# IIIT Kottayam - Topmost IIIT 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 Industy experience).

Contents

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: 103 (worth 27.04 Crores)
2. Funding Proposals under various stages of evaluation & considerations: 206 (worth 347.21 Crores)

Total: **309** Projects worth **Rs. 374.25 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 **487** (i.e. 309 + 178) and total project cost is **Rs. 437.19 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-zwQOjw

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. Victer Paul	1. Webinar on "Placement Tips and Tricks Webinar" by Aravind Warrier, HR Drector 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 Warrier, 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. Victer Paul	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. Victer Paul	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.

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			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. Victer Paul	2021 – 2022
			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).
			2022-2023
			1. Organized "Info Session- GDSC IIITK" by Aditi Shukla, Chapter Lead on 20th August 2022

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			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. Victer Paul	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.

3. 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.

4. 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.

5. 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 students qualified in Google Summer of Coding to Create a New "System" panel into the GNOME Settings under the Mentorship of Felipe Borges and to make GNOME platform demos for Workbench has been accepted by Org GNOME Foundation with a stipend of $3000 each	Mr Gotam Gorabh (20bcs173) Mr Akshay Warrier (21bec8)
3.	A team of students bagged 1st prize in the prestigious Smart India Hackathon 2022 with a cash award of Rs. 1 Lakh.	Team Lead: Aaditi (2021BEC0036)
4.	A PhD scholar participated in Vimarsh National 5G Hackathon PS2 organized by MHA, BPR&D and TCOE India and received 4 lakh support, including 1.5 lakh prize money from the Home Secretary of India at the event held at the Ministry of Home Affairs (MHA), New Delhi	Mr Anuroop K B

5.	Two teams of students bagged 1st prize in the 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 Warrier (Lead) 2. Mr. Ganesh Nathan 3. Mr. Niranjan Nagumalli 4. Mr.Rohith Ninan 5. Ms.Samhitha Bharthulwar 6. Mr. Sai Harvin Kusumaraju
6.	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
7.	A team of students stood 2nd all over India in prestigious Smart India Hackathon 2020 with a cash award of Rs. 75,000. Problem Statement: IC469	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
8.	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
9.	Three teams of students were shortlisted for the Grand Finale in the prestigious Smart India Hackathon 2023.	Team Lead 1: Ujjwal Jain (2021BCS0059) Team 2: Omi Vaish (2021BCS0090) Team 3: Debojit Guha

10.	A student won the Google SWE Internship 2024 opportunity from Google Inc. in March 2024	Yash Mawalkar (2021BEC0038)
11.	Two team from IIITK have won the 1st and 2nd runner prizes in the Microservices Hackathon held on 25th August organized by NeST Digital Academy |	1st 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
12.	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
13.	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
14.	A student has completed the OpenSource Project contribution to the Knowledge Sharing Platform as FOSS Overflow - "Winter of Code" Contributor organized by IIT Bhilai from Jan 24 to Feb 24.	Gunj Joshi 2022BCS0024
15.	A team of students emerged as Runners-Up in Game Forge conducted by Petrichor'24 of IIT Palakkad	S. Bharath Krishnan 2022BCS0163 Ankur Majumdar 2022BCD0046 Gowrish I 2022BCS0155
16.	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
17.	A team of students developed a game SPACE SLIME INVASION and won "The Judges' Favourite" in the "Stellaris" Game Jam conducted by GameDevUtopia and Defold Foundations in Feb 2024	Anush Bundel 2023BCS0005
18.	A student is selected for the final round in Game Development World Championship 2020	Mr. Sameer Ahmed
19.	A student has won the MIT Covid19 Challenge : India Turning the Tide with a cash award of 500$	Mr. Adityavardhan AVS
20.	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
21.	A team was qualified for the final round in the Smart India Hackathon 2022 organized by the Ministry of Education	Aditya Menon, Nikhil Menon, K Sumanth, Gouri Nair & Anoushka Sudhi
22.	A student emerged as a Top Performer and Winner CellStrat AI Lab- Hands-on Hackathon June 2019, Bangalore	Mr. Vishal Shivakumar Kanakamamidi
23.	Total 4 teams selected within the top 25 ranks in National-level ACM-ICPC Asia Chennai Regional Contest 2019 Hosted at HIST, 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
24.	In HackerEarth July Circuits, 2019, two student secured rank within top 200 out of 10000 participants globally.	Mr. Prabal Kalia Mr. Anshuman Mishra
25.	A 1st year student ranked 40 globally amongst 3000 participants in the Codechef January Cook-off 2020.	Mr. Seshathri
26.	A student was selected among the top 50 candidates for the ZS Data Science Challenge 2019	Mr. Mannem Srinivas (2016 batch)
27.	A student achieved a badge of AICS 2023 CyberXDefense in the event Arab International Cybersecurity Summit, National Cyber Security Center, Bahrain in December, 2023	Nevlin Noble (2020BCS0028)
28.	Many students qualified for CodeVita 2020, including 1st year students	1. Mr.Yarlagadda Sai Bhavadeesh 2. Mr.Aditya Mutharia
29.	Two teams secured rank within 25 among the 200+ teams participated in NIT Delhi Reverse Coding Challenge, 2019	1. Mr. Pushpam Saxena
30.	A student achieved World Rank 3 in January Code Challenge 2020 on HackerEarth	Mr. Prabal Kalia
31.	Winner in Top-5 projects at IEEE Codeathon, a Hackathon organized by IEEE North Cap University India	A V S Aditya Vardhan
32.	A student holds 5 CSES world records for the fastest codes and code-golf.	Mr. Prabal Kalia
33.	A student was selected for LiFT Scholarship 2020 under Blockchain Blockbusters given by Linux Foundation	Mr. Utkarsh Trivedi
34.	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
35.	A team has won 51st rank among 5000+ participants in Classify the Lunar Rock: HackerEarth Data Science Competition, October 2019.	Mr. Vishal Shivakumar Kanakamamidi
36.	4th rank in MLH Local Hack Day organized by Major League Hacking (MLH) in April 2021	Rishabh Srivastava

37.	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
38.	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
39.	Most of the students have cleared the first round of Google CodeJam 2020, Kick Start 2020, Hashcode 2020 and Facebook HackerCup.	Google Hash Code 2020 Rank–4234: Aashish Sharma, Ashwin Nair Rishabh Anand, Anshu Kumar Rank–6724: Srivatsan Harish, Deshaboina Yashwanth, Lakshin Kumar, Sai Tejashwin Rank–7171: Pushpam Saxena, Nikil Ghanghor, Kaushal Samant, Dhurjati Vats Rank–7732: Kishore Prasad, Dheenadhayalan, Seshathri Rank-8005: Alwin Sebastian, Nevin John Selby, Shriganesh Bhide, Tanishq Jain Rank-8264: Venati Prudhvi, Saikowsik Vellaturi, Sri Rama Varshith Potharlanka Rank-8385: Kumar Sunny, Shashank Singh Abhijith S Babu, Beri Bhanu Vishnu, Vardhan Reddy Rank-9107: Ruchika Sreedhar Google Kick Start 2020 Rank 2284 (Round E) - Ashwin Nair Rank 3619 (Round D) - Ashwin Nair CodeJam 2020 Mr. Som Sagar
40.	A student has won 3rd Place in Co<div/>, a Freshworks App Hackathon organized by Freshworks in June 2020	Mr. S J Sameer Ahmed
41.	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
42.	Students have qualified for the final round in Inter IIIT coding competitions.	
43.	Selected for Grand Finale Toycathon, 2021 Government of India	Rahul Barnwal
44.	First Position in CIENCIA 2021 organized by IEEE SB IIIT Kottayam	Rahul Barnwal
45.	3rd Position in Fastest Fingers organized by GFG IIIT Kottayam Student Chapter	Rahul Barnwal

46.	Granted 1 Year access to Param-YUVA 2 Supercomputer by CDAC for research activities	Prasanna Devadiga
47.		
48.	Project Development in Version Beta 3.0 organized by MANIT	AVS Adityavardhan, J V Sathya Krishna
49.	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
50.	Finalists in Giftabled Hackathon	A V S Adityavardhan, J V Sathya Krishna, Yaddanapudi Vinay, Yashwanth Deshaboina
51.	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 |
52.	Secured 1st rank in GNIDOC(reverse coding contest) during TECHSEMBLE organised by IEEE Student Branch of IIIT Kottayam in association with IEEE Kerala	Seshathri
53.	Secured 1st rank in GNIDOC (reverse coding contest) during TECHSEMBLE	Seshathri
54.	Qualified for Facebook Hackercup round 1 2020. Qualified for Codejam round 1 2020 and 2021.	Seshathri
55.	Secured Global Rank 1066 in Google Code Jam 2021	Aditya Mutharia
56.	Secured a global rank of 6307 (National Rank: 2174) in Google Hash Code 2021	Amritansh Singh
57.	Secured rank 2 in the event COD-IT ACM Student Chapter organized Don Bosco Institute of Technology, Mumbai by in July 2020	Ashish Gusain
58.	Secured rank 15 in the event Janatahack: Cross-sell Prediction organized Analytics Vidhya by in September 2020	Ashish Gusain
59.	Secured rank 9 in the event HackerEarth Machine Learning challenge: Adopt a buddy organized by HackerEarth in July 2020	Ashish Gusain
60.	Secured Second prize at Web Hacks organised by GFG student chapter, IIIT Kottayam	Shashank Kumar Srivastava
61.	Secured a global rank of 6495 in Google Hash Code 2021 conducted in Feb 2021	Rishabh Srivastava
62.	Secured a global rank of 5091 in Google Hash Code 2021	Cyril Kunjumon
63.	Student got National Rank 138 in CodingNinjas CodeKaze coding event Round 2. Total participants are more than 10K.	Seshathri S
64.	Secured 1st Position in HackoonaMata Hackathon conducted by IIIT Kottayam	Som Sagar
65.	Secured Second prize at Idea Pitching organized by IEEE CIENCIA 2021	Shashank Kumar Srivastava
66.	Secured First prize at Web Hacks organised by GFG student chapter, IIIT Kottayam	Cyril Kunjumon

67.	Secured a global rank of 959 in Google Hash Code 2021	Aryan Yadav, Hrishabh Joshi, Prabal Kalia, Ritik
68.	Secured a global rank of 1066 in Google Code Jam 2021	Aditya Mutharia
69.	A student participated in the hackathon Internathon 6.0 conducted by HarbourX and shortlisted for the Internship offer.	Bhanu Krishna Prasad Vipparla
70.	A student participated in the Hackathon Internathon 6.0 conducted by HarbourX and emerged among the 8 shortlisted candidates from 154 participants.	Margani Rohith
71.	Participated in the Hackathon MLH: Sunhacks 2021 and awarded Best Hardware Hack	Adithyadev Mattada
72.	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
73.	Student participated in Facebook Hackercup 2021 and Qualified for Round-2	Seshathri S
74.	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
75.	Student participated in Ode 2 Code 2021 and Qualified for Round 3	Seshathri S
76.	Secured Global Rank of 761 in Codechef May Long Challenge 2021	Divyansh Panwar
77.	Secured 2nd Rank in the event "Guess the Output" organized by GeeksForGeeks IIIT Kottayam	Divyansh Panwar
78.	Student participated in Amazon ML Challenge 2021 and secured AIR 16th team rank out of 3000+ teams	Nikhil Kumar Ghanghor
79.	Student participated in Codathon'21, a yearly inter NIT coding competition and got AIR of 126th	Shashank Singh
80.	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
81.	Student won 2nd place in DHRUVA- Reverse Coding	Vishwesh Anantha Krishnan
82.	Student participated in DEFINE'21 - STRANGER TWINS for coding organized by RSET and got 3rd place	Vishwesh Anantha Krishnan
83.	Student got 1st place in Digital Kala Utsav, a digital art-making competition for Independence Day	Vishwesh Anantha Krishnan
84.	Student participated DHRUVA OF (CURRENTS 21) conducted by NIT Trichy shortlisted for the final round 21 out of 162 teams.	Rajeev Vesalapu
85.	Student participated Hackoona Matata event conducted by IIIT Kottayam and won Best Fresh Project.	Kotte Saandeep
86.	Student got shortlisted at Women Engineer (WE) Program TalentSprint and supported by Google awarded with Internship Opportunity	Pogu Kusuma Sree
87.	Student participated at Google Hashcode in February 2022 and got 4906 global ranking.	Kratik Bohra
88.	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

89.	A student secured AIR 115 in the Inter-NIT Competition – Codathon 2022 organized by NIT Bhopal in Feb 2022	Divyansh Panwar
90.	A student secured AIR 80 in the Inter-NIT Competition – Codathon 2022 organized by NIT Bhopal in Feb 2022	Akarsh Pandey
91.	Student participated at Google Hashcode in February 2022 and got 4789 global ranking.	Shashank Kumar Srivastava
92.	A student finished in Top 2%le in MLH Local Hack Day organized by MLH in Jan 2022	Ganesh Nathan
93.	A student secured AIR 79 in GOCO 2022 coding event organized by CodeChef in Feb 2022	Anurag Kumar
94.	Student obtained Global Rank of 6829 in May Long One 2022 coding event organized by CodeChef in May 2022	Anurag Kumar
95.	A student got selected for Microsoft Engage Mentorship Program among 400 out of 50K applicants.	J V Sathya Krishna
96.	Student got shortlisted at TalentSprint WE Program, Supported by Google awarded with Rs. 1 Lakh and training Opportunity	Arya Suneesh
97.	Student got in the top 1% of all hackers of MLH Local Hack Day : Build 2022 organized by MLH in Jan 2022	Arya Suneesh
98.	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
99.	A student secured 2nd place in COD conducted during ADAVYA by Trendles Club, IIITK in Feb 2022	Rajvardhan Das
100.	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
101.	AutoJoomer app for Android in the contest organized by IIITK	Aditya Menon, Manas Gupta, Om Ghumare and more.
102.	Won the JAMSHACK23, GameDev Track NIT-A Hackathon organized by NIT Agartala, Jun 2023	A. Bala Murali
103.	Secured 3rd Position in PARICHARA x GLITCHED , PICT GameJam event by Pune Institute of Computer Technology (PICT) by May 2023	A. Bala Murali
104.	A student received Runner up in CSS Battle in the event Hack The Chain Hackathon organized by IIIT Kota in March 2022.	Gunj Joshi
105.	A student from IIITK was 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
106.	A student got All India Rank 12 in CodeKaze 2023 round-2, a National-level coding event organized by Codingninjas.	Gunj Joshi
107.	One of the team was among the top teams called for Onsite Demonstration in RAKATHON 2.0, November 2019	Mr. Vishal Shivakumar Kanakamamidi Mr. Rishav Jaiswal Ms. Mattaparti Satya Bhargavi

108.	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

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	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**: • 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) o *Ciencia – Quiz* o *Ciencia - Talk Tech* o *Ciencia – Debate* o *Ciencia - Idea Pitching* o *Ciencia - Article Writing* • 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:** • 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 *Best Mentor Award* for the topic 'Machine Learning'. • Student members participated in various events conducted by Student Branches of other institutes and bagged prizes.

SN	Students Technical Chapters / Forums / Clubs	Faculty In-charge	List of Activities Carried Out Under Each Student's Chapters
			• 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 *Chair's meet, Branch Counselor's meet, and general body meetings* 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** • 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, IEEE Bangalore Section, SAC Ambassador, IEEE Asia-Pacific R10 • CV building for jobs and internships, Speaker: Mr. Aravind Warrier, 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-Stationart 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	1. 24th October 2018 - Workshop on "Design Thinking" 2. 08th March 2019 - ACM Women in Computing 3. Membership Drive Webinars: 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

SN	Students Technical Chapters / Forums / Clubs	Faculty In-charge	List of Activities Carried Out Under Each Student's Chapters

			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
			     o Fintech In Various Business Functions (Applications beyond banking)
			     o 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 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	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. Mulsemedia 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 Warrier, HR Director at Rapid Value 16. Engineering Roadmap & Introduction to CPP- Mr. Mohan Roy, Mr. Devanshu Monga, GeeksforGeeks Mentor, GeeksforGeeks Campus Manager

SN	Students Technical Chapters / Forums / Clubs	Faculty In-charge	List of Activities Carried Out Under Each Student's Chapters
			17. Industry Expectations from Engineering Students- Mr. Robin Tommy, TCS Rapid Labs Head 18. CV Building for Jobs and Internships- Aravind Warrier, 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. Victer Paul	**2021-2022**
			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)
			4. Technical and eye-opener session on "How I cracked media.net?" by Mr. Prabal Kalia, Final Year student of IIIT Kottayam
			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.
			
			2022 – 2023
			6. Technical Session "Introduction to Coder's Club and Competitive Programming" by Cyril Kunjumon.
			7. Organized webinars on the topics
			   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
			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.
			9. Organized webinars on the topics
			   o "Introduction to Quantum Computing" by student Niranjan Nagumalli (2021 Batch),
			   o "Let's Learn about Modulo" by Nishith Baravkar (2020 Batch),
			   o "NLP Transforms" by Aditya Menon (2020 Batch),

SN	Students Technical Chapters / Forums / Clubs	Faculty In-charge	List of Activities Carried Out Under Each Student's Chapters
			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). 10. Conducted Talk Sessions for Internship with Aryan Yadav (2019 Batch), Nishith Baravkar and Harsh Mittal (2020 Batch). 11. Organized 48-Hour Open Ended Beginner Friendly Intra College Hackathon "Hacktivity". 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. 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. 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 13th 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.	Dr. Bibal Benifa

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. PHP MYSQL Web site with login system. 3. Rock and scissors game using web development.	
6.	Rahul Kumar Singh	2	1. Socal 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, 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	Dr. Chitra MT, Dr. J. V. Bibal Benifa, Dr. Manjith 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.	Self-Project
			2. IOT based gas recognition system -IOT system for detecting gas and make alarms to ring.	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

SN	Name of Student	Number of projects done	Title of the Projects, which are not part of the curriculum	Name of the Supervisor(s)
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 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.	Self-Project
			2. Online voting system -Online voting system as part of the college election.	Dr. Divya Sindhu Lekha
			3. Coupon generator for Shubamastu shopping mall	Team project
			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
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.	Dr. Divya Sindhu Lekha
			2. Chatbot- Developed Chatbot in Google's Dialogflow platform.	Self-Project
			3. Fighting game (javascript)	Self-Project
22.	Nikhil Kumar Ghanghor		Offensive Language Identification in Dravidian Languages	Self-Project
			Troll Memes Classification-Used various unimodal models to classify the memes into troll/not troll which were Resnet, Inception, BERT, XL, Roberta, Albert.	Self-Project
			Hope Speech Detection in Dravidian Languages	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. Victer Paul
25.	Vishnu Narayanan A	1	Quiz platform	Dr. Victer 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)
26.	Cyril Kunjumon	2	1. Food Delivery App 2. Image Editor and Facial Recognition GUI using Python	Dr. Victer Paul
27.	Som Sagar	1	Image editor with real-time facial recognition GUI using python	Dr. Victer Paul
28.	Saikowsik Vellaturi	1	Image editor with real-time facial recognition GUI	Dr. Victer 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. Victer 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. Victer Paul
31.	Syed Faiz Hasan	3	1. Heart Disease Predictor Website 2. PenIt (Blog Website), 3. Enlace (Cultural Fest Website) 4. Alchemy- Alchemy is full-stack MERN project which allows users to add, delete, and like posts. It is provided with an authentication system along with Google Sign In. 5. 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.	Ananthakrishnan 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. Victer 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. Victer 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	Self-Project

SN	Name of Student	Number of projects done	Title of the Projects, which are not part of the curriculum	Name of the Supervisor(s)
			barriers to slow down Viruses by typing the given code.	
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	1. Meme generation using GPT-3 2. Neural machine translation from English to Hindi using encoder-decoder networks with attention 3. Chess Engine	Self-Project
39.	Nikhil Menon	2	Tic-Tac-Toe Game	Dr. Victer Paul
			Snake-Game- A simple snake game made on Canvas on the Web.	Self -Project
List of Projects (2020 Batch)				
40.	Raunak Kumar Singh	1	DSA-SHEET	Self-Project
41.	Nikhil Menon	3	• Manthan-Radicalyzer, • Valentina, • Super-BOT	Self-Project
42.	Jasmin Bheda	1	DSA Sheet	Self-Project
43.	Govind Nair V	5	• Digtal 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. Nilotpal 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/
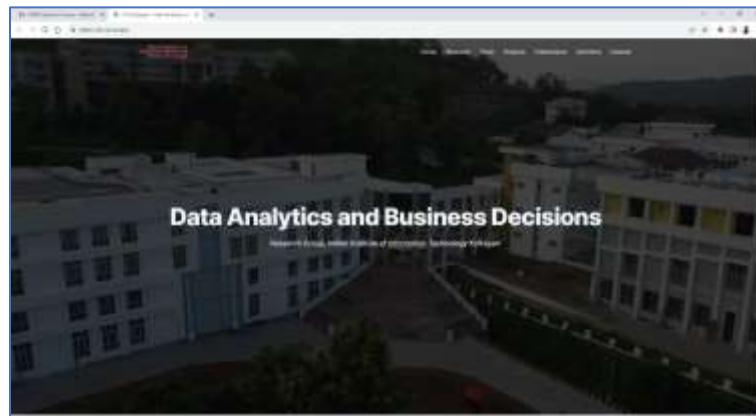
Research Group 07: Smart Wireless Inter-Networking Research Group
http://swing.iiitkottayam.ac.in/

Research Group 08: I^2CS-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 Informaticss 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 Warrier	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. Victer 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 Warrier, 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. Victer Paul, Dr. Keshab Nath, Dr. Suchitra, Dr. Vengadeshwaran	38	16	61

9.	I^2CS- 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://iiotrg.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 Offenberg, 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
					• 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	1. 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) 2. 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). 3. Bhanu Chander, Chinju, Lekha, "Trust-based AI models with robustness and explainability", ACM Computing Surveys (Submitted) 4. Sheema M, Arun C. Jose, J. Sahoo, R. Maleikan, "PRIMϵ: 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://iotcloud.iiitkottayam.ac.in/	Dr. Shajulin, Dr. Gautam Mali, Dr. Vengadeswaran	Nov-Dec 2022	Events	1. 3-day offline workshop on IoT Data Analytics by Mr. Satyadeep Behera on 8-12 Nov 2022 2. 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
					IEEE Explore program" by Mr. Nanda Lal T. S. EBSCO Information Services New Delhi on 24 Nov 2022 3. Schedule Event: Challenge13@IoTCloud in the month of March 2023
				Innovation	Three products were demonstrated by students
				Funding Proposals	1. 11 project proposals submitted by students of Rs. 15 Lakh each 2. 3 Funding proposals submitted by faculty group members 3. Funding proposal "Energy Efficient IoT Application" worth Rs. 20.65 Lakhs submitted by Dr. Shajulin 4. One funding proposal has been submitted by Dr. Vengadeswaran S.
			Jan-Feb 2023		
4.	Computational Engineering and Data Modelling Research Group http://cedm.iiitkottayam.ac.in/home.php	Dr. J. Sahoo, Dr. Mirza Ghalib, Dr. Nandini Warrier, Dr. Manu, Dr. Selvi, Dr. Cinu, Dr. Lidiya, Dr. Sivaiah, Dr. S. Joshi	Nov-Dec 2022	Funding Proposals Submitted	1. Submitted a proposal on Computational Analysis of Kathakali Mudras to Kerala State Council for Science, Technology and Environment (KSCSTE), Rs. 18,00,800/- 2. Submitted a proposal on Semantics of Kathakali Mudras to Indian Council for Social Science Research (ICSSR), Rs 4,5000/-
				Research Papers Submitted / Published	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). 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) 3. Bhalaji Kharthik K S, Sikha O K, Selvi C titled"Crack Detection Using Transfer Learning andDeep Feature-Enabled ML model: AComparative Study" submitted to Cluster Computing 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

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, "FMGNR: 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. Victer Paul, Dr. Divya, Dr. Christina Joseph, Dr. Lincy, Dr. John Paul Martin	Nov-Dec 2022	Sanctioned Funding Proposals	Dr. Victer 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

					b. Webinar #2 on "AI for Social Good-Case Studies and Reflections", Ms. Tanuja Ganu, Microsoft Research
					3. Webinar Series on "AI-Driven Big Data Analytics"
					  a. Webinar #1 on "Big Data Quality to the performance of Machine Learning", Dr. Junhua Ding, University of North Texas
					  b. Webinar #2 on "Algorithmic Government: Concepts and Research Trends", Dr. Rajan Gupta, Analyttica Datalab
					  c. Webinar #3 on "Deep Learning for Medical Image Analysis", Dr. Mohammed Al-masni, Yonsei University, Seoul, South Korea
					  d. Webinar #4 on "Large Scale Distributed Graph Processing: Recent developments and challenges", Dr. T. Ramalingeswara Rao, TCS Hyderabad
					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.

				Expert Talks by group members	1. Dr. Ebin Deni Raj delivered a talk at IIT Palakkad Technology Ihub foundation on business opportunities for prospective entrepreneurs in AI/ML 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. 3. Dr. Ebin Deni Raj delivered an invited talk on Machine Learning Design Patterns organized by IEEE Malabar Section.
				Competitions / Hackathons	Mr. Anandha Kailash (M.Tech AI and Data Science) winner of Blue Yonder Innovation Hackathon
				Consultancy Work	Manorama Horizon • 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	1. Title - Post-hoc Interpretability: Review on New Frontiers of Interpretable AI" accepted in Distributed Computing and Machine Learning (ICADCML- 2023), Proceedings 2. "Tabular Data Interpretation on Covid-19 Through Explainable Machine Learning" Submitted to ICISC 2023

S N	Research Group	Head of Research Group & group members	Year & Months	Research & Innovation Activities	Details
				conference/journal	3. Paper title- Improved Restoration of Underwater Images with Color Correction Transform and Dark Channel Prior 4. Paper Title- Explainability in NLP A Comprehensive Research Study to improve fairness and transparency 5. Paper Title- Investigation on Visual Explanation for Better Fairness and Transparency using Various Neural Network Architectures 6. Paper Title- Table Extraction from Single Page Templatic Document using Faster R-CNN 7. Paper Title- Privacy preserving Federated Learning framework for IoMT based big data analysis using edge Computing
			Jan-Feb 2023		
			March-April 2023		
7.	I^2CS-Intelligent Integrated Circuits and Systems Research Group http://i2cs.iiitkottayam.ac.in/index.php#people	**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	1. 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) 2. 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)	Domain: FPGA based system Design 1. 36th IEEE International Conference on VLSI Design (VLSID), Hyderabad, Jan 2023 2. 19th IEEE International Conference INDICON, Kochi, November 2022 3. SCI Journal (Under Review) 4. 56th IEEE Int'l Symposium on Circuits and Systems (ISCAS), California, USA (Under Review) 5. Scopus Indexed Book Chapter (Accepted) Domain: Hardware Security 6. 8th IEEE Int'l Symposium on Smart Electronic Systems (iSES), December 2022 7. UDT, 36th IEEE VLSI Design Conference, Hyderabad, Jan 2023 8. Scopus Journal (Under Review) Domain: Brain-Computer Interface

S N	Research Group	Head of Research Group & group members	Year & Months	Research & Innovation Activities	Details
					9. 11th IEEE International Conference on Embedded Systems Devices and Computing (ESDC), 2023 (Under Review) Domain: Wireless Communication 10. International Conference paper submitted
				UG Student's Activities	1. Smart India Hackathon Finalist - Rahul Barnwal 2. IEEE RFID Council Embedded Challenge - Final round going on for two teams from I2CS ○ (Team 1: Rahul Barnwal ○ Team 2: Abhinav K, Desam Nagi Reddy, Pujari Umesh, B. Sravani, Adityadev) 3. KSCSTE TECHFEST Finalist - Rishabh Srivastava, Aditi Shukla 4. Shortlisted for L & T Technology Services TECHgium 6th Edition - Rahul Barnwal 5. UG Intern, Vishnu Bajjuri presented a research paper at 8th IEEE iSES, December 2022.
				MoU and Research Collaborations	1. MoU with CDAC Trivandrum for various research activities and internships 2. Research Collaboration with Vaidyaratnam Ayurveda Research Institute, Thrissur (Area: AI/ ML/ Image Processing) 3. Research collaborations with various academic Institutions (University of Florida USA, IIT Madras, Newcastle University UK, CUSAT, IISc Bangalore, NIT Trichy, IIITDM K)
				Events conducted	1. Webinar on "History of Microelectronics and Future Scope", Coordinators: Dr. Santhos Kumar & Dr. Kala S 2. Webinar on "Adaptive Signal Processing", Coordinators: Dr. Santhos Kumar & Dr. Kala S 3. SERB sponsored workshop on Research Writing Coordinator: Dr. Ananth A, (Fund Sanctioned:5 Lakhs) 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
				Talks Delivered	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

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S N	Research Group	Head of Research Group & group members	Year & Months	Research & Innovation Activities	Details
					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	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		• 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. Victer 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, Nineth 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-chainfor 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.iiitkottayam.ac.in/	Dr. Divya Sindhu Lekha, Dr. Dhanya M V, Dr. Ebin Deni Raj, Dr. Christina Joseph, Dr. Keshab Nath, Dr. Nandini Warrier	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
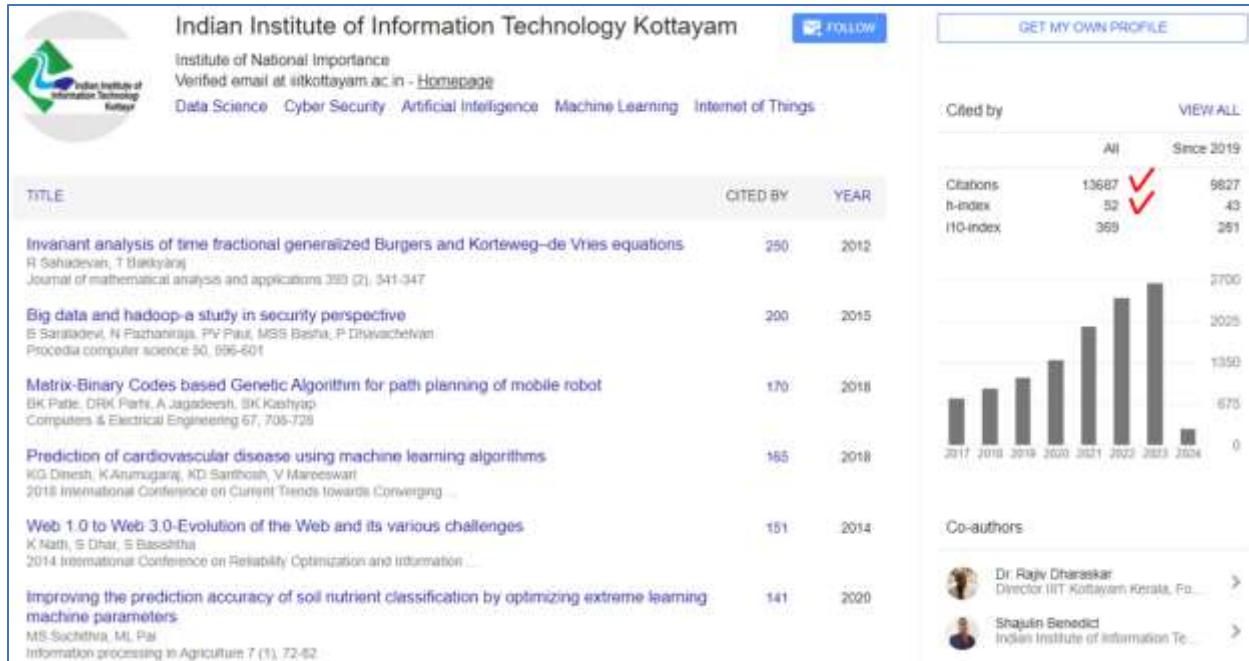
Fig. 01: Google Scholar h-index of IIIT Kottayam is 53 with 14904 citations

https://scholar.google.com/citations?hl=en&view_op=list_works&authuser=1&gmla=AJsN-F6yqwRyTr0tzdul2P2RyuZ0BIHUEqiTdn7nSZBNBav14SM6pHtfLs1TJsEq7XZyZI3kZslrQU02ntMxGf_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 Warrier	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. Victer 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
34.	Unisys India Pvt. Limited	Fathima Nihla Latheef	Jan 2023	Dr. Rubell Marion Lincy G
35.	DST – WISE KIRAN	Neethu C T	Jan 2024	Dr. Lidiya Lilly Thampi Dr. Leena Mary (Co-Guide)
Ph.D. Fellowships for Specific Purpose – Small Incentives				
36.	WISE by Quest Global (around Rs. 50 K total)		March 2024	
37.	WISE by Quest Global (around Rs. 50 K total)		March 2024	
38.	ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total)	Ms. Sheba Elizabeth Thomas	April 2024	Dr. Rubell Marion Lincy
39.	ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total)	Ms. Ashly Ann Jo	April 2024	Dr. Ebin Deni Raj
40.	ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total)	Ms. Amrita Kumari	April 2024	Dr. Manu Madhavan
41.	ACM Anveshan Setu Fellowship 2024 (around Rs. 20 K total)	Mr. Payala Krishnanjaneyulu	April 2024	Dr. Koppala Guraviah
External Ph.D. Scholar Fellowship				
42.	MeitY - Visvesvaraya PhD Scheme		March 2024	
43.	MeitY - Visvesvaraya PhD Scheme		March 2024	
Post-Doc Fellowships				
44.	Chief Minister's Nava Kerala Post-Doctoral Fellowship	Dr. Ansal K A	2022	Dr. Ragesh G K
45.	TamilNadu Government Young Scientist Fellowship	Dr. B. Hemalatha	2023	Dr. J. V. Bibal Benifa
46.	MeitY - Visvesvaraya PhD Scheme		2024	
Ph.D. Scholar fellowship for a Visit to a Foreign Country				
47.	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
48.	University of Agder, Norway.	Akarsh K. Nair	June 2023 to Feb 2024	Dr. Sahoo
Faculty Research Fellowship				
49.	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 Kottyam , 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=32Z2FEMKxl0	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

SN	UG Student's Research Papers with 7 Best Paper Awards	Guided by Faculty
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 Technique, accepted in Int. Conf. on Advanced Network Technologies and Intelligent Computing, Springer CCIS series, 2021.	Dr. Shajulin Benedict
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, 6th5March 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	Dr. Panchami. V

SN	UG Student's Research Papers with 7 Best Paper Awards	Guided by Faculty
	ICT for Sustainable Development ICT4SD 2020 for the publication in Springer Advances in Intelligent Systems and Computing/ Lecture Notes in Networks and Systems.	
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)		
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", 8th IEEE International Symposium on Smart Electronic Systems, India, December 2022	Dr. Kala S.

SN	UG Student's Research Papers with 7 Best Paper Awards	Guided by Faculty
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 side-chain for data storage. In 2023 International Conference on Control, Communication and Computing (ICCC) (pp. 1-5). IEEE. (Published)	Dr. Suchithra M S
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, Yarlagadda 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	Dr. Rubell Marion Lincy G.

SN	UG Student's Research Papers with 7 Best Paper Awards	Guided by Faculty
	Conference on Intelligent Technologies (CONIT). https://doi.org/10.1109/conit59222.2023.10205793	
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 Advances in Computing, Communication Control and Networking (ICAC3N), Greater Noida, India, 2022, pp. 1940-1944, doi: 10.1109/ICAC3N56670.2022.10074059.	Dr. Jayakrushna Sahoo
49.	R. Jaiswal, A. K. Nair and J. Sahoo, "Real-time monitoring system for attendance and attentiveness in virtual classroom environments," *2022 2nd International Conference on Artificial Intelligence and Signal Processing (AISP),* 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) Computer Vision and Image Processing. CVIP 2022. Communications in Computer and Information Science, 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 (NCETSTEA), Durgapur, India, 2020, pp. 1-4, DOI: 10.1109/NCETSTEA48365.2020.9119923.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)		

SN	UG Student's Research Papers with 7 Best Paper Awards	Guided by Faculty
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), Jan 8-12, 2023, Hyderabad, India (VLSID 2023 UDT Award - Honorable Mention Award from Academia)	Dr. Kala S
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, 23rd 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", 5TH International **IEEE conference** on Devices , Circuits and Systems, 6th 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, **Jayakrushna 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)	

SN	IIIT Kottayam Faculty-Best Paper Awards
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", 8th 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.
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)

SN	Patent / Copyrights	Date of Application	National / International	Status Applied / Published / Examined / Granted	Faculty Member
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
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 Warrier (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. Victer 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	

SN	Patent / Copyrights	Date of Application	National / International	Status Applied / Published / Examined / Granted	Faculty Member
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.	1Assistive Posture Support Mattress		Indian Patent	Filed	DESINTOX Technologies Private Limited
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)

SN	Patent / Copyrights	Date of Application	National / International	Status Applied / Published / Examined / Granted	Faculty Member
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					
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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
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. Victer Paul
28.	**Associate Editorial Board Member**, Journal Recent Advances in Computer Science and Communications, ISSN: 2666-2566.	Dr. P. Victer Paul
29.	**Editorial Board Member**, Journal of Autonomous Intelligence, ISSN: 2630-5046	Dr. P. Victer Paul
30.	**Editorial Board Member**, Journal of the Institute of Electronics and Computer, ISSN: 2643-8240	Dr. P. Victer Paul
31.	**Special Issue Editor**: Journal Recent Advances in Computer Science and Communications, ISSN: 2666-2566.	Dr. P. Victer Paul
32.	Reviewer, Applied Soft Computing, Elsevier	Dr. P. Victer Paul
33.	Reviewer, Entertainment Computing, Elsevier	Dr. P. Victer Paul
34.	Reviewer, Journal of Engineering Science & Technology	Dr. P. Victer Paul
35.	Reviewer, International Journal of Applied Evolutionary Computation (IJAEC), IGI Global. ISSN: 1942-3594	Dr. P. Victer Paul
36.	Reviewer, International Journal of Swarm Intelligence, Inderscience.	Dr. P. Victer Paul
37.	Reviewer, Data in Brief, Elsevier	Dr. P. Victer 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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
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
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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
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 (IJEEI), 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
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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
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
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, Elevier	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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
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
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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
215.	Reviewer of Bulletin of Malaysian Mathematical Society	Dr. Asha Sebastian
216.	Reviewer of Alexandria Egineering 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
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

SN	Editor / Reviewer of Journal	IIIT Kottayam Faculty Member
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
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.	**2nd International Conference on Image, Video Processing and Artificial Intelligence (IVPAI2019), China**	**23-25 Aug 2019**	**Dr. Koppala Guravaiah**
8.	**3rd International Conference on recent trends in Advanced Computing (ICTTAC-2020), Chennai**	**17-18 December 2020**	**Dr. Koppala Guravaiah**
9.	**7th 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.	**1st 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**

SN	Reviewer of International Conference	Conference Dates	Faculty Member of IIIT Kottayam
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
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.	2nd International Conference on Security & Privacy	16-17 November 2021	Dr. Jayakrushna Sahoo
20.	2nd 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.	10th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2022)	18 - 19 June 2022	Dr. Keshab Nath
24.	4th 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.	28th Annual International Conference On Mobile Computing And Networking InterContinental Sydney, Australia	17-21 October 2022	Dr. John Paul Martin
28.	3rd 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: 1st 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

SN	Reviewer of International Conference	Conference Dates	Faculty Member of IIIT Kottayam
33.	7th International Conference on Computer Vision & Image Processing	4-6 November 2022	Dr. Rubell Marion Lincy G
34.	10th International Conference on Frontiers of Intelligent Computing: Theory and Applications.	18-19 June 2022	Dr. Amit Kumar Roy
35.	7th Students' Conference on Engineering & Systems (SCES-2022)	1-3 July 2022	Dr. Koppala Guravaiah
36.	IEEE 7th 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
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.	ICITIIT'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

SN	Reviewer of International Conference	Conference Dates	Faculty Member of IIIT Kottayam
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
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 (ICITIIT)	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

SN	Reviewer of International Conference	Conference Dates	Faculty Member of IIIT Kottayam
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
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-CCHESS(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-CCHESS(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 in Emerging Countries	Implementation of Intelligent IoT	Akarsh K. Nair	Chinju John, Jayakrushna Sahoo	Part of the Lecture Notes on Data Engineering and Communications Technologies, Springer Link	January 2022	978-3-030-90617-7
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	Milind Thomas Themalil	Mayank Sharma, Mohammad Rammal	Springer	March, 2021	978-981-19-0311-3

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
		Nanosatellite Footprints					
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 Systems for Healthcare Applications	Evolution of Healthcare Sector and Evolving Cyberattacks – A Summary	Jai Ganesh S	Arun, Dhivya	CRC Press, Taylor & Francis Group	21 April 2023	9781003254119
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 & Wienar 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

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
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 Computing Research	Energy-Aware Edge Intelligence for Dynamic Intelligent Transportation System	Shajulin Benedict		Springer, Vol 1368	2021	978-981-16-0404-1_11
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

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
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

SN	Name of the Book Published by Faculty / Staff Member of III Kottayam	Authors	Co-Authors	Publisher	Year of Publication	ISBN number
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
18.	Eradicating Black Economy Globally? Prefer Less-Cash than Horrifying 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

To understand industrial trends, and requirements, the better industry exposure is needed for students and faculty members.

Industry wants globally employable "industry ready" students. To do this more industry exposure is needed for the students and faculty members.

Better industry funding is required for state of art infrastructural development and research facilities, which can attract or retain better faculty and in turn can attract better students.

Need of the hour is Research, Innovation, Patents, Entrepreneurship and Start-up culture to produce innovative brains, which can be achieved through Incubation centers. Unless we have better industry interface, better Incubation centers can't be developed.

IT Industry is a business entity. They come forward and join the hands only if there is a **Win-Win situation**. Thus, we need to develop **Two-Way Industry Interface** (Partnership) so that Institute as well as Industry will be benefited. It is possible only if we have well qualified and highly productive faculty, which can contribute in the growth of IT Industry.

which is possible only if we reduce the institute-industry gap.

Which automatically attract industry attention towards your institute.

Better Campus Placement.

Better Brand Name for IIIT Kottayam

Which again Implies Better Faculty, Better Students and Better Campus Placement and in turn again Better Brand Name

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	Turqoice.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

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

SN	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.	1. 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. 2. Participation in International Conference 3. Joint course on Cloud Computing (multiple times) 4. IEE-Hacks prize 5. Participation as resource person for webinar series. 6. 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	Joint project development and patenting works with the Ph.D. student. Activities Done: • 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
						• 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	1. One of our students Mr. Rumaise had developed an App called UNARV for the employment enhancement of Foreign Returnees due to Covid. 2. 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	1. Participation in International Conference 2. Involved UG students and one PhD scholar on a project Forest Inventory and Tree Measurement via 360° Spherical Images. 3. 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.	Supporting startups by listening / commenting on their pitch decks. Activities Done: Meeting with AIC Startups (Two meetings – one offline and one online) Startup review and panel.
8.	Active	DareToStart.org	Germany	29.07.2020	By Dr. Shajulin Benedict for joint incubation project work.	• 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	Ms. Sreelakshmi Raveendran, PhD scholar under Dr. Bini AA is doing collaborative research on Brain-Computer Research at the Department of

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 • Webinars • Hackathons • Startup exchange
11.	Active	Sunrise Mentors Pvt. Ltd. (Coding Ninjas), New Delhi	New Delhi	20.04.2021	By Dr. Victer 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.	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. Dr. Panchami V for the Department of Cyber Security	Cryptocurrenncy Fraud detection/Investigation on real cases reported at Various police stations across Kerala ; Developing GPS based Handcuff Conducted four training programs on Cyber Security and Digital Forensics for Kerala Police department.
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

S N	MoU Status	Organization	Location	Date of MOU	Initiated by Faculty Member & Purpose	Activities Carried Out
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 / hardware domains; Joint research; Student Internships; and for establishing the NeST sponsored Lab at IIIT Kottayam.	Many faculty members of IIIT Kottayam are actively involved in Advanced 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: • 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

SN	MoU Status	Organization	Location	Date of MOU	Initiated by Faculty Member & Purpose	Activities Carried Out
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 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 Warrier	Proposal submitted to Central Sanskrit University
36.	Recently Signed	Linumiz	Coimbatore	26-06-2023	Dr. Selvi C, Dr. Manu Madhavan, Dr. Nandhini J Warrier, Dr Vengadeshwaran	R & D project initial work started
37.	Recently Signed	aiRender	Bangalore	10/7/2023	Dr. Cinu C Kiliroor Dr. Rubell Marion Lincy Dr. Suchithra M S R&D Project	Initial work started
38.	Active	MATHLAB Research Pvt. Ltd.	Ernakulam	17/03/2023	Dr. Rubell Marion Lincy - FinAIQu Research Consultancy Projects, Education and Training	Conducted: Skill - building course on Computational Mathematics and AI for school kids
39.	Active	Optellent Inc.	California, USA	17/05/2023	Dr. Shajulin Benedict for AIC startups	
40.	Active	Infosys Springboard	Bangalore	31/05/2023	Dr. Mathew C D	
41.	Active	Institute of Teaching and Research in Ayurveda	Gujarat	25/08/2023	Mr. Anuroop K B PoC Design	
42.	Active	Hridayalaya Heart Foundation and Multispeciality Clinic	Trivandrum	14/11/2023	Dr. John Paul Martin Dr. Christina Terese Joseph	

S N	MoU Status	Organization	Location	Date of MOU	Initiated by Faculty Member & Purpose	Activities Carried Out
					Academic Industry Collaboration	
43.	Active	VEDHIK Academy LLP	Ernakulam	20/11/2023	Dr. Ragesh G K Certificate Programmes	
44.	Active	HP Enterprise	Bangalore	10/01/2024	Research Collaboration & Relationship Building	
45.	Active	Voola Software Solutions	Hyderabad	01/02/2024	Dr. Koppala Guraviah Industrial Funded Project Work	Initial Stage
46.	Active	Alphonsa College	Pala	01/03/2024	Dr. Ragesh G K Academic Collaboration	Initial Stage
47.	Active	IHUB NTIHAC FOUNDATION, C3iHub, IIT Kanpur	Kanpur	20/03/2024	Dr. Ragesh G K, R&D Project Dr. Manjith B C R&D Project	
48.	Active	Bridge Connectivity Solutions Pvt. Ltd.	New Delhi	17/04/2024	Dr. Nandhini Warrier Consultancy	
49.	Active	Rashritya Raksha University, Gandhinagar, Gujarat	Gujarat	25/04/2024	Dr. A Balu R&D, Academic Collaboration	
50.	Active	Kerala Kalamandalam, Thrissur, Kerala	Kerala	10/05/2024	Dr. Manu Madhavan Dr. Nandhini Dr. Selvi R&D, Academic Collaboration	Initial Stage
51.	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
52.	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.
53.	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: • Student exchange programs. • Joint project initiated. • OEAD project completed.
54.	Under Process	Miles Education	India	-	By Dr. Ebin Deni Raj for certificate courses.	-
55.	Under Process	NVIDIA		-	By Dr. Shajulin	-

SN	MoU Status	Organization	Location	Date of MOU	Initiated by Faculty Member & Purpose	Activities Carried Out
56.	Under Process	Sony India	India, Japan	-	By Dr. Ragesh G K	-
57.	Under Process	KU-Leuven Belgium	Belgium			
58.	Under Process	Universidad UFRO, Chile	Chile		By Dr. Shajulin Benedict for Academic activities and the joint project works for students.	Agreed activities: • Internships via. Funded projects. • Student exchange and joint programs. (Planned meetings are organized). • Plan visit to university
59.	Under Process	Universiti Technolgi, Brunei				
60.	Under Process	Indian Navy	Cochin		Dr. Ragesh G K and Mr. Anuroop K B for Joint Research, Training, Academic Collaborations	
61.	Under Process	Indian Institute of Space Science and Technology (IIST)	Trivandrum		Dr. Ragesh G K for Academic / Research Collaboration	
62.	Under Process	Rashtriya Raksha University	Gandhinagar, Gujarat		By Dr. Balu for Academic / Research Collaboration	
63.	Under Process	Indiana University USA	USA		Dr. Ebin, Dr. Athira and team members	
64.	Under process	Bose Information Technology, Germany	Germany	Ongoing (To revise)	Dr. Shajulin	1. Joint hackathons 2. Knowledge Exchange
65.	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.
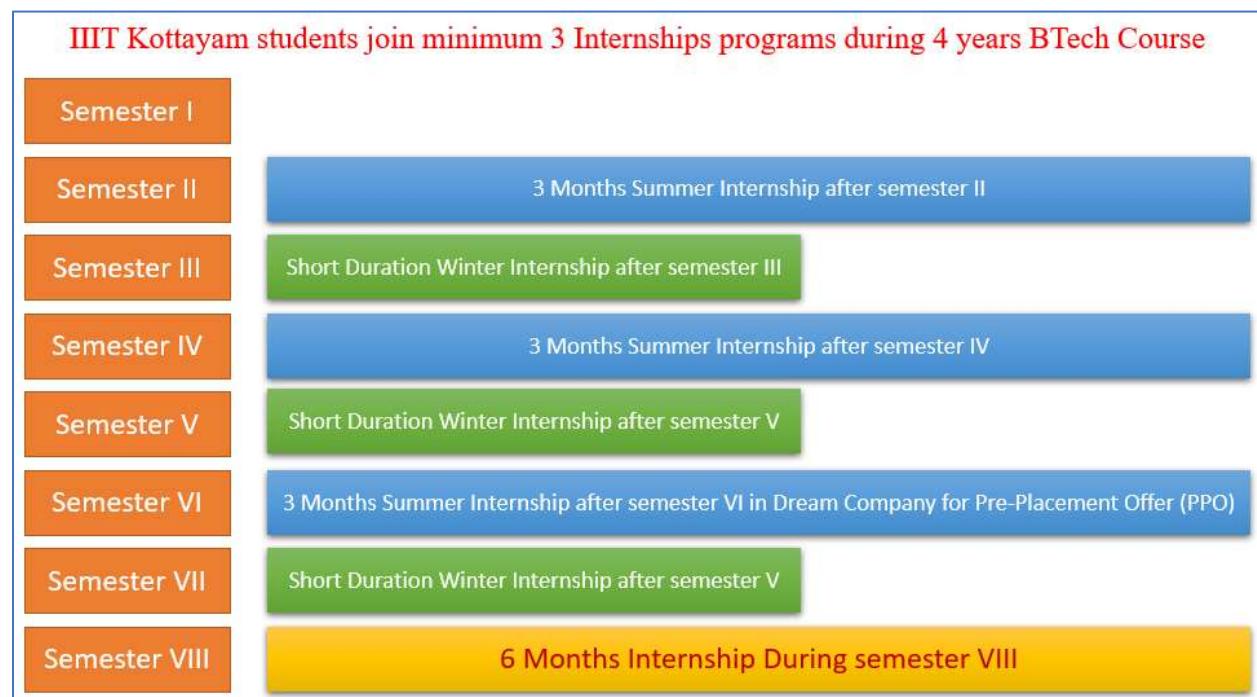
Fig. 03: Internship Plan for BTech students of IIIT Kottayam

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 Subramanium, 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. Victer 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.	Webimar- 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. Suvendu 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 Warrier, 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 Warrier, 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 @ Shipsy)	07.07.2022	Dr. Mathew CD
58.	Webinar on "Industry Trends on Internships"	Mr. AVS Aditya Vardhan (SE @ Shipsy)	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 Warrier, 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 Victer Paul
11.	AICTE, Govt. of India	Evaluator, Toycathon-2021	Dr. P Victer 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.	Wadhwani 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 Victer Paul
33.	Sri Manakula Vinayagar Engineering College (An Autonomous Institute)	Distinguished Alumni Award for Excellence in Academics	Dr P Victer 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. (3rd semester)	BEL, India	Completed	Dr. Shajulin Benedict
2.	Sweety Kunjachan	Ph.D. (2022)	Vaidyarathnam, 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

Pave the way to build the international expertise	Can offer new opportunities for collaboration with the developed world and Widen Job Prospective.	IT Engineers need to work with an internationally diversified team. They must know different cultures and international trends to efficiently work with the project team. Thus international exposure is always very helpful to build a career, which enhances global employability too.
Increase the access to international markets	Helps to build an International Brand Name.	
Enhance the quality of research	International diversified exposure enhances creativity and Enhance scientific innovations.	
Increase intellectual resources of university		

Open the doors for International Funding for infrastructure development, research and events etc.

Benefits of Strong International Interface to faculty and students of IIIT Kottayam

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.

Benefits of International Interface to Foreign Universities / Organizations / Nations

"International Students" is more than $100 Bn market. The main supplier of international students are China & India. All the foreign universities are interested to capture this market. If your institute has good brand name and huge networking with technical community then your institute could be most attractive destination for foreign universities.	All most every developed country is facing shortage of young technical manpower and India is having huge young technical manpower (students as well as faculty). The foreign universities are interested to attract this young & talented technical manpower from India to build their economy.	The innovation has become backbone of every economy. Thus, in developed nations, there is huge requirement of innovative brains. Many times the talented manpower in India is not ready to join foreign universities. Thus the collaboration is the first step to tap these brains. Thus, foreign universities are interested to collaborate with Indian universities.

Because of Currency Exchange Rate between Rupees and Dollar/Euro/Pound, it is easy to attract the young technical manpower from India. Almost every foreign university wants to encash this situation.

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
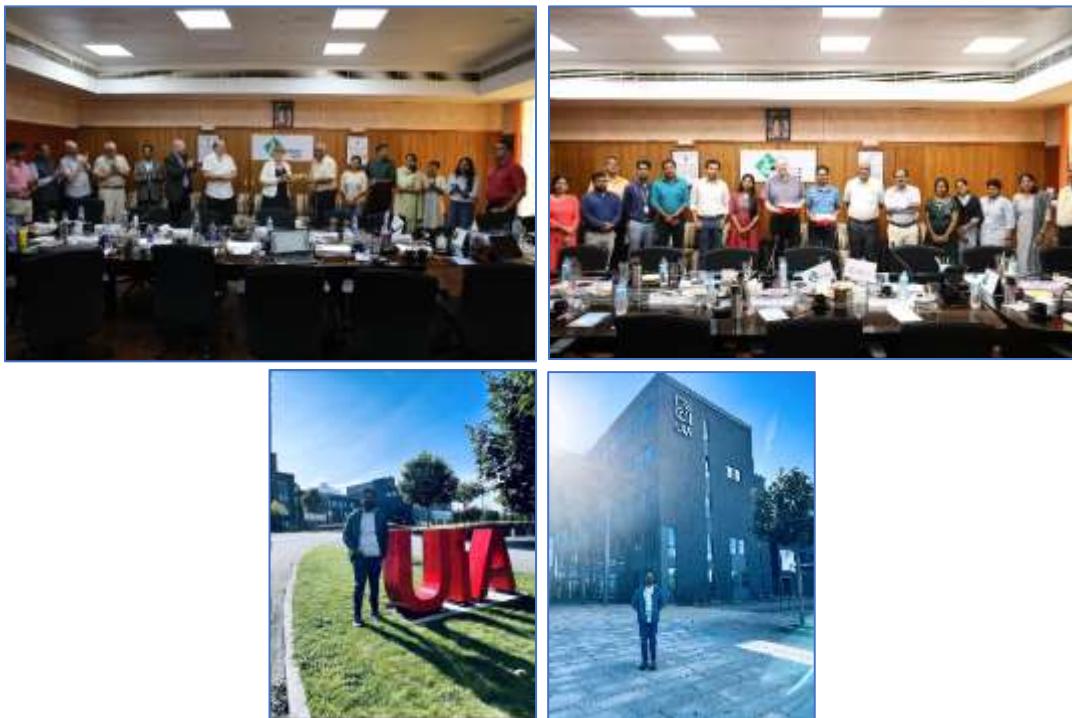
International Collaboration - USA

Two Visit of delegates of **Indiana University USA**: Vice President Dr. Hilary Kahn, Dr. Mathew Palakal, Dr. Ian S. Mclntosh 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 NorwayVisit 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.
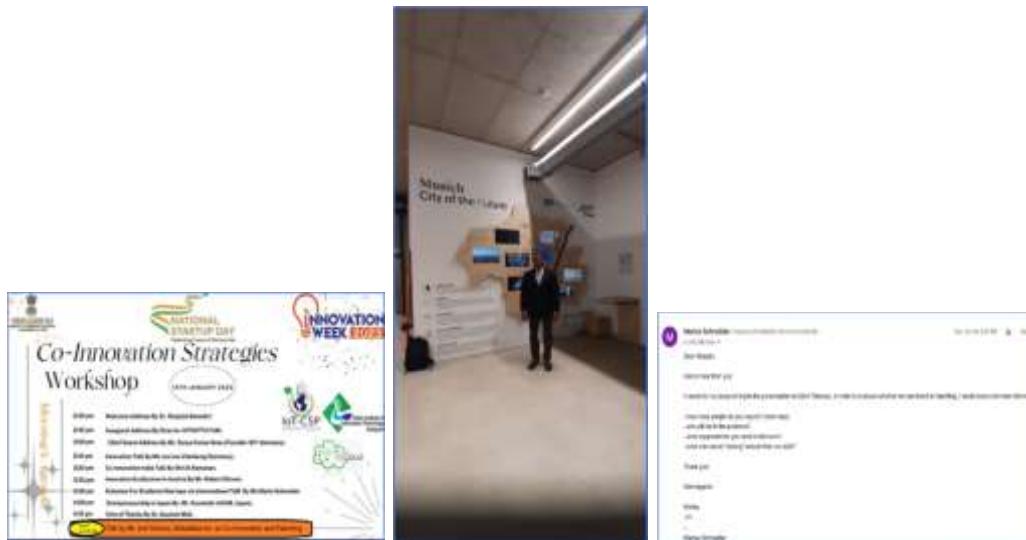
Prof. Michael Gerndt, Professor of TUM Germany visited three times to IIIT Kottayam for conducting Credit courses as well as International Hackathon etc. and Dr. Shajulin faculty of IIIT Kottayam is a visiting faculty of TUM Germany.

Period: 9.10.2017 to 30.10.2017
Period: 28.10.2018 to 3.11.2018
Period: 20.10.2019 to 31.10.2019
Period: 20.11.2021 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 ICITIIT'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 plains 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

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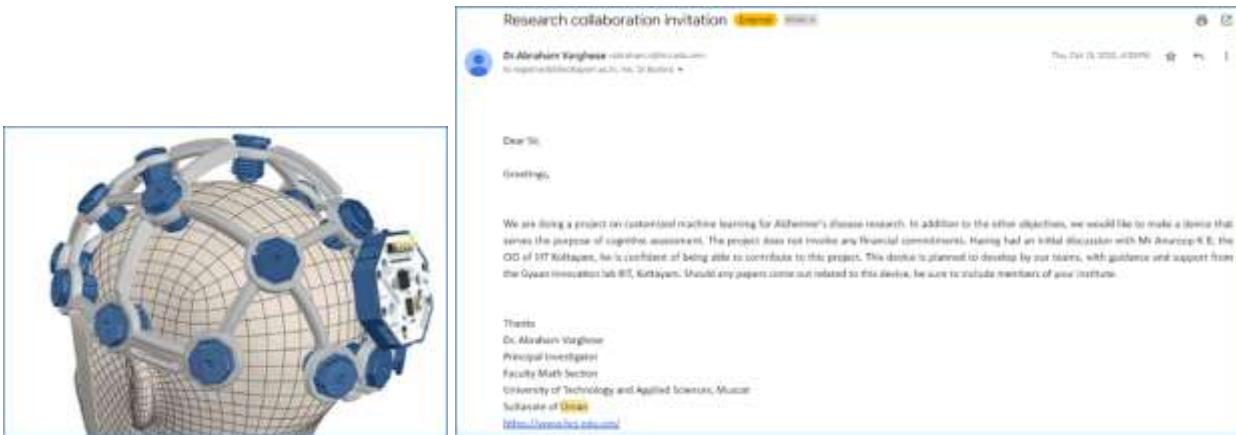
Recently, the Saudi Arabia Delegation as well as Shree. Ashwini Vaishnaw Minister of Railways of India experienced the metaverse platform designed by Gyaan Innovation Lab IIIT-Kottayam at G-20 Summit. The platform was developed for the Kerala Police Cyberdome.

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 Technologi 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 5th 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 4th IEEE International Conference on Innovative Trends in Information Technology ICITIIT'23 in Feb 2023.
3.	Organized the 3rd IEEE International Conference on Innovative Trends in Information Technology ICITIIT'22 on 12-13 Feb 2022.
4.	Organized the 2nd IEEE International Conference on Innovative Trends in Information Technology ICITIIT'21 in Feb 2021.
5.	Organized the 1st IEEE International Conference on Innovative Trends in Information Technology ICITIIT'20 in 12-13 Feb 2020.
6.	Organized the 1st IEEE international conference iQCCHESS'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 14th International Conference SPACE (Security, Privacy and Applied Cryptographic Engineeringing) in Dec 2024. • 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: • 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 16th 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: • 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 (Journee 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 polyytechnic uiversity, Univ. of Luxomburg, Alto University, Harbin Institute of Technology	China, Luxomberg, 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 Antimedian 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 ScienceUniversity of NišFaculty of Sciences and MathematicsDepartments of Computer ScienceNiš, Serbia	Serbia	Dr. Jayakrushna Sahoo

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

7. Introduced foreign languages like French and Germany at the first-year level.
8. 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.
9. 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

10. 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 Warrier	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.	iQCCHESS'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.	iQCCHESS'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.	iQCCHESS'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. (2nd semester)	Cardiff Universtiy, UK	Completed	Dr. Shajulin Benedict
2.	Bhagyalakshmi M.	Ph.D. (3rd 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	Johennes Gutenburg	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 & Kuwait 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 absolution rate of technologies is very high and no curriculum in the world can teach all the latest IT Technologies. Thus, students need to learn beyond 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
		Programming 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.
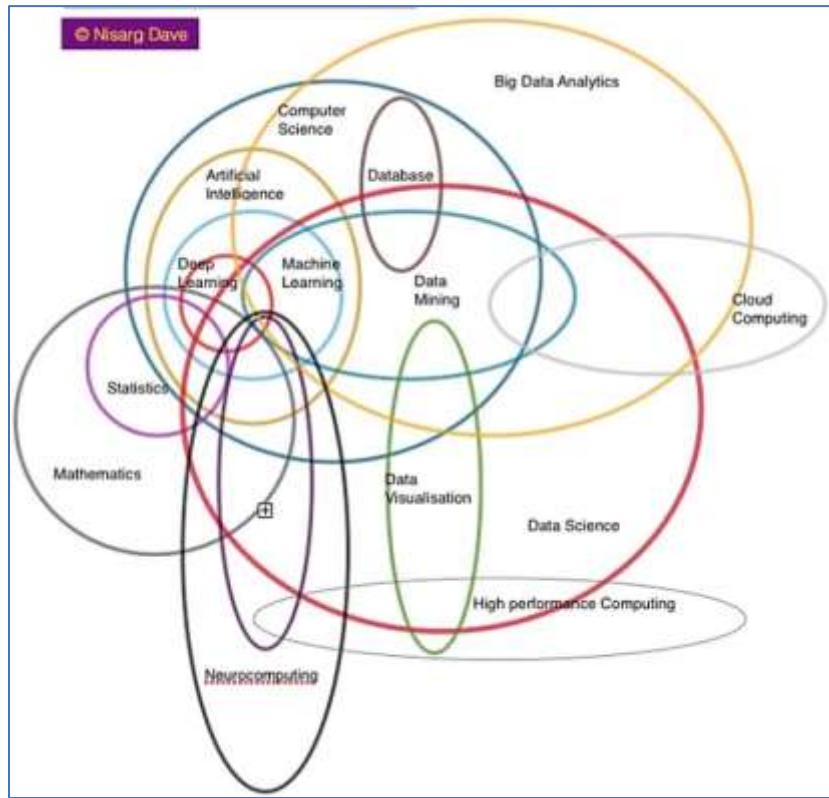
Fig. 05: Data Science is a Highly Interdisciplinary field

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
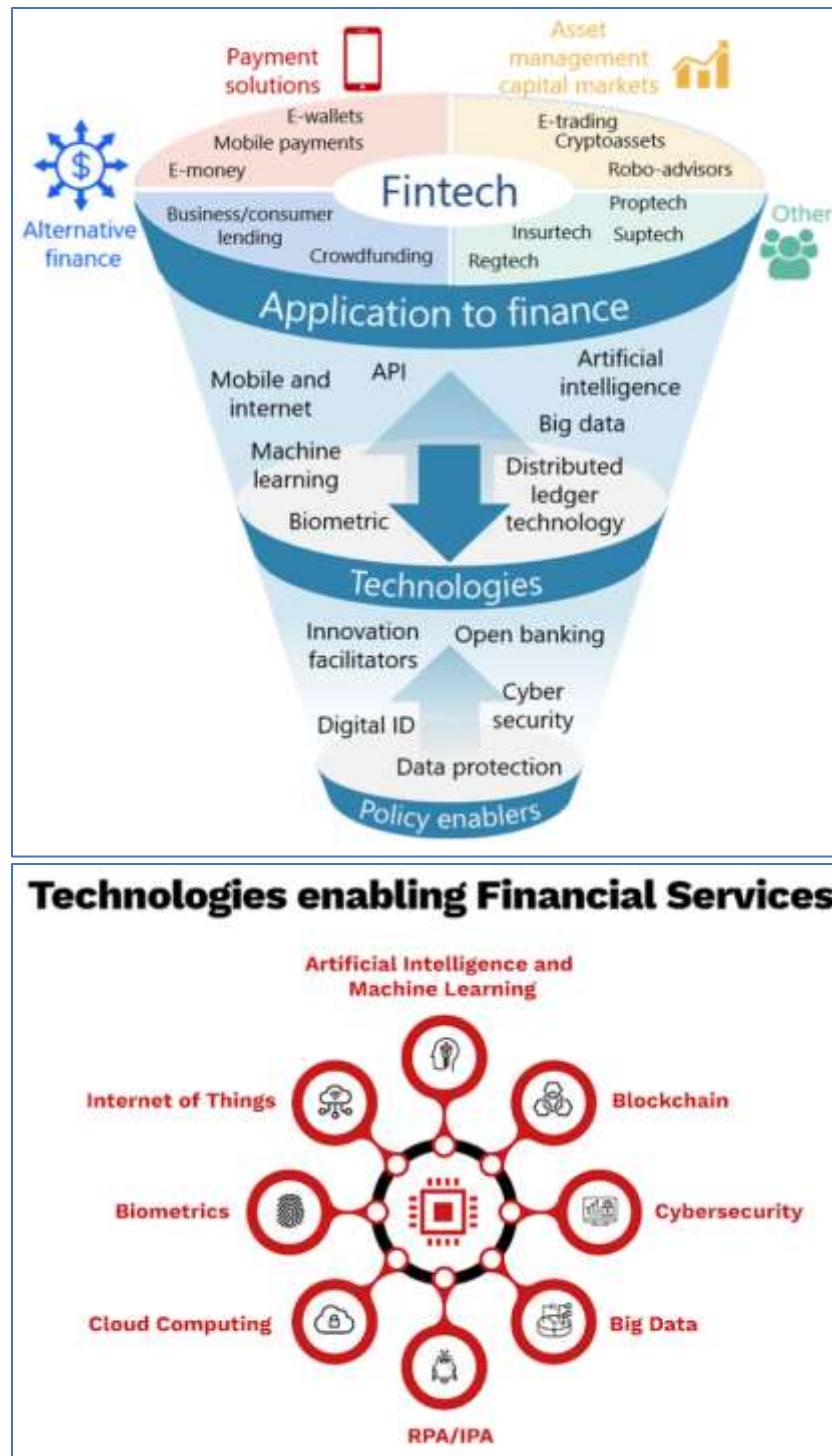
Fig. 07: FinTech is a highly Interdisciplinary field

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 prefered Maths faculty with interdisciplinary background such as Computing Engineering and Cyber Security.

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SN	Name of Mathematics Faculty	Qualifications	Specialization in Computer Scinece 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	• Graph Theory • Social Network Analysis
3.	Dr. Rubell Marion Lincy G	PhD from NIT Calicut	• 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	• Applied Cryptography • Pairing Based Cryptography • Attribute Based Encryption • Zero-Knowledge Protocol (ZK-SNARKs) Now shifted to Cyber Security Department.
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	• Cyber Security • Swarm Intelligence • Nature-inspired Optimization Techniques • Evolutionary Computation • Optimization Algorithms • Soft Computing Now shifted to Cyber Security Department.
6.	Dr. Asha Sebastian	Ph.D. from NIT Trichi, **M.Sc. (Tech)** in Mathematics and Scientific computing from NIT Calicut	• Data Science • Quantum Computing
7.	Dr. Murugan D	Ph.D. from NIT Trichi	• 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	• FinTech • Computational Mathematics • Computational Finance • Fractional PDEs

				• Artificial Neural Network (ANN) methods for PDEs • Supervised Learning Techniques for Option Pricing

<p align="center">Table 41: Maths Department with interdisciplinary background</p>

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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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
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

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
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, Digialtyic 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

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. 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. Victer 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

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
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

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
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, Digialtyic 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						

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
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. Victer 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

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
	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

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
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. Victer 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

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
116.	AI-based Mobility Model for Alternative Fuel Vehicles (AFV) to optimize the route		SERB	PhD – 1 (ongoing)		Dr P Victer 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

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
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. Victer 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

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
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
146.	Quantum Machine Learning in Finance	Unisys India Pvt. Limited	Financial fraud detection using Quantum Machine Learning	PhD Ongoing (1)		Dr. Rubell Marion Lincy G
147.	Quantum Machine Learning in Finance	Unisys India Pvt. Limited	Credit Risk Analysis using Quantum Machine Learning	PhD Ongoing (1)		Dr. Rubell Marion Lincy G
E-Learning, Teaching & Learning						
148.	Learning Evaluation System using Genetic Algorithm			Guided MTech	2 RP	Dr. Rajiv Dharaskar
149.	Educational Data Analytics			PhD	3 RP	Dr. P. Victer Paul
150.	Augmented Reality for Classrooms	Infusory Future Tech Labs Pvt Ltd			1-Other IP	Dr. Shajulin Benedict & AIC Team
151.	Project Based Learning Pedagogy	Olin College of Engineering, Boston, USA				Dr. Milind Thomas Themalil
152.	IoT for Intelligent Systems	University of Glasgow	Trans National Education-British Council Funded			Dr. Ragesh G K
153.	Edge Computing Course	Cardiff University, UK IIT Ropar	Course Development	Project		Dr. Shajulin Benedict
Mechanical Engineering / Manufacturing						
154.	Real Time Image Processing of Welding Process			Guided MTech	1 RP	Dr. Rajiv Dharaskar
155.	Cloud Manufacturing	International	Non-funded student research	M.S.	nil	Dr. Shajulin Benedict
156.	ICT solutions for industrial applications	Nexpression 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
157.	Artificial Intelligence and IOT based solutions for Industries	Deepqai Business Solutions Private Limited				Dr. Shajulin Benedict & AIC Team
158.	IIoT - Cloud Manufacturing			PhD - 1	8 RP	Dr. Shajulin Benedict
159.	Height Adjustable Table				1 Patent (Design)	Dr. Shajulin Benedict
Space and Satellite						
160.	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
161.	Design of microstrip antennas with isoflux patterns for small satellite applications (ARMA)	XLIM, University of Limoges, France	CNES, France		2 RP	Dr. Milind Thomas
162.	Transparent solar panel-based antennas for small satellite applications	Celestial Space Technologies, TU Berlin, Germany			1 RP	Dr. Milind Thomas
163.	Wireless Broadcasting System Using Selective Switching	ATAL			1P	Dr. A Ravi
164.	Performance of hybrid satellite-UAV NOMA systems	Benha University, Egypt			1 RP	Dr. Ragesh G K
Earthquake						
165.	Earthquake Predictions				1 RP	Dr. Sivaiah Bellamkonda
Smart City						
166.	Smart City	Industry-Academia Collaboration	Sponsored R&D Project	BTech Students	1 RP	Dr. Kala S
167.	Design and Development of IoT devices and systems for Smart City and Smart Building (IDEA Lab)	MHRD-AICTE	AICTE, PSCMRCET		2RP	Dr. A Ravi

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
168.	Smart city				1 Book	Dr. Shajulin Benedict
169.	Smart city				6 RP	Dr. Shajulin Benedict
170.	Smart city				1 Patent (design)	Dr. Shajulin Benedict
Mathematics						
171.	Modeling Information Diffusion in Social Networks with Partial Differential Equations				14 RP	Dr. Avinash Kumar Mittal
172.	Studies on Exact Solutions of Fractional Differential and Differential -Difference Equations			Ph.D. - 1 (ongoing)	3 RP and 2 Scopus Conference Proceedings	Dr. Bakkyaraj
173.	Solving Differential Equations using Deep learning Techniques (PINNs)			Ph.D. - 1 (ongoing)	One conference paper is presented	Dr. Bakkyaraj
174.	Image Denoising using Autoencoder			Ph.D. - 1 (ongoing)	One conference paper is presented	Dr. Bakkyaraj
175.	Fluid Mechanics				6 RP and 1 Scopus Conference Proceeding	Dr. Murugan D
176.	Surrogate optimization and its applications			PhD – 1 (Ongoing)		Dr. Susheel Kumar Joshi
177.	Fuzzy graph theory applied in network connectivity			3 M Sc Mathematics projects guided	5 SCI & 2 Scopus RP, 2(B)	Dr. Binu M
178.	Fuzzy Median Graphs and related applications			PhD – 1 (Ongoing)	2 RP	Dr. Dhanyamol M V
179.	Convexity in Fuzzy Graphs			PhD – 1 (Ongoing)	One conference paper is presented	Dr. Dhanyamol M V
Hardware						
180.	Hardware for Artificial Intelligence	TU Dresden, Germany	Indo-German (IGSTC -DST) funded Project of Rs. 39 Lakhs			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.	IoT based Streetlight Controller System		Eurth Techtronics Pvt Ltd		1RP	Dr. A Ravi
182.	Hardware for AI	TU Dresden, Germany	IGSTC funded project (39 Lakhs)	PhD – 1 (Ongoing)	4 RP	Dr. Kala S
183.	Desing and development of Deep learning on hardware	CUSAT, Kerala		PhD – 1 (Ongoing)	2 RP	Dr. Kala S
184.	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
185.	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						
186.	Animal Emotions	International - TUM-Germany	Non-funded project	M.S.	1 RP	Dr. Shajulin Benedict
187.	IoT based Collar Band for monitoring illicit use of Captive Elephants				1 IP	Dr. Abin Oommen Philip, Dr. Panchami V
188.	Elephant Emotion			PhD – 1 (Ongoing)	1 RP	Dr. Shajulin Benedict
189.	Fish Feeder				1 Patent (Design)	Dr. Shajulin Benedict
Environment, Pollution and Global Warming						
190.	Pollution Control		MeitY (submitted)		3RP	Dr. P. Victer Paul
191.	IT solutions for environmental protection	Technoace Consultancy Services Private Limited				Dr. Shajulin Benedict & AIC Team
192.	IoT based monitoring device				1 IP	Dr. Panchami V, Dr. Abin Oommen Philip
193.	Water Quality			Ph.D. - 1	4 RP	Dr. Shajulin Benedict
194.	Air Quality				3 RP	Dr. Shajulin Benedict
195.	Carbon Emission				1 RP	Dr. Shajulin Benedict
Job, Skill Development and Recruitment						

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
196.	Artificial Intelligence and Cloud based Solutions for the Unorganized Jobs (GigJobs) sector	RRR Gig Jobs & Services Private Limited				Dr. Shajulin Benedict & AIC Team
197.	Technology and skill development for rural population	Procis Brainlabs Private Limited				Dr. Shajulin Benedict & AIC Team
198.	Empowering tribal youth by providing training and employment	Balutedaar (Opc) Private Limited				Dr. Shajulin Benedict & AIC Team
Disable Persons						
199.	Robotic assistive devices for disabled persons	Desintox Technologies Private Limited			2-P	Dr. Shajulin Benedict & AIC Team
200.	Third Eye: Object Recognition and Speech Generation for Visually Impaired				1 RP	Dr. Koppala Guravaiah
201.	Smart-elevator for wheelchair bound people			B.Tech (Hons) project	1 patent (in process)	Dr. S.Venkatesh
Civil Engineering & Construction						
202.	Cloud platform for construction management	Catalog Technologies Private Limited				Dr. Shajulin Benedict & AIC Team
Waste Collection and Management						
203.	Block-Chain solution for waste collection and management	Teamstarbase Private Limited				Dr. Shajulin Benedict & AIC Team
204.	Sustainable energy generation in combination with waste management	Den N Den Sustainable Solutions Private Limited				Dr. Shajulin Benedict & AIC Team
205.	Smart Bin				1 Patent (Design)	Dr. Shajulin Benedict
Arts						
206.	Social E-commerce platform for artists and craftsmen	Fluxfed Technologies Private Limited			1-Other IP	Dr. Shajulin Benedict & AIC Team
207.	Culture and Computing	Kerala Kalamandalam		PhD -1 (Ongoing), Internship (external B.Tech.		Dr. Nandini J Warrier, Dr. Manu Madhavan Dr. Selvi C

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
				students) – 2 (completed)		
208.	Sanskrit Language Computing	Chinmaya International Sodh Sansthan		BTech – 1 (Ongoing)		Dr. Nandini J Warrier, Dr. Manu Madhavan
Tourism						
209.	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
210.	Smart Tourism				1 RP	Dr. Shajulin Benedict
Sports						
211.	Sports Analytics- Novel Ranking scheme for T20 batsmen ranking				2 RP	Dr. Abin Oommen Philip
212.	Machine learning and Genetic Algorithm based Player Selection for Optimal Cricket Team Composition				1RP (Communicated)	Dr. Jayakrushna Sahoo
Geography, GIS						
213.	Recent Trends in GIS and Remote Sensing and its Applications Using AI	ATAL			1P	Dr. A Ravi
Miscellaneous						
214.	Software Defined Networks			Ph.D. – 1 (ongoing)		Dr. Koppala Guravaiah
215.	Access Control Mechanism					Dr. A. Balu
216.	Industrial Internet of Things using Blockchain				1 Patent Granted (Australian Innovation Grant)	Dr. Ragesh G K Dr. Shajulin Benedict
217.	Cloud Assisted Wireless Body Area Networks				2 Copyrights	Dr. Ragesh G K
218.	Design of microstrip antennas for wireless communication			PhD- 2 (ongoing)	2 BC 13 RP	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
219.	Design of proximity coupled microstrip antennas for MIMO applications in 5G/6G networks			Internship external student - 1 (ongoing)		Dr. Milind Thomas Themalil
220.	Machine learning for Image Processing and its Applications	ATAL		M.Tech - 2	1P	Dr. A Ravi
221.	Deep Learning Techniques for Social Impact				1 Book	Dr. Shajulin Benedict
222.	Optimizing 2D to 3D real-time inference models	aiRender Tecnologies		PhD Ongoing	1 RP (Submitted)	Dr. Rubell Marion Lincy G
223.	Reinforcement Learning Application on Automated Vehicle			BTech Project	1 RP	Dr. Rubell Marion Lincy G

Table 42: Interdisciplinarry 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.
     o Fundamentals of Economics
     o Principles of Management
     o Business Communication Skills
     o Human Resource Management
     o Financial Management & Accounting
     o 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 Adding scrolled window to TIFF description field.	https://gitlab.com/inkscape/inkscape/-/merge_requests/4730
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	https://github.com/samhitha-b/wildbeats

SN	Name of the Contributing Student(S)	Contribution Details	Github Link
		and then show how wildbeats is trying to celebrate that.	
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 Warrier, 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.	Ananthakrishnan 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.	GitLab - https://gitlab.gnome.org/gautham_x AND GitHub - https://github.com/GOTAM672

SN	Name of the Contributing Student(S)	Contribution Details	Github Link
		My work is to create a new system panel in GNOME Settings.	
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/mohdziyadc
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

Events Organized During - 2023

Events Organized During - 2023

Events Organized During - 2023

Events Organized During - 2023

Events Organized During - 2023

Events Organized During - 2023

Events Organized During - 2023

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Events Organized During - 2022

Events Organized During - 2022

Events Organized During - 2022

Events Organized During - 2021

Events Organized During - 2021

Events Organized During - 2020

Events Organized During - 2020

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

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
	(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 AlanTuring 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. Victer 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 Statsistical 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

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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

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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. Victer Paul
88.	Delivered Expert talk on "Research Paper Publication Process" at Mangalam College of Engineering, Kottayam	6.5.2022	Dr. P. Victer 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

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	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, Mangalure, 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

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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 ICSMDI2022., 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

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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, Kancheepurun, 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

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	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
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 Victer 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 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

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
	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"	09.05.203 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 Multidiciplinary 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

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
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 Subramanium, 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 @ Shipsy)	70+	Dr. C. D. Mathew
9.	Webinar on "Industry Trends on Internships"	08.07.2022	Mr. AVS Aditya Vardhan (SE @ Shipsy)	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 PABBISETTY, 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)	**Day 1:** 1. Dr. B. R. Shankar, Professor, NITK 2. Dr. Jidesh P., Associate Professor, NITK 3. Dr. Deepu V., Associate Professor, NITK **Day 2:** 4. Dr. Sudeep V, Assistant Professor, NITC 5. Dr. Bibal Benifa, Assistant Professor, IIITK 6. Dr. Jeny Rajan, Assistant Professor, NITK **Day 3:** 7. Dr. Muruganandam P. Professor, St. Gitts, Kottayam. 8. Dr. Narasimhadhan A. V., Assistant Professor. NITK 9. Dr. Shyam Lal, Assistant Professor, NITK **Day 4:** 10. Dr. Lalit Singh, Scientist-G, BARC. 11. Dr. Suraj K., Tech Lead, Continental Automotive Components India Pvt. Ltd. 12. Mr. Sundara Moorty, Project Manager, SocGen, Bangalore. **Day 5:** 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)	**Day 1:** 1. Dr. Ankesh Jain, IIT Delhi 2. Dr. Javed, Intel Bangalore **Day 2:** 3. Dr. Anoop, IIT Bhubaneswar 4. Dr. Nitin, Post Doc Scholar, Arhus University, Denmark 5. Dr. Nalesh, CUSAT, Kochi **Day 3:** 6. Dr. Soumya Prakash, IIT Bhubaneswar 7. Dr. Vimal, KrishTec **Day 4:** 8. Dr. Jobish, University College Cork, Ireland 9. Dr. Aswathy, Prana Yoga **Day 5:** 10. Dr. Basawaraj T, NITK Suratkal	147	Dr. Kala S
3.	Cyber Security and Digital Forensics	December 1-5, 2020 (5 days)	**Day 1:** 1. Dr. Hiran V Nath Assistant Professor, CSE, NIT Calicut 2. Dr. N. Annamalai Assistant Professor, IIIT Kottayam **Day 2:** 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 **Day 3:** 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
			Day 4: 8. Dr. Panchami.V, Assistant Professor, IIIT Kottayam 9. Mr. Rumaise CEO, Daddysanta Technologies, Ernakulum, Kerala **Day 5:** 10. Dr. Rajesh P. Nair Assistant Professor, Department of Ship Technology, CUSAT, Kerala 11. Mr. Nabeel Koya Scientist-E, CDAC, Thiruvananthapuram, Kerala. 12. Dr. Rizwan Ahmed CTO, delaPlex Software		
4.	Internet of Things	September 14.9.2020 to 18.9.2020 (5 Days)	**Day 1:** 1. Dr. Shajulin Benedict, Asst. Professor, IIITK **Day 2:** 2. Dr. Jobish, Asst. Prof. IIITK 3. Dr. K. Guraviah, Asst. Prof. IIITK 4. Dr. Arun E., Asst. Prof. IIITK 5. Dr. Panchami, Asst. Prof. IIITK **Day 3:** 6. Prof. Rajkamal Ex. Vice-Chancellor, Devi Ahilyabai University, Indore 7. Mr. Rakesh D., Repricatron Pvt. Ltd. **Day 4:** 8. Dr. Sivasankar E., Asst. Prof. NIT Trichy 9. Dr. Jayakrushna Sahoo, Asst. Prof. IIITK 10. Mr. Anil Sharma, Dolcera Inc.. **Day 5:** 11. Dr. Shajulin Benedict, Asst. Prof. IIITK 12. Mr. Basil C. Sunny, IIITK Research Scholar.	68	Dr. Shajulin Benedict
2021					
5.	Serverless IoT for Societal Products	May 24.5.2021 to	**Day 1:** 1. Dr. Shajulin Benedict, Asst. Professor. IIITK	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)	**Day 2:** 2. Dr. Shajulin Benedict, Asst. Professor IIITK 3. Dr. Deb Singdeo, Matlab Inc., PostDoc Researcher. **Day 3:** 4. Prof. Rajkamal Ex. Vice-Chancellor, Devi Ahilyabai University, Indore 5. Dr. Jitendra Tembhurne, IIIT Nagpur. **Day 4:** 6. Dr. Sivasankar E., Asst. Prof., NIT-Trichy 7. Mr. Harikrishna, Trysara Pvt. Ltd. 8. Mr. Anil Sharma, Dolcera Inc. **Day 5:** 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)	**Day 1:** 1. Dr. Aswath Babu, IIIT Dharwad 2. Dr. Debajyoti Bera, IIIT Delhi **Day 2:** 3. Sharad Sinha, IIT Goa 4. Dr. Abhoy, Kolkata **Day 3**: 5. Dr. Aswathy, Prana yoga 6. Dr. Kala S and Mr. Vishnu Ajith, IIIT Kottayam **Day 4:** 7. Dr. Harish Sahu, DRDO Delhi 8. Dr. Vimal, KrishTec **Day 5:** 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)	**Day 1:** 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. **Day 2:** 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 **Day 3:** 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. **Day 4:** 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 **Day 5:** 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	28th Nov - 3rd Dec 2021 (5 days)	**Day 1:** 1. Dr.Kumaravel S, Asst. Prof, NIT Calicut 2. Dr. Arun Raj Kumar, Asst. Prof, NIT Calicut **Day 2:** 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
			4. Dr. Shajulin Benedict, Asst. Prof, IIIT Kottayam 5. Dr. K.S. Kuppu Samy, Asst. Prof, Pondicherry Central University **Day 3:** 6. Dr. Santhi Thilagam, Asso. Prof, NIT Surathkal 7. Dr. C. Ganesh Kumar, Asst. Prof, Indian Institute of Plantation Management Bangalore 8. Dr. Pradeep Kumar Bisen, SVP, R&D at SatSure Limited **Day 4:** 9. Dr Anand Mahalingam, Vice President - Data Labs, HDFC Life 10. Prof. Edmond C Prakash, Cardiff Metropolitan University, UK 11. Dr. Madhumita Dash, Principal AI Research Engineer, Fasal Limited **Day 5:** 12. Mr. Bibin Manuel, Lead – Microsoft Azure CoE, TCS 13. Ms. Remitha Rajan P.T, Psychologist, IIIT Kottayam		
9.	Big Data Security and Analytics	December 6-10 2021 (5 days)	**Day 1:** 1. Dr. J. V Bibal Benifa, Assistant Professor, CSE, IIIT Kottayam 2. Dr. Saravanan Krishnan, Assistant Professor, CSE, Anna University, Regional Campus, Tirunelveli 3. Dr. Jayakrushna Sahoo, Assistant Professor, CSE, IIIT Kottayam **Day 2:** 4. Dr. Satyajit Das, Assistant Professor, CSE, IIT Palakkad 5. Dr. Dittin Andrews, Scientist-E, CDAC, Thiruvananthapuram, Kerala. 6. Dr. Tony Thomas, Associate Professor, Indian Institute Of Information Technology and Management-Kerala (IIITM-K)	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
			Day 3: 7. Dr. Hiran V Nath Assistant Professor, CSE, NIT Calicut 8. Dr. Amritha P. P, Assistant Professor, TIFAC-CORE in Cyber Security, Coimbatore Campus. 9. Ms. Mahima Mary Mathews, Assistant Professor, CSE, CUSAT **Day 4:** 10. Mr. Srinivasan Thanukrishnan, CTO & Director, Glosys Technology Solutions Pvt. Ltd, Chennai 11. Dr. Rajesh P. Nair, Assistant Professor, Department of Ship Technology, CUSAT **Day 5:** 12. Dr. Mukesh Saini, Assistant professor, CSE, IIT-Ropar 13. Dr. Judy M.V, Professor, Department of Computer Applications, CUSAT, Kerala 14. Dr. Lija Mohan, Domain Analyst, Prevalent AI		
10.	Deep Learning: Models and use cases using Python 10 days Online FDP Funded by Electronics & ICT Academy, NIT Warangal and sponsored by Ministry of Electronics and Information Technology (MeitY), GOI	12.12.2022 to 21.12.2022 (10 Days)	**Day 1:** Dr. M Srinivas, NIT Warangal **Day 2:** Prof. Dr. Garimella Ramamurthy, Mahindra University **Day 3**: Dr. M Srinivas, NIT-Warangal **Day 4:** Dr. Rubell Marion Lincy, IIIT Kottayam Dr. Adepu Ravi Sankar, Amazon **Day 5:** Dr. Suchithra M S, IIIT Kottayam Dr Earnest Paul, NIT Warangal **Day 6:** Dr. Argya Pal, Monashu University **Day 7:** Dr. Mohammad Farukh Hashmi, NIT Warangal **Day 8**: Subba Reddy Oota	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, Gujara**t**	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. Victer 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
			Assistant Professor, IIITK, Dr. Christina Assistant Professor, IIITK, Dr. Suchithra M S Assistant Professor, IIITK **Day 3**: Dr. Selvi Assistant Professor, IIITK, Dr. Bibal Benifa Assistant Professor, IIITK, Dr. Manu Madhavan Assistant Professor, IIITK **Day 4**: Dr. Asha Assistant Professor, IIITK, Dr. Viswanath Gopalakrishnan Assistant Professor, IIIT Bangalore **Day 5**: Dr. Viswanath Gopalakrishnan Assistant Professor, IIIT Bangalore Day 6: Dr. Debanand Singdeo and team (Mathworks) **Day 7**: Dr. Debanand Singdeo and team (Mathworks) **Day 8**:Dr. Debanand Singdeo and team (Mathworks) **Day 9**: Dr. Vengadeswaran Assistant Professor, IIITK, Dr. Ebin Associate Dean, IIITK **Day 10**: Dr. Lincy, Assistant Professor, IIITK, Dr. Deepak Padmanabhan Queens University, Belfast, UK		
14.	Nextgen Computing Paradigms for Bigdata Applications- 5-9 June 2023,	5-9 June 2023	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 Warrier, 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-CCHESS'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 Warrier., 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. Victer 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 Warrier 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.	iQCCHESS'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. Victer 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 Victer Paul	3
26.	Summer	Dec 2021- Feb 2022	External	Dr P Victer 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 Victer 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. Warrier	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 Victer 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. Victer 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. Victer 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. Victer 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
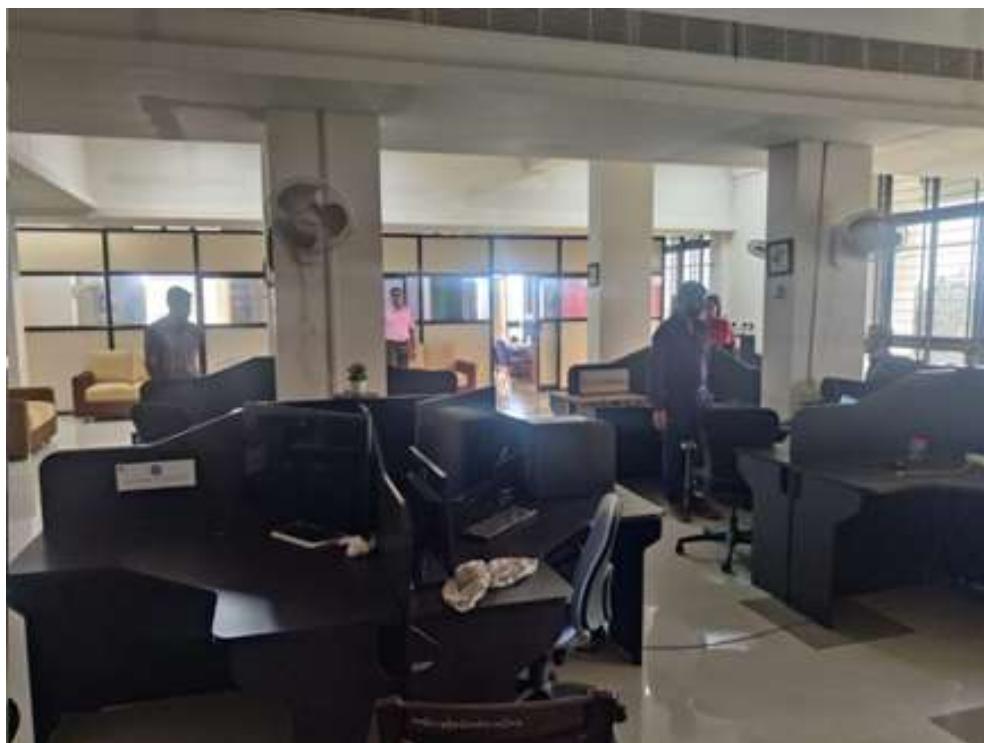
Innovation Lab

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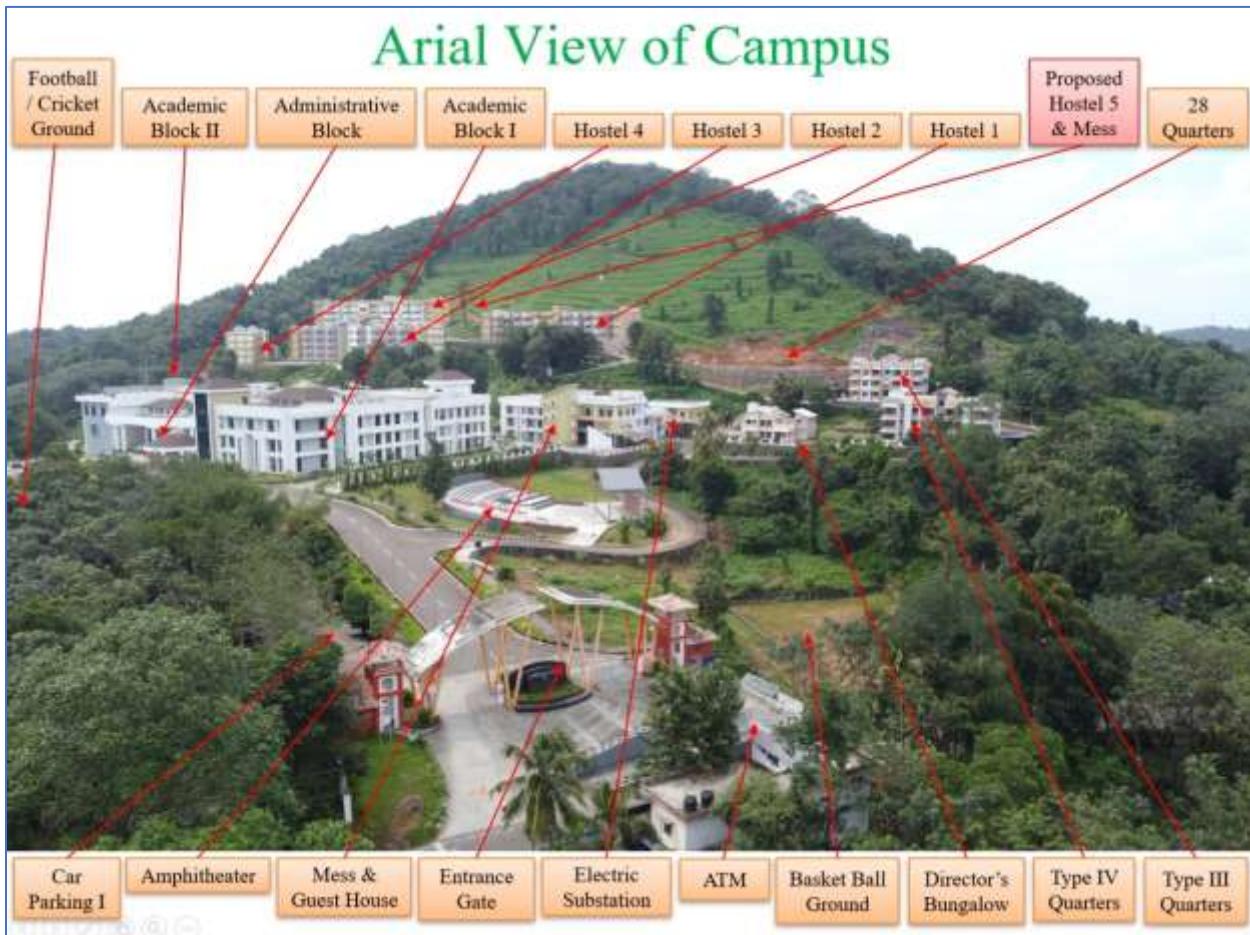
Atal Incubation Center (AIC – IIIT K) by NITI Aayog:
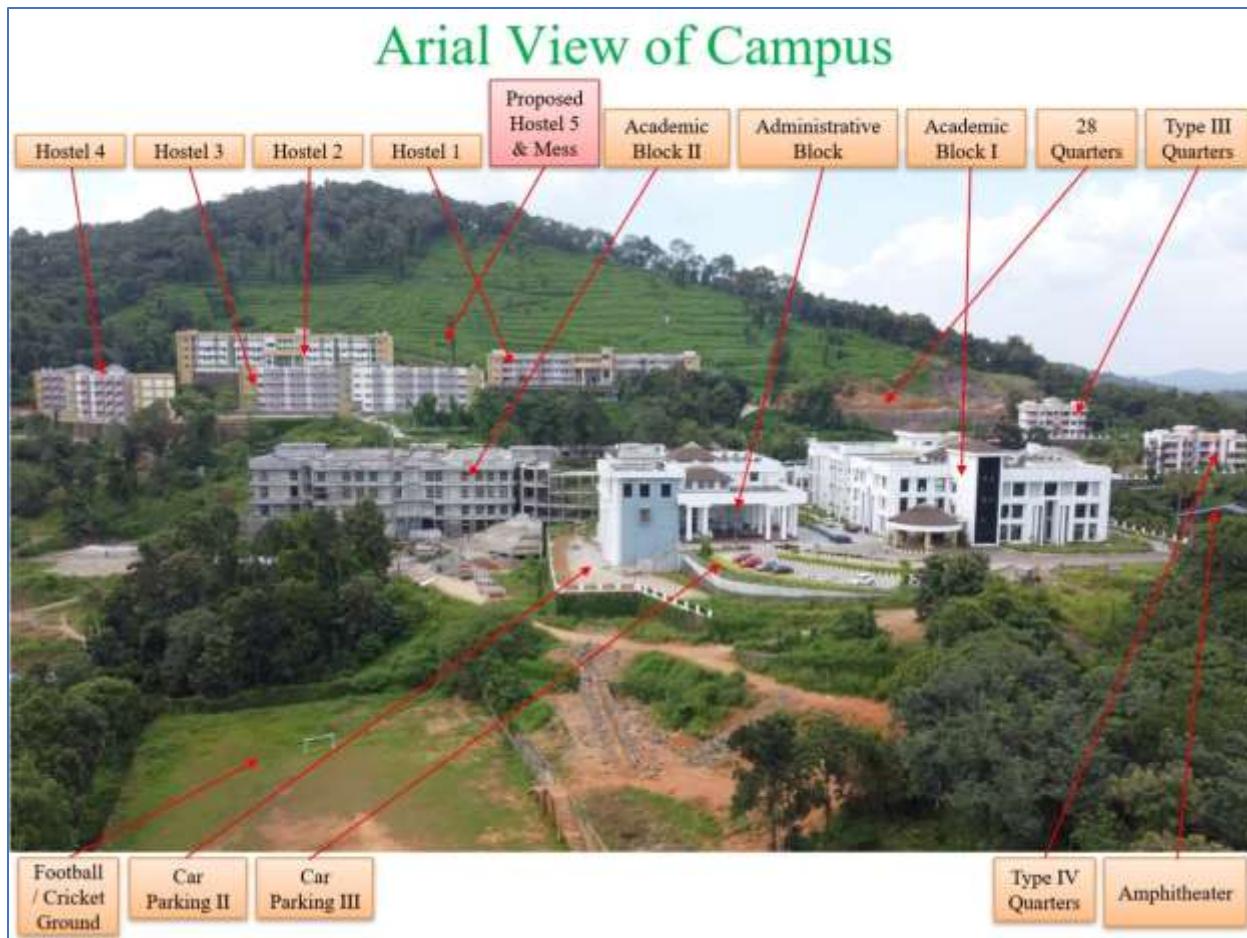
Atal Incubation Center (AIC – IIIT K) by NITI Aayog

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

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 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
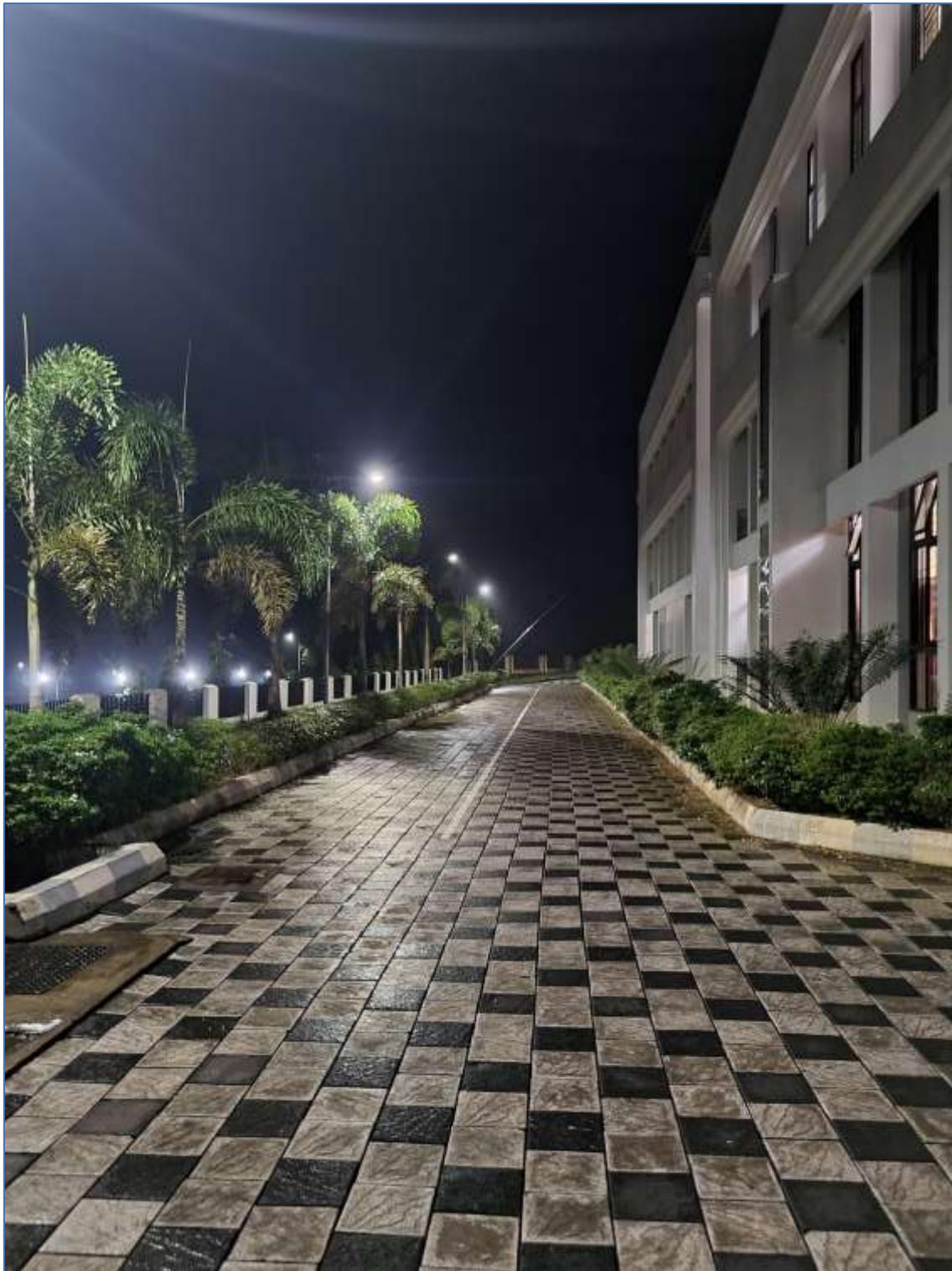
Academic Block 1

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
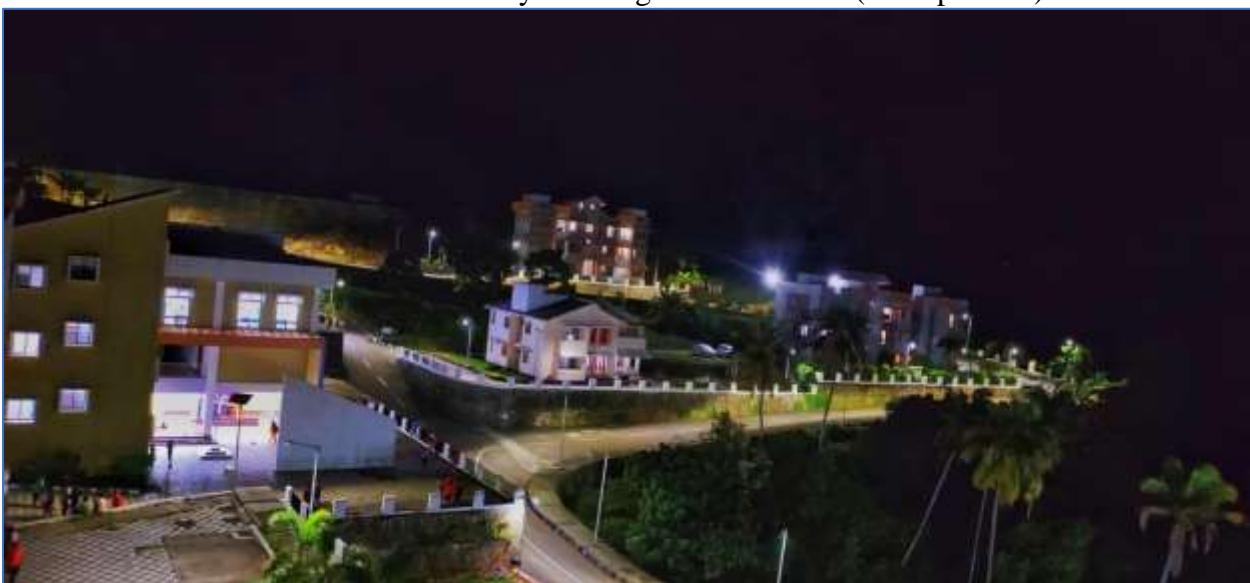
Entrance Gate

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
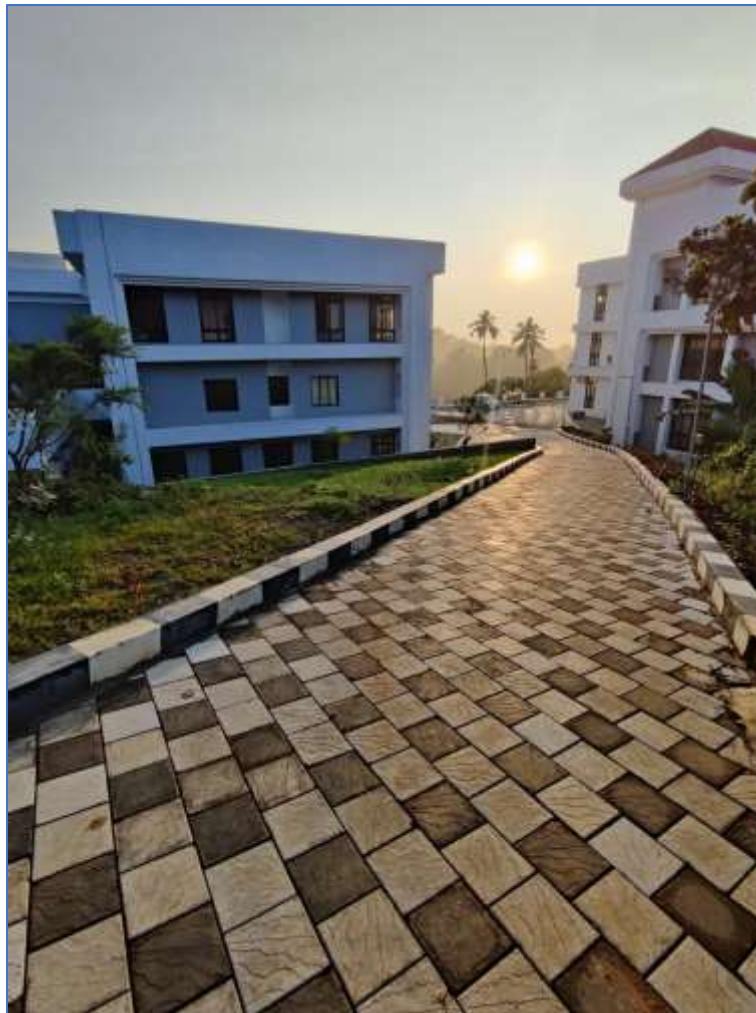
Path way (Behind Hostel 3)

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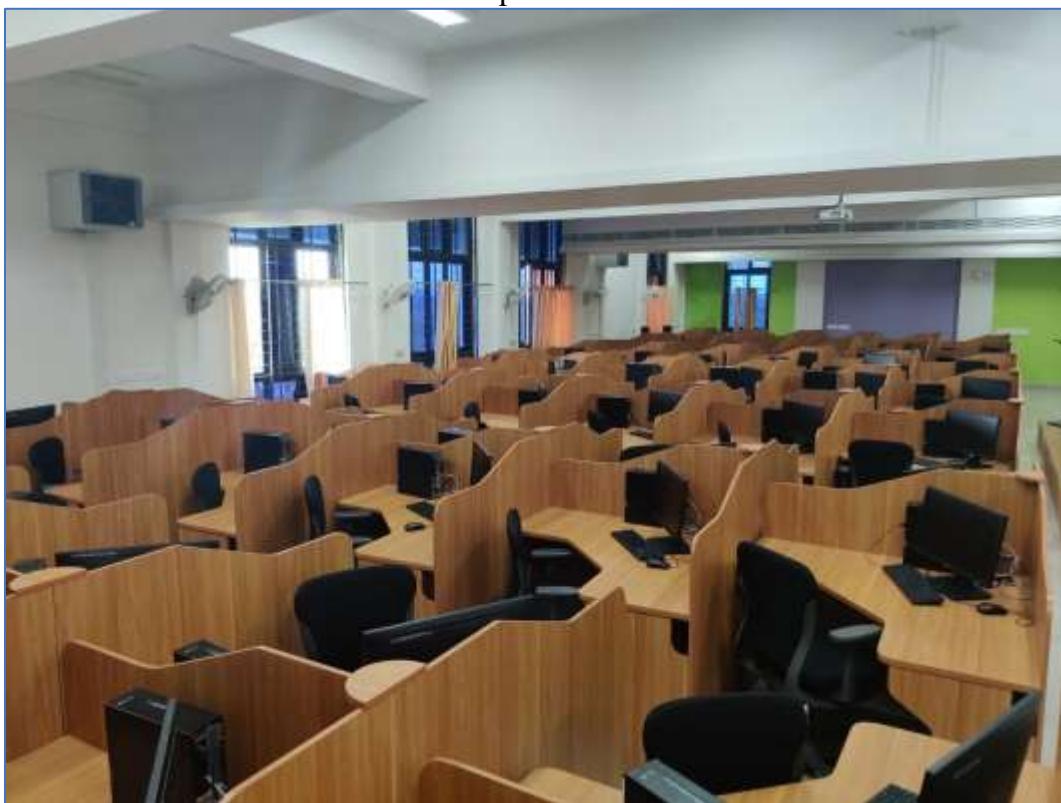
Computer Labs
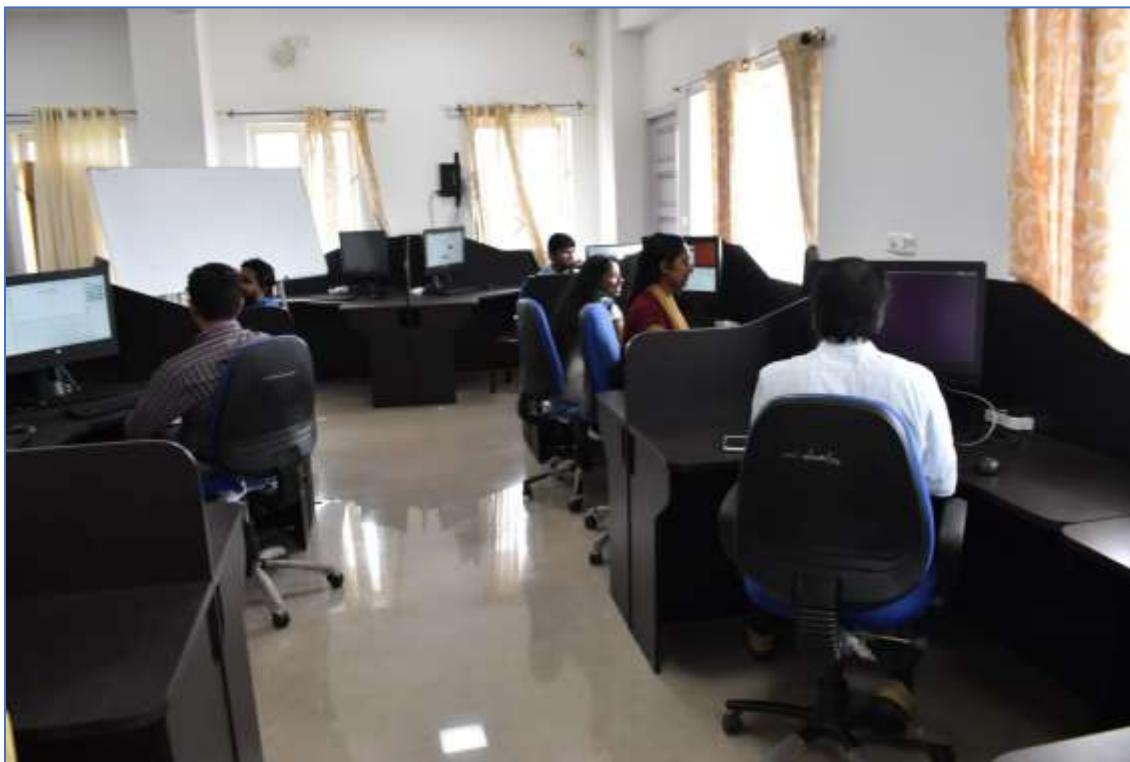
7 Multipurpose Halls - Classrooms cum BYOD Computer Labs - Academic Block II

Computer Labs

BYOD Lab
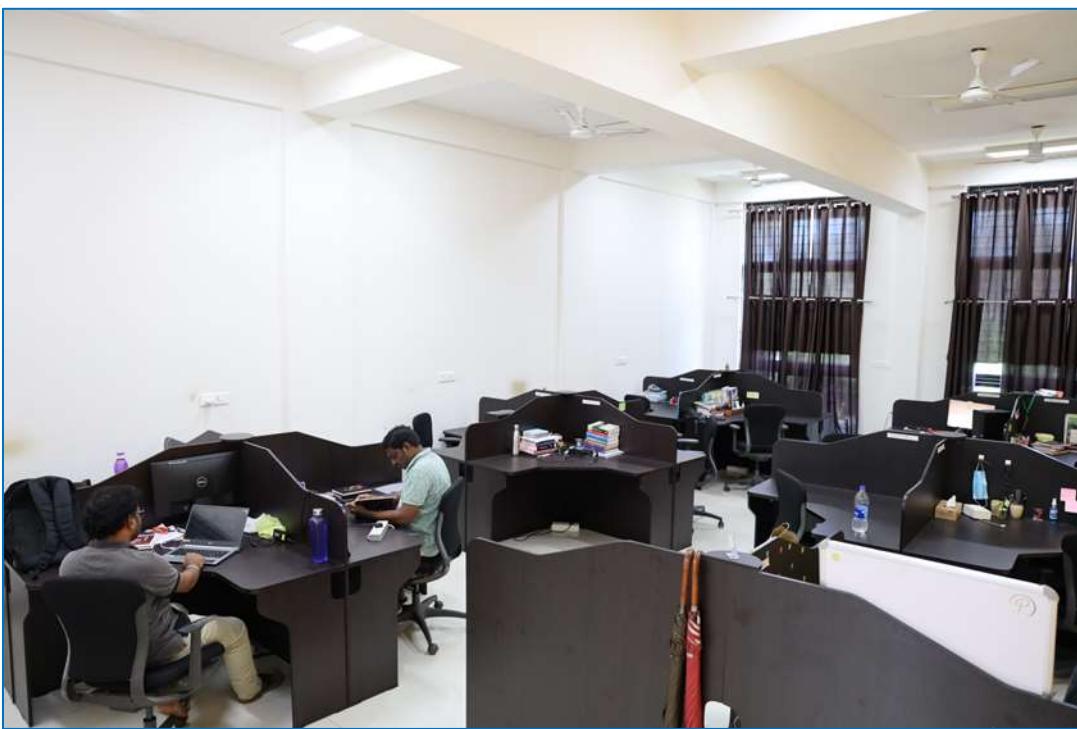
Lab for 95 Ph.D. scholars

Lab for 95 Ph.D. scholars

Lab for 95 Ph.D. scholars

Cyber Security Laboratories

Electronics Laboratories

4th Training Program on "Cyber Security and Digital Forensics" for Kerala Police Department by Department of Cyber Security of IIIT Kottayam

Classrooms
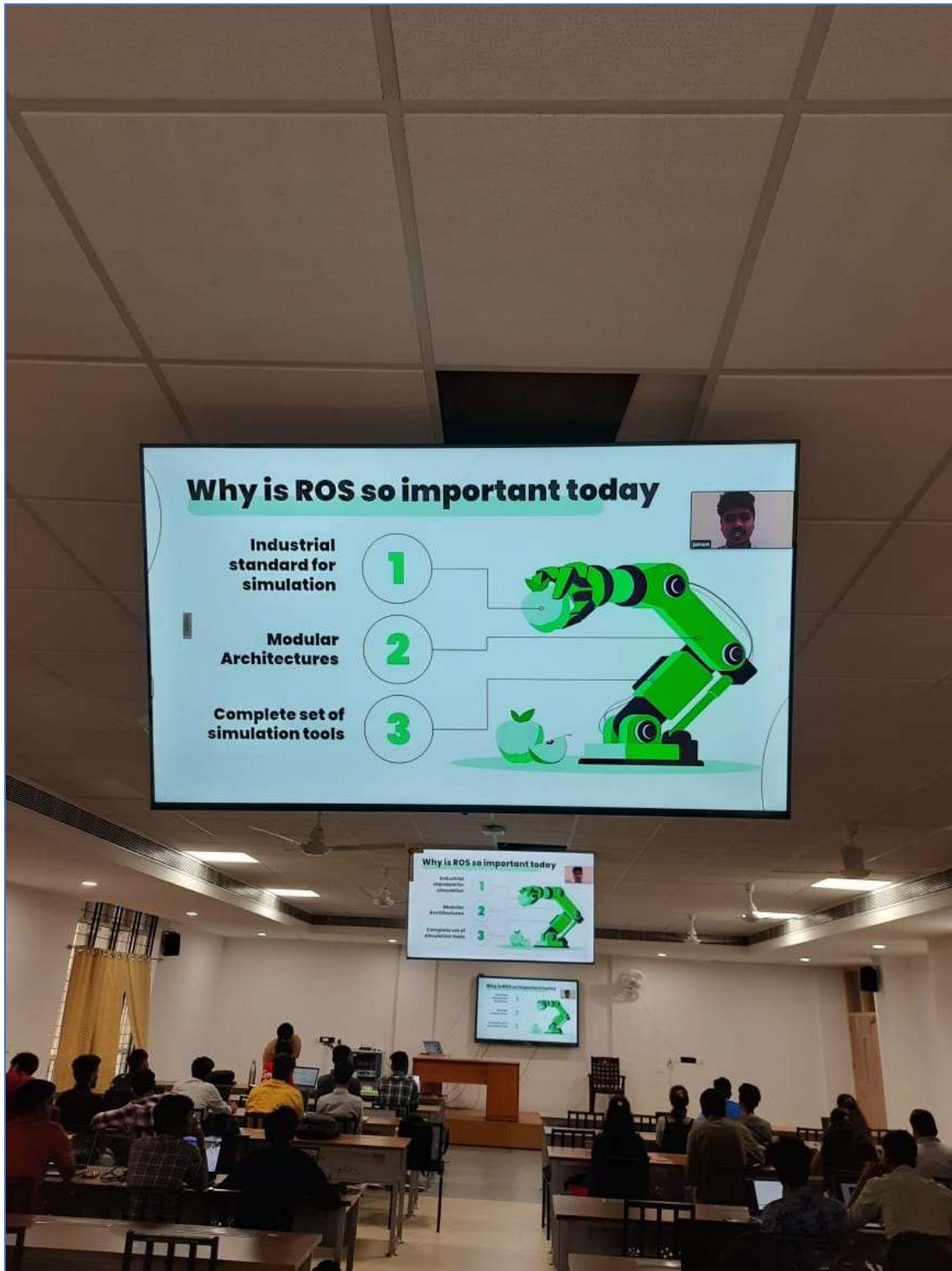
Classrooms

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)
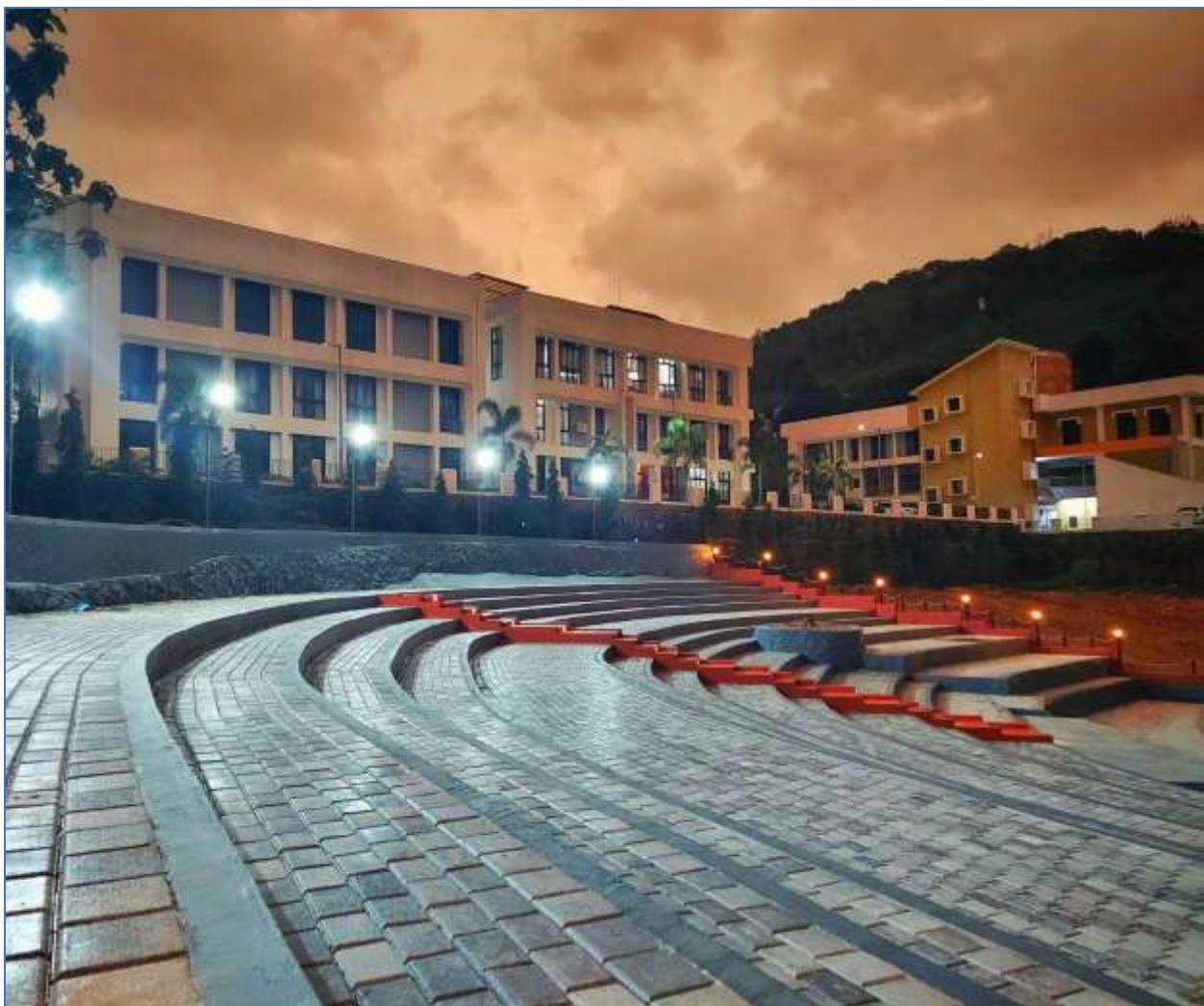
Amphitheater (Open Air Theatre) during night

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
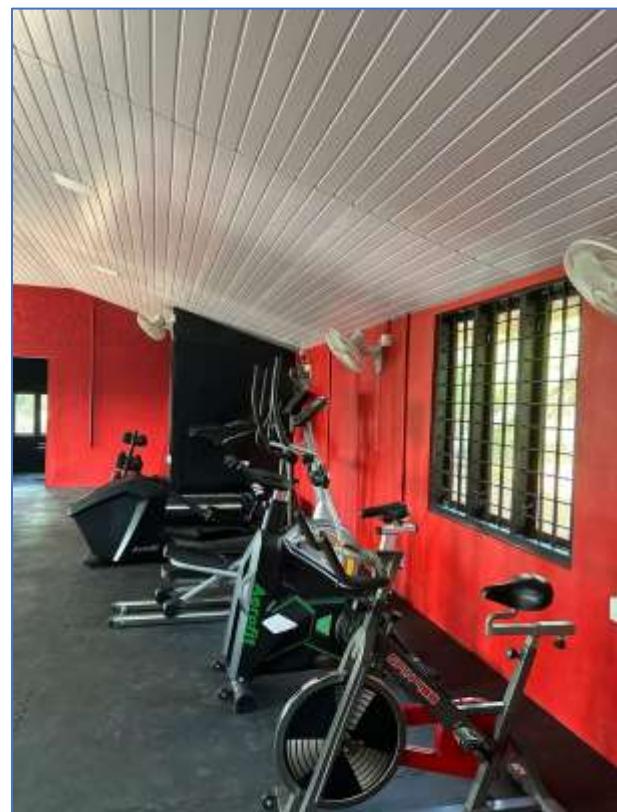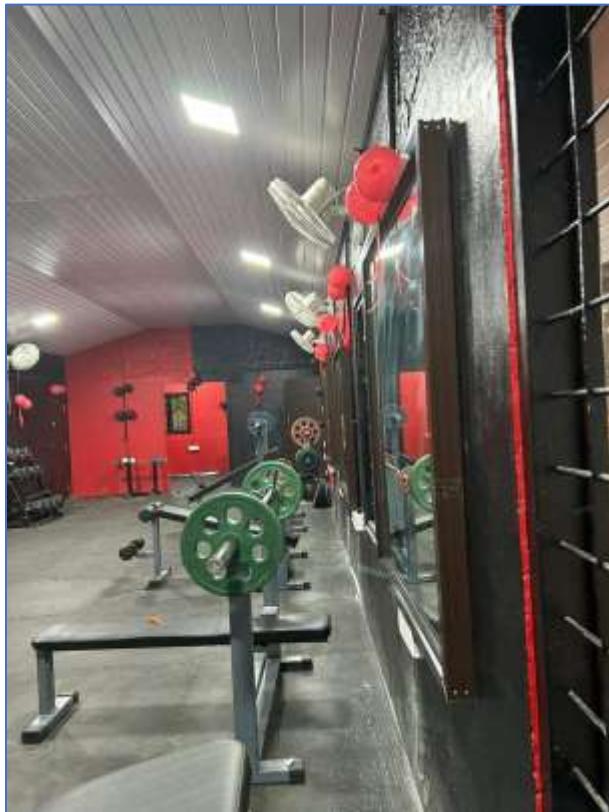
Staff Quarters

Staff Quarters: Behind the Amphitheater (Open Air Theatre)
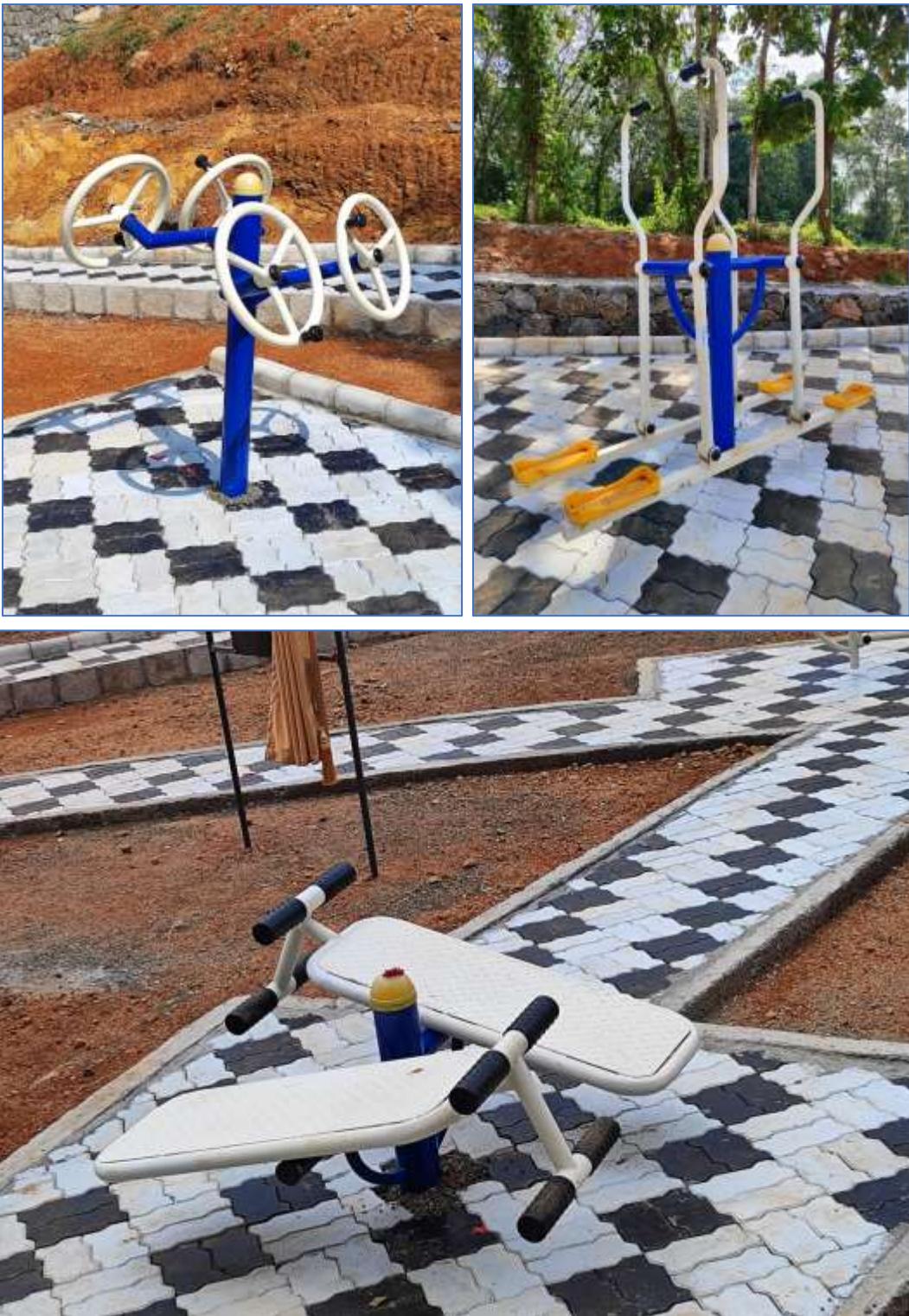
Indoor Gymnasium - Through Internal Revenue Generation (IRG)

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
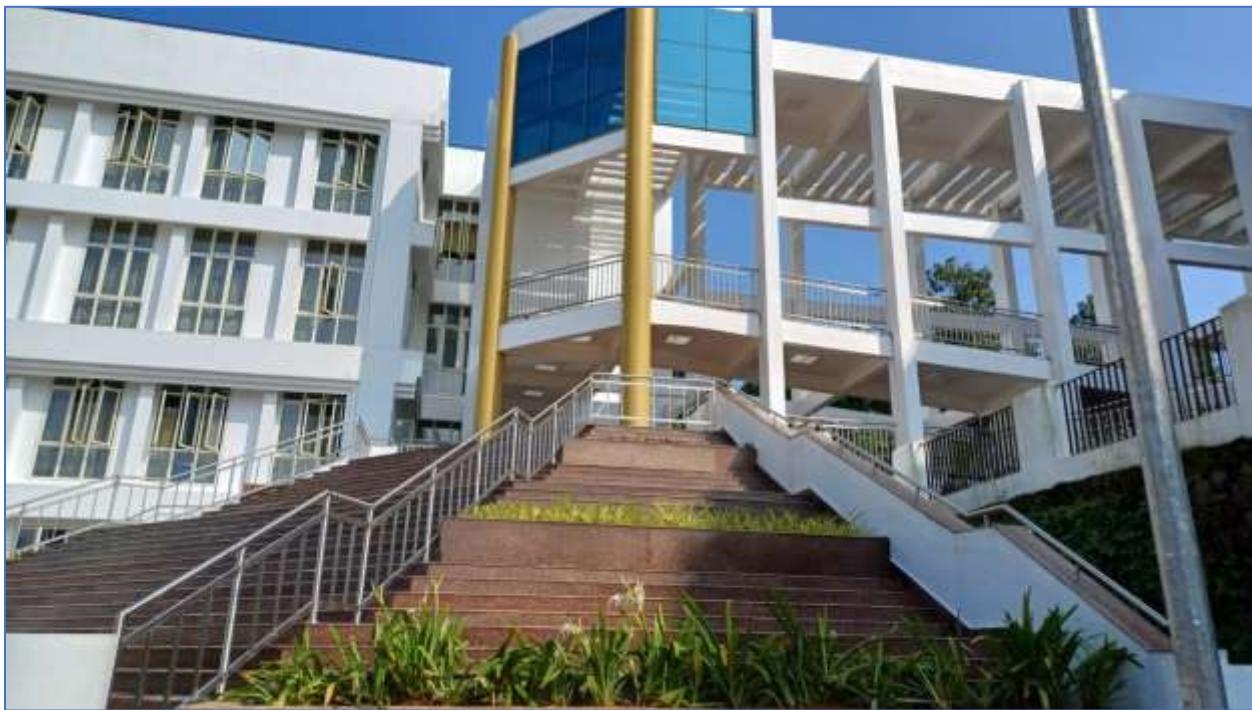
Academic Block 2

Academic Block 2

Academic Block 2

Entrance of Academic Block 2

Entrance of Academic Block 2

Entrance of Academic Block 2 and Administrative Block
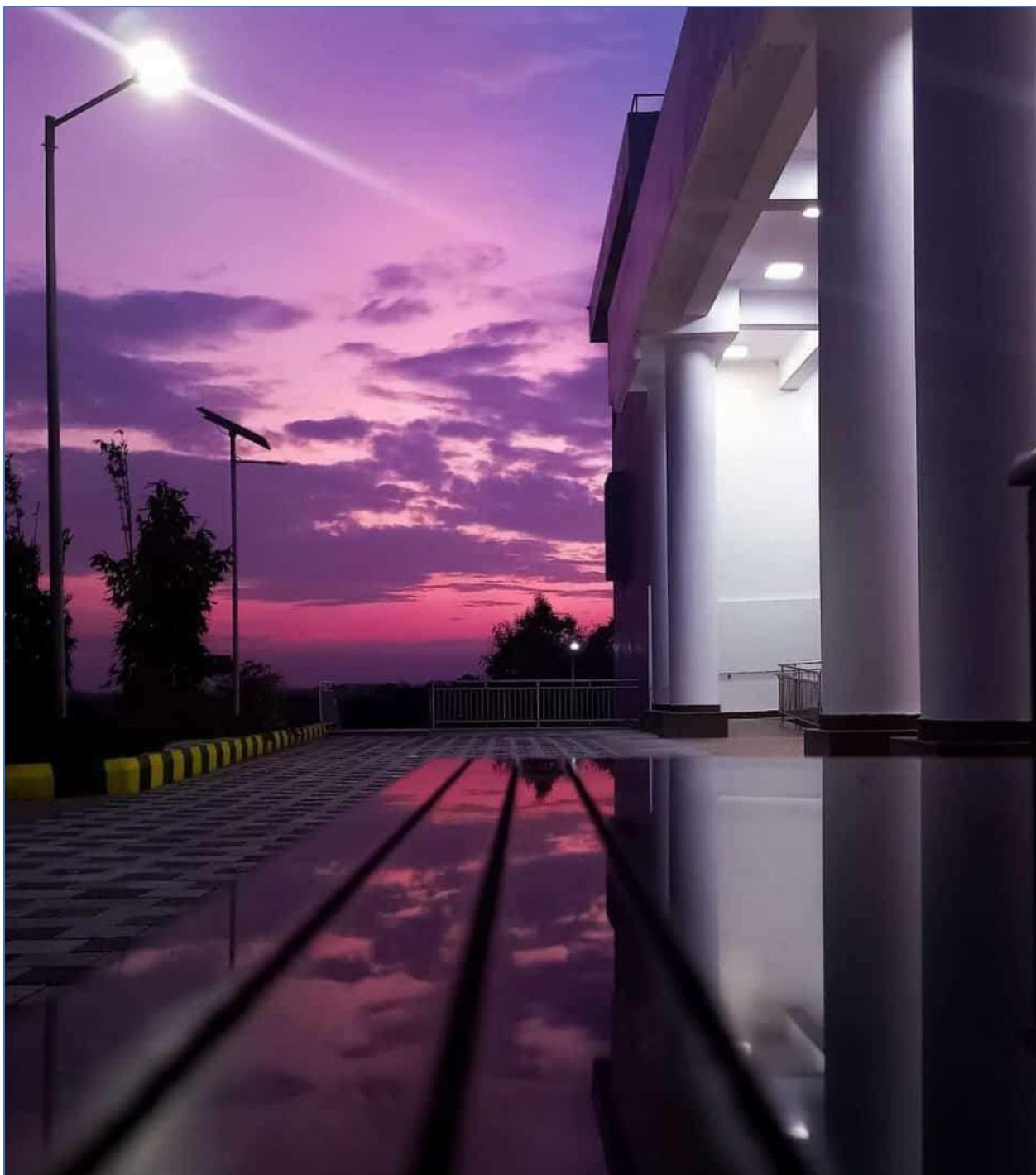
Entrance of Academic Block 2

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

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

IIIT Kottayam Campus

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

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

Sigle Storied Hostel for PhD scholars – Under construction - Through Internal Revenue Generation (IRG) (3 Jan 2023)
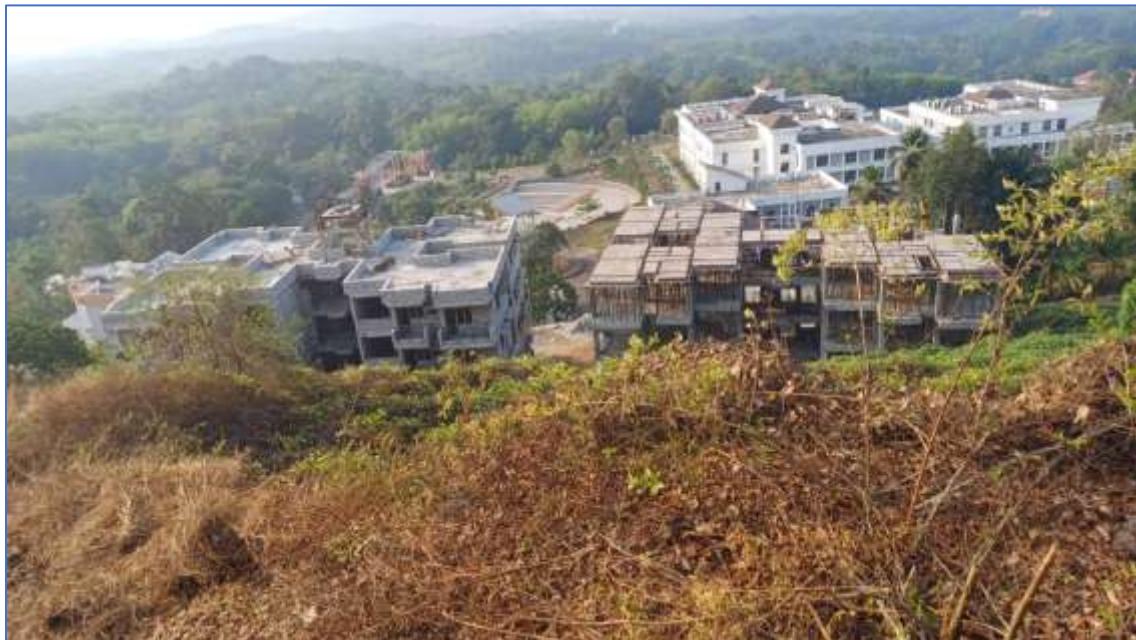
28 Staff Quarters Both the Buildings– Under Construction – Through Internal Revenue Generation (IRG) (on 03 Jan 2023)

28 Staff Quarters 1st Building – Under Construction – Through Internal Revenue Generation (IRG) (on 05 Feb 2024)
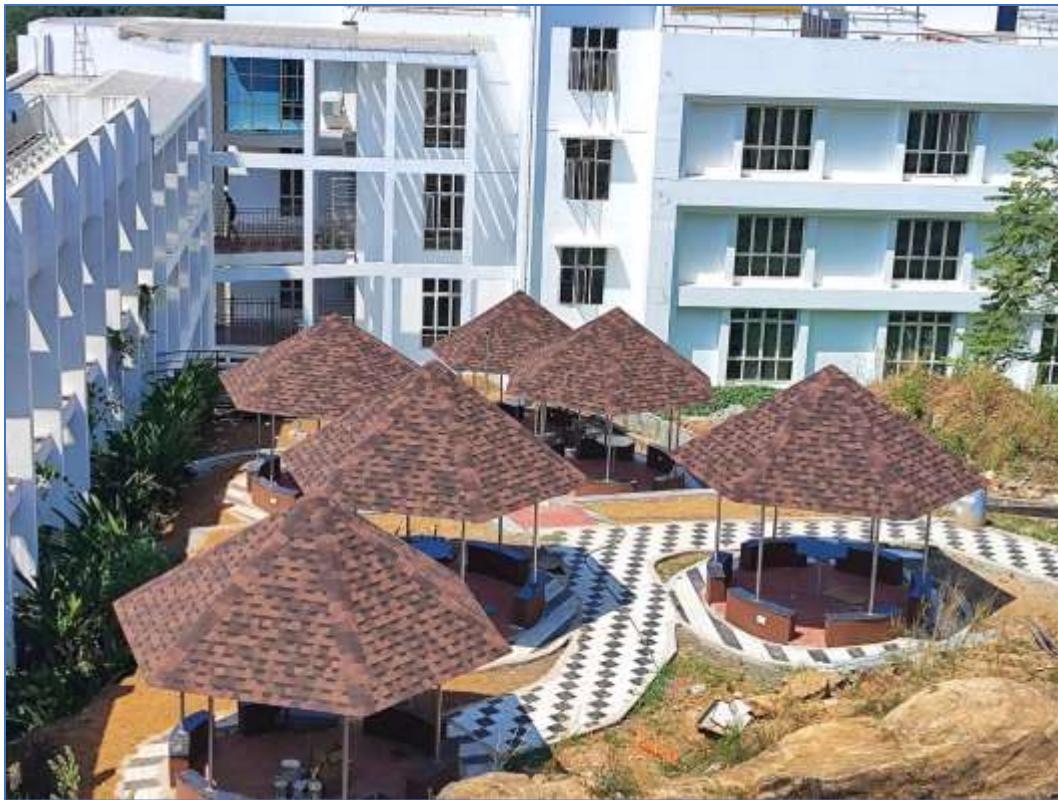
28 Staff Quarters 2nd Building – Under Construction – Through Internal Revenue Generation (IRG) (on 05 Feb 2024)

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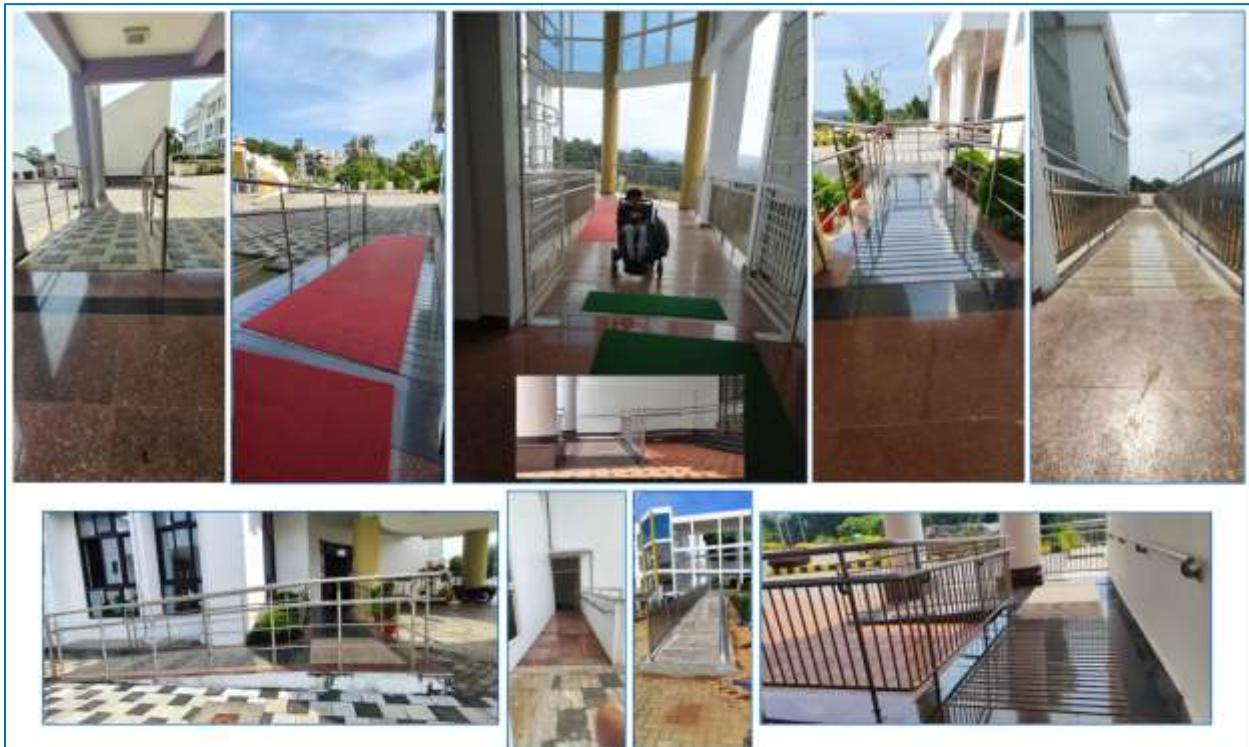
New Cafeteria - Under Construction - Through Internal Revenue Generation (IRG) (06 March 2024)

6 Car and Bike Parking places

Car Parking places

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

Green Campus – Attracteing Precious Visiters - Peacocks

Appendix: Details of Project Funding Proposals

1. List of 103 Sanctioned Research / Project Funding Proposals of Rs. 27.04 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

342/382

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 predictions5000 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. Victer 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. Victer Paul (1) + Joint Projects (1)				
38.	AICTE ATAL FDP	Sensor Data Analytics	93000	Dr. Victer Paul
39.	MSME	AutoHire - An AI-Based Automated Technical Interview Solution	1500000	Dr. Victer 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. Victer 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
Dr. Rubell Marion Lincy G				
57.	Unisys India Pvt. Limited	Financial fraud detection using Quantum Machine Learning	2985000	Dr. Rubell Marion Lincy G
58.	Unisys India Pvt. Limited	Credit Risk Analysis using Quantum Machine Learning	2985000	Dr. Rubell Marion Lincy G
Scholarships for Ph.D. scholars				
59.	45 scholarships from various funding agencies		93000000	Please refer scholarship Table
Total			27.04 Crores 270433902	

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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
13.	4th 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 Monitoring and Analysing the Physiological Data of Patients having Contagious Diseases	1620000	Dr. Panchami Guide Prof. Rajiv Dharaskar
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
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
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. Victer Paul (3)				
36.	MeitY	Development of an Intelligent Mobility Model to mitigate CO2 emission for alternative fuel vehicle in India	3620000	Dr. Victer Paul
37.	R&D in IT Group, MeitY	Development of an Artificial Intelligence based	3620000	Dr. Victer Paul

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
		Embeddable Application Module to Estimate and Mitigate Carbon Emission by Alternative Fuel Vehicles in India		
38.	SERB under Special Call for Proposal scheme	Smart Pulse Diagnostic Kit using the Ayurveda Principles and Artificial Intelligence Techniques	2566640	Dr. Victer 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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
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
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
71.	Templeton Foundation	Climate change and Artificial Intelligence: From a Responsible Computing Perspective	25000000	Dr Ebin Deni Raj
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
75.	UNESCO	Generative AI in education and research	100000	Dr Ebin Deni Raj
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

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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
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	600000	Dr. Divya Sindhu Lekha

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
		Functional Brain Networks - A Graph Theoretic Analysis		
Dr. Bini A.A. (4) + Joint Projects (1)				
100.	SERB-DST	A study on phase retrieval from the magnitude data using regularization approaches for reconstruction of the data.	600000	Dr. Bini A.A.
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)

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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
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

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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
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
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
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 Faciltity 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	Integrating Industrial Metaverse and Industry 4.0	3339960	1. Dr. Ragesh G K 2. Mr. Anuroop K B

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
	(Going Global Partnerships Industry Academia Collaborative Grant)	for the next generation work force- Skill Development Programme		Collaborating Institutes: • University of Glasgow, UK, Dr. Onireti Oluwakayode (Professor, University of Glasgow, United Kingdom) • 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: • 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: • 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	3500000	Dr. Ragesh G K

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
		Integrated Waveguide for 5G and Beyond Networks		
155.	British Council	Integration of Industry 4.0. and IoT in Sociotechnical Processes: A Data Analytic Approach for Enhanced Decision Making and Productivity	3900000	Dr. Ragesh G K
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
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. Jayakrishna Sahoo, Dr. Ragesh GK
Dr. Nandini J Warrier (1)				
168.	KSCSTE (Kerala State Council for Science Technology and Education)		1075800	Dr. Daphna Chacko (PI), Dr. Nandini J. Warrier (Co. PI)
169.	Indian Council for Social Science Research	Computational Representation of Kathakali Mudras for an Automated Semantic Translation	450000	Nandini J. Warrier Manu Madhavan Arun B. Warrier (Kerala Kalamandalam)
170.	Kerala State Council for Science Technology and Environment	A Computational Framework for Automated Semantic Translation of Kathakali Mudras	1800800	Nandini J. Warrier Manu Madhavan Arun B. Warrier (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. Warrier
172.	SHRI	Interpretation and Analysis of Kathakali Mudras- A Computational Approach	2301150	Dr Nandini J Warrier., 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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
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 Deep Learning-based Image Processing Methods	4374100	PI: Dr. Lidiya Lilly Thampi C0-PI: Dr. Cinu C Kiliroor Dr. Jaseena K U (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	960000	Mentor: Dr. Shajulin Benedict

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
		enabling better decision making		
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 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.	4036800	Dr. Bhanu Chander
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	3000000	Dr. Athira B Dr. Suchithra M S

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
		personalized concerns about health		
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
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				

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty Involved
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)
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					

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty / Incubates Involved	Sanctioned
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
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty / Incubates Involved	Sanctioned
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
34.	MSME	AI	1500000	Dr. Shajulin Benedict Via. Mr. Sreerenj 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	ENBERGY CARRIER FOR ELECTRIC VEHICLE	1500000	Srisivahari	Submitted
45.	MSME	EV charging station locater 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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty / Incubates Involved	Sanctioned
49.	MSME	Infnitev 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
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty / Incubates Involved	Sanctioned
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
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty / Incubates Involved	Sanctioned
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
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

SN	Project Funding Agency	Project Title	Funding in Rs.	Faculty / Incubates Involved	Sanctioned
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
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
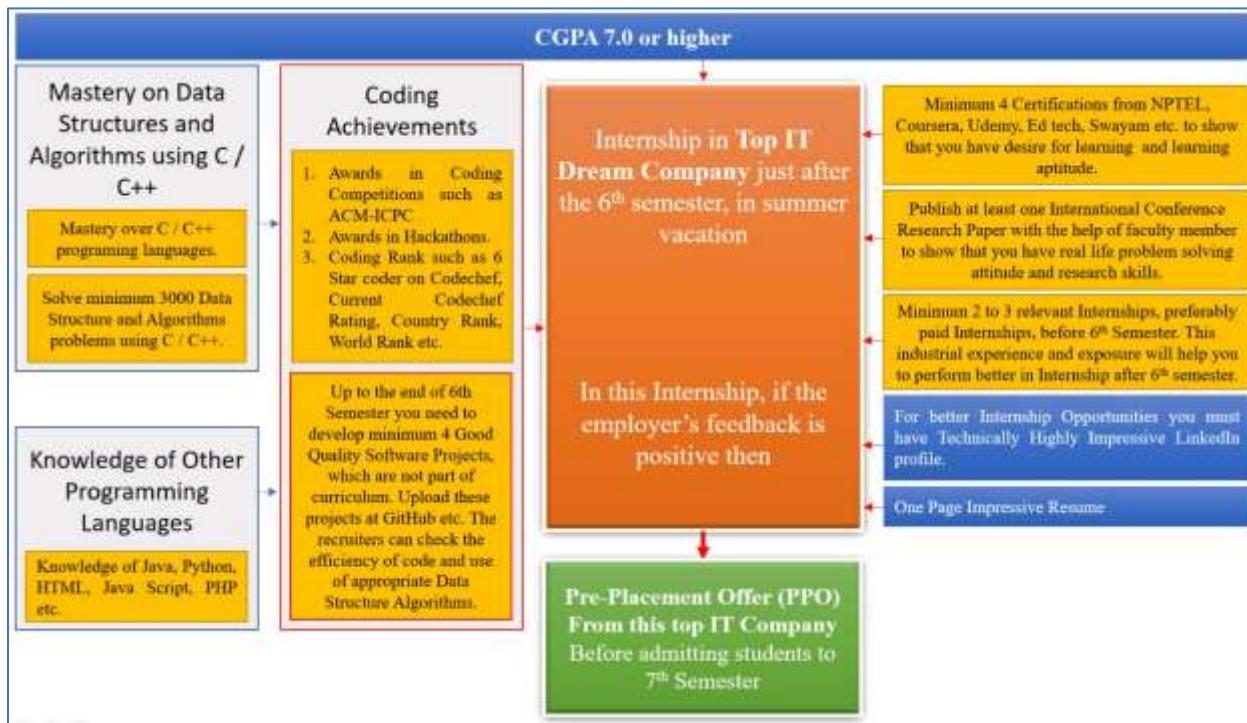
3.3. Recently submitted 50 innovation – start up projects worth Rs. 7.5 Crores by IIIT Kottayam faculty members

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. Victer 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	THOOYAN 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 Paralized / Permatently Disabled Patients	1500000	Dr. Shajulin Benedict (Via. Nodal)
44	MSME	IoT For Precision Agriculture	1500000	Dr. Shajulin Benedict (Via. Nodal)
45	MSME	Winqqer is an AI based Indian online social media and social networking service owned by Winqqer 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)

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.
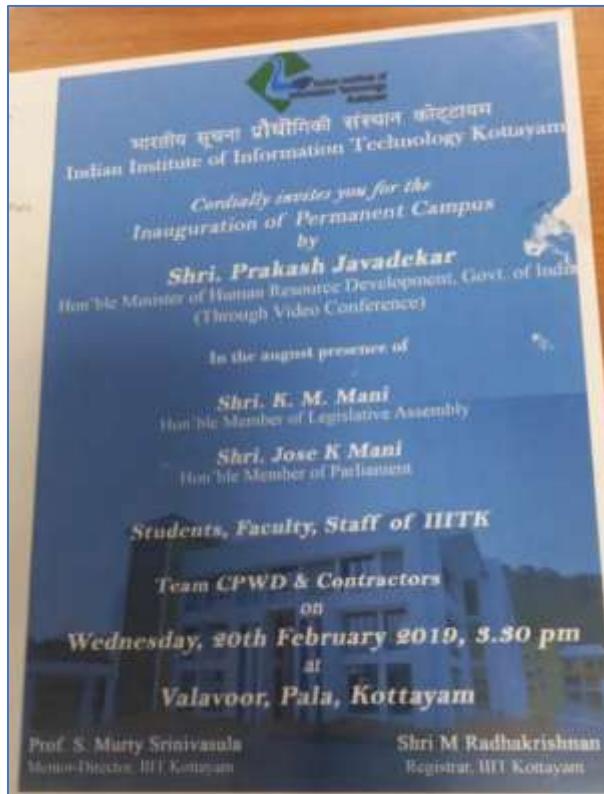

Fig. 11: Inauguration of IIIT Kottayam

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	The buget of 2024-25 would be around 60 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	A total of **49 fellowships** to Ph.D. and Post-Doc scholars 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 Computer Departments of 18 IITs 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)	2000+ including BTech, MTech, iMTech (BCA, MCA), PhD and Post Doc (10 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	**108** students got awards / prizes / ranks in national and global competitions.	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 2nd Phase in Aug 2023. Already started 3rd 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): • Two buildings (4 storey each) for 28 Faculty Quarters, • Completed the Sigle storey Hostel building for PhD scholars and • 5 storey 5th UG Hostel building Other construction work: • 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 • 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
			• MTech in Big Data & ML • MTech in Cyber Security • Integrated MTech with BCA and MCA Admitted **250+ MTech students** from **200+ Leading IT Industries & Organizations**, which includes candidates with more than 10 years of IT industry experience.	
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	4 programmes. First Post Doc scholar has joined at IIIT Kottayam in Aug 2022, with CM Kerala scholarship. Around 5 external candidates applied under various schemes. Second one completed Post Doc under TamilNadu Government Young Scientist Fellowship. Third one will join soon under MeitY - Visvesvaraya PhD Scheme.	First IIIT in PPP mode.
19.	Launch / Launching Few courses first time in India	Nil	• 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 12th for Working Professionals with lowest fees structure	
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: 53 – 6 times Citations: 14904 – 11 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 13 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 **225+** 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, France, Germany, Iran, Ireland, Italy, Japan, Kuwait, Luxembourg, Malaysia, Mexico, Netherlands, Norway,	

SN	Parameters	In 2019	In 2024	Comparison
			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 6 International IEEE Conference and Organizing 3 International Conferencves till Dec 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 50 and few more are in pipeline. 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				
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	

SN	Parameters	In 2019	In 2024	Comparison
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	Few more projects: • 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 Similarly, 6 more proposals for Incubation Centers are in pipeline such as • "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) • Raise Project Establishing STI Hubs for ST Communities in Attappadi Taluk of	One of the Highest among all IIITs in PPP mode.

SN	Parameters	In 2019	In 2024	Comparison
			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. IIIT Kottayam has organized major events related to Innovation such as • 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 Attracted over 50 mentors across the globe etc.	
41.	1 Credit courses	Nil	By • TCS, • Google • TUM Germany (every year) • NIT Director	

SN	Parameters	In 2019	In 2024	Comparison
			• 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**.