



2021

# PLACEMENT BROCHURE



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Indian Institute of Information Technology Kottayam, Kerala is one among the IITs that have been established as "Institutions of National Importance" by the Ministry of Education, Govt. of India through IIIT PPP Act (2017) under Public-private partnership mode sponsored by Government of India, Government of Kerala and Industry partner in the investment ratio of 50:35:15, gearing up under the leadership of Dr Rajiv Vasantarao Dharaskar, (Director), Shri. M. Radhakrishnan (Registrar), and Academics. IIIT Kottayam campus is situated at Valavoor, Pala, Kottayam - a picturesque location, spread over 53 acres of land - allotted by Govt. of Kerala in the southern part of the state commonly referred to as God's Own Country.



was shifted to Gulati Institute of Finance and Taxation (GIFT) campus at Thiruvananthapuram. IIIT Kottayam started functioning in its permanent campus from January 2019 which was officially inaugurated by Shri Prakash Javadekar, Honorable Human Resource Minister on 20 February 2019 through video conferencing.



IIIT started its functioning in June 2015

The Institute offers 4-year B.Tech and B.Tech (Hons) program with specialized courses covering all major research domains of Computer Science and Engineering, including Data Science, Cloud Computing, Artificial Intelligence, Ma-

chine Learning, Parallel Computing, HPC, Programming Languages, Bioinformatics, so on and forth. The Institute also offers a 4-year B.Tech and B.Tech (Hons.) program in Electronics and Communi-



cation with specialized courses covering all major research domains like Signal Processing, Communication, Networking, VLSI design, Embedded Systems, Com-



puter Vision, and Applied Electromagnetics. The students are admitted against the JOSAA/CSAB counselling against the JEE main rank list. In addition, the Institute also offers PhD programs in CSE, ECE and Mathematics as well as M.Tech in AI & Data Science for the working professionals. IIIT Kottayam is composed of world-class qualified faculty members who are eager to continue research and contribute to the society along with their wards.

### **Entrepreneurial Ecosystem**

IIIT Kottayam is designed in order to impart an entrepreneurial ecosystem on the campus. For instance, AIC-IIIT-Kottayam, an incubation centre of IIIT Kottayam, is a vital resource to IIIT Kottayam's students; AIC-IIITKottayam is a

10000 sq.feet incubation unit supported by AIM-NITI Aayog of India to the tune of Rs. 3.46 crores. It has attracted connections with leading industries, including RELIANCE JioGenNext for motivating our student startups and for promoting student/faculty exchange. In addition, it has established an Entrepreneurial Innovation Club jointly with Wadhwani Foundation, an MNC from the Silicon Valley, USA. IIIT Kottayam, thus, helps students to continue championing their career and attain goals with entrepreneurial support. It provides tens of thousands of opportunities for them to develop their business ideas or thesis to products through MSME schemes – For each successful business idea, our MSME Business Incubation unit could offer Rs.15 lakhs for students.

### **Research and Development Eco-system**

Research is one of the most important parts of IIIT Kottayam's culture. Students are educated about the benefits of research from very early.



- IEEE (Institute of Electrical and Electronics Engineers) Student Branch was formed in IIIT Kottayam in 2020, which belongs to the IEEE Kerala Section.

- IIITK also has an ACM Student Chapter providing seminars, lectures, learning

forums and networking opportunities with peers and experts across the computing spectrum.

- Multiple research papers have been published under reputed journals by a number of Undergrads, Doctoral candidates, and professors from IIITK.

- The ICITIIT conference is held at IIIT Kottayam annually. In 2020, the conference invited



scholars from around the world, presenting their papers, and giving lectures covering recent trends in ICT. The event was co-sponsored by IEEE Kerala section, IEEE-USA, AIC-IIITKottayam, and NIT-Calicut.

#### **International Collaborations**

The Data Science research team of IIITK have been awarded an AI For Earth grant from Microsoft to help further our efforts in scaling new heights in Artificial Intelligence for Detection and Classification of Diseases in Rice and wheat

- The Institute has signed an MoU with Tech-



nische Universität München Germany. This has channelized faculty visits with credit courses to and from TUM Germany which boost the research and development activities at the institute. We have also established a collaboration with TUM Germany for undertaking collaborative teaching of selected courses to UG students.

- IIIT Kottayam is the official Indian Technical partner for a European Consortium project funded by Volkswagen Foundation and part-

nered with German Research Center for Artificial Intelligence. The Full Grant will fund a 1.5 million



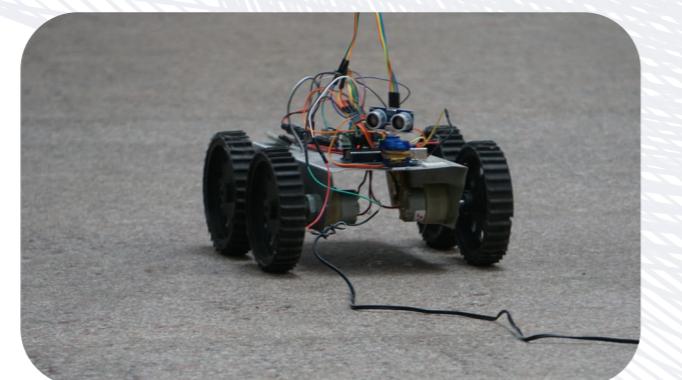
EURO research program for 4 years.

- The Institute has signed an MoU with University of New Brunswick (UNB) Canada. IIIT Kottayam and UNB shall promote collaboration through a broad range of strategies such as Staff exchange, Student exchange programmes at the undergraduate level, Study abroad programmes at the undergraduate level, postgraduate level and summer schools.

- The collaborative research project with the



University of Klagenfurt is ongoing, where we are involved in designing energy-aware compilers for Heterogeneous systems which aims identifying the bottlenecks of existing workflow applications with more emphasis on energy reduction approaches.



IIIT Kottayam has demonstrated rapid progress in its four years of existence. Having managed to set up a permanent campus despite the terrible weather conditions and the back-to-back floods, is testament to the resilience of our faculty. One among the other innovations is a fully functioning student run mess committee which manages to serve 300 students 3 meals a day along with snacks. Moving higher on Maslow's hierarchy of needs, our students' need for intellectual stimulation is readily satisfied by a dynamically changing syllabus sensitive to the developments of the industry.

We wish to instil the temperament of research in our students and thus have architected a syllabus focusing on emerging fields in data science and artificial intelligence. To give our students an understanding of how management of funds and people takes place in the real world we have also decided to introduce single credit business courses into our syllabus. The combination of the two disciplines gives our students an all-rounded perspective of the industry's challenges and prepares them to take on any situation head-on.

Indian Institute of Information Technology, Kottayam, is a budding institute bound to reach heights, the likes of which have never been seen before. Institute has its own permanent campus with world class facilities are provided to both teachers and students. In order to ensure that the primary objective of education is never pushed below by presence of trivial issues. Separate hostel accommodation is provided for boys and girls. All the hostels have common rooms, 24-hour Wi-Fi-connectivity and recreational centres where newspapers, magazines and TVs are available.

Retired army personals (minimum 15 years of experience in army) through Army Welfare Placement Organization (AWPO) are deployed for taking care of security of entire IIIT Kottayam. The campus is equipped with an internet band width of 1 Gbps with Wi-Fi access, thanks to the service of the National Knowledge Network that our institute enjoys. Internet connectivity is also extended to Boys and Girls hostels with no restriction on timing or limit for the internet usage. And this is not the end, for the facilities are continuously improving and being added in order to ensure the comfort of those, who represent what the foundation of this institution is built upon; the brilliance of students.

With the world moving at an extraordinary pace, it is of utmost importance to provide a curriculum that is dynamic enough to cope with it. Ensuring that is the IIIT Kottayam's number one priority. The institute currently offers BTech, BTech honors, BTech - MS, MTech for working Professionals and Ph.D. degrees in computer science engineering, electronics and communication engineering. Highly motivated teachers with Ph.D.s from reputed national institutions form our vibrant faculty. IIITK's strong faculty, diligent students, and industry partnerships ensure a continuous stream of high quality engineering graduates. This drive for a high quality education has guided our efforts to build a seamless online class experience during the unprecedented pandemic of 2020-2021. Our administration and faculty left no stone unturned to ensure that new and current students were able to continue their studies and progress toward their graduation even from remote locations. Remote education was complemented with a new paradigm of tests, examinations and student support to minimize any adverse impacts from the pandemic.

IIITK prides itself in the balance that it strikes between academic courses and entrepreneurial experience provided to our students. Our startup incubator, professional associations and industry collaborations are testimony to the emphasis IIITK places on presenting well-rounded engineering graduates to enter and grow into leadership positions in industries. IIITK welcomes and encourages top tier firms to visit our students on-campus or virtually to pick up our top talents and become instrumental in their professional development.

# MISSION AND VISION

# COURSE CURRICULUM

02

## The vision and mission of the IIIT Kottayam shall be

1. To be premier research-led Institution of international class in their respective fields of specialization.
2. Become a leader in knowledge generation and innovation.
3. Create wealth through entrepreneurship and IP generation. The focus will be to turn the innovators/researchers into technopreneurs. Even the faculty/research scholars shall be encouraged to move out and become entrepreneurs.
4. Capacity building with a focus on high-end research and technology development.

## While embracing above, IIIT Kottayam strive to

- a) Promote innovation in teaching, research, attracting talent and in institutional management and overall academic ecosystem of the institution.
- b) Crave out niche areas of informatics as unique specialization.
- c) Create a unique academic culture in the country.
- d) Prepare the younger generation for a future that is difficult to imagine and look at the future as not merely to be imagined/predicted, but also to be created/invented through directed evolution.

The unique IIIT Campus in Kottayam, Kerala, is expected to be an embodiment of the values that the IIIT espouses so as to highlight the scientific outlook of the institute. The campus is designed to have greenery and green cover such that it would be liveable without air-conditioners wherever possible.

The center of the campus is designed to have a mangrove that would highlight the eco-concern of the institute. Efforts are initiated to use electric vehicles inside the campus. Use of public transport, as well as car-pooling, is declared as a mandate of the normal functioning in the permanent campus. Provision for solar and wind energy is also made in the master plan apart from building the campus walls with recycled materials.



# FACULTY

One of the primary features of the courses offered in IIIT Kottayam is its flexibility and compliance with the industry's standards. A student in his first two years of study set to become a programmer competent enough to parallel his contemporaries students who graduated from other institutes. We impart fundamental Computer Science courses along with foundational mathematical logic like Discrete mathematics that improves students' logical thinking capability. Courses on Digital electronics helps to deepen one's understanding of the fundamentals of a computer's construction.

A balanced curriculum for industry and research is imparted to those in their third and final years of study, compliant with several international benchmarks. Data Science and Artificial Intelligence is attended to with extra care. In their third and fourth years of study knowledge of the fundamental workings of deep learning neural networks and distributed systems is deeply looked into besides also imparting knowledge in the domain of business.

#### **Bouquet Courses:**

- Advanced Computer Networks
- Data Communication
- Advanced Database Systems
- Embedded Systems
- Mobile Networks

#### **CS Electives:**

- Parallel Algorithms
- Advanced Network Security
- Human Computer Interactions

#### **Other CS Stream Electives:**

- Speech and Language -> Digital Signal Analysis and Applications
- Speech and Natural Language Processing - 1
- Speech and Natural Language Processing - 2
- Natural Language Dialog Systems



# TECHNICAL TALK '5



1.A talk on “Identity Management on Computing” was given by a PhD student Mr. Rajesh P S, Associate Director, Cognizant on 21st August 2019.

2.On 30th September, 2019 Mr. James Varkey the Enterprise Systems Consultant from Litmus7 spoke about “Technologies in the Retail Industry”.

3.Ms. Nandita Menon, Digital Business Consultant from Rapid Value on 09th October 2019 spoke about "Agile Development Lifecycle".

4.Mr. Akash Viswan from UST Global talked about “Cloud Infrastructure” on 10th October, 2019.

5.Mr. Bibin Manuel, Project Consultant from Tata Consultancy Services (TCS) on 11th October 2019 spoke about “Internet of Things”. He explained the practical applications of IoT using videos of Smart Home and Smart classroom technology. He not only asked students to answer various questions on technology but also gave live and latest examples of how TCS as a company is making IoT and other technology at work in our lives.

6. Mr. T Velayuthan, Senior Staff of Security Group, Bharat Electronics Limited (BEL), Bangalore, spoke about “Cyber Security and Blockchain” on 16th October, 2019.



The scientists of BELL Labs introduced us to the needs of Cyber security in the world full piracy and hacking. Introducing us with cybersecurity frameworks they moved on to discuss Blockchain to secure digital money transactions.

TCS Vice President and Delivery Head of Kerala region, Mr. Dinesh P. Thampi. Mr. Thampi had come to our college to deliver a talk on the “Latest

industrial trends from a digital technology standpoint”. He elaborated on the different fields in Computer Science like Big Data, Deep Learning, Blockchain, etc. He also analysed the growth rate of each of these fields and gave the



7.Mr. Robin Tommy from Tata Consultancy Services (TCS) on 28th October 2019 discussed "Trends of Artificial Intelligence in Industry".

8.On the 22nd of January, 2020, IIIT Kottayam was graced with the visit of

students a clear route map on how to excel in each of these fields. The talk was followed by an interactive session where the students raised their questions to Mr.Thampi. The students even pitched their innovative ideas.

# ACHIEVERS

- **Nikhil Ganghor, Vishnu Ajith and Prasanna Devadiga** Global rank 16th rank out of 3290 teams in Amazon ML challenge.

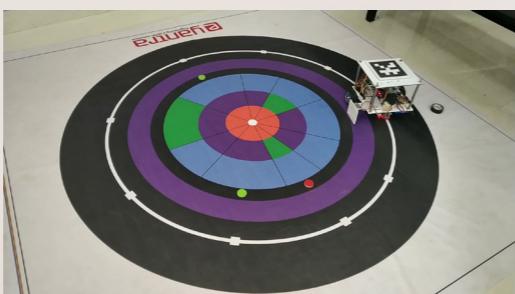
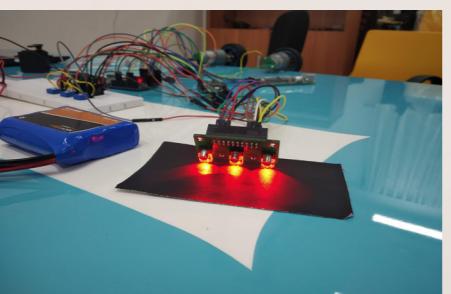
- Team Competent Developers from Batch 2017 consisting of **Vishal Shivakumar Kanakamamidi, Rishav Jaiswal, Mattaparti Satya Bhargavi, Anuj Srivastava, Konjetty Keerthi Sreenivas and Dharavathu Neehari Naik** won the Second Prize and a Cash Award of Rs. 75,000 in the prestigious Smart India Hackathon (SIH 2020) under the Student Innovation Category conducted by Govt. of India.

- **Rahul Badami** from Batch 2017 contributed to Google Summer of Code 2020 and earned a stipend of 3000\$ for his project Owasp Bug Logging tool. It is a bug hunt platform where users and companies meet to figure out the issues/bugs in a website/app, in return the company rewards the user.

- **Adityavardhan AVS** from Batch 2019 won the MIT Covid19 Challenge : India Turning the Tide, along with a Cash prize of 500\$. His idea ‘self learning for all’ was selected as one of the best ideas, which aimed at bringing online education to rural and semi-urban India where bandwidth is scarce, using an organised system of self-learning with a live feedback system.

- Team Aviato from Batch 2017 consisting of **Vedant Sandeep Joshi, Suryapal Singh Asolia rao, Kshitij Pal, Amritha Haridasan, Joel Mathew Philip and Utkarsh Trivedi** were finalists in the Smart India Hackathon 2020, for developing a real-time dashboard to display live IoT services data for the Terminal Manager.

- Team consisting of **Shiva Kumar Marepally, Vishnu Khanth B, Anshuman Gaurav** (Batch 2017) and **Bivek Benoy Paul** (Batch 2018) reached the Semi-Finals in the prestigious E-Yantra Robotics Challenge, sponsored by Ministry of Education and conducted by IIT Bombay. Prototype was of a Supply Bot getting signals from satellite and servicing the flood affected cities under the theme Disaster Management.



- An app called i++ created by **Sameer Ahmed**, Batch 2017 attracted the attention of the Game Development World Championship (GDWC).

- **Utkarsh Trivedi**, student of Batch 17 was selected for LiFT Scholarship 2020

under Blockchain Blockbusters given by Linux Foundation which provides advanced open source training to existing and aspiring IT professionals from around the world

- Team from Batch 2017 consisting of **Vishal Shivakumar Kanakamamidi, Rishav Jaiswal and Mattaparti Satya Bhargavi** were among the top teams called for Onsite Demonstration in Rackathon 2.0 conducted by Rakuten for their Smart Mirror project using Pose Feedback System.

- Out of 150 teams which participated in the NIT Delhi Reverse Coding Challenge, 2019

- **Ashish Gusain, Anshuman Mishra** and **Ayush Rai** from Batch 2017 got Rank 16

- **Rahul Ranjan, Pushpam Saxena** and **Ruchika Sreedhar** from Batch 2018 got Rank 22

- **Nikhil Ganghor, Prabal Kalia** and **Muskan Rana** from Batch 2018 got Rank 31

- **Prabal Kalia** (Batch 2018) achieved World Rank 3 in the January Code Challenge 2020 on HackerEarth, he also holds 4 CSES world records for the fastest codes and code-golf.

- In HackerEarth July Circuits, 2019, **Prabal Kalia** (Batch 2018) Rank : 168, **Seshatri** (Batch 2019) Rank : 175 and **Anshuman Mishra** (Batch 2017) Rank : 187 out of 10000 participants globally.

- **Seshathri** (Batch 2019) ranked 40 globally amongst 3000 participants in the Codechef January Cook-off 2020.

- Total 4 teams bag the top 25 positions in India in ACM-ICPC Asia Chennai Regional Contest 2019 Hosted at HIST, Chennai.

- **Seshathri Saravanan, Rishabh Anand, Ashwin Nair** from Batch 2019, Rank: 20

- **Mahesh Vanam, Venkata Sai-**



**kowsik Vellaturi, Prudhvireddy Venati** from Batch 2019, Rank : 22

- **Soham Shinde, Shriganesh Bhide, Kumar Sunny** from Batch 2019, Rank : 23

- **Nevin Selby, Shashank Singh, Alwin Sebastian** from Batch 2019, Rank : 24

- Many teams from IIIT Kottayam also participated in the Google Hashcode 2020, the Top 3 teams were -

- **Aashish Sharma, Ashwin Nair, Rishabh Anand** and **Anshu Kumar** (Batch 2020), Rank : 4234.

- **Srivatsan Harish, Deshaboina Yashwanth, Lakshin Kumar** and **Sai Tejaswin** (Batch 2019), Rank : 6724

- **Pushpam Saxena, Nikil Ghanghor, Kaushal Samant** and **Dhurjati Vats** (Batch 2018), Rank : 7171

Students of IIITKottayam took own initiative and setup chapters/branches in connection with Geeksforgeeks, Codechef, Coding Ninjas, IEEE, ACM and conduct weekly, bi-weekly competitions collaboratively.



Due to the Project based learning approach introducing research focus in the curriculum, which has enhanced the real-time problem-solving attitude of the students and resulted in Research Contributions in many reputed journals.

- **Mannem Srinivas** (Batch 2016) presented "Impact of Printing Parameters on Energy Consumption of 3D Printers Using IoT Cloud Architecture" in the International IEEE conference "INDICON 2019", Marwadi University, Rajkot, India
- **Mannem Srinivas** presented "IoT Cloud based Smart Bin for Connected Smart Cities - A Product Design Approach", in the International IEEE conference "ICCCNT2019", IIT-Kanpur, India, July 2019,
- **Yedula Sandeep Kumar** (Batch 2016) presented "Real-time Scene Change Detection with Object Detection for Automated Stock Verification." in the 2020 5th International Conference on Devices, Circuits and Systems (ICDCS), IEEE, 2020.
- **Amrutham Abhinav** presented (Batch 2016) "An Improved Reversible data hiding on encrypted images using selective flipping technique", in the 5TH International IEEE conference on Devices , Circuits and Systems, 6th March 2020, Karunya University. It also Received Best Paper Award.
- **Sai Surya Kiran** (Batch 2016) presented "A Low-cost IoT enabled device monitoring Agricultural field and smart irrigation system" in the 4th Int. Conf. on Inventive Communication and Computational Technology, Tamilnadu, May 2020.
- **Kelavath Jai Singh** and **Sai Surya Kiran** (Batch 2016) presented " A Low Cost IoT Enabled Device for Real Time Air Quality Monitoring System", accepted in Fifth International Conference on ICT for Sustainable Development ICT4SD 2020 for the publication in Springer Advances in Intelligent Systems and Computing.
- **Amritha Haridasan** (Batch 2016) presented "Alzheimer's Disease Detection using Machine Learning Techniques in 3D MR Images," in the 2020 National Conference on Emerging Trends on Sustainable Technology and Engineering Applications (NCETSTEA), Durgapur, India, 2020.
- **Srilakshmi Ajith** (Batch 2017) presented "Application of Natural Language Processing and IoTCloud in Smart Homes," in the 2019 2nd International Conference on Intelligent Communication and Computational Techniques (ICCT), Jaipur, India, 2019.
- **Mattaparti Satya Bhargavi** and **Rishav Jaiswal** (Batch 2017) presented "Abnormal Event Detection in Public Places by Deep Learning Methods", in the AISC Series of Springer, September 2020.
- **Allu Harshavardhan** (Batch 2018) presented "Miniaturized instrumentation for Planetary Environment Monitoring " in the Indian Planetary Science Conference, Physical Research Laboratory, Ahmedabad, India, February 2020.
- **Rumaise Puthumannil** (Batch 2018) presented "IoT Blockchain Solution for Air Quality Monitoring in Smart Cities" in the 2019 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Goa, India, December 2019

# OUR RECRUITERS

## Brief:

Indian Institute of Information Technology Kottayam has conducted its placement drive to Batch 2017 students from August 2020. We have invited and completed placements with 50 companies in this academic year 2020-21.

## Our Recruiters Family:

1. Sap Labs
2. Mindtree
3. Ericsson - PPO
4. Robert Bosch - PPO
5. Goldman Sachs
6. SOTI
7. Capgemini
8. Kofluence,
9. Reliance Jio
10. Publicis Sapient
11. Survey sparrow
12. Pindexx
13. Intellect Design Arena
14. Pensando
15. MAQ Software
16. Mitsogo
17. TCS
18. Sudlife
19. Cognisant
20. Automation Edge
21. Deloitte
22. Virtusa
23. Infosys
24. TCS - Exclusive drive for Innovator Profile
25. Ericsson - Placement
26. WIPRO
27. Amazon
28. GRIFEO
29. Codenation
30. Trident Analytics
31. Thinkitive
32. FACE
33. Byju's App
34. Litmus 7
35. Suntec Business Solutions
36. UST Global
37. Imanage
38. Eduthrill
39. Reading right
40. Kickstart
41. New Gen Software
42. Sunreo Tech
43. Albatronix
44. Tanla
45. Vyson Technologies
46. Tata Elexsi
47. Upgrad
48. IBM
49. ProKarma
50. Ernest and Young

## For Batch 2020 Only:

51. Say one Technologies
52. Mphasis
53. Rapid Value Solutions
54. Yatnam Technologies
55. Techvantage
56. Acsia Technologies
57. IBS

The Highest package offered to our students is 33 LPA maintaining 9.5 LPA as the average CTC for our academic year 2020 - 21(till June).

## Internships:

Our Prefinal Year Students (Graduating in 2022) grabbed Paid Internships at reputed Multi-National Companies, Startups in their 3 months summer internship break. The list of companies collaborating with Placement Cell - IIITKottayam are

- |                         |                    |
|-------------------------|--------------------|
| 1) Algoladder           | 9) Robert Bosch    |
| 2) Ericsson             | 10) Rolls Royce    |
| 3) FailTell             | 11) ReadingRight   |
| 4) Harman International | 12) SurveySparrow  |
| 5) IBM                  | 13) Techolution    |
| 6) Instasell            | 14) The Solar Labs |
| 7) INVIDIA              | 15) TWF Flours     |
| 8) POPxo                | 16) UST Global     |

Currently, Ericsson, Robert Bosch, Techolution, and Surveyssparrow offered PPOs to few interns from IIITKottayam. We expect more PPOs by the end of 2021.

Placement Cell IIITKottayam is open for collaboration with companies to hire students for full-time and internship roles for the batch. Contact us at [placement@iiitkottayam.ac.in](mailto:placement@iiitkottayam.ac.in).



INSTITUTE WEBSITE



PLACEMENT RECRUITERS  
CORNERS



WE THANK ALL STUDENTS OF  
IIIT KOTTAYAM IN CONTRIBUTING TO THIS BROCHURE.



INSTITUTE MAGAZINE



EMAIL