univ. of Plymouth, UK | IoT Interoperability and Security using Deep Learning | 1478000 | Dr. Shajulin Benedict, Dr. Lincy |
| 120. | DST-SERB | BANI – Energy Harvesting based Next Generation Fog-IoT Network | 4621216 | Dr. Shajulin Benedict Joint project with IIT-Ropar and IIIT-Allahabad |
| 121. | DST-DAAD Germany | IoT Applications | 2065580 | Dr. Shajulin Benedict |
| Dr. Arun Cyril Jose (1) + Joint Projects (1) | | | | |
| 122. | 4th BRICS Young Scientist Conclave Campinas, Brazil | | 100000 | Dr. Arun Cyril Jose |
| Dr. Koppala Guravaiah (2) | | | | |
| 123. | SERB Startup research Grant | SES: Smart Environment Management System using Internet of Things | 863500 | Dr. Koppala Guravaiah |
| 124. | SERB Startup research Grant | pCrop: Protect crop from wild animals using Internet of Things for Agriculture 4.0 | 1291000 | Dr. Koppala Guravaiah |
| Dr. Kesab Nath (3) + Joint Project (2) | | | | |
| 125. | SERB CRG | A Machine Learning Framework for Deploying Intelligent Reflecting Surface for Home-Based Healthcare over 5G | 2221544 | Dr. Kesab Nath |
| 126. | KSCSTE | An IoT based smart irrigation grid system with automatic pests' control and monitoring solution using Machine learning. | 2997120 | Dr. Kesab Nath |
| 127. | MeitY | Building a Knowledge Graph for the Ancient Manuscript Available in Various North-Eastern Regions of India. | 3469240 | Dr. Kesab Nath |
| Dr. Bakkyaraj (4) + Joint Projects (2) | | | | |
| 128. | DST-SERB MATRICS Scheme | Application of Local lie group Theory to time Fractional Porous Medium | 660000 | Dr. Bakkyaraj |
| 129. | DST-SERB MATRICS | Application of Lie Group Theory to Certain Fractional order Differential and Differential – Difference Equations | 660000 | Dr. Bakkyaraj |
| 130. | National Board for Higher Mathematics (NBHM), Department of Atomic Energy | On the fusion procedure and the cyclic characters of certain finite groups and algebras | 605000 | PI: Dr Geetha T, IISER Co-PI: Dr. Bakkyaraj |
| 131. | DST-SERB MATRICS | On the Character Relationship Between Sysmmetric Groups and Fusion Procedure | 660000 | Dr. Bakkyaraj |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|--|--|--|----------------|---|
| Dr. Ragesh G K (20) Joint Project (1) | | | | |
| 132. | Ministry of MSME Govt. of India | IP Facilitation Centre for MSME | 6500000 | Dr. Ragesh G K Dr. Ebin Deni Raj Dr. Bini A A Dr. Bakkyaraj T |
| 133. | Ministry of Electronics & Information Technology (MeitY) | Developing Deep learning models for COVID-19 detection and tracking | 4612489 | Dr. Ragesh G K Dr. Ebin Deni Raj Dr. Divya Sindhu Lekha |
| 134. | DST | Sensitizing Cyber Safety Awareness among Adolescent Girls and Young Women by Conducting Mobile and Virtual Exhibition in Kozhikode, Ernakulam, Kottayam and Thiruvananthapuram Districts | 2168320 | Dr. Ragesh G K Dr. Rubell Marion Lincy G. Dr. Ebin Deni Raj Dr. Panchami. V |
| 135. | DST | Towards Nurturing Entrepreneurship Skills for Engineering Student Community through Digital Means | 1661920 | Dr. Ragesh G K Dr. Kala S |
| 136. | DST | A Study of Science and Technology Entrepreneurship Incubation Practices in Suburban and Rural Areas of Kerala | 3278000 | Dr. Ragesh G K Dr. Keshab Nath Dr. Christina Terese Joseph |
| 137. | DST | Establishment of STI Hub to Improve the Socio-economic Status of ST Community in Mananthavady Block | 29989924 | Dr. Ragesh and Dr. Ananth A |
| 138. | KSCSTE, Govt. of Kerala | Solar Powered Autonomous Flower Harvester Using Machine Learning | 2197200 | Dr. Ragesh G K |
| 139. | DST- OEAD Austria | Privacy-preserving crypto algorithms for user-centric data access control in Trustworthy Ubiquitous computing applications | 880320 | Dr. Ragesh G K Dr. A. Balu |
| 140. | DST- SATHI | Setting up a SATHI-Cyber Physical Systems facility at IIIT Kottayam | 892360000 | Dr. Ragesh, (Coordinator) Team members Dr. Ebin Deni Raj, Dr. Bakkiyaraj, Dr. Rubell Marion Lincy, Dr. Ananth A |
| 141. | DST | Artificial Intelligence based real-time monitoring system for Dams and Regulators in Kerala | 9772000 | Dr. Ragesh G K Dr. Ananth A |
| 142. | DST- SIRE scheme | Design and Development of Secure LPWANs for Long range IoT applications | 768605 | Dr. Ragesh G K |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|------|--|---|----------------|---|
| 143. | SONY India | AI powered Smart Aeroponics controller with pH regulator and fail-safe capabilities | 1600000 | Dr. Ragesh G K Dr. Ananth A Dr. Panchami V Dr. C D Mathew |
| 144. | SONY India | Artificial Intelligence based Real-Time Monitoring system for Dams and regulators in Kerala | 1600000 | Mr. Anuroop (Ph.D. scholar) Ms. Anette James (Ph.D. Scholar) |
| 145. | SONY India | Modular wearable device with plug and play sensor support for body parameter monitoring | 1600000 | |
| 146. | SONY India | Smart Animal Husbandry: IoT based Health Care Monitoring System in Livestock | 1600000 | |
| 147. | SERB (MATRICS scheme) | An Energy-Efficient and Trust-Aware Secure Routing Protocol for Internet of Things Applications | 600000 | Dr. Ragesh G. K. |
| 148. | British Council, United Kingdom (Going Global Partnerships Top-up Exploratory Grant 2022-23) | Internet of Things (IoT) for Intelligent Systems 14405 pounds | 1268780 | Dr. Ragesh G K International Collaborators (from University of Glasgow, UK) 1. Dr. Kayode 2. Dr. Lei Zhang |
| 149. | DST-SATHI (Consortium /Cluster Mode) | Setting up a SATHI-Cyber Physical Systems Facility at IIIT Kottayam | 452315000 | Dr. Ragesh G K PI Co-PI 1. Dr. Ananth A 2. Er. Anuroop K B Partnering Institutes/Organizations: Nominated faculty members from 9 engineering colleges in Kerala (government and non-government) + one industry partnership (Aerobits Developers Pvt. Ltd, Cochin). |
| 150. | British Council, United Kingdom (Going Global Partnerships Industry Academia Collaborative Grant) | Integrating Industrial Metaverse and Industry 4.0 for the next generation work force- Skill Development Programme | 3339960 | 1. Dr. Ragesh G K 2. Mr. Anuroop K B Collaborating Institutes: • University of Glasgow, UK, Dr. Onireti Oluwakayode (Professor, University of Glasgow, United Kingdom) |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|------|---|--|----------------|--|
| | | | | <ul style="list-style-type: none"> Industrial Partner: Aerobits Developers Pvt. Ltd, Cochin, India. |
| 151. | Indo German DST DAAD personnel exchange program | "Highly Isolated Antenna Array using Substrate Integrated Waveguide for 5G and Beyond Networks" | 3100962 | 1. Dr. Ragesh G K 2. Dr. Ansal K A (Post-Doctoral Fellow, IIIT Kottayam) Collaborating Institute: <ul style="list-style-type: none"> Institute for Unmanned Aerial Systems IUAS Offenburg University of Applied Sciences, Germany. Dr. Marlene Harter (Professor, Institute for Unmanned Aerial Systems IUAS Offenburg University of Applied Sciences, Germany) Industrial Partner: <ul style="list-style-type: none"> Aerobits Developers Pvt. Ltd, Cochin, India. |
| 152. | IEEE-SPS Forum | "Predictive Signal Processing and Data Management" | 407578 | Dr. Ragesh G K Collaborator's Name and Designation Dr. M.V. Rajesh Assoc. Professor, Dept. of ECE, College of Engineering, Chengannur, Kerala |
| 153. | KSCSTE, Kerala ETP | "Fully Automatic AI assisted Aeroponics System for Climate Resilient Agriculture" | 2477200 | 1. Dr. Ragesh G K 2. Mr. Anuroop K B (CIO, IIIT Kottayam) Collaborating Institute College of Engineering, Chengannur, Kerala. Dr. M.V. Rajesh Assoc. Professor, Dept. of ECE, College of Engineering, Chengannur, Kerala |
| 154. | DST-DAAD | Highly Isolated Antenna Array using Substrate Integrated Waveguide for 5G and Beyond Networks | 3500000 | Dr. Ragesh G K |
| 155. | British Council | Integration of Industry 4.0. and IoT in Sociotechnical Processes: A Data Analytic Approach for Enhanced Decision Making | 3900000 | Dr. Ragesh G K |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|---|--|---|----------------|---|
| | | and Productivity | | |
| 156. | IGSTC-DST | Isolation enhancement of CPW fed MIMO array using Substrate Integrated Waveguide (SIW) technique for 5G and Beyond | 900000 | Dr. Ragesh G K |
| 157. | KSCSTE | Fully Automatic AI-Assisted Aeroponics System for Climate-Resilient Agriculture Pre-Proposal passed; Detailed proposal Submitted | 2980000 | Dr. Ragesh G K (PI), Anuroop K B (CO-PI) |
| 158. | MEITY - NSF | AI-Flynet: Developing AI-driven protocol stacks for Enhanced UAV communication MeitY - NSF - USD 599589 | 38245000 | Dr. Ragesh G K Dr. Milind Thomas Themalil Dr. Debarati Ganguly |
| Dr. Ananth A (2), Joint Project (3) | | | | |
| 159. | DST | Raise Project Establishing STI Hubs for ST Communities in Attappadi Taluk of Palakkad District | 36065040 | Dr. Ananth A Dr. Ragesh G K Dr. Bakkyaraj T Dr Suchithra M S |
| 160. | SERB - Accelerate Vigyan Scheme under "ABHYAAS" Karyashala | "Methods for Creating a Quality Research Article: Software and Writing Perspective (Virtual Mode)" | 500000 | Dr. Ananth A |
| Dr. Rubell Marion Lincy G. (3) Joint Project (2) | | | | |
| 161. | SERB-POWER | Fractal geometry for deep neural networks and its applications | 2992000 | Dr. Rubell Marion Lincy G Dr. Minirani S, NMIMS, Mumbai |
| 162. | SERB-DST (Vritika - Training and Skill Internship) | First Step to Research in Quantum Computing | 150000 | Dr. Rubell Marion Lincy G |
| 163. | SERB-DST (Karyashala - High-End Workshop) | Applied Machine Learning for Quantum Computing | 500000 | Dr. Rubell Marion Lincy G |
| Dr. Amit Kumar Roy (3) | | | | |
| 164. | I-Hub Foundation for Cobotics (IHFC) IIT Delhi | Application of artificial intelligence and blockchain for crop disease prediction and data integrity: A budding solution for farmers in India | 6796000 | Dr. Amit Kumar Roy Dr. Cinu C Kiliroor Dr. Konjengbam Anand |
| 165. | SERB Startup Grant (SRG) Scheme | Smart Agriculture with Efficient Approach embedding Block chain Technology | 1588400 | Dr. Amit Kumar Roy |
| 166. | INAE-SERB, DST Abdul Kalam Technology Innovation National Fellowship | Efficient Supply Chain Management System using Blockchain Technology | 4500000 | Dr. Amit Kumar Roy |
| 167. | DST (FIST 2023) | “WNHFQS”: A Testbed for Teaching/Research Cybersecurity for Industrial/Educational Control Systems | 29900000 | Dr. Amit Kumar Roy, Dr. Panchami V, Dr. Bhanu Chander, Dr. Manjith B.C, Dr. Balu, Dr. Ebin Deni Raj, Dr. |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|---|---|--|----------------|---|
| | | | | Jayakrishna Sahoo, Dr. Ragesh GK |
| Dr. Nandini J Warriar (1) | | | | |
| 168. | KSCSTE (Kerala State Council for Science Technology and Education) | | 1075800 | Dr. Daphna Chacko (PI), Dr. Nandini J. Warriar (Co. PI) |
| 169. | Indian Council for Social Science Research | Computational Representation of Kathakali Mudras for an Automated Semantic Translation | 450000 | Nandini J. Warriar Manu Madhavan Arun B. Warriar (Kerala Kalamandalam) |
| 170. | Kerala State Council for Science Technology and Environment | A Computational Framework for Automated Semantic Translation of Kathakali Mudras | 1800800 | Nandini J. Warriar Manu Madhavan Arun B. Warriar (Kerala Kalamandalam) |
| 171. | SERB-SRG | A study on the m-Eternal Domination Number and Eternal Vertex Cover Number of Some Graph Classes | 744000 | Nandini J. Warriar |
| 172. | SHRI | Interpretation and Analysis of Kathakali Mudras- A Computational Approach | 2301150 | Dr Nandini J Warriar., Dr Manu Madhavan., Dr Selvi C |
| Dr. Cinu C Kiliroor (3), Joint Project (2) | | | | |
| 173. | KSCSTE (Kerala State Council for Science Technology and Education) | Robotic System Design and Application for Industrial Automation | 60000 | Dr. Cinu C Kiliroor Co-PI: Dr. Lidiya Lilly Thampi Dr. Santosh Kumar |
| 174. | KSCSTE- ERP | Deep Learning based Identification of Rare Specious in Medicinal Plants- A Blossoming Approach for Conservation of Ayurvedic Herbs | 150000 | Dr. Cinu C Kiliroor Dr. Lidiya Lilly Thampi |
| 175. | Dr. D.S. Kothari Research Grant for Newly Recruited Faculty Members | Heart Disease Analysis and Prediction Application Using Machine Learning Approach | 1000000 | Dr. Cinu C Kiliroor |
| 176. | KSCSTE- Proposal for Seminar | Robotics System Design and Application for Industrial Automation | 40000 | Dr. Cinu C Kiliroor Dr. Lidiya Lilly Thambi |
| 177. | MeitY | Intellectual Property Rights (IPR) | 200000 | Dr. Cinu C Kiliroor Dr. Lidiya Lilly Thampi |
| Dr. Lidiya Lilly Thampi (1), Joint Project (2) | | | | |
| 178. | SERB POWER Grant | Development of Fully-Automated Ovarian Cyst Detection and Severity Estimation System from Female Pelvic MRI using | 4374100 | PI: Dr. Lidiya Lilly Thampi C0-PI: Dr. Cinu C Kiliroor Dr. Jaseena K U |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|-----------------------------------|---|--|----------------|--|
| | | Deep Learning-based Image Processing Methods | | (MES Marampilly) Dr. Amel Antony (LIRRIS) |
| Dr. Suchithra M S | | | | |
| 179. | Department of Biotechnology (DBT) Ministry of Science and Technology | Application of Artificial Intelligence and Computer Vision Techniques in Rubber Tapping Robot | 3927899 | Dr. Suchithra M S Dr. Ragesh G K Dr. Jayakrushna Sahoo Dr. Thomson Abraham (RRII) |
| 180. | KSCSTE | Design and Development of an AI-based automated system for Rubber Farmers in the Pala Region, Kerala | 3000000 | Dr. Suchithra M S, Dr. Ragesh G K |
| Dr. Selvi C | | | | |
| 181. | DBT (Department of Biotechnology) | A Light-weight Mobile Application for Detecting Brinjal Plant Pest and Diseases using Efficient Deep Learning Algorithm to provide Automated Advisory Services | 7680000 | Dr. Selvi C, Dr. Koppala Guravaiah, Dr Vengadeswaran S and Dr Anandaraja N from TNAU Coimbatore |
| Dr. Minu A Pillai | | | | |
| 182. | Kerala State Council for Science, Technology And Environment (KSCSTE) | Sound Source Localization using machine learning | 2286000 | Dr. Minu A Pillai, Dr. Kala S, and Dr. Supriya M. H., Cochin University of Science and Technology |
| Dr. Milind Thomas Themalil | | | | |
| 183. | DST-SERB Start-Up Research Grant (SRG) | Design of Agile Isoflux Beam Patterns in Microstrip Antennas for Wider Earth Coverage in Small Satellite Applications | 933881 | Dr. Milind Thomas Themalil |
| Dr. Vengadeswaran S | | | | |
| 184. | SERB - Start-up Research Grant (SRG) | Time-Efficient Framework for Big Data Analytics Addressing Heterogeneity Issues emerging due to the Adoption of Modern Hardware and Computing Platforms | 1423400 | PI: Dr Vengadeswaran |
| 185. | MSME - Idea Hackathon | Visualization dashboard for analyzing the Government of India welfare scheme for enabling better decision making | 960000 | Mentor: Dr. Shajulin Benedict |
| 186. | Kerala State Council for Science, Technology and Environment (KSCSTE) | AI-Based Light-Weight Mobile App to Monitor, Assist and Alert Alzheimer Patients and Caretakers | 1160960 | PI: Dr Vengadeswaran Co-PI: Dr Selvi C, Dr. Shajulin Benedict |
| Dr. Bhanu Chander | | | | |
| 187. | SERB-CRG | Sophisticated Intelligence for | 4036800 | Dr. Bhanu Chander |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|-------------------------------|---|--|----------------|-----------------------------------|
| | | Predicting, Detecting and Instant Information Transmission of Real-Time Road Accidents to Emergency Departments Using State-Of-The-Art Machine Learning and Ultra-Modern Cloud Infrastructure. | | |
| 188. | IHub-Data, IIITH | Empowering Healthcare with Advanced Federated Learning: Real-Time Road Accident Prediction and Instant Emergency Information Transmission | 1500000 | Dr. Bhanu Chander |
| Dr. John Paul | | | | |
| 189. | SERB | A Comparative Study of Deep Learning Models for Crop Type Classification in Precision Agriculture | 4000000 | Dr. John Paul and Dr. Christina |
| Dr. Gayathri G. R. | | | | |
| 190. | Kerala Women's Commission | Health Issues Among Female Adolescent Athletes: A Case Study of Kottayam District in Kerala | 200000 | Dr. Gayathri G.R. |
| 191. | Indian Council of Social Science Research (ICSSR) | Female Athlete Triad Among Adolescent Athletes | 1000000 | Dr. Gayathri G.R. |
| Dr. Leena Mary | | | | |
| 192. | I-Hub, IIT Patna | Automatic Remote Assessment of Stuttered Malayalam Speech using Signal Processing and Speech Recognition Techniques | 1500000 | Dr. Leena Mary |
| 193. | AIISH, Mysore | Development of a speech recognition assisted app for animated stories and evaluating its efficacy | 600000 | Dr. Leena Mary |
| Dr. Athira B | | | | |
| 194. | 1 India Health Fund | Development of Health recommender system | 2263000 | Dr. Athira B |
| 195. | Biotechnology Industry Research Assistance Council (BIRAC) | Development of Health Social Community Platform in association with hospital system to cater the patient's personalized concerns about health | 3000000 | Dr. Athira B Dr. Suchithra M S |
| Dr. Abin Oommen Philip | | | | |
| 196. | Translational Research Proposals for IDEAS-TIH, Indian Statistical Institute – Cohort 2 | Framework for future of crime investigations by correlating and analysing data from IoT and Mobile devices | 1156000 | Dr. Abin Oommen Philip |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|--|---|---|----------------|---|
| 197. | Open Ai | Privacy preserving crime investigations by correlating and analyzing data from IoT and Mobile devices using Artificial Intelligence | 830000 | Dr. Abin Oommen Philip |
| Dr. Dhanyamol MV Joint Project (2) | | | | |
| Dr. Christina Terese Joseph Joint Project (2) | | | | |
| Dr. Balu Joint Project (1) | | | | |
| Dr. C D Mathew Joint Project (1) | | | | |
| Dr. Konjengbam Anand Joint Project (1) | | | | |
| Former faculty of IIIT Kottayam | | | | |
| Dr. Boddepalli SanthiBhushan (1) | | | | |
| 198. | SERB (DST) Submitted Under “Start-up Research Grant” Scheme | Ultra-High Capacitive Electrodes of B and N-doped Graphene based Novel Organic Aromatic Hybrids for High Energy Density Supercapacitors: A First-Principles Investigation | 2925700 | Dr. Boddepalli SanthiBhushan |
| Dr. Manikandan V. M. (1) | | | | |
| 199. | | Third Eye: A smart spectacle to help blind people | 8000000 | Dr. Manikandan V. M. |
| Dr. Suresh Chavhan (2) | | | | |
| 200. | INSA | Edge AI-enabled Innovative Strategy toward the Adaptive and Optimum Traffic System in Smart Cities | 300000 | Dr. Suresh Chavhan |
| 201. | SIRE | Design and Development of Adaptive Traffic Control System using Edge-AI in the Smart City | 800000 | Dr. Suresh Chavhan |
| Dr. C. Oswald | | | | |
| 202. | Indian Council of Social Science Research (ICSSR), INDIA & Japan Society for the Promotion of Science (JSPS), Japan | Exploring ‘Smart’ Pedagogy through the End-to-End Development of a Technology - Enhanced Learning (TEL) system | 1400000 | PI: Dr. Rachel Philip Co-PI's: Dr. Riby Abraham Boby, IIT Jodhpur Dr. C. Oswald, IIIT Kottayam Dr. Sivananthan Sampath, IIT Delhi Dr. Rajlaxmi Chouhan, IIT Jodhpur |
| Dr. Nilotpal Chakraborty | | | | |
| 203. | DST | Essence Efficient Utilization of Battery Storage Systems for Enhanced EV Life | 54844000 | Dr. Nilotpal Chakraborty |
| 204. | Kerala State Council for Science Technology and Environment, | Flexible Load Simulator for Next Generation Energy Systems | 642375 | Dr. Nilotpal Chakraborty Co-PI: Dr. Arijit Mondal (IIT Patna), Dr. Samrat Mondal (IIT Patna) |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty Involved |
|-------|------------------------|---|-----------------------------|---|
| 205. | SERB | Development of digital twin framework for smart grid and electric vehicles in India | 1730872 | Dr. Nilotpal Chakraborty |
| 206. | SERB-SUPRA | Automated monitoring and simulation framework for the development and maintenance of Road infrastructure in India | 450000 | Dr. Nilotpal Chakraborty, Dr. Mirza Galib |
| Total | | | 347.21 Crores 3472169329 | |

Table 51: List of Research / Project Funding Proposals Under Various Stages of Evaluation & Considerations

3. Incubation Centres – AIC (NITI Aayog) and MSME Innovation / Start-Up Projects

The AIC (NITI Aayog) Incubation Center is [incubating 35+ start-up companies](#). Recently started MSME Incubation Center is incubating 03 start-up company with funding.

3.1. MSME Incubation Center: Submitted 94 Start-up Project Funding Proposals (Rs. 13.91 Crores)

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|---|------------------------|--|----------------|--|------------|
| MSME Incubation Center: Submissions (Portal-I) Dr. Shajulin Benedict via. Incubates | | | | | |
| 1. | MSME | Revenue oriented water quality prediction framework for smart-cities | 13,00,000 | Dr. Shajulin, Mentor: Dr. Rajan M.P | Submitted |
| 2. | MSME | Most affordable Electric Motorcycle | 1300000 | Arpit Chauhan, Mentor: Dr. Shajulin | Submitted |
| 3. | MSME | 3D Modelling, Virtual Prototyping and Multi Physics Simulation based Product Development | 1500000 | Viswanathan Krishnamani Mentor: Dr. Shajulin Benedict | Submitted |
| 4. | MSME | E3 Homes Energy, Eco and Economy Friendly Smart Homes | 1500000 | Kaiparampil Lizbeth Joy, Mentor: Dr. Shajulin | Submitted |
| MSME Incubation Center: Submissions (Portal-II) Dr. Shajulin Benedict via. Motivated incubates/entrepreneurs | | | | | |
| 5. | MSME | Telecommunication & Networking | 1500000 | Dr. Shajulin Benedict Via. Ms. Anjali | Submitted |
| 6. | MSME | Robotics | 1500000 | Dr. Shajulin Benedict Via. Mr. Divvela Rakesh | Submitted |
| 7. | MSME | Transportation & Storage | 1500000 | Dr. Shajulin Benedict Via. Mr. Kiren F Madekkal | Submitted |
| 8. | MSME | Healthcare & Life Sciences | 1500000 | Dr. Shajulin Benedict Via. Mr. Ariharan T | Submitted |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-----|------------------------|---------------------|----------------|---|------------|
| 9. | MSME | Waste Management | 1500000 | Dr. Shajulin Benedict Via. Mr. Denix M Sebastin | Submitted |
| 10. | MSME | Design | 1500000 | Dr. Shajulin Benedict Via. Mr. K Viswanathan | Submitted |
| 11. | MSME | Renewable Energy | 1500000 | Dr. Shajulin Benedict Via. Mr. Faruqkhan Pareeth | Submitted |
| 12. | MSME | Internet of Things | 1500000 | Dr. Shajulin Benedict Via. Mr. Manojkumar Yadav | Submitted |
| 13. | MSME | Waste Management | 1500000 | Dr. Shajulin Benedict Via. Mrs. N C Brintha | Submitted |
| 14. | MSME | Renewable Energy | 1500000 | Dr. Shajulin Benedict Via. Mrs. Kaiparampil Lizbeth Joy | Submitted |
| 15. | MSME | Internet of Things | 1500000 | Mr. Shajulin Benedict | Submitted |
| 16. | MSME | Agriculture | 1500000 | Dr. Shajulin Benedict Via. Mr. Arya P Muralidharan | Submitted |
| 17. | MSME | Internet of Things | 1500000 | Dr. Shajulin Benedict Via. Mr. Basil C Sunny | Submitted |
| 18. | MSME | Logistics | 1500000 | Dr. Shajulin Benedict Via. Mr. Kenny Thomas | Submitted |
| 19. | MSME | Agriculture | 1500000 | Dr. Shajulin Benedict Via. Mr. Anto John | Submitted |
| 20. | MSME | AI | 1500000 | Dr. Shajulin Benedict Via. Mr. Binish Thaikkottathil | Submitted |
| 21. | MSME | Food & Beverages | 1500000 | Dr. Shajulin Benedict Via. Mr. Saji Sukumaran | Submitted |
| 22. | MSME | Technology Hardware | 1500000 | Dr. Shajulin Benedict Via. Mr. Alrin A Jabin | Submitted |
| 23. | MSME | Agriculture | 1500000 | Dr. Shajulin Benedict Via. Mr. George Joseph | Submitted |
| 24. | MSME | Internet of Things | 1500000 | Dr. Shajulin Benedict Via. Mr. Sudharsanan E K | Submitted |
| 25. | MSME | Renewable Energy | 1500000 | Dr. Shajulin Benedict Via. DML Industries | Submitted |
| 26. | MSME | Internet of Things | 1500000 | Dr. Shajulin Benedict Via. Mr. Sinto Joseph | Submitted |
| 27. | MSME | Waste Management | 1500000 | Dr. Shajulin Benedict Via. Mr. Albin Augustine | Submitted |
| 28. | MSME | Green Technology | 1500000 | Dr. Shajulin Benedict Via. Mr. Hari Krishnan S | Submitted |
| 29. | MSME | Internet of Things | 1500000 | Dr. Shajulin Benedict Via. Mr. Anson Joseph | Submitted |
| 30. | MSME | Automotive | 1500000 | Dr. Shajulin Benedict Via. Mr. Anoop K Nair | Submitted |
| 31. | MSME | Renewable Energy | 1500000 | Dr. Shajulin Benedict Via. Mr. Prasannaeswaran | Submitted |
| 32. | MSME | Biotechnology | 1500000 | Dr. Shajulin Benedict Via. Mrs. Achamma Giju | Submitted |
| 33. | MSME | Automotive | 1500000 | Dr. Shajulin Benedict Via. Mr. Sebin Sebastian | Submitted |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-----|------------------------|--|----------------|--|------------|
| 34. | MSME | AI | 1500000 | Dr. Shajulin Benedict Via. Mr. Sreeranj S | Submitted |
| 35. | MSME | Automotive | 1500000 | Dr. Shajulin Benedict Via. Mr. Varghese | Submitted |
| 36. | MSME | Automotive | 1500000 | Dr. Shajulin Benedict Via. Mr. Arpit Chauhan | Submitted |
| 37. | MSME | Non-Renewable Energy | 1500000 | Dr. Shajulin Benedict Via. Mr. Piyush Bansal | Submitted |
| 38. | MSME | Waste Management | 1500000 | Dr. Shajulin Benedict Via. Mr. Jerry Mon T J | Submitted |
| 39. | MSME | Intelligent Shoes for Pothole and Electric Field Detector with GPS Assistance and Tracking | 1380000 | Dr. Ananth A Dr. Ragesh G K | Submitted |
| 40. | MSME | Automatic speed breaker detection | 1500000 | Bukya Lokesh Naik | Submitted |
| 41. | MSME | Visualization dashboard for analyzing the Government of India welfare scheme - Pradhan Mantri Awas Yojana (PMAY) for enabling better decision making | 1500000 | Vengadeswaran S | Submitted |
| 42. | MSME | Smart Irrigation System using Blockchain for Organic Farming | 1500000 | Tharun Vemula | Submitted |
| 43. | MSME | Pine Apple Leather and Textile | 1500000 | Tinumol Rajesh | Submitted |
| 44. | MSME | ENERGY CARRIER FOR ELECTRIC VEHICLE | 1500000 | Srisivahari | Submitted |
| 45. | MSME | EV charging station locator and its payment gateway | 1500000 | Talakanti Sravan Kumar Reddy | Submitted |
| 46. | MSME | Developing an International NEWS Aggregator (Agency) that blends with the AVGC concepts that can span across the Globe from India. | 1500000 | Jerin Thomas Meleth | Submitted |
| 47. | MSME | Intelligent Security in Vehicle with Emotion Detection using IoT | 1500000 | Bhagyalakshmi Muralidharan | Submitted |
| 48. | MSME | Waterflow alert systems using Internet of Things | 1500000 | Koppala Guravaiah | Submitted |
| 49. | MSME | Infinitev potential energy | 1500000 | Suresh R | Submitted |
| 50. | MSME | HEALTH RECORD MANAGEMENT | 1500000 | Jaya Harish R | Submitted |
| 51. | MSME | All Terrain Autonomous Security Vehicle | 1500000 | Rajesh | Submitted |
| 52. | MSME | Monitoring of water quality in a Ganges Shark using IOT -AI approach | 1500000 | Jiby Mariya Jose | Submitted |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-----|------------------------|--|----------------|------------------------------|------------|
| 53. | MSME | BRAILLE BASED MOBILE COMMUNICATION SYSTEM | 1500000 | Sujitha Soman | Submitted |
| 54. | MSME | BAL - More Power to Transportation Industry | 1500000 | M S Vamsi | Submitted |
| 55. | MSME | HRMS Simplified with advance ai | 1500000 | Laga Land Llp | Submitted |
| 56. | MSME | HOSPITAL AND PHARMACY MANAGEMENT | 1500000 | Mohamed Badusha A | Submitted |
| 57. | MSME | Infoforte conduct research, develop purpose-driven designs, and build solutions for our partners who share the common goal to make sustainable digital transformation solutions. | 1500000 | Infoforte Private Limited | Submitted |
| 58. | MSME | EDGE COMPUTING BASED MANHOLE DETECTION FOR SMART CITIES | 1500000 | Bhukya Akash | Submitted |
| 59. | MSME | The proposed approach provides a unique way of implementing blockchain based solution for organic farming. | 1500000 | Bhagyalakshmi Muralidharan | Submitted |
| 60. | MSME | FRUIT FLAVOURED TEA POWDER WITH ENHANCES NUTRIENTS | 1500000 | Maniyammai Venkatachalam | Submitted |
| 61. | MSME | Self-Care Management Apps with voice alerts for People with Alzheimers and Related Dementias | 1500000 | Selvi C | Submitted |
| 62. | MSME | e-vaccine health System | 1500000 | Alphet Maria Baby | Submitted |
| 63. | MSME | Hospital Room Allotment system using IoT Cloud | 1500000 | Irish.K. Sajan | Submitted |
| 64. | MSME | Lifebed - Cost effective replacement for medical beds with added bedsore prevention and patient tilting feature | 1500000 | Don Paul | Submitted |
| 65. | MSME | Crop protection from wild animals using Internet of Things | 1500000 | Koppala Guravaiah | Submitted |
| 66. | MSME | SMART VEHICLE PARKING SYSTEM USING LI-FI TECHNOLOGY | 1500000 | Karthick R | Submitted |
| 67. | MSME | Hybrid Evaporative effective cooling system for vegetables | 1500000 | Mohanadevi Murugan | Submitted |
| 68. | MSME | Design and Fabrication of solar powered air quality monitoring and purification | 1500000 | Iswarya S | Submitted |
| 69. | MSME | Sperm Scope | 1500000 | Dileep Subrahmanian | Submitted |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-----|------------------------|---|----------------|------------------------------|------------|
| 70. | MSME | Food waste management system using social incentive mechanism. | 1500000 | Addanki Sri Rohith Mangesh | Submitted |
| 71. | MSME | E-COMMERCE AGRICULTURE | 1500000 | Vineesh | Submitted |
| 72. | MSME | Towards Efficient Cloud-Based System | 1500000 | Goutam Mali | Submitted |
| 73. | MSME | AI-Based automatic Lesson Summarizer and Questions generator for Students and Teachers | 1500000 | Sandesh Naroju | Submitted |
| 74. | MSME | Comic Academic Books | 1500000 | Rajesh | Submitted |
| 75. | MSME | ARTIFICIAL INTELLIGENCE BASED SURVEILLANCE SYSTEM FOR SMART CAMPUS | 1500000 | Stalinraj K | Submitted |
| 76. | MSME | Ai-IOT aided system for self-coaching for SPORTS | 1500000 | Jiby Mariya Jose | Submitted |
| 77. | MSME | Production of Chitin from Canteen Food Waste Using Mealworms | 1500000 | Dhanusiyaa JD | Submitted |
| 78. | MSME | PREPARATION OF REINFORCED BIOPLASTIC FROM FOOD AND AGRICULTURAL WASTE | 1500000 | Peerline U | Submitted |
| 79. | MSME | Algal rule in skin care products | 1500000 | Madhubala K | Submitted |
| 80. | MSME | Low-cost Indigenous Digital Healthcare System | 1500000 | Adhithya Krishnan R | Submitted |
| 81. | MSME | Solar floor cleaner robot using IOT | 1500000 | Parna Mounika | Submitted |
| 82. | MSME | Swastha | 1500000 | Nithin Anil | Submitted |
| 83. | MSME | ARDUINO BASED ROAD SAFETY COMMUNICATION SYSTEM | 1500000 | Sheik Dhavud | Submitted |
| 84. | MSME | FEASIBILITY OF CELLULOSE IN FURNISHING PROPERTY - A NEW PATHWAY IN FURNITURE PRODUCTION | 1500000 | Darshanasree S R | Submitted |
| 85. | MSME | Deep Learning-based Vehicle Parking System for Disabled People | 1500000 | Jiby Mariya Jose | Submitted |
| 86. | MSME | Cloud Based Visualization Services | 1500000 | Srujan Putta | Submitted |
| 87. | MSME | Study of Emotions on Tourists of Moonar, Kerala | 1500000 | Robin Philip | Submitted |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-------|------------------------|--|-----------------------|------------------------------|------------|
| 88. | MSME | Supply Chain Management in Agriculture Using Blockchain and IoT | 1500000 | Raunak Kumar Singh | Submitted |
| 89. | MSME | Water Quality Prediction using Cooperative Intelligence | 1500000 | Rejitha R S | Submitted |
| 90. | MSME | Child Monitoring System based on Assistive technology | 1500000 | Doowera | Submitted |
| 91. | MSME | IOT BASED TRAFFIC MANAGEMENT SYSTEM FOR EMERGENCY VEHICLES | 1500000 | Kaliraj Iyar | Submitted |
| 92. | MSME | Energy Efficient Serverless Cloud Recommendation Engine for MSMEs | 1500000 | Shajulin Benedict | Submitted |
| 93. | MSME | Integrated Real-Time Healthcare predictive and monitoring Ecosystem using Digital Bio Markers based on IoT and AI managed on Block Chain for a Decentralized Privacy Protection. | 1500000 | Vatsal Sinha | Submitted |
| 94. | MSME | VF Garments | 1500000 | Jose Thomas Viruthakulangara | Submitted |
| Total | | | 13.91 Cr 139180000 | | |

Table 52: MSME Incubation Center - Project Submissions

3.2. AIC Incubation Center (NITI Aayog) - Project Submissions (Faculty: Dr. Shajulin Benedict via. AIC Team): Submitted 34 Start-up project proposals (Rs. 41.53 Crores) and incubating 25 start-up companies

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-----|------------------------|-------------------------|----------------|------------------------------|------------|
| 1. | Govt. of. India | Youth Co lab | 500000 | Divela 3d | Submitted |
| 2. | Govt. of. India | Youth Co lab | 500000 | Vuga Security solution | Submitted |
| 3. | Govt. of. India | WEP | 7167975 | Trophic Bio System | Submitted |
| 4. | Govt. of. India | Birac | 5000000 | Trophic Bio System | Submitted |
| 5. | Govt. of. India | Enterprise Awards Track | 500000 | Trophic Bio System | Submitted |
| 6. | Govt. of. India | Startup India | 500000 | RK Electromobiles | Submitted |
| 7. | PVT Incubator | Springboard Incubator | 20000000 | RK Electromobiles | Submitted |
| 8. | Govt. of. India | startup Mithra | 50000 | RK Electromobiles | Submitted |
| 9. | Govt. of. India | NITI - Prayas | 1000000 | DML Industries | Submitted |
| 10. | Govt. of. India | NITI - Prayas | 1000000 | Vajra software solutions | Submitted |
| 11. | Govt. of. India | NITI - Prayas | 1000000 | Duklr | Submitted |
| 12. | Lets Venture | Lets Venture | 10000000 | RK Electromobiles | Submitted |
| 13. | Govt. of India | NITI - Prayas | 1000000 | Maklabs | Submitted |
| 14. | Govt. of. India | PSG-STEP Seed Fund | 1000000 | Sygul Technologies | Submitted |
| 15. | PVT Incubator | Springboard Incubator | 20000000 | Sygul Technologies | Submitted |

| SN | Project Funding Agency | Project Title | Funding in Rs. | Faculty / Incubates Involved | Sanctioned |
|-------|------------------------|---|-----------------------|------------------------------|------------|
| 16. | PVT Incubator | NITI - Prayas | 1000000 | Trolli | Submitted |
| 17. | PVT Incubator | Startups 2019 | 5000000 | RK Electromobiles | Submitted |
| 18. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Antrika | Submitted |
| 19. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | RK Electromobiles | Submitted |
| 20. | DIPP | Assocham starup launchpad - Raipure Edition | 15000000 | RK Electromobiles | Submitted |
| 21. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Duklr | Submitted |
| 22. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Aaltree | Submitted |
| 23. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Black Cubes | Submitted |
| 24. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Vajra software solutions | Submitted |
| 25. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Teen Techies PVT ltd | Submitted |
| 26. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | DML Industries | Submitted |
| 27. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Maklabs | Submitted |
| 28. | PVT Incubator | 12th Edition The Coimbatore Vizha | 10000000 | Divvela 3D | Submitted |
| 29. | Govt. of. India | 5th State evaluation board meet held for startups | 1000000 | RK Electromobiles | Submitted |
| 30. | Toyota | Toyota Mobility Foundation Challenge (CATCH) | 109990500 | BAXA | Submitted |
| 31. | Toyota | Toyota Mobility Foundation Challenge (CATCH) | 109990500 | RK Electromobiles | Submitted |
| 32. | Seed Fund India | IoT Device | 1500000 | Teamstarbase Pvt. Ltd | Sanctioned |
| 33. | Seed Fund India | File Cloud storage | 1500000 | Fiscean Pvt. Ltd | Sanctioned |
| 34. | Seed Fund India | Rental | 1200000 | Browku Pvt. Ltd. | Sanctioned |
| Total | | | 41.53 Cr 415398975 | | |

Table 53: AIC Incubation Center (NITI Aayog) - Project Submissions

3.3. Recently submitted 50 innovation – start up projects worth Rs. 7.5 Crores by IIIT Kottayam faculty members

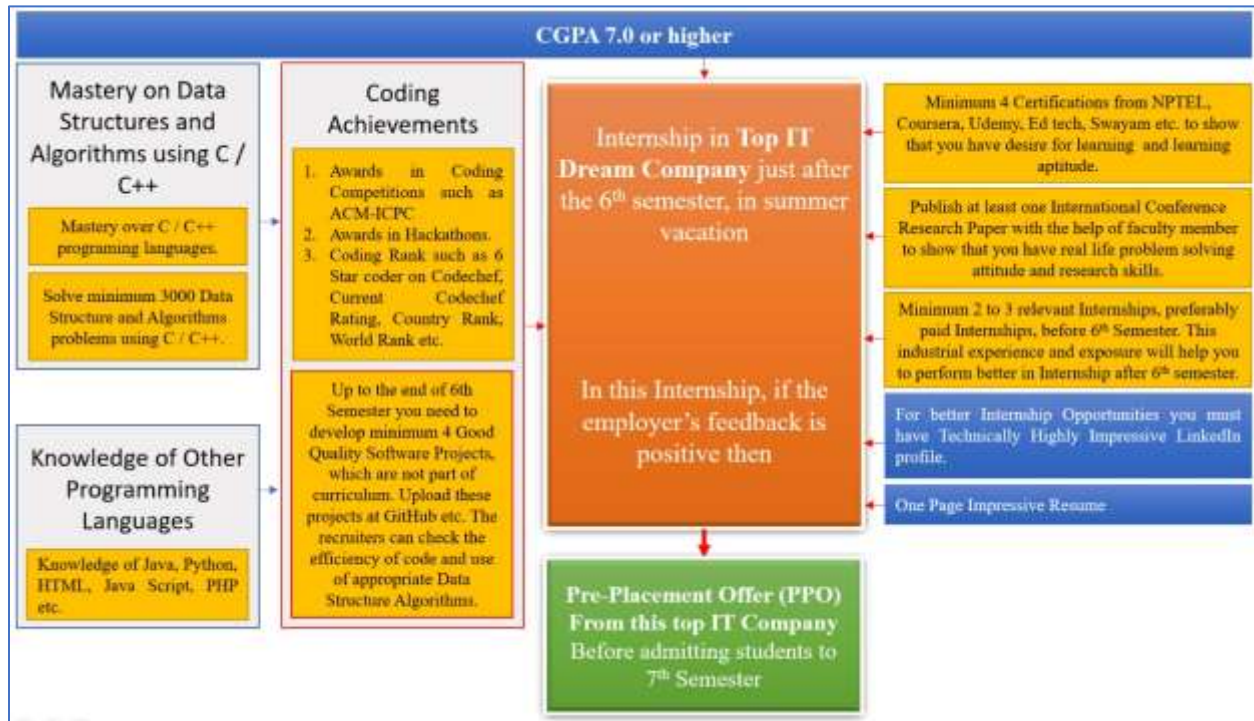
| SN | Project Funding Agency | Project Title | Funding in Rs | Faculty Involved |
|----|------------------------|---------------|---------------|------------------|
|----|------------------------|---------------|---------------|------------------|

| | | | | |
|----|------|--|---------|--|
| 1 | MSME | Smart Irrigation System using Blockchain for Organic Farming | 1500000 | Dr. Shajulin Benedict |
| 2 | MSME | AutoHire - An AI-Based Automated Technical Interview Solution | 1500000 | Dr. Victor Paul (Sanctioned) |
| 3 | MSME | An IOT Based Water Contamination Detection System | 1500000 | Dr. Shajulin Benedict (via. Nodal centre) |
| 4 | MSME | Pillsbee | 1500000 | Dr. Shajulin Benedict (via. AIC) |
| 5 | MSME | Operating system for waste management | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 6 | MSME | Nelieca | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 7 | MSME | Bittron is a peer-to-peer digital currency | 1500000 | Dr. Shajulin Benedict (via. AIC) |
| 8 | MSME | Crop protection from wild animals using Internet of Things for Agriculture 4.0 | 1500000 | Dr. Koppala Guraviah |
| 9 | MSME | Self-Charging smart devices using Piezoelectric effect in display | 1500000 | Dr. Bakkyaraj (via. Ph.D Scholar) |
| 10 | MSME | Integrated Medical Alert Communication System | 1500000 | Dr. Shajulin Benedict (via. AIC, Sanctioned) |
| 11 | MSME | Intelligent Security with Emotion Detection using IoT | 1500000 | Dr. Shajulin Benedict (Via. Ph.D Scholar) |
| 12 | MSME | Edge Computing based Manhole Detection for Smart Cities | 1500000 | Dr. Shajulin Benedict (via. Ph.D Scholar) |
| 13 | MSME | life skills training by VR technology intervention for the youth | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 14 | MSME | BROWKU - The First of it's Kind in Real Estate | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 15 | MSME | Food Waste and Rewards using IoT-Blockchains for Smart Cities | 1500000 | Dr. Shajulin Benedict |
| 16 | MSME | Remote wireless surveillance for smart cities using Internet of Things and Edge Intelligence | 1500000 | Dr. Shajulin Benedict (Via. Ph.D scholar) |
| 17 | MSME | Edge Intelligence and Internet of Things using Brain wave and Heart rate variability for Bed Ridden Patients | 1500000 | Dr. Shajulin Benedict (Via. Ph.D Scholar) |
| 18 | MSMe | Self-sanitizing chair | 1500000 | Dr. Jayakrushna Sahoo (Via. PhD Scholar) |
| 19 | MSME | Misinformation Alert System in Online social media | 1500000 | Dr. Divya Sindhu Lekha (Via. PhD Scholar) |
| 20 | MSME | Drowsiness detection and safe transportation of goods as service provider | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 21 | MSME | Smart Shoes Pothole and Electric Field Detector | 1500000 | Dr. Ragesh |
| 22 | MSME | Temple Point | 1500000 | UNKNOWN |
| 23 | MSME | Susceptible Contagious Diseases Patient Tracker System using IoT | 1500000 | Dr. Shajulin Benedict (Via. Nodal centre) |
| 24 | MSME | Edge Intelligence and Natural Language Based Bot for Old age people | 1500000 | Dr. Shajulin Benedict (Via. Ph.D Scholar) |
| 25 | MSME | SPORTSHEAL Quick Tendonitis Recovery | 1500000 | Dr. Ebin Deni Raj (Via. Ph.D Scholar) |
| 26 | MSME | Virtual Invigilator Device to prevent malpractices in online examinations/recruitments. | 1500000 | Dr. Bini A (Via. Ph.D Scholar) |
| 27 | MSME | ILAICHEE Kisan MITR | 1500000 | Dr. Panchami (Via. PH.D scholar) |
| 28 | MSME | Mobile Application Based Helping Hand to Needy People | 1500000 | Dr. Shajulin Benedict (via. Nodal Centre) |
| 29 | MSME | Electronic Packaging Cover for products during Shipping/Delivery | 1500000 | Dr. Shajulin Benedict (Via. AIC) |

| | | | | |
|-------|------|---|----------------------|--|
| 30 | MSME | THOORYAN Filterless Air Treatment Systems | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 31 | MSME | Crop protection from wild animals using Internet of Things for Agriculture 4.0 | 1500000 | Dr. Koppala Guraviah |
| 32 | MSME | Search engine for Services | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 32 | MSME | Expand market for films/Series facilitating interactions between GenZ and films/Series content using data and personalization | 1500000 | Dr. Shajulin Benedict (Via. MSME incubate) |
| 33 | MSME | Effective Tool for Eradication of an Infectious Disease within a Community | 1500000 | Dr. Divya Sindhu Lekha (Via. Ph.D Scholar) |
| 34 | MSME | Revenue-Oriented Water Distribution Framework for Smart Cities | 1500000 | Dr. Shajulin Benedict |
| 35 | MSME | Portable Automated Waste Segregation Bin | 1500000 | Dr. Shajulin Benedict (Via. Nodal centre) |
| 36 | MSME | Monitoring and alerting system of vulnerable events to home-alone elderly or children | 1500000 | Dr. Siviah Bellamkonda |
| 37 | MSME | Automated Physiotherapy Wearable Device for Rheumatoid Patients | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 38 | MSME | DRIQR Degradation Removal and Image Quality Restoration System | 1500000 | Dr. Ebin Deni Raj (Via. Ph>D Scholar) |
| 39 | MSME | Autonomous IoT based Intelligent/ Smart Palmyra Tree climber | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 40 | MSME | IoT enabled Multi-Spectral Image Dehazing of DSN communication | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 41 | MSME | Autonomous IoT based Intelligent/ Smart Palmyra Tree climber | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 42 | MSME | e-payment enabled medical products vending machine | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 43 | MSME | Exoskeleton For Paralyzed / Permatently Disabled Patients | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 44 | MSME | IoT For Precision Agriculture | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 45 | MSME | Winqer is an AI based Indian online social media and social networking service owned by Winqer Media Private Limited. | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 46 | MSME | BLIND CURVE ASSISTANCE SYSTEM | 1500000 | UNKNOWN |
| 47 | MSME | Expand market for films/Series with more interactions between GenZ and films / Series content using data and personalization | 1500000 | Dr. Shajulin Benedict (Via MSME Incubate) |
| 48 | MSME | AI Based Surveillance Systemf | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| 49 | MSME | Eventz Genie - Safety Solutions for Live Events in the new normal | 1500000 | Dr. Shajulin Benedict (Via. AIC) |
| 50 | MSME | Arduino based home automation using Internet of things | 1500000 | Dr. Shajulin Benedict (Via. Nodal) |
| Total | | | 75,000,000 7.5 Cr | |

Table 54: Submitted 50 MSME Projects in April 2022 (sanctioned 2)

IIIT Kottayam’s Strategy to get highly paid jobs in IT Industry through Pre-Placement-Offer (PPO)



| | Coding: Languages | Coding: Solve Minimum 3000 DS Problems out of 4000 | Coding Projects: Minimum 4 | Coding: Achievements | Certifications: Minimum 6 | Minimum 4 Internships |
|--------------|---|---|---|---|--|---|
| Semester I | C / C++ HTML, CSS, XML, and JavaScript | Learn Data Structure (DS) related to Array, Strings, Structures, Stacks, Queues through C / C++ 200 / 4000 DS Problems | small project | | 1 certification course from Coursera, Udemy, Ed tech, Swayam, NPTEL, Java, Oracle etc. | |
| Semester II | Java PHP | Data Structure I plus 600/4000 DS Problems | small project | | 1 certification course | Summer Internship after semester II |
| Semester III | Python | Data Structure II Design & Analysis of Algorithms plus 600/4000 DS Problems | Develop Software Project & upload to GitHub | Participate in Coding Competitions & Hackathons | 1 certification courses | Winter Internship after semester III |
| Semester IV | | Data Structure III plus 600/4000 DS Problems | Develop Software Project & upload to GitHub | Coding Competitions & Hackathons | 1 certification courses | Summer Internship after semester IV |
| Semester V | | Solve on your own 500/4000 DS Problems | Develop Software Project & upload to GitHub | Coding Competitions & Hackathons | 1 certification courses | Winter Internship after semester V |
| Semester VI | | Solve on your own 500/4000 DS Problems | Develop Software Project & upload to GitHub | Coding Competitions & Hackathons | 1 certification courses | Summer Internship after semester VI in Dream Company for Pre Placement Offer (PPO) with high salary |

Fig. 10: How to get Pre-Placement Offer (PPO) with very attractive pay package through Internships at Leading IT Companies

At a Glance Performance of IIIT Kottayam in the Last 5 Years (2019-24)

IIIT Kottayam has started in 2015. Since 2017, Prof. Ramakrishnan Mentor Director, and Dr Radhakrishnan Mentor Registrar (now Registrar of IIIT Kottayam) had taken the charge. They had taken a lot of effort and created a strong foundation for IIIT Kottayam. Thus, just within 2 years, in Jan 2019, the IIIT Kottayam could be shifted from a temporary campus at Trivandrum to a Permanent Campus near Pala. The Permanent IIIT Campus was inaugurated on 20th February 2019 in the hands of Hon. Prakash Javadekar, then Union Minister of Human Resource Development (MHRD). In 2019, out of 20 IIITs, only 3 IIITs in India could do so. It's great achievement and very important milestone for IIIT Kottayam. This has provided a strong foundation for establishing one of the best IIITs in India. Credit goes to the mentor Director and Registrar.

Just after the inauguration of IIIT Kottayam permanent campus, Prof. Rajiv Dharaskar joined as a Founder Director on 1st March 2019. After that Prof. Dharaskar, Dr. Radhakrishnan, and the entire IIIT Kottayam team worked day and night and could build one of the topmost IIITs in India. Let's see at a glance performance of **last 5 years** of IIIT Kottayam.



Fig. 11: Inauguration of IIIT Kottayam

At a Glance Performance of IIIT Kottayam in the Last 5 Years (2019-24)

| SN | Parameters | In 2019 | In 2024 | Comparison |
|---|---|----------------------|---|---|
| Finance | | | | |
| 1. | Financially Self Sustainable Institute | Partially | Become Fully financially self-sustainable institute. | Among the one of the first few IIITs in PPP mode in India, which could become financially Self-sustainable. |
| 2. | Yearly Budget | Around Rs. 7 Crore | Around Rs. 41 Crores | One of the highest in IIIT PPP mode |
| 3. | Funding Proposals | Initial phase | Total 485 proposals worth Rs. 4.36 billion (Rs. 436.29 Crores) | Highest among all IIITs |
| 4. | Ph.D. and Post-Doc Fellowships | Nil | Total 47: Our 43 PhD and 3 Post-Doc scholars got Fellowships from different funding agencies. | Highest among all IIITs in PPP mode. |
| Faculty, Staff and Students Strength | | | | |
| 5. | Number of Faculty Members | Only 7 | 70+ 10 Times Growth 18 IITs Computer Departments have less faculty members than Computer Department of IIIT Kottayam. | Highest among all IIITs in PPP mode. |
| 6. | Number of Non-Teaching and Supporting staff | Around 15 | 50+ including office, technical, non-teaching, supporting, medical and security staff (3 times more) | |
| 7. | Student Strength | 200 (only BTech) | 1700 including BTech, MTech, iMTech (BCA, MCA), PhD and Post Doc (8 times more) | Considering all Residential students (not day scholars) Highest among all IIITs in PPP mode. |
| 8. | MTech Students | Nil | 250+ from 200+ Leading IT Industries and Organizations | Highest among all IIITs in PPP mode. |
| Students Achievements | | | | |
| 9. | Campus Placement | Between 3 to 6 lakhs | In 2022, the highest packages offered to the students of B.Tech. final year are Rs. 58.93 Lakhs (one student) Rs. 45 Lakh (3 students) and Rs. 32 Lakhs (7 students) and the average package is Rs. 13.19 Lakhs. | One of the Highest among all IIITs in PPP mode. |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|-------------------------------|---|--------------------------------|---|---|
| 10. | Achievements in National & Global Coding / Programming Competitions, Hackathons, and Coding Ranks | Nil | 102 students got awards / prizes / ranks in national and global competitions. Just see http://www.iiitkottayam.ac.in/data/pdf/recruiterscorner.pdf | Highest among all IIITs in PPP mode. |
| 11. | Activities of Student's chapter | Movement initiated | Very active student's forums, cells, clubs. | |
| Construction Work | | | | |
| 12. | Constructions | In First Phase | Completed 2 nd Phase in Aug 2023. Already started 3 rd phase in 2022 without financial support from GOI i.e. with our own revenue generation. Started construction of 4 Buildings with the help of Internal Revenue Generation (IRG): <ul style="list-style-type: none"> • Two buildings (4 storied each) for 28 Faculty Quarters, • Single storied Hostel building for PhD scholars and • 5 storied 5th UG Hostel building Other construction work: <ul style="list-style-type: none"> • Open Gymnasium (completed) • Indore Gymnasium (completed) • Canteen with small huts | Only IIIT, which could start construction with IRG. |
| 13. | Lush Green Spectacular Campus | Initial state | One of the most spectacular, beautiful and lush green IIIT Campus in India. | Most spectacular campus in IIIT PPP mode. |
| Courses (from 1 to 25) | | | | |
| 14. | BTech | B.Tech. in CSE. | Now 4 BTech courses: CSE, ECE, Cyber Security, AI & Data Science | One of the Highest among all IIITs in PPP mode. |
| 15. | MTech courses | BTech-MS but No M.Tech. course | Total 8: Started <ul style="list-style-type: none"> • 4 BTech-MS • MTech in AI & Data Science, | One of the Highest among all IIITs in PPP mode. |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|-----|--|---------|--|---|
| | | | <ul style="list-style-type: none"> • MTech in Big Data & ML • MTech in Cyber Security • Integrated MTech with BCA and MCA <p>Admitted 222 MTech students from 194 Leading IT Industries & Organizations, which includes candidates with more than 10 years of IT industry experience.</p> | |
| 16. | Number of PhD programmes | 1 | 4 | |
| 17. | Number of Ph.D. scholars | 01 | 101+ Ph.D. research scholars, out of which few are from industries such as Cognizant, CDAC, ONGC, Skywalk Global Pvt Ltd | One of the Highest among all IIITs in PPP mode. |
| 18. | Number of Post Doc programmes | Nil | <p>4 programmes.</p> <p>First Post Doc scholar has joined at IIIT Kottayam in Aug 2022, with CM Kerala scholarship. Around 5 external candidates applied under various schemes.</p> <p>Second one completed Post Doc under TamilNadu Government Young Scientist Fellowship.</p> <p>Third one will join soon under MeitY - Visvesvaraya PhD Scheme.</p> | First IIIT in PPP mode. |
| 19. | Launch / Launching Few courses first time in India | Nil | <ul style="list-style-type: none"> • Among all CFTI in India, IIIT Kottayam is the first an only CFTI institute to launch BTech, in Cyber Security courses along with MTech, PhD and Post Doc in Cyber Security. • First time in India Started 6-year Unique | First CFTI (IIT/NIT/IIIT) |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|--------------------------------|---|-----------------------------|---|---|
| | | | course Integrated MTech in AI and Data Science with BCA and MCA after 12 th for Working Professionals with lowest fees structure. <ul style="list-style-type: none"> From next year, IIIT Kottayam will be the first institute to launch MTech in Data Science & FinTech. | |
| 20. | Certificate Courses | Nil | Many on variety of Advanced Topics | |
| Research | | | | |
| 21. | IIIT Kottayam's Cumulative Google Scholar h-index and citations | h-index: 8, citations: 1300 | h-index: 52 – 6 times Citations: 13687 – 10 times | One of the Best |
| 22. | Research | Around 100 research papers | Over 1000 research papers, In last 6 months (Oct 2022 to March 2023) presented/published 150 research papers, book chapters and books. | One of the Best |
| 23. | UG Research | Nil | 63 UG Research papers | One of the Highest among all IIITs in PPP mode. |
| 24. | Best Paper Awards | Nil | 18 best paper awards | One of the Highest among all IIITs in PPP mode. |
| 25. | Research Groups | Nil | Started 10 Research Groups with 400+ internal and external members. | One of the Highest among all IIITs in PPP mode. |
| 26. | Patents & Copyrights | Nil | 41 IPR - 38 Patents out of which 17 Granted plus 3 Copyrights | One of the Highest among all IIITs in PPP mode. |
| 27. | Interdisciplinary Research work and courses | Just initiated | Our faculty members are working on 90+ interdisciplinary research areas. | One of the Highest among all IIITs in PPP mode. |
| International Interface | | | | |
| 28. | International Linkages and Collaborations | With 4 countries | More than 48 Countries across the globe. Such as: Australia, Austria, Bahrain, Belgium, Brazil, Brunei, Canada, Chile, China, Denmark, Egypt, European Union (EU), Finland, | |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|---------------------------|--|----------|--|---|
| | | | France, Germany, Iran, Ireland, Italy, Japan, Kuwait, Luxembourg, Malaysia, Mexico, Netherlands, Norway, Oman, Pakistan and Bangladesh (via TUM Germany), Portugal, Qatar, Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, UAE (Abu Dhabi, Ajman, Dubai, Fujairah, Ras Al Khaimah, Sharjah and Umm Al Quwain), UK, USA | |
| 29. | International funding projects | Nil | Submitted or sanctioned more than 35 international collaborative research projects with 15 different countries. | One of the Highest among all IIITs in PPP mode. |
| 30. | International Conferences | Nil | Total 9 Organized 5 International IEEE Conference and Organizing 4 International Conferencves in 2024. | One of the Highest among all IIITs in PPP mode. |
| 31. | International Events | Nil | 16 Events | One of the Highest among all IIITs in PPP mode. |
| 32. | International students | Nil | 45 under DASA | |
| 33. | International Speakers invited to various events | 3 | 42 | |
| 34. | MOUs | Around 5 | Total 37 and few more are in pipeline. Just see http://www.iiitkottayam.ac.in/data/pdf/recruiterscorner.pdf Live MOUs with top-ranking foreign universities and industries from Austria, Germany, Canada, Belgium, Taiwan, Norway, etc. MoU for faculty and student exchange with TUM, Germany. | One of the Highest among all IIITs in PPP mode. |
| Industry Interface | | | | |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|-----|---|---|---|---|
| 35. | Industry Symposium | Few | Many events. Just see http://www.iiitkottayam.ac.in/data/pdf/recruiterscorner.pdf | |
| 36. | Industry supported labs | Nil | Starting 3 labs are in process such as DADB, 5G, Drone | |
| 37. | Adjunct faculty members from an industry | 2 | 4 | |
| 38. | Student Industry Internships | Around 50 | More than 700 17 international internships | |
| 39. | Industry Experts as a Guest speakers | Started in 2017 | Till date invited total 83 industry speakers. | One of the Highest among all IIITs in PPP mode. |
| 40. | Incubation Centres and Innovation culture | Got Prestigious NITI Aayog's ATAL Incubation Centre in 2018 | <p>Few more projects:</p> <ul style="list-style-type: none"> • In 2019, got another incubation centre namely, MSME Incubation Centre. • IIIT Kottayam also got Seed Fund scheme from Start-up India of Rs. 2 Crore. • Started Innovation Center in 2022 <p>Similarly, 6 more proposals for Incubation Centers are in pipeline such as</p> <ul style="list-style-type: none"> • “New Generation IEDC incubation Centre” to NSTEDB, DST (2.5 Crores funding) • “Technical Business Incubation TBC” to DST (Rs. 5 Crores funding) • Social Good Product Developments using High-End Technologies from DST (Rs. 18.70 Crores funding) • IP Facilitation Centre for MSME (Rs. 65 Lakhs funding) • STI Hub to Improve the Socio-economic Status of ST Community in Mananthavady Block (Rs. 2.99 Crores funding) | One of the Highest among all IIITs in PPP mode. |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|-----|------------------|---------|--|------------|
| | | | <ul style="list-style-type: none"> • Raise Project Establishing STI Hubs for ST Communities in Attappadi Taluk of Palakkad District (Rs. 3.6 Crores funding) • In addition to this, the IIIT Kottayam has established MoUs with international incubation centres and associated mentors to boost the innovation-related activities across the Globe such as Build, Austria and DareToStart Germany, University of Innsbruck, Austria, University of Klagenfurt, Austria, University of Mainz, Germany, Volkswagen Germany, Microsoft USA, Reliance Industries Nextgen, RRR-GigJobs and so on. <p>IIIT Kottayam has organized major events related to Innovation such as</p> <ul style="list-style-type: none"> • Indo-European Hackathon - IEE-Hacks2020, • iDEX 2019, 2020, 2021, • Pitching Sessions with Reliance Nextgen • Hackathon Event jointly with Rolta Foundation • Product expo and Product developments via. DST-NIMAT 2018, 2019, 2020 <p>Attracted over 50 mentors across the globe etc.</p> | |
| 41. | 1 Credit courses | Nil | By <ul style="list-style-type: none"> • TCS, | |

| SN | Parameters | In 2019 | In 2024 | Comparison |
|-----|--|-----------------|--|--------------------------------------|
| | | | <ul style="list-style-type: none"> • Google • TUM Germany (every year) • NIT Director • British Council Scheme with Cardiff University from 2022 • British Council Scheme with University of Glasgow UK from 2022 | |
| 42. | Certification courses done by the students from Coursera, EdTech, NPTEL etc. | Around 50 | More than 600 | |
| 43. | Networking of People and developing a knowledge-based society | Started in 2017 | Connected to thousands of persons through Hundreds of events. | Highest among all IIITs in PPP mode. |

Table 55: At a Glance Performance of IIIT Kottayam in the Last 5 Years (2019-24)

IIIT Kottayam has started getting recognition. The Careers 360 has declared IIIT Kottayam as a **One of the Best Engineering Institutes in India.**

