Manogatha: The laboratory complex in the Transit Campus
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1. प्रस्तावना

आई.आई.टी. पालक्काड की चतुर्वट वार्षिक रिपोर्ट प्रस्तुत करते हुए मुझे प्रसन्नता हो रही है। उच्चतम शिक्षा के क्षेत्र में अतुलनीय योगदान करते हुए इस संस्थान ने अपने पार्चन धर्म में वृद्धि किया और संस्थान में पाँचवें बैठक के महत्त्व पूर्वक शामिल हुए। राज्यीय महत्व के संस्थान के संस्थान को नैविक व बाहरी मंत्रालय के अनुरूप मानव संसाधन का उपयोग किया गया ताकि वे इस संस्थान की सुधार रुप से चला सकें। इस वर्ष संस्थान सदस्यों की संख्या बढ़कर 65 हो चुकी है और कर्मचारियों की संख्या 45 पहुँच गई है। वी.टी.के छात्रों की संख्या बढ़कर 485 हो गई है। एम.एस./पीएच.डी. छात्रों की संख्या भी बढ़कर 63 तक पहुंच गई है।

इस वर्ष फरवरी 2019 में आई.आई.टी. पालक्काड के कंजीकोड स्थायी कैप्स साइट में स्थित ट्रॉजिस्केप कैप्स में अपना मामलाजन शुरू किया। इस प्रकार, संस्थान वर्तमान में अपने प्रारंभिक आंध्र-प्रदेश स्थायी जोड़ा, कैप्स में ट्रॉजिस्केप कैप्स में भी काम करता है। स्थायी परिसर अपने प्रारंभिक चरणों में है और निर्माण जल्द ही शुरू होने की उम्मीद है। गत वर्ष की तुलना में इस वर्ष न केवल अधिक छात्रों की भीती हुई अपनी संस्थान ने अभ्यास के लिए सुविधाएं स्थापित की। इस वर्ष संस्थान के क्षेत्र में इसका पारंपरिक में कुछ फल कम है। जिसमें आयुगात्मक उपकरण, जो अभ्यास और सामाजिक व धार्मिक गुणों के आध्यात्मिक में सक्षम है।

पिन फिल्म डिप्लोमा एवं लिथोग्राफी/ पॉर्ट्रेटिंग में सक्षम है। आई.आई.टी. पालक्काड के रणनीति और छात्रों के कई जरूरतें में 82 से अधिक प्रकाशन दिखाई तथा कई समाधनाओं और कार्यशालाओं में भाग लिया।

आई.आई.टी. पालक्काड ने केवल 700 मुद्रित किताबों के साथ रक्तीय पुस्तकालय की स्थापना की थी, जो अब 4000 बार-कोडेड मुद्रित किताबों में टबडील हो गई है। छात्रों की आज्ञाकारी संबंधी आकर्षण की पूर्ति व इंस्ट्रक्चर में मददगार साबित होने हेतु एक कैप्सल्ड डेवलपमेंट सेटर की स्थापना की गई है। 2018-2019 के वर्ष फील्डमेंट की दर 83.99 भविष्यवाणी रहा, जिसका संख्या सी.टी.सी. 8 लाख रुपये वार्षिक था। फील्डमेंट में 62 संस्थाओं में भाग लिया, जिसमें उच्चतम वार्षिक सी.टी.सी. 16.55 लाख रुपये रहे। दूसरी व तृतीय वर्ष के छात्रों को औपचारिक शिक्षा दी गई, जिसके फलस्वरूप उन्हें अपने सैद्धांतिक स्तर को व्यापक रूप में कैसे उपयोग में लाया जा सकता है, इसका बीच हुआ।

संस्थान ने योग्य छात्रों को अंतर्राष्ट्रीय स्तर पर मौका प्रदान किया, ताकि छात्र संस्थान के बाहर व विदेशी विश्वविद्यालयों में अपना वी.टी.के परीक्षण कार्य पूर्ण कर सके व अपने क्षेत्र में अवश्यक ।

इस वर्ष के दौरान, ऑनलाइन औपचारिक विश्वविद्यालय, न्यूजीलैंड से जुड़े तीन छात्रों ने अपने कार्यकलाप का व्यापक प्रदर्शन किया। इसके अलावा एम.एस. हिन्दी के दो शोध छात्रों ने नानागंगा टेक्नोलॉजिकल प्रूनिकॉर्टिक, सिंगापुर की टेस्टेस्टिंग प्रोग्राम समाप्त किया। पालक्काड के छात्रों ने भारत लेकर द्वितीय विश्वविद्यालय प्राप्त कर संस्थान को गौरवान्वित किया है। छात्रों ने इंट्र आई.आई.टी. टेक प्रतियोगिताओं में वर्क प्रक्रिया कर दी.सी.डी. डी. बैलेंड में अपनी गहरी छात्रों छोड़ी है। आई.आई.टी. पालक्काड ने अपनी जीवन वर्तमान संस्थान संसाधन से पूर्व कार्यक्रमों को आयोजन किया।

गत वर्ष विज्ञान को बढ़ावा देने के लिए आई.आई.टी. पालक्काड ने भिन्न कार्यक्रमों का आयोजन किया, जिसमें कई माध्यमिक एवं
1. FOREWORD

It gives me immense pleasure to present the fourth annual report of IIT Palakkad. During this year, the institute entered into the fifth year of rendering yeoman service in the higher education sector and has brought into its fold its fifth batch of industrious students. With careful thoughts on grooming an institution of national importance, IIT Palakkad has built on the human resources that drive the institution. This year, the number of faculty grew to 65 and the staff strength touched 46. The strength of B.Tech students scaled to 486 and research scholars in the MS/Ph.D. programme galloped to 63.

Early this year, in the month of February 2019, IIT Palakkad’s transit campus located in the permanent campus site, at Kanjikode became operational. Thus, the Institute currently functions out of its initial temporary space at Ahalia Integrated Campus, Kozhippara and from the Transit Campus at Kanjikode. The permanent campus is in its formative stages and the construction is expected to commence soon. Along with introducing more students into the structure each year, the institution has enabled development of robust infrastructure along with state-of-the-art research facilities to ensure to stay aligned to the very best in higher education. Some of the attempts in this regard led to the creation of the Central Instrumentation Facility (CIF) housing a range of sophisticated analytical equipment capable of studying the physical, chemical, electrical, mechanical and magnetic properties of molecules as well as materials. The Central Micro Fabrication Facility (CMFF) houses equipment and facilities capable of performing wet-chemical processes, thin film deposition, and lithography/patterning. The research programmes at IIT Palakkad has gained momentum with faculty and students publishing over 82 papers in peer
reviewed journals during the year and participating in a multitude of conferences and workshops.

Beginning humbly with a collection of just 700 printed books, the Central Library of IIT Palakkad has grown to contain more than 4000 printed barcoded books across genres. A Career Development Centre was formed during the year to support students in their ambitions towards career and internships in the industry. The 2018-19 season saw a placement percentage of 83.11, with a median CTC of INR 8 Lakhs. The highest domestic CTC offered was INR 16.75 Lakhs per annum from among the 62 organisations which participated in placements. The students in their second and third years interned with the industry to receive hands on exposure on the application of their respective streams of study.

With an aim to facilitate students with global know how and exposure to the best in class, the institute has opened up avenues for them to take up their B.Tech projects outside of the institute including universities abroad. During this year, three students associated with Auckland University of Technology, New Zealand making the best of their tenure. Also two Research students pursuing their M.S. Degree from the Institute worked with Temasek Laboratories of Nanyang Technological University, Singapore for a period of one year with complete financial support.

The students of IIT Palakkad have made the institution proud by their participation in Smart India Hackathon in which they won an impressive second position. They have made their mark in the inter-IIT Tech Competitions by winning a gold medal at the TCTD Challenge. IIT Palakkad's first ever techno-cultural fest named Petrichor was curated by a team of students and the event brought together institutions from far and wide in October 2018. As part of the science outreach at IIT Palakkad, various programmes were organized for high school and higher secondary school students in the past year. In view of the National Science Day, 50 high school students are invited every year for a one-day workshop where faculty from Science and Engineering disciplines of IIT Palakkad engage with them. Moreover, in line with the National policy to enhance the participation of young girls in science and engineering, IIT Palakkad organized a DST sponsored 3-weeks residential workshop “Vigyan Jyoti” for 30 higher secondary girls in 2018 where eminent educationists/scientists/engineers from within the country and outside interacted with the students. The Institute plans to continue these activities in the coming years to motivate young talents to pursue their passion. As part of Unnat Bharat Abhiyan, discussions are currently underway with community organisations and Rural Development centres to design and introduce a programme that may benefit the region in and around the permanent campus. This programme would attempt to bring together the strengths of IIT Palakkad in addressing specific identified needs of the community.

Achieving another milestone this year, the initiatives of the women’s forum, Kadambini, were formally launched on International Women’s Day, 2019. The forum aims to bring together meaningful women centric initiatives that can foster an inclusive culture in the Institute and beyond.

On behalf of the institute, I take this opportunity to thank the MHRD and the Board of Governors for the continuous guidance rendered. I would like to express my sincere gratitude to the faculty and leadership of IIT Madras, for their wholehearted collaboration for the programmes at IIT Palakkad. I wish to thank the management and staff of Ahalia Integrated Campus, where the temporary facilities of IIT Palakkad are located, for extending their cooperation whenever requested, even at very short notice.

Prof. P. B. Sunilkumar
Director, IIT Palakkad
Date: 01. 04. 2019
2. पृष्ठभूमि

BACKGROUND

The Indian Institutes of Technology (IITs) were established by the Government of India as Institutes of National Importance through a Central Statute, the Institutes of Technology Act, 1961. An IIT in the state of Kerala was proposed in the July 2014 union budget and on November 20, 2014, IIT Madras was designated as the mentor institute by the Ministry of Human Resources and Development (MHRD).

IIT Palakkad came into existence and started functioning from the premises of Ahalia Integrated Campus Kozhippara, Palakkad in August 2015. The academic activities at IIT Palakkad were formally launched with a welcome programme for the first batch of B.Tech students on August 03, 2015. Students were admitted to the B.Tech programmes in the disciplines of Civil Engineering, Computer Science and Engineering, Electrical Engineering and Mechanical Engineering. The Lok Sabha passed a bill for the establishment of six new IITs on July 25, 2016 and soon after, Prof. P. B. Sunil Kumar assumed charge as the first Director of IIT Palakkad on January 18, 2017.

The Institute can already boast of a vibrant student and faculty community drawn from different parts of the country; it has truly emerged as a microcosm of the country. It is equipped with state of the art facilities to meet all the professional and personal needs of the students, faculty and staff. Within a short span of four years, the institute has been able to commence Masters programmes in Engineering, and Doctoral programs in Engineering, Chemistry, Mathematics, Humanities and Social Sciences and Physics. The Institute also offers postdoctoral fellowships and has a total of 486 students, 3 postdoctoral fellows, 65 faculty and 46 staff members.

Approximately 504 acres of land bordering the Sahya Mountain range and adjoining the Coimbatore-Kanyakumari national highway at Palakkad, was identified as the site for the permanent campus on
OBJECTIVES

1. To provide the best educational infrastructure for imparting high class education in science and technology and a creative atmosphere for interdisciplinary research both by the students and the faculty.

2. To increase the student capacity to meet the growing demands of industry.

3. To maintain global standards in student-faculty ratio, research output, publications in journals and placement of students.

4. To participate in and contribute to nation building through various flagship schemes of the Government of India/State Governments requiring technological interventions thereby spurring economic growth for the welfare of the masses.

5. To provide research and development consultancy, which will foster healthy industry-academia partnership, thereby providing a competitive edge to indigenous manufacturing.

January 17, 2015. A vibrant campus with world-class sustainable green buildings has been planned. The first phase of construction consisting of infrastructure required to accommodate two batches of B. Tech. students started in 2017 and was completed in 2019. The mandate of the institute is to grow to 1200 students by 2021 and to 2500 students by 2027.

To participate in and contribute to nation building through various flagship schemes of the Government of India/State Governments requiring technological interventions thereby spurring economic growth for the welfare of the masses.
3. शासन

### 3.1 शासन मंडल

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<td>श्री. सुलबलार सिंह संघू</td>
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### 3.2 विज्ञ समिति

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<td>प्रो. प्रसाद अर्जवाल</td>
<td>निदेशक (आई.आई.टी.), पुमापत्रार, नई दिल्ली</td>
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<td>7</td>
<td>प्रो. जॉय कूर्जन</td>
<td>प्रभारी कुलपति</td>
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### 3.3 भवन और कार्य समिति

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<th>क्र.</th>
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<tr>
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<td>निदेशक, आई.आई.टी. पालककार</td>
<td>अध्यक्ष</td>
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### 3.1 BOARD OF GOVERNORS (BoG)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name</th>
<th>Designation</th>
<th>BoG Designation</th>
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<tbody>
<tr>
<td>1.</td>
<td>Shri. R. Subrahmanyam</td>
<td>Secretary, Department of Higher Education, MHRD, New Delhi</td>
<td>Chairman</td>
</tr>
<tr>
<td>2.</td>
<td>Shri. Sukhbir Singh Sandhu</td>
<td>Additional Secretary (TE), Department of Higher Education, MHRD, New Delhi</td>
<td>Member</td>
</tr>
<tr>
<td>3.</td>
<td>Prof. P. B. Sunil Kumar</td>
<td>Director, IIT Palakkad</td>
<td>Member</td>
</tr>
<tr>
<td>4.</td>
<td>Prof. Bhaskar Ramamurthi</td>
<td>Director, IIT Madras</td>
<td>Member</td>
</tr>
<tr>
<td>5.</td>
<td>Smt. Darshana Momaya Dabral</td>
<td>Joint Secretary (FA), MHRD, New Delhi</td>
<td>Member</td>
</tr>
<tr>
<td>6.</td>
<td>Shri. Prashant Agarwal</td>
<td>Director(IITs), MHRD, New Delhi</td>
<td>Member</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Usha Titus</td>
<td>Principal Secretary, Higher Education, Government of Kerala</td>
<td>Member Secretary</td>
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</table>

### 3.2 FINANCE COMMITTEE

<table>
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<tr>
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<tr>
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<td>Director(IITs), MHRD, New Delhi</td>
<td>Member</td>
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<tr>
<td>7.</td>
<td>Prof. Job Kurian</td>
<td>Registrar in-charge</td>
<td>Member</td>
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### 3.3 BUILDING AND WORKS COMMITTEE

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<tbody>
<tr>
<td>1.</td>
<td>Prof. P. B. Sunil Kumar</td>
<td>Director, IIT Palakkad</td>
<td>Chairman</td>
</tr>
<tr>
<td>2.</td>
<td>Shri. Pilli Bhagat Singh</td>
<td>Chief Engineer, CPWD, Zone V, Trivandrum</td>
<td>Member (Ex-Officio)</td>
</tr>
<tr>
<td>3.</td>
<td>Shri. A. K. Raveendran</td>
<td>Deputy Chief Engineer (Elec) KSEB, Palakkad</td>
<td>Member (Ex-Officio)</td>
</tr>
<tr>
<td>4.</td>
<td>Prof. K. Murali</td>
<td>IIT Madras</td>
<td>Member</td>
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<tr>
<td>5.</td>
<td>Shri. S. Ramanujam</td>
<td>Retd Director, DCSEM,DAE, Mumbai</td>
<td>Member</td>
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<tr>
<td>6.</td>
<td>Shri. Soundarajan</td>
<td>ADG, Retd,CPWD</td>
<td>Member</td>
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<td>7.</td>
<td>Dr. Anil Kumar</td>
<td>Asst. Professor Civil Engineering, IIT Palakkad</td>
<td>Member Secretary</td>
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### 3.4 प्रबंधकारिणी समिति

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### 3.4 SENATE

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<td>Prof. Job Kurian</td>
<td>Registrar</td>
<td>Member</td>
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<td>Prof. K. L. Sebastian</td>
<td>Dean Research &amp; Development</td>
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<td>Prof. Pramod S. Mehta</td>
<td>Dean Academics</td>
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<td>5.</td>
<td>Prof. Vinod A. Prasad</td>
<td>Dean Industrial Relations &amp; Sponsored Research</td>
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<td>Professor, IIT Madras</td>
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</table>
4. लोग

4.1. प्रशासन प्रबंध

प्रो. नी. बी. सुनील कुमार, निदेशक
प्रो. जॉन कुरियन, अध्यक्ष प्रशासन और प्रबंधी कुलपति
प्रो. प्रभोद एस. मेहता, अध्यक्ष शैक्षिक
प्रो. के. एल. सेबेस्टियन, अध्यक्ष अनुसंधान एवं विकास (रिसर्च एंड डेभलपमेंट)
प्रो. के. नी. गोविंदन कुंद्रा, अध्यक्ष छात्र भर्तिणी (स्टूडेंट अफेयर्स)
प्रो. विनोद प. प्रसाद, अध्यक्ष औषधितील विभाग एवं प्रायोजित रिसर्च (इंडस्ट्री रिलेशंस एंड स्पोन्सर्स रिसर्च)

4.2. संबंध

रसायन विज्ञान
प्रो. के. एल. सेबेस्टियन, पीएचडी (आई.आई.एस.एस. बैंगलोर)
अनुसंधान क्षेत्र- कांटैम रसायन विज्ञान और सांकेतिक यात्रिकी

डॉ. देवराक चट्टोपाध्याय, पीएचडी (आई.आई.एस.एस. बैंगलोर)
अनुसंधान क्षेत्र- सैंडलिक रसायनिक भौतिकी, बायोफिजिकल प्रैक्टिकें, सॉफ्ट कंडेंस्ड मैटर, इक्लिप्लिक्राइम और नाँन-इक्लिप्लिक्राइम सांकेतिक वैज्ञानिक्स, मैक्रोमोल्यूस लीले तथा, बायोपॉलिमर्स

डॉ. दिनेश जागडीश, पीएचडी (जे.ए.एस.एस.एस. आर. बैंगलोर)
अनुसंधान क्षेत्र- सामाजिक रसायन विज्ञान, विषम उत्पर्यंत, विषम उत्पर्यंत

डॉ. मित्तू पोरेल, पीएचडी (मियामी विश्वविद्यालय, फ्लोरिडा, प्युएसए)
अनुसंधान क्षेत्र- डिजाइन, संशोधन एवं हाइपरमेट्रिक कार्बनिक पदार्थों का उत्पादन, सुपरमॉल्यूलर और मैक्रोमॉल्यूलर रसायन शास्त्र, फोटोकैमिस्ट्री

डॉ. पूजा प. , पीएचडी (मायकल विज्ञान संस्थान, मैसी विश्वविद्यालय, न्यूजीलैंड)
अनुसंधान क्षेत्र- आंधिकनात्मक रसायन, मैक्रोमूल्यूस सिमुलेशन, उत्तर सैपलिंग तकनीक

डॉ. श्रीमुखराजु शंकरशेखर, पोस्ट डॉक्टरेट, ट्रिनिटी बायोमेडिकल साइंस्ज इंस्टिट्यूट, ट्रिनिटी कॉलेज डब्लिन, ऑक्सफोर्ड
अनुसंधान क्षेत्र- आकर्षक रसायन शास्त्र, ओगोनोमेट्रिक रसायन विज्ञान, मैक्रोमूल्यूलर मेटारियल रसायन विज्ञान, पौलिमर रसायन विज्ञान

अतिथि संबंध
प्रो. के. नी. गोविंदन कुंद्रा, पीएचडी (आई.आई.टी. मद्रास)
अनुसंधान क्षेत्र- मेटारियल रसायन शास्त्र
सिविल इंजीनियरिंग

डॉ. अथिरा पी., पीएचडी (आई.आई.टी. मद्रास)
अनुसंधान क्षेत्र - अग्रणी सैनिक, जलविद्युत मॉडलिंग और अनविश्वासी विश्लेषण, जल संसाधन प्रबंधन, लैड्डू / लैड्डकर परिवर्तन मॉडलिंग में भविष्यवाणियां जलवायु परिवर्तन से होने वाले प्रभाव पर शोध

डॉ. विलिया पी., पीएचडी (आई.आई.टी. बांबे)
अनुसंधान क्षेत्र - भू-तट निकवार, भू-पर्यावरण इंजीनियरिंग, ग्रीन जियो-टक्नीक, प्रबल गृही तटवर्ती, उद्यमित और तटबंध, भू-संरक्षण और ग्राउंड सुपर तटवर्ती, अपकेद्रित मॉडलिंग और छवि विश्लेषण

डॉ. अनिता कुमार एम. वी., पीएचडी (आई.आई.टी. मद्रास)
अनुसंधान क्षेत्र - बकलिंग और पोस्ट-बकलिंग व्यवहार और चिन वॉल्ड ओपन सेक्शंस, बायरेक्ट स्ट्रेंथ विश्लेषण, हॉट-रोलिंग / कोल्ड फोमेन स्टील

डॉ. मथु कार्तिक एम., पीएचडी (टेक्सस ए. एंड एम. विश्वविद्यालय, यू.एस.ए.)
अनुसंधान क्षेत्र - प्रबलित और प्रशिक्षित दोस संस्थानें (सीईडीएसी एंड यी-स्ट्रेंथ कॉन्क्रीट स्ट्रक्चर), विगड़ती संरचनाओं का संरचनात्मक नमूनाक आयुक्तारी परीक्षण और मूल्यांकन, ब्रिज इंजीनियरिंग

डॉ. सुभाषीता निता, पीएचडी (आई.आई.टी. बांबे)
अनुसंधान क्षेत्र - सतह और भूजल जल विज्ञान पर जलवायु और मानववंशीय प्रभाव

डॉ. बी. के. भवतरानाथन, पीएचडी (आई.आई.टी. बांबे)
अनुसंधान क्षेत्र - परिवहन प्रणाली

डॉ. सुधीरा दी. के. पीएचडी (फलोरिडा विश्वविद्यालय, यू.एस.ए.)
अनुसंधान क्षेत्र - भू-तट-निकवार इंजीनियरिंग: गंगर्दी नीचें; मृदा स्पार्करकरण; और मृदा संरचना इंजीनियरिंग

डॉ. प्रभवीना गंगाधरन, पीएचडी (आई.आई.टी. मद्रास)
अनुसंधान क्षेत्र - माइक्रोविद्युत इंजन किशोरों, जल / अपशिष्ट जल उपचार, मेटल रिड्डल्जन/ रिक्वरी, विद्युत रसायन / अपशिष्ट उपचार

डॉ. संजयश कार्वर्ती, पोस्टडॉक्टरेट (विश्वविद्यालय दिव्यविद्यालय, बेरिंगा, चीन)
अनुसंधान क्षेत्र - निष्क्रिय एवं प्रतिस्थापित तंत्र द्वारा शोध संरचनाओं का कमन नियंत्रण, इंजन नियंत्रण, आधारभूत अलगाव, संरचना कमन, तात्कालिक परीक्षण

डॉ. शमीदा सिंह, पोस्टडॉक्टरेट (आई.आई.टी. बांबे)
अनुसंधान क्षेत्र - हूडीस्टिवीटी, गैर बिनु स्त्रोत प्रदूषण, जल स्तोत्र प्रबंधन, जल संसाधन विश्लेषण

अतिथि संकाय

डॉ. सुनीता के. नायर, पीएचडी (आई.आई.टी. मद्रास)
अनुसंधान क्षेत्र - निर्माण सामग्री और प्रणालियों के भौतिक और यांत्रिक लक्षण, विशेष कॉन्क्रीट का निरंजन (कैटरॉस्ट्रेंचर), कॉन्क्रीट का क्वालिट निर्माण (कांटैगर कैटरॉस्ट्रेंचर), एफआरसी के दौरे कालिक प्रदर्शन, एफआरसी सिस्टम के डिजाइन, निर्माण सामग्री और प्रणालियों के लिए यांत्रिक प्रदर्शन मानकों की मॉडलिंग
कंप्यूटर विज्ञान और इंजीनियरिंग

डॉ. दीपक राजाजीप्रसाद, पीएचडी (आई.आई.एस.एस. बेंगलूर) अनुसंधान क्षेत्र- कॉम्बिनेटरिक्स, ग्राफ थ्योरी

डॉ. जसिन बाबू, पीएचडी (आई.आई.एस.एस. बेंगलूर) अनुसंधान क्षेत्र- एल्गोरिदम, ग्राफ थ्योरी, सैद्धांतिक कंप्यूटर विज्ञान

डॉ. सहेली भद्रा, पीएचडी (आई.आई.एस.एस. बेंगलूर) अनुसंधान क्षेत्र- मशीन लर्निंग, ऑटोमैशन, जैव सूचना विज्ञान

डॉ. पियुक पी. कुंहर, पीएचडी (आई.आई.एस.एस. चेन्नई) अनुसंधान क्षेत्र- प्रोग्रामिंग लैंपजेज, टाइप थ्योरी

डॉ. अलबर्ट सनी, पीएचडी (आई.आई.एस.एस. बेंगलूर) अनुसंधान क्षेत्र- वायरलेस नेटवर्क, सीरियल नेटवर्क, पारीवाहन नेटवर्क

डॉ. चंद्रेश्वर लश्मीनारायण, पीएचडी (आई.आई.एस.एस. बेंगलूर) अनुसंधान क्षेत्र- रीएंजोर्समेंट लर्निंग; स्टोकास्टिक नियंत्रण; डीप लर्निंग

डॉ. क्रितिका रामस्वामी, पीएचडी (आई.आई.टी. मद्रास) अनुसंधान क्षेत्र- पैरामीटरेटेड एल्गोरिदम, कॉम्बिनेटरिक्स, एल्गोरिदमिक ग्राफ थ्योरी और अप्रॉक्सिमेशन एल्गोरिदम

डॉ. विवेक चतुरवद्ध, पीएचडी (फ्लोरिडा इंटरनेशनल यूनिवर्सिटी, यूएसए) अनुसंधान क्षेत्र- पॉवर एंड थर्मल एफिशिएट टास्क शॉडूटिंग स्ट्रेटेजिज फोर मल्टी/ मेनी कोर प्रोसेसर रिलायंस्टिलिटी एण्ड पनर्जी एफिशिएटी इन क्लाउड इंटर्नेट सेंटर्स, साइबर (हार्डवेयर) सेक्युरिटी, आर्टिफिशियल इंटेलिजेंस

डॉ. संदीप चंदन, पीएचडी (आई.आई.टी. दिल्ली) अनुसंधान क्षेत्र- पोस्ट सिलिकॉन बेलिंग्डेशन, कंप्यूटर आर्किटेक्चर, उच्च निष्पादन कंप्यूटिंग

इलेक्ट्रिकल इंजीनियरिंग

प्रो. विनोद प. प्रसाद, पीएचडी (प.एच.डी.पु. सिंगापुर) अनुसंधान क्षेत्र- डिजिटल सिग्नल प्रोसेसिंग, वायरलेस संचार, मल्टिकंप्यूटर इंटरफेस सिस्टम के लिए बीएसएलआई सिग्नल प्रोसेसिंग

डॉ. अरुण राहुल एस, पीएचडी (आई.आई.एस.एस. बेंगलूर) अनुसंधान क्षेत्र- पावर इलेक्ट्रॉनिक्स, मोटर ड्राइव, पावर कन्वर्टर टोपोलॉजी और कन्वर्टर, बहुस्तरीय विज्ञान कन्वर्टर, सौर ऊर्जा का विक्षिप्त एकीकरण, प्लस चौड़ाई मॉडल और स्विचिंग तकनीक, पावर इलेक्ट्रॉनिक्स और पावर सिस्टम

डॉ. अरविंद अरोय, पीएचडी (आई.आई.टी. मद्रास) अनुसंधान क्षेत्र- नैनोइलेक्ट्रॉनिक्स के कम्प्यूटेरचलन, सैद्धांतिक और प्रयोगात्मक पहलू
मानविकी और समाज विज्ञान

डॉ. लक्ष्मी नरसिंहन ठी., पीएचडी (आईआईएससी बैंगलौर)
अनुसंधान क्षेत्र- वायरलेस संचार, सिग्नल प्रोसेसिंग, सूचना और कोडिंग सिद्धांत

डॉ. रेखती पी., पीएचडी (आईआईएससी बैंगलौर)
अनुसंधान क्षेत्र- माइक्रो / नैनोइलेक्ट्रॉनिक्स

डॉ. स्वरूप साहू, पीएचडी (कोलोराडो स्टेट यूनिवर्सिटी, यूपूर्वी)
अनुसंधान क्षेत्र- माइक्रोवेय इंजीनियरिंग

डॉ. महेश आर. पनीकर, पीएचडी (एनटीपी, सिंगापुर)
अनुसंधान क्षेत्र- डिजिटल सिग्नल प्रोसेसिंग, इंटरनेट सिस्टम, अल्ट्रासाउंड इमेजिंग

डॉ. सुकौमल डे, पीएचडी (आई.आई.टी. दिल्ली)
अनुसंधान क्षेत्र- माइक्रोवेय और मिलिमीटरवेय उपकरण और ठोस, रेडियो प्रीक्षेन गैचेक्ट्रोमेकेनिकल सिस्टम

डॉ. जयकर फासिस, पीएचडी (आई.आई.एस. शी. बैंगलौर)
अनुसंधान क्षेत्र- तर- रहित संचार, 5 जी सेल्यूलर नेटवर्क पर आधारित संचार, विश्लेषण और स्रोत सम्बन्ध

संदर्भ संक्रान्ति (अनुबंधक संक्रान्ति)

डॉ. बेंकट बानुपुरुष, इंजीनियरिंग, पीएचडी (आई.आई.टी. मद्रास)
अनुसंधान क्षेत्र- ठोस स्थिति उपकरण

मानविकी और समाज विज्ञान

डॉ. शालिना सुसन मैथु, पीएचडी (हैदराबाद विश्वविद्यालय)
अनुसंधान क्षेत्र- विकास अर्थशास्त्र

डॉ. अनुप जॉल्स, पीएचडी (आई.आई.टी. बोम्बे)
अनुसंधान क्षेत्र- कैनोमेनोजॉलॉजी और एक्सिस्टेंटशियलिस्म , फिलोसोफी ऑफ टेक्नोलॉजी, कॉन्स्टेन्टिल फिलोसोफी

डॉ. जी. सुजाता, पीएचडी (मद्रास विश्वविद्यालय)
अनुसंधान क्षेत्र- लिंग, साम्राज्यविद और औपचारिक अध्ययन; भाषा और आधुनिकता; आधुनिक तमिल साहित्य, अनुवाद अध्ययन, सिनेमा और लोक धार्मिक संग्रहालय का अध्ययन

डॉ. रीनू पुरुष, पीएचडी (न्यूक्सल विश्वविद्यालय, यूनाइटेड विंग्स)
अनुसंधान क्षेत्र- फोटोटिक्स, समाजशास्त्रविज्ञान, द्विभाषी भाषा अध्ययन, विश्व अंग्रेजी

डॉ. अमृता रॉय, पीएचडी (जालनोर लाल नेहरू यूनिवर्सिटी)
अनुसंधान क्षेत्र- ट्रेड एवं इंटरनेट, आर्थिक उदारति
अंक शास्त्र
डॉ. अशोक कुमार एम., पीएच.डी (आई.एम.एस.सी. बैंगलोर)
अनुसंधान क्षेत्र- सूचना, सांख्यिकी, और संभाव्यता

डॉ. शरद शर्मा, पीएच.डी (मिशिसिपी स्टेट यूनिवर्सिटी, यूएसए)
अनुसंधान क्षेत्र- आंशिक अंतर समीकरण

डॉ. लक्ष्मी शंकर एस., पीएच.डी (मिशिसिपी स्टेट यूनिवर्सिटी, यूएसए)
अनुसंधान क्षेत्र- डिफरेंशियल इक्वेशन, नॉन-लीनियर एनालिसिस

डॉ. जी पी बालकुमार, पीएच.डी (आई.एम.एस.सी. बैंगलोर)
अनुसंधान क्षेत्र- सेवरल काम्प्लेक्स वीरेंट्स

डॉ. जयनारायण स. आर., पीएच.डी (आई.एम.एस.सी. बैंगलोर)
अनुसंधान क्षेत्र- कार्यान्वयन विश्लेषण (फंक्शनल एनालिसिस), ज्योंमेंटी ऑफ ब्रांच स्केलिंग, अनुमान सिद्धांत (आप्रोक्सिमेशन थ्यौरी)

मैकेनिकल इंजीनियरिंग

प्रो. प्रमोद एस. मेहता, पीएच.डी (लाखवर्ग विश्वविद्यालय, यूके)
अनुसंधान क्षेत्र- आई.एस. इंजन

प्रो. जॉर्च कुरियन, पीएच.डी (आई.एम.ए. मद्रास)
अनुसंधान क्षेत्र- गैस डायनामिक्स

डॉ. के.वी. एन. सुजेंद्र, पीएच.डी (आई.एम.एस.सी. बैंगलोर)
अनुसंधान क्षेत्र- फ्रैक्चर मैकेनिकल, इलास्टिसिटी

डॉ. कृष्णा शेषाचारी, पीएच.डी (आई.एम.एस.सी. बैंगलोर)
अनुसंधान क्षेत्र- कंबनशन और लेजजर डायनामिक्स, कंबनशन मॉडलिंग, नाविल लेजजर और आंटिक्लाइड डायनामिक तकनीकें

डॉ. कन्नमी एस. सुन्दर, पीएच.डी (आई.एम.ए. कानपुर)
अनुसंधान क्षेत्र- माइक्रो विमर्शण, लेजजर सतत उच्चताप, योजक विमर्शण और समय कैब्रिकेशन और मशीनिंग

डॉ. डी केकोमा, पीएच.डी (आई.एम.ए. मद्रास)
अनुसंधान क्षेत्र- भूद्वंश ींजीनियरिंग, वेल्डिंग प्रीडोम्स, ओयॉदोमिक ट्रायबोलॉजी, योजक विमर्शण

डॉ. डी चाक्राचर, पीएच.डी (एनआईटी, वाराणसी)
अनुसंधान क्षेत्र- गैर पारंपारिक मशीनिंग, मशीनिंग
भौतिक विज्ञान

प्रो. पी. वी. सूनील कुमार, पीएचडी (आर.आर.आई. बैंगलोर)
अनुसंधान क्षेत्र- नर्म पदार्थ और जैविक भौतिकी

डॉ. पृथ्वी नारायण पी., पीएचडी (टी.आई.एफ.आर. मुंबई)
अनुसंधान क्षेत्र- कांटम फील्ड थ्योरी, स्ट्रींग थ्योरी

डॉ. जयकुमार बालाकृष्णन, पीएचडी (सिंगापुर राष्ट्रीय विश्वविद्यालय)
अनुसंधान क्षेत्र- प्रायोगिक कंडेंस्ड मैटर भौतिकी - २ डी सामग्री और परेमेट्रिक्स

डॉ. उमा दिवाकरन, पीएचडी (आई.आई.टी. कानपुर)
शोध क्षेत्र- कांटम पालिकी, गैर-समतूल गतिशीलता, कांटम चरण संक्रमण, कांटम इनफामेशन

डॉ. सोहम मली, पीएचडी (जार्ज ऑगस्ट यूनिवर्सिटी, गोरिंजन, जर्मनी)
अनुसंधान क्षेत्र- एक्सपरिमेंटल कंडेंस्ड मैटर फिजिक्स- मैटरिटिस एंड सुपर कंडेंस्टिवित
मटेरियाल साइंस एंड सिग्नल क्रिस्टल ग्रीथ
4.3 Post Doctorate

<table>
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<th>Designation</th>
<th>Department/College</th>
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<tr>
<td>1</td>
<td>Dr. Kothikala Jayakumar</td>
<td>PhD Research Fellow</td>
<td>Mathematics</td>
</tr>
<tr>
<td>2</td>
<td>Dr. P. Vadharaman</td>
<td>PhD Research Fellow</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>3</td>
<td>Dr. B. K. Venji</td>
<td>PhD Research Fellow</td>
<td>Electrical Engineering</td>
</tr>
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</table>

4.4. Employees

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Designation</th>
<th>Department/College</th>
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<tbody>
<tr>
<td>1</td>
<td>Dr. B. V. V.</td>
<td>Assistant Professor</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>2</td>
<td>M. V. N.</td>
<td>Professor</td>
<td>Computer Science</td>
</tr>
<tr>
<td>3</td>
<td>S. T. S.</td>
<td>Assistant Professor</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>4</td>
<td>K. P. R.</td>
<td>Professor</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>5</td>
<td>S. N. S.</td>
<td>Assistant Professor</td>
<td>Chemical Engineering</td>
</tr>
</tbody>
</table>

Annual Report 2018-19 | IIT PALAKKAD
28. अजय राम कृष्ण | कनिष्ठ सहायक | शैक्षणिक विभाग
29. अरुण एस. | कनिष्ठ सहायक | विंट विभाग
30. अरुण गु. | कनिष्ठ सहायक | आय सी.एस.आर.
31. दर्शना नायर वी. | कनिष्ठ सहायक | इंजीनियरिंग वर्क्स विभाग
32. रोहित एम. | कनिष्ठ सहायक | खरीद विभाग
33. साई प्रसाद एस. एस. | परियोजना सहायक | खरीद विभाग
34. भीमेश के. एस. | कनिष्ठ सहायक | कर्मचारी प्रबंधन
35. अनंतु सुंदरकुमार | कनिष्ठ तकनीशियन | इंजीनियरिंग
36. आशीष चन्दन | कनिष्ठ तकनीशियन | इंजीनियरिंग
37. दैनिक जेराल्ड एम. | वरिष्ठ परियोजना सहायक | इंजीनियरिंग वर्क्स विभाग
38. गणेश के. | कनिष्ठ तकनीशियन | मैकेनिकल इंजीनियरिंग
39. जिजी एम. | कनिष्ठ तकनीशियन | ससायन विभाग
40. जिदिन पोमस ए. | कनिष्ठ तकनीशियन | सिविल इंजीनियरिंग
41. लिडिया लीना ए. | कनिष्ठ तकनीशियन | भौतिकी
42. मेजी ए. ज. | कनिष्ठ तकनीशियन | उपकरणीकरण
43. नकिता वी. | कनिष्ठ तकनीशियन | सिविल इंजीनियरिंग
44. राजेन्द्र पी. | कनिष्ठ तकनीशियन | मैकेनिकल इंजीनियरिंग
45. सोमसुंदरम एस. | कनिष्ठ तकनीशियन | मैकेनिकल इंजीनियरिंग
46. विनायक एम. | कनिष्ठ तकनीशियन | सी.एफ.ई. डी.

### अनुबंध कर्मचारी

<table>
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<td>के. एम. उदी</td>
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<td>प्रशासन</td>
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<td>प्रशासन</td>
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<td>सलाहकर (छाल मामले)</td>
<td>छात्रवास</td>
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<td>एम. बालवंदन</td>
<td>वरिष्ठ परियोजना अभियंता</td>
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<td>संतोष कुमार आर.</td>
<td>प्रशिक्षण और नियुक्ति अधिकारी</td>
<td>कैरियर विकास रेल</td>
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<td>8</td>
<td>के. पी. मोहिसा सारदा</td>
<td>कनिष्ठ वास्तुशिल्प</td>
<td>इंजीनियरिंग वर्क्स विभाग</td>
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</tbody>
</table>
4. PEOPLE

4.1 ADMINISTRATION
Prof. P. B. Sunil Kumar, Director
Prof. Job Kurian, Dean Administration and Registrar-in-charge
Prof. Pramod S. Mehta, Dean Academics
Prof. K. L. Sebastian, Dean Research & Development
Prof. K. V. Govindan Kutty, Dean Student Affairs
Prof. Vinod A. Prasad, Dean Industry Relations and Sponsored Research

4.2 FACULTY

CHEMISTRY
Prof. K. L. Sebastian, PhD (IISc Bangalore)
Research Area: Quantum Chemistry and Statistical Mechanics

Dr. Debarati Chatterjee, PhD (IISc Bangalore)
Research Area: Theoretical Chemical Physics, Biophysical processes, Soft Condensed Matter, Equilibrium and Nonequilibrium Statistical Mechanics, Dynamics of Macromolecules, Biopolymers

Dr. Dinesh Jagadeesan, PhD (INCASR, Bangalore)
Research Area: Materials Chemistry, Heterogeneous Catalysis, Environmental Catalysis

Dr. Mintu Porel, PhD (University of Miami, Florida, USA)
Research Area: Design, Synthesis and Application of novel organic materials, Supramolecular and Macromolecular Chemistry, Photochemistry

Dr. Padmesh A., PhD (Institute of Fundamental Sciences, Massey University, New Zealand)
Research Area: Computational chemistry, Molecular Simulations, Advanced Sampling Techniques

Dr. Shanmugaraju Sankarasekaran, Postdoc (Trinity Biomedical Sciences Institute (TBSI), Trinity College Dublin, Ireland)
Research Area: Inorganic Chemistry, Organometallic Chemistry, Supramolecular Material Chemistry, Polymer Chemistry

Visiting faculty
Prof. K. V. Govindan Kutty, PhD (IIT Madras)
Research Area: Materials Chemistry

CIVIL ENGINEERING
Dr. Athira. P., PhD (IIT Madras)
Research Area: Predictions in Ungauged Basins, Hydrological Modelling and Uncertainty Analysis, Watershed Management, Landuse/Landcover change modelling, Climate change impact analysis
Dr. Divya. P. V., PhD (IIT Bombay)
Research Area: Geotechnical & Geoenvironmental Engineering, Geosynthetics and Ground improvement techniques, Reinforced earth walls and embankments, Engg. behaviour of soft clayey soils, Centrifuge Modelling and Image analysis

Dr. Anil Kumar M. V., PhD (IIT Madras)
Research Area: Buckling and post-buckling behaviour of thin-walled open sections, Direct Strength Method, Hot-rolled/Cold formed Steel

Dr. Madhu Karthik M., PhD (Texas A&M University, USA)
Research Area: Reinforced and prestressed concrete structures, Structural evaluation of deteriorating structures, Non-destructive testing and evaluation, Bridge engineering

Dr. Subhasis Mitra, PhD (Auburn University, USA)
Research Area: Climate and Anthropogenic Impacts on Surface and Groundwater Hydrology

Dr. B. K. Bhavathrathan, PhD (IIT Bombay)
Research Area: Transportation Systems

Dr. Sudheesh T. K., PhD (The University of Florida, USA)
Research Area: Geotechnical Engineering: Deep Foundations; Soil Stabilisation; and Soil-Structure Interaction

Dr. Praveena Gangadharan, PhD (IIT Madras)
Research Area: Microbial Fuel Cells, Water/Wastewater treatment, Metal reduction/recovery, Electrochemical water/waste treatment

Dr. Sanjukta Chakraborty, Post doc (Tsinghua University, Beijing, China)
Research Area: Vibration control of structures using passive and feedback control mechanisms, Optimal control, Base isolation, Substructure shaking table test

Dr. Sarmistha Singh, Post doc (Auburn University, Auburn, USA)
Research Area: Hydroclimatology, Water Policy Analysis, Non-point Source Pollution, Water Resources Management

Visiting faculty
Dr. Sunitha K. Nayar, PhD (IIT Madras)
Research Area: Physical and mechanical characterization of construction materials and systems, Characterization of special concretes, Fatigue characteristics of concrete, Long-term performance of FRC, Design of FRC systems, Modeling mechanical performance parameters for construction materials and systems

COMPUTER SCIENCE AND ENGINEERING
Dr. Deepak Rajendraprasad, PhD (IISc Bangalore)
Research Area: Combinatorics, Graph Theory

Dr. Jasine Babu, PhD (IISc Bangalore)
Research Area: Theoretical Computer Science - mainly Graph Theory and Algorithms
Dr. Sahely Bhadra, PhD (IISc Bangalore)
Research Area: Machine Learning, Optimization, Bioinformatics

Dr. Piyush P. Kurur, PhD (IMSc Chennai)
Research Area: Programming languages, Type theory

Dr. Albert Sunny, PhD (IISc Bangalore)
Research Area: Wireless Networks, Social Network, Transportation Networks

Dr. Chandrashekar Lakshminarayanan, PhD (IISc Bangalore)
Research Area: Reinforcement Learning; Stochastic Control; Deep Learning

Dr. Krithika Ramaswamy, PhD (IIT Madras)
Research Area: Parameterized Algorithms, Combinatorics, Algorithmic Graph Theory and Approximation Algorithms

Dr. Vivek Chaturvedi, PhD (Florida International University, USA)
Research Area: Power and thermal efficient task scheduling strategies for multi/many core processors, Reliability and energy efficiency in cloud data centers, Cyber (hardware) security, Artificial Intelligence

Dr. Sandeep Chandran, PhD (IIT Delhi)
Research Area: High Performance Computing, Post-silicon Validation, Computer Architecture

**ELECTRICAL ENGINEERING**

Prof. Vinod A. Prasad, PhD (NTU Singapore)
Research Area: Digital Signal Processing, VLSI Signal Processing for Wireless Communications, Brain-Computer Interface Systems

Dr. Arun Rahul S., PhD (IISc Bangalore)
Research Area: Power Electronics, Motor Drives, Power converter topology and control, Multilevel power converters, Grid integration of solar energy, Pulse Width Modulation and switching techniques, Power Electronics and Power Systems

Dr. Arvind Ajoy, PhD (IIT Madras)
Research Area: Computational, theoretical and experimental aspects of nanoelectronics.

Dr. Lakshmi Narasimhan T., PhD (IISc Bangalore)
Research Area: Wireless communication, Signal processing, Information and coding theory

Dr. Revathy P., PhD (IISc Bangalore)
Research Area: Micro/Nanoelectronics

Dr. Swaroop Sahoo, PhD (Colorado State University, USA)
Research Area: Microwave Engineering

Dr. Mahesh R. Panicker, PhD (NTU, Singapore)
Research Area: Digital Signal Processing, Embedded Systems, Ultrasound Imaging
Dr. Sukomal Dey, PhD (IIT Delhi)
Research Area: Microwave and Millimeter wave Devices and Components, Radio Frequency Microelectromechanical System

Dr. Jobin Francis, PhD (Indian Institute of Science, Bangalore)
Research Area: area of wireless communication. My research focuses on the design, analysis, and optimization of 5G cellular networks

Adjunct faculty
Dr. Venkata Vanukuru, Electrical Engineering, PhD (IIT Madras)
Research Area: Solid State Devices

HUMANITIES AND SOCIAL SCIENCES
Dr. Shalina Susan Mathew, PhD (University of Hyderabad)
Research Area: Development Economics

Dr. Anoop George, PhD (IIT Bombay)
Research Area: Phenomenology and Existentialism, Philosophy of Technology, Continental Philosophy

Dr. G. Sujatha, PhD (University of Madras)
Research Area: Gender, cultural and postcolonial studies; language and modernity; modern Tamil literature, translation studies, cinema and folk religious cults

Dr. Reenu Punnoose, PhD (Newcastle University, United Kingdom)
Research Area: Phonetics, Sociolinguistics, Bilingual language acquisition, world Englishes

Dr. Amrita Roy, PhD (Jawaharlal Nehru University)
Research Area: Trade and Development, Economic Growth

MATHEMATICS
Dr. Ashok Kumar M., PhD (IISc Bangalore)
Research Area: Information, Statistics, and Probability

Dr. Sarath Sasi, PhD (Mississippi State University, USA)
Research Area: Partial differential equations

Dr. Lakshmi Sankar K., PhD (Mississippi State University, USA)
Research Area: Differential Equations, Nonlinear Analysis

Dr. G. P. Balakumar, PhD (IISc Bangalore)
Research Area: Several Complex Variables

Dr. Jayanarayan C. R., PhD (Indian Statistical Institute, Bangalore)
Research Area: Functional Analysis, Geometry of Banach Spaces, Approximation Theory
MECHANICAL ENGINEERING
Prof. Pramod S. Mehta, PhD (Loughborough University, UK)
Research Area: IC Engines

Prof. Job Kurian, PhD (IIT Madras)
Research Area: Gas dynamics

Dr. K. V. N. Surendra, PhD (IISc Bangalore)
Research Area: Fracture Mechanics, Elasticity

Dr. Krishna Sesha Giri, PhD (IISc Bangalore)
Research Area: Combustion and laser diagnostics, Combustion modeling, Novel laser and optical diagnostic techniques

Dr. D. Chakradhar, PhD (NIT, Warangal)
Research Area: Non traditional machining, Machining

Dr. Kanmani S. Subbu, PhD (IIT Kanpur)
Research Area: Micro Manufacturing, Laser Surface Treatment, Additive Manufacturing and Composite Fabrication and Machining

Dr. D. Kesavan, PhD (IIT Madras)
Research Area: Surface Engineering, Welding Technology, Industrial Tribology, Additive Manufacturing

Dr. Samarjeet Chanda, PhD (IIT Madras)

Dr. Ganesh Natarajan, PhD (IISc Bangalore)
Research Area: Computational Fluid Dynamics - Immersed Boundary Methods
Sports aerodynamics and mathematical modelling

Dr. Sovan Lal Das, PhD (Cornell University)
Research Area: Theoretical and Applied Mechanics, Contact Mechanics of Thin Structures, Lipid Bilayer Membrane

Dr. Santhakumar Mohan, PhD (IIT Madras)
Research Area: Field Robotics, Mobile Manipulators and Underwater Robotic Systems (Dynamics and Control), Parallel Robotic Platforms (Mechanical Design, Dynamics and Control), Assistive and Rehabilitation Robots (Lower Limb Rehabilitation Robots)

Dr. Afzaal Ahmed, PhD (National University of Singapore)
Research Area: Non-conventional machining processes, Hybrid machining methods, Micro and nano machining, Deep hole drilling, Laser surface alloying, Laser based additive manufacturing processes, Wear and tribology studies of modified surfaces
PHYSICS
Prof. P. B. Sunil Kumar, PhD (RRI, Bangalore)
Research Area: Soft matter and Biological Physics

Dr. Prithvi Narayan P., PhD (TIFR, Mumbai)
Research Area: Quantum Field Theory, String Theory

Dr. Jayakumar Balakrishnan, PhD (National University of Singapore)
Research Area: Experimental Condensed Matter Physics - 2D Materials and Perovskites

Dr. Uma Divakaran, PhD (IIT Kanpur)
Research Area: Quantum mechanics, Non-equilibrium dynamics, Quantum phase transitions, Quantum Information

Dr. Soham Manni, PhD (Georg-August-Universität Göttingen, Germany)
Research Area: Experimental Condensed Matter Physics- Magnetism and Superconductivity
Material Science - Single crystal growth

4.3 POSTDOCTORAL FELLOWS

<table>
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<th>Designation</th>
<th>Department</th>
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<tr>
<td>1.</td>
<td>Dr. Kokila Jayakumar</td>
<td>NBHM Post Doctoral Fellow</td>
<td>Mathematics</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. N. Pandurangan</td>
<td>Institute Post Doctoral Fellow</td>
<td>Chemistry</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. V. K. Benzy</td>
<td>Institute Post Doctoral Fellow</td>
<td>Electrical Engineering</td>
</tr>
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4.4 STAFF

<table>
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<tr>
<th>Sl. No.</th>
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<th>Designation</th>
<th>Department</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. B. Thiagarajan</td>
<td>Deputy Registrar</td>
<td>Purchase and Stores/ Personnel Administration</td>
</tr>
<tr>
<td>2.</td>
<td>Muralee Krishnan U. Nair</td>
<td>Assistant Registrar</td>
<td>Finance and Accounts</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Soumya G. Rajan</td>
<td>Assistant Registrar</td>
<td>ICSR, Human Resources</td>
</tr>
<tr>
<td>4.</td>
<td>Thasnin Harish C. M.</td>
<td>Assistant Registrar</td>
<td>Academics</td>
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<td>5.</td>
<td>Biju K. V.</td>
<td>Technical Officer</td>
<td>CFET</td>
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<tr>
<td>6.</td>
<td>Anitha Mani D.</td>
<td>Junior Superintendent</td>
<td>Academics</td>
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<tr>
<td>7.</td>
<td>Appu P. S.</td>
<td>Junior Superintendent</td>
<td>Accounts</td>
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<td>8.</td>
<td>Geetha A.</td>
<td>Junior Superintendent</td>
<td>Administration</td>
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<td>10.</td>
<td>Ramesh S.</td>
<td>Junior Superintendent</td>
<td>Engineering Works</td>
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<tr>
<td>11.</td>
<td>Soju Francis</td>
<td>Junior Superintendent</td>
<td>CFET</td>
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<td>12.</td>
<td>Thenmozhi N.</td>
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<td>Purchase and Stores</td>
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<td>Anandlal M.</td>
<td>Junior Technical Superintendent</td>
<td>Civil Engineering</td>
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<td>Harikrishnan M. G.</td>
<td>Junior Technical Superintendent</td>
<td>Chemistry</td>
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<td>16.</td>
<td>Pinku Sebastian</td>
<td>Junior Technical Superintendent</td>
<td>Electrical Engineering</td>
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<td>17.</td>
<td>Pisharody Harikrishnan Gopalakrishnan</td>
<td>Junior Technical Superintendent</td>
<td>Instrumentation</td>
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<td>18.</td>
<td>Rukshana Hassen</td>
<td>Junior Technical Superintendent</td>
<td>Central Library</td>
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<td>Sanil Sharahudeen</td>
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<td>Veena P.</td>
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<td>Chandra Sekhar S.</td>
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<td>Vineesh Kumaran M.</td>
<td>Junior Engineer</td>
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<td>Abdul Rahoof A. R.</td>
<td>Junior Assistant</td>
<td>Accounts</td>
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<td>28.</td>
<td>Ajay Ram Krishna</td>
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<td>Academics</td>
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<td>29.</td>
<td>Arun S.</td>
<td>Junior Assistant</td>
<td>Accounts</td>
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<tr>
<td>30.</td>
<td>Arun U.</td>
<td>Junior Assistant</td>
<td>ICSR</td>
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<td>Darsana Nair V.</td>
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<td>Rohit M.</td>
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<td>Purchase and Stores</td>
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<td>Sai Prasad S. S.</td>
<td>Junior Assistant</td>
<td>Purchase and Stores</td>
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<td>Vivek K. S.</td>
<td>Junior Assistant</td>
<td>Personnel Administration</td>
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<td>35.</td>
<td>Ananthu Sasikumar</td>
<td>Junior Technician</td>
<td>Electrical Engineering</td>
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<td>36.</td>
<td>Asish Chandran</td>
<td>Junior Technician</td>
<td>Electrical Engineering</td>
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<td>37.</td>
<td>Daniel Jerald M.</td>
<td>Junior Technician</td>
<td>Engineering Works</td>
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<td>38.</td>
<td>Ganesha K.</td>
<td>Junior Technician</td>
<td>Mechanical Engineering</td>
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<td>39.</td>
<td>Jiji M.</td>
<td>Junior Technician</td>
<td>Chemistry</td>
</tr>
<tr>
<td>40.</td>
<td>Jithin Thomas A.</td>
<td>Junior Technician</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>41.</td>
<td>Lidhyal Leena A.</td>
<td>Junior Technician</td>
<td>Physics</td>
</tr>
<tr>
<td>42.</td>
<td>Mejo A. J.</td>
<td>Junior Technician</td>
<td>Instrumentation</td>
</tr>
<tr>
<td>43.</td>
<td>Namitha V.</td>
<td>Junior Technician</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>44.</td>
<td>Rahul P.</td>
<td>Junior Technician</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>45.</td>
<td>Somasundaram S.</td>
<td>Junior Technician</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>46.</td>
<td>Vinayak M.</td>
<td>Junior Technician</td>
<td>CFET</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name</td>
<td>Designation</td>
<td>Department</td>
</tr>
<tr>
<td>--------</td>
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<td>---------------------------------</td>
</tr>
<tr>
<td>1.</td>
<td>K. M. Unni</td>
<td>Project Advisor</td>
<td>Administration</td>
</tr>
<tr>
<td>2.</td>
<td>Anandan V.</td>
<td>Senior Project Assistant</td>
<td>Administration</td>
</tr>
<tr>
<td>3.</td>
<td>S. Samuel</td>
<td>Advisor (Student Matters)</td>
<td>Hostel</td>
</tr>
<tr>
<td>4.</td>
<td>M. Balachandran</td>
<td>Senior Project Engineer</td>
<td>Engineering Works Department</td>
</tr>
<tr>
<td>5.</td>
<td>Sreenathan P.</td>
<td>Advisor (Finance &amp; Purchase)</td>
<td>Finance and Purchase</td>
</tr>
<tr>
<td>6.</td>
<td>Revindran M.</td>
<td>Project Engineer</td>
<td>Engineering Works Department</td>
</tr>
<tr>
<td>7.</td>
<td>R. Santhosh Kumar</td>
<td>Training and Placement Officer</td>
<td>Career Development Cell</td>
</tr>
<tr>
<td>8.</td>
<td>K. P. Mahima Sarada</td>
<td>Junior Architect</td>
<td>Engineering Works Department</td>
</tr>
</tbody>
</table>
5.1 B. TECH PROGRAMME

5.1.1 Overview

IIT Palakkad offers a B Tech Programme in four major engineering streams viz. Civil Engineering, Computer Science and Engineering, Electrical Engineering and Mechanical Engineering. From the 2018 batch, the intake in Computer Science and Engineering and Electrical Engineering has been increased to 50 students each, thereby raising the total intake strength of undergraduate students to 152 in 2018-19. In addition, supernumerary seats are available to encourage girl students as per the Government norms.

Demographics of State - Wise Distribution of Students
5.1.2 B.Tech Curriculum

Every branch of the B Tech programme has a well-drawn ‘Curriculum and Syllabi’ of courses duly approved by the Institute Senate. The complete programme comprises a total of 167 credits for 2016 batch and 160 credits for 2017 onwards with courses under different categories viz. Basic Science, Basic Engineering, Professional Major Theory, Humanities and Electives under Professional Major and General Categories. In addition, there are few courses of interdisciplinary and general nature and a project work in the final year. All students are required to participate in life skills activities in the first few weeks and NSS/NSO in the first year of their entry.

5.1.3 Scholarships and Financial Assistance

Merit-Cum-Means scholarships, Scholarships for SC/ST students and differently abled students are available to the students of IIT Palakkad, as per the Government of India norms. There are also provisions for Institute free studentships. IIT Palakkad has signed an MOU with State Bank of India, Kanjikode and eligible students can avail loans for Tuition fee under Vidyalakshmi educational loan scheme.

Scholarships

- PWD Tuition Fee Waiver
- SC/ST Scholarship
- SC/ST - Tuition Fee Waiver + Pocket Money
- Institute Freeship - Tuition Fee Waiver
- MCM Scholarship - Tuition Fee Waiver + Pocket Money
- Economically Backward - Tuition Fee Remission
- Vidyalakshmi Schem- Five Year Interest Subvention
- Self Support
5.1.4 Branch Change Policy

IIT Palakkad allows a limited number of students to change their branch based on their academic performance in the first semester. The change comes into effect at the end of their first year as per senate approved norms.

5.1.5 Orientation Programme for B. Tech 2018 batch

This year, the institute brought under its fold its fourth batch of 152 industrious students to the B.Tech programme in the identified four streams. The enrollment formalities were conducted on Saturday, 28 July 2018 with a Welcome programme the following day. Subsequent to the enrollment, the students were engaged to be part of a two-week long Orientation Programme from 30 July to 14 August 2018. The schedule of orientation programme included Yoga sessions in the morning followed by day lectures on themes concerning education in general and technical education in particular, learning process, behavioral aspects, professionalism and life values, to name a few. The lectures conducted by Prof Vinod A. Prasad and Dr Mahesh R. Panicker were welcomed. During the programme, the students visited different laboratories/facilities/heritage sites of Ahalia, and participated in sport activities and cultural activities. An outbound training programme was arranged as part of orientation to the Fortress Walayar which touched upon experiential learning, workshops on creativity (science sense), fine arts and stress management. The feedback of students on the outcome of the Orientation Programme suggests that it succeeded in inducting them to the institute facilities, their batch mates and other senior members of the institution.

5.2. Research Programmes

The M.S. (Research) and PhD programmes were started in 2017. IIT Palakkad currently offers M.S. in Civil Engineering, Computer Science and Engineering, Electrical Engineering and Mechanical Engineering, and PhD programmes in Chemistry, Civil Engineering, Computer Science and Engineering,
5.2.1. आई.आई.टी. पालक्काड में अनुसंधान प्रवेश

- २०१८ अगस्त सेमेस्टर अनुसंधान प्रवेश के लिए प्रवेश प्रक्रिया मार्च २०१८ में शुरू की गयी थी जो जुलाई २०१८ में पूर्ण हुई। इस कार्यक्रम के तहत ११ पीएचडी. और तीन एम. ऐस. विद्यार्थियों की भर्ती हुई।
- २०१८ जनवरी सेमेस्टर अक्टूबर २०१८ को प्रवेश प्रक्रिया प्रारम्भ हुई और दिसंबर २०१८ में पूर्ण हुई। १९ पीएचडी. एवं एम. ऐस. विद्यार्थियों की भर्ती इस कार्यक्रम के तहत हुई।

**Detailed streamwise split of students is as under:**

<table>
<thead>
<tr>
<th>Department</th>
<th>MS</th>
<th>PhD</th>
<th>Post-doc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Nil</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>Physics</td>
<td>Nil</td>
<td>6</td>
<td>Nil</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Nil</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>HSS</td>
<td>Nil</td>
<td>4</td>
<td>Nil</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>5</td>
<td>14</td>
<td>Nil</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>6</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>5</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>2</td>
<td>13</td>
<td>1</td>
</tr>
</tbody>
</table>

5.2.2. ग्रीष्मकालीन इंटरनशिप

- से २०१९ के ग्रीष्मकाल में १००० के वृत्ति (स्टाइंफेड) के साथ ३० विद्यार्थियों ने आई.आई.टी. पालक्काड में अपना ग्रीष्मकालीन इंटरनशिप पूर्व किया।
- ४९ छात्र एवं ४९ छात्राओं ने ग्रीष्मकालीन इंटरनशिप पूर्व किया।

5.2.3 पोस्ट डॉक्टरल कार्यक्रम

आई.आई.टी.पालक्काड, सिस्टिक इंजीनियरिंग, कंप्यूटर इंजीनियरिंग, इलेक्ट्रिकल इंजीनियरिंग, सामाजिक विज्ञान, अंतराल, भारत, मानवता एवं सामाजिक विज्ञान आदि विषयों में पोस्ट डॉक्टरल फेलोशिप आवेदन करता है। आई.आई.टी.पालक्काड प्राप्तीयों पोस्ट डॉक्टरल के अन्य अन्य सरकारी पोस्टिसिओं जैसे SERB, NBHM, DBT, DST आदि ने जिन उम्मीदवारों के फेलोशिप को प्राप्त किया हैं, ऐसे उम्मीदवार भी आवेदन देने के लिए प्रोपागेडा किया जाता है।

5.2.1 Research Admissions

- 2018 August Semester: Admission process for the Research programmes commenced in the month of March 2018 and were completed in July 2018. As part of the programme, 17 PhD and 3 MS students were enrolled.
- 2018 January Semester: Admission process commenced in October 2018 and were completed in December 2018. 11 PhD and 5 MS students were enrolled as part of the programme.

5.2.2 Summer Internship

- 30 students underwent summer internship at IIT Palakkad in the summer of 2019 with a stipend of Rs. 9000 each.
- 49 females and 49 male candidates underwent summer internship

5.2.3 Postdoctoral Programmes

IIT Palakkad offers Post Doctoral fellowships in the areas of Civil Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, Chemistry, Mathematics, Physics & Humanities and Social Sciences. In addition to the PDFs supported by IIT Palakkad, candidates with fellowships supported by other government agencies like SERB, NBHM, DBT, DST etc., are encouraged to apply.
6.1 LIBRARY

As the informatics center of the Institute, the Central Library provides an enjoyable learning experience with a carefully developed collection of books, journals, standards, magazines and newspapers. The library also stores collection of audio-visual materials such as CD-ROM, scientific kits etc. The library opened its doors to the students, faculty and staff in August 2015 with a collection of 700 printed books which has grown to more than 4644 printed bar-coded and RFID tagged books (textbooks, reference, popular sciences and literature) in the past four years. Based on the needs and requirements of researchers, the library has subscribed to a number of electronic journals for its users. The library also has the support of national consortium E-Shodh Sindhu (INFLIBNET) to fulfill maximum journal requirement. The operations of the library are fully computerized and enabled with the RFID system for fast transactions, for ease of access as well as for the security of the library. The library is also enabled with Wi-Fi and LAN facility for unlimited high speed internet access. Online facilities of the library is available 24x7x365 days for its registered users, users can renew, reserve books through Online Public Access Catalog (OPAC) at anytime.

The library also renders services such as Reference and Consultation as well as updates the users with the Current Awareness Services. The users of Central Library of IIT Palakkad are also registered with the National Digital Library sponsored by MHRD and coordinated by IIT Kharagpur.
6.2.1 ENGINEERING LABS

CIVIL ENGINEERING

Heavy Testing Laboratory
Equipment:
1. MTS Servo-hydraulic Actuators (100kN, 250kN and 500kN).
2. MTS Servo-hydraulic Fatigue rated UTM (100kN).
3. MTS Servo-hydraulic UTM (500kN) with T slot Table.
Description: Facility for testing large scale structural components. Testing of large scale structural elements such as beams, columns, piers, pile caps, etc.

Concrete Testing Laboratory
Equipment: Servo Hydraulic System.
Water Resources Engineering Laboratory
Equipment: Experimental Flume.
Description: A tilting flume of 5m long channel section and 45 cm width. The accessories present in the flume are ogee spillways, sluice gate and a digital velocity meter. Used for conducting experiments on flow profile computation, hydraulic jump, sediment transport and coastal protection.

Geotechnical Engineering Laboratory
Description: All the basic facilities for soil characterization including equipment for sieve and hydrometer analysis, consistency limits tests, specific gravity test, field density tests, compaction test, permeability test, consolidation test, vane shear test, unconfined compression test, direct shear test, etc. In addition, the lab is equipped with various state-of-the-art equipment such as automated static triaxial system, computerized cyclic triaxial system, automated consolidation test apparatus, computer controlled direct shear test setup, computerized flexible wall permeability system and fully automated soil-geosynthetic interface shear resistance testing apparatus for advanced soil testing. Procurement of additional advanced equipment are in process.

Pavement Materials Laboratory
Equipment:
1. Aggregate flakiness and elongation index apparatus.
2. Bitumen penetration test apparatus.
4. Bitumen softening point test apparatus
5. Bitumen specific gravity test apparatus.
7. General facilities for bitumen testing: oven, hot plate, water bath, thermometers, refrigerator, general work tools etc.
Description: Quality and grading of bitumen and aggregates.
COMPUTER SCIENCE AND ENGINEERING

Central Computing Centre
IIT Palakkad has a state-of-the-art Computing Centre with 70 All-In-One Desktops that works round the clock. It is fuelled by a 1 Gbps internet connection. The machines are equipped with industrial standard simulation and design software. A single account enables the students to carry out their work from any common machine in the institute. A learning management system called Moodle is used by most teachers at IIT Palakkad to create a personalised learning environment for their courses. The same is hosted and managed by the Computing Centre.

IIT Palakkad has a Computer Science Laboratory with 35 All-In-One Desktops that run GNU/Linux. A team of students take an active role in managing this lab. The lab is equipped with all the necessary software required to run all the undergraduate CS laboratories like Programming, Operating Systems, Compilers, Databases, Artificial Intelligence and Networks.

ELECTRICAL ENGINEERING

General Electronics Laboratory
The General Electronics Laboratory is being setup in the Transit campus of IIT Palakkad. This space will be used to run lab courses in Digital and Analog Electronics, Digital Signal Processing, Computer Aided Design & PCB fabrication and Computer Organization. For this purpose, the lab is equipped with 42 workbenches -- each with a power computer, a 100 MHz Digital Storage Oscilloscope (from Keysight), a 60 MHz Arbitrary Waveform Generator (from Tektronix) and a Multi-Output power supply. Some specialized equipment for fine PCB work with surface mount components has also been procured.
2. विद्युत मशीन प्रयोगशाला

इस प्रयोगशाला में अन्वेषण की इलेक्ट्रिकल पावर सिस्टम में छात्रों को महत्वपूर्ण व्यवहारी अध्ययन को पढ़ाने के प्रयोग के लिए उपकरण उपलब्ध है। इस उपकरण में सिर्फ चीजें शामिल हैं - (1) विभिन्न गायबहियां के अध्ययन के लिए एल्ट्रॉनिक फॉल्ट लाइमेटर (2) ऑवरक्लैप और अर्थ फार्ल सिलेंडर के संचालन का अध्ययन करने के लिए एक सेट, (iii) खैरल आवश्यक अंतर्वर्ती आवश्यकताओं वूसिंग डिफरेंशियल प्रोटेक्शन प्रणाली का अध्ययन करने के लिए एक सेटअप और (iv) पॉलीवोल्टिक सिस्टम द्वारा इंजीनियर आकार पॉर्टियंग डिज़ाइन का अध्ययन (v) अर्थ और डिज़ाइन प्रतिरोध को मापने के लिए उपकरण गायबहिया, वायरल सिस्टम टेक्निकल्स, तोड स्रोतों अध्ययन आदि सहित मल्टी-प्रिंट धर्मतियों को अनुक्रमण कर सकता है। नियमानुसार पॉर्टियंग सिस्टम एनालिसिस संपादकर के लाइसेंस भी सस्ती है।

3. पावर सिस्टम प्रयोगशाला

इस प्रयोगशाला में आधुनिक इलेक्ट्रिकल पावर सिस्टम में छात्रों को अधिकतर व्यवहारी अध्ययन को पढ़ाने के लिए उपकरण उपलब्ध है। इस उपकरण में सिर्फ चीजें शामिल हैं - (1) विभिन्न गायबहियां के अध्ययन के लिए एल्ट्रॉनिक फॉल्ट लाइमेटर (2) ऑवरक्लैप और अर्थ फार्ल सिलेंडर के संचालन का अध्ययन करने के लिए एक सेट, (iii) खैरल आवश्यक अंतर्वर्ती आवश्यकताओं वूसिंग डिफरेंशियल प्रोटेक्शन प्रणाली का अध्ययन करने के लिए एक सेटअप और (iv) पॉलीवोल्टिक सिस्टम द्वारा इंजीनियर आकार पॉर्टियंग डिज़ाइन का अध्ययन (v) अर्थ और डिज़ाइन प्रतिरोध को मापने के लिए उपकरण गायबहिया, वायरल सिस्टम टेक्निकल्स, तोड स्रोतों अध्ययन आदि सहित मल्टी-प्रिंट धर्मतियों को अनुक्रमण कर सकता है। नियमानुसार पॉर्टियंग सिस्टम एनालिसिस संपादकर के लाइसेंस भी सस्ती है।

4. माइक्रोवेल्व और कम्युनिकेशन सिस्टम प्रयोगशाला

इस प्रयोगशाला के लिए राष्ट्रीय उपकरणों से कई सॉफ्टवेयर परिभाषित रेडियों (एस.मी.ए) छोड़ दी गई है। एस.डी.ए और किसी भी वायरलस संचार प्रणाली के सैलिसिय एप्प, वायरलस, जीआईपीएस, जीआईएस, अल्टर्नेटर, द्वीपीआई इलेक्ट्राइटी के लिए दृंढ़र के रूप में कार्य करने के लिए सॉफ्टवेयर अंतर्वर्ती आवश्यकताओं वूसिंग डिफरेंशियल प्रोटेक्शन प्रणाली का अध्ययन करने के लिए एक सेट, और (iv) पॉलीवोल्टिक सिस्टम द्वारा इंजीनियर आकार पॉर्टियंग डिज़ाइन (v) अर्थ और डिज़ाइन प्रतिरोध को मापने के लिए उपकरण गायबहिया, वायरल सिस्टम टेक्निकल्स, तोड स्रोतों अध्ययन आदि सहित मल्टी-प्रिंट धर्मतियों को अनुक्रमण कर सकती है। नियमानुसार पॉर्टियंग सिस्टम एनालिसिस संपादकर के लाइसेंस भी सस्ती है।

Electrical Machines Laboratory

This laboratory is being setup in the Transit Campus. It consists of two different kinds of machine setups -- (i) Fourteen sets of composite machine beds having an AC generator coupled to a DC machine coupled to another DC machine coupled to an AC motor. These machine beds allow the student to perform various experiments at the same setup. The data is collected on to a digitised system using a data acquisition card and is easily displayed on a computer making use of LABVIEW. (ii) Two sets of dissectible machines setup (from Delorenzo) which will be used for showing the inside construction and working of various DC and AC machine parts and types.

Power Systems Laboratory

This laboratory houses equipment to teach students key practical concepts in modern electric power systems. To this end, the equipment include (i) Alternator fault simulator to study about various faults, (ii) a setup to study the operation of overcurrent and earth fault relays, (iii) a setup to study the parallel operation of alternators using a differential protection scheme and (iv) Photovoltaic simulator to study the integration of PV power to grid (v) Equipment to measure earth and insulation resistance. Licenses for the Mipower power system analysis software to simulate versatile grid conditions including faults, power system stability, load flow studies etc have also been procured.

Microwave and Communication Systems Laboratory

Several software defined radios (SDRs) from National Instruments have been procured for this laboratory. The SDRs can be configured through software to act as a transceiver for any wireless communication system such as FM, WiFi, GPS, GSM, LTE, etc. The SDRs housed in our laboratory can transmit RF signals up to 6GHz in frequency in 50MHz in bandwidth. Prototyping, testing and research on new and novel wireless communication techniques for 5G, sensor networks, IoT, etc., can be performed using these devices.

To introduce our students to the process of testing Microwave and Radio Frequency components, a four-port 8 GHz Vector network Analyzer (from Rohde
and Schwarz), a Signal Analyzer (from Keysight) for measurements upto 7 GHz, and a Signal Generator (from Tektronix) have been procured. The lab is also stocked with various microwave components like amplifiers, oscillators, mixers, filters, directional couplers and antennas operating from 1 GHz to 10 GHz. Various klystron and oscillator based experimental setups for the study of klystron tubes, gun oscillators, waveguides, isolators, directional couplers and antennas have also been set up. Licenses for HFSS, and industry standard simulation tool from ANSYS have been purchased.
VLSI and Microelectronics

Licenses for the industry standard Integrated Circuit design tool from Cadence have been purchased. This tool allows students to understand the standard workflow involved in the design of analog and digital ICs. We have also purchased licenses for the Sentaurus device simulation software from Synopsys. This is also an industry standard tool where students understand the flow of electrons and holes inside semiconductor devices like diodes and transistors. These tools will also be heavily used by research scholars working in the VLSI area. On the hardware side, an ample stock of FPGA (from Xilinx), Microcontroller (Arduinos and Texas Instruments), DSP (fixed and floating point from Texas Instruments) and Embedded System boards (Raspberry PI with accessories) is maintained to facilitate hands-on learning. A solar simulator to simulate the solar spectrum for testing of solar cells has also been procured.

Control and Instrumentation

A number of table top experiments have been designed and locally fabricated. These include temperature control setups, ball-and-beam setups, inverted pendulum setups and magnetic levitation setups to introduce our students to some interesting problems in control engineering. Transducer setups have been designed to understand the operation of linear variable displacement sensors (LVDTs), temperature sensors and strain gauges. The lab is also equipped with a large stock of MyDAQ Data Acquisition systems from National Instruments. These are used by our students along with the LabView software to build virtual instruments.

MECHANICAL ENGINEERING

Workshop

Workshop is an integral part of the curriculum and has four modules: Electrical, Electronics, Instrumentation and Manufacturing. Students are also introduced to sheet metal working, moulding and foundry practices. A unique and modern transit machine shop with lathes, milling, drilling machinery is set up in a container adjacent to the academic building.
Applied Mechanics Laboratory

Applied Mechanics laboratory houses facilities in the broad areas of Strength of Materials and Fluid Mechanics. There are experimental facilities to study deflection of beams, torsion of circular sections and buckling of struts. Strain gauge demonstration, a photo elastic setup for demonstrating the stress patterns in loaded transparent models and a Universal Testing Machine (UTM) of loading capacity upto 5.0 kN are also available. There are tabletop facilities for demonstrating fundamentals of Fluid Mechanics. These include setups for pressure gauge calibration, friction losses in pipes and fittings, demonstration of Bernoulli’s principle, visualization of free and forced vortices, Osborne Reynolds demonstration, visualization of streamlines in open channel flow and flow through orifices.

Mechanical Engineering Laboratory

Major teaching elements in this laboratory are IC engines, heat transfer, applied fluid mechanics, machining (traditional and non-traditional), materials characterization, measurements & metrology, fatigue and fracture mechanics. IC engines section consists of a computerised IC engine setup with eddy current dynamometer. Load test, heat balance test can also be conducted. Additionally cut-section models of SI and CI engines are available to gain insight into the working of various components of a practical IC Engine. Heat transfer section consists of linear and radial conduction apparatus, heat transfer from extended surfaces, convective heat transfer and radiation apparatus. Counter and parallel flow heat exchanger apparatus is used to study effective modes of heat transfer under process conditions. Pelton wheel and Francis turbine have been added as a part of the applied turbo machinery experiments. Design and Manufacturing Engineering section consists of equipment such as precision lathe, CNC lathe, coordinate measuring machine, wire EDM, metrology kits, materials characterization & testing facilities which includes hardness tester, optical microscopy, tensile tester, fatigue and contact fatigue testing machines. These facilities are effectively used by the students to carry out their for UG laboratory experiments and also for research, internship and project assignments. Schlieren visualization setup has also been procured for research and development activities.
CAD/ CAE Facilities

Computer aided design and drafting software Autocad 2016 is available in the Institute Computer Centre. Students are introduced to 2D and 3D modeling of various engineering and machine drawings using Autocad and these facilities are widely used in the teaching of drawing courses offered in the curriculum. Computational facilities with licensed engineering simulation software ANSYS18.2 including Fluent, CFX, ICEM CFD have also been procured and made available to the students.

INNOVATION LAB

Setting up of the CSquare Innovation Lab:
The CSquare Innovation Lab, where CSquare stands for “Creation Square” enables students to transform their ideas into working prototypes. Over the last year, the lab has been upgraded with the following facilities:

1. CNC (Computer Numerical Control) Router (60 cm x 60 cm) from SVP Laser: supports precise cutting of 2D shapes in soft materials like wood and acrylic.

2. Wood Working tools: a table saw, band saw, thickness planer and sanding station along with a number of hand tools. All of the machine tools are connected to a powerful dust collector to keep the lab clean.

3. Four axis CNC Milling machine from Tormach: The PCNC 770 enables our students to fabricate items in soft materials like aluminium to hard materials like steel and titanium. Job sizes upto 350mm x 150mm x 300mm in the X, Y, Z directions is supported.

4. Watchmaker CNC lathe from Sherline: The 4410 lathe is optimized for small sized jobs. It supports turning of jobs in soft materials upto 45mm in diameter and 300mm in length. It is also equipped with a thread cutting attachment.

5. 3D printing and Scanning: The lab is equipped with two 3D printers: an Ultimaker 2 and a Wanhao Duplicator 4S. The lab also has a 3D scanner from Einscan SE. Along with two Ultimaker 2 systems in the mechanical workshop, these systems will form the basis...
6. Electronics Workbenches: Each bench is equipped with a multi-output power supply, 25 MHz arbitrary waveform generator and a 100 GHz digital oscilloscope, and SMD rework stations. A ready stock of components, Arduino and Raspberry PI boards, is available to the students.

Student working at Innovation lab
**6.2.2 मूल विज्ञान प्रयोगशालाएं**

**रसायन विज्ञान**

आई.आई.टी. पालक्काड़ में मूल विज्ञान प्रयोगशालाएं नवीनतम तकनीकी बाले प्रयोगात्मक सेट-अप से लें.Live हैं। छात्र इस विषय का अनुभव पाने के लिए ‘भौतिकी’ की वास्तविक शास्त्राओं से संबंधित प्रयोग करने के लिए दुबारा हाथ पर रखने में मदद करने के लिए सेटिंग कृतिकाय सुविधाओं से. आय.एफ. तथा सेटिंग मिश्रत्वक्षेत्र फैक्सलिटीँ (सी.एम.एफ.एफ.एफ.) और अन्य सामग्री उपलब्ध के लिए सेटिंग सुविधा उपलब्ध है।

**भौतिक विज्ञान**

आई.आई.टी. पालक्काड़ में भौतिक विज्ञान के लिए ‘भौतिकी’ प्रयोगशालाएं नवीनतम तकनीकी वाले प्रयोगात्मक सेट-अप से लें।

**6.2.2 BASIC SCIENCES LABS**

**CHEMISTRY**

The Department has an undergraduate Chemistry Laboratory (1650 sq. feet), well equipped with several basic Physical, Inorganic, and Organic experimental infrastructure such as Analytical balance, Benchtop conductivity meter, Benchtop pH meter, Digital colorimeter with micro control and 8 filters, Ice flake machine, Melting point apparatus, spectrophotometer, Ultrasonic bath, etc.A number of analytical equipment required for chromatography and spectroscopy such as TG-DTA-MS, Benchtop NMR, FT-IR, Chemisorption, UV-vis, and Fluorescence spectrophotometer are available.

In addition to this, major research equipment such as an X-ray diffractometer and a scanning electron microscope (SEM) will be installed very soon. Additionally, for conducting advanced research, IIT Palakkad has set up different central facilities for experimental and theoretical studies, such as the Chandra High Performance Computing Cluster, Central Instrumentation Facility (CIF), and Central Micro Fabrication Facility (CMFF). As a part of the central facility, sophisticated instruments (relevant to the field of chemistry) such as High performance liquid chromatography equipment, Liquid chromatography Mass Spectroscopy equipment, and a Nuclear magnetic resonance spectrometer for analysis and characterization of samples are already set for use. Other central facilities in Materials and manufacturing, and Data mining are being planned. Details of the available central facilities at IIT Palakkad are listed in section “Central Research Facilities at IIT Palakkad” on the institute website.

**PHYSICS**

The Department has at present a teaching Physics Laboratory to cater the needs of undergraduate/graduate students and is equipped with experimental setups that can boast of the latest technology. In addition to this, for conducting advanced research IIT Palakkad has set-up different central facilities
6.3 CENTRAL FACILITIES

6.3.1 CENTRAL INSTRUMENTATION FACILITY

The CIF houses a range of sophisticated analytical equipment capable of studying the physical, chemical, electrical, mechanical and magnetic properties of molecules as well as materials. The equipment will be installed across the temporary and the transit campuses in the initial years but will eventually be relocated to a dedicated Research Complex at the permanent campus.

1. Equipment Name: Semiconductor Parameter Analyser
   Model: B1500A (from Keysight)
   Capability of the equipment: The semiconductor parameter analyzer integrates multiple measurement and analysis capabilities to perform the current-voltage (I-V) and capacitance measurements [C-V (capacitance-voltage), C-f (capacitance-frequency), and C-t (capacitance-time)] accurately.
   It has:
   (a) 4 source measure units (SMUs): 3 high-resolution SMUs, and 1 high-power SMU
   (b) 1 multi-frequency capacitance measure unit (MFCMU) [upto 5 MHz]
   (c) 1 waveform generator unit
   (d) An upgradability and support of 9 slot modules
   (e) ground unit with ±4.2 A sink current

2. Equipment Name: Vector Network Analyzer
   Model: N5224B
   Capabilities of the Equipment
   (a) Vector network analyser is a test system that
enables the RF performance of radio frequency (RF) and microwave devices
(b) The characteristics in terms of network scattering parameters, or S parameters can be determined.
(c) The permeability and permittivity of various materials can be determined.
(d) Measurement frequency range: 10 MHz to 43.5 GHz
(e) Number of ports: 4 ports with bias tees on all port
(f) Noise floor: -114 dBm
(g) Measurement of all S parameters both phase and magnitude, Y/Z parameters, wave Quantities, Impedance
(h) Measurement capability (hardware and software) for mixer measurements like conversion loss, matching & isolation measurements. Power meter for source and receiver power
Unique Capability:
(a) Measurement frequency range: 10 MHz to 43.5 GHz
(b) Number of ports: 4 ports with bias tees on all port

3. Equipment Name: Signal Analyzer
A signal analyzer is an instrument that measures the magnitude and phase of the input signal at a single frequency within the IF bandwidth of the instrument. It employs digital techniques to extract useful information that is carried by an electrical signal.
Model: N9020B MXA Signal Analyzer
Capability of the equipment:
(a) Measures the magnitude and phase of the input signal at a number of frequencies within the IF bandwidth
(b) Measurement frequency range: 10 Hz to 44 GHz
(c) Noise floor: -150 dBm
(d) Phase noise figure measurement and plotting
(e) Spectrum and time domain envelope of RADAR signals
(f) Measure and list rise time, fall time, PRI, PRF, duty cycle, peak power, average power, pulse to pulse phase, pulse to pulse frequency, detect and list the modulation within the pulse like FM
Unique Capability:
(a) Noise figure measurement
(b) Vector signal measurement
4. Equipment Name: Mass Spectrometry
   Model: Shimadzu Triple Quadrupole LCMS-8045
   Spectroscopy
   5. Equipment Name: High Performance Liquid Chromatography
   Model: Shimadzu LC-20AP Analytical-cum-Preparative HPLC System
   Capability of the equipment:
   (a) Chromatographic separation of the components from a mixture
   (b) Quantification of each component in a mixture
   (c) Large scale purification by preparative system (flow rate of 150 mL/min)
   (d) Small scale purification by analytical system (flow rate of 0.01 mL/min)
   (e) Wavelength range of detection: 190 nm to 800 nm
   (f) Detection via both the photodiode array detector and refractive index detector
   (g) Equipped with both the manual and automated fraction collection
   Unique capability:
   (a) From small scale to large scale purification possible by analytical-cum-preparative systems in a single HPLC machine.

5. Equipment Name: Liquid Chromatography Mass Spectroscopy
   Model: Shimadzu Triple Quadrupole LCMS-8045
   Capability of the equipment:
   (a) A coupled system: liquid chromatography (LC)
मास सेंट्रिया सी (एम.एस.)। एल.सी. मिश्रण के प्रत्येक चरक को अलग करना है और एम.एस. प्रत्येक चरक की आयोजनाइज़ मॉलिक्युल को पहचानने में मदद करता है।

(बी) मास रेंज का मानदंड: एम / जेड 2 से 2,000
(सी) पोसिटिव और नेगेटिव आयोजन मोड कोंडों पर आयोजनाइजेशन  
(डी) संयुक्तवक्तव विश्लेषण के लिए एम.एस. / एम.एस. विश्लेषण  
(ई) मालामल विश्लेषण के लिए, उपयुक्त संयुक्तशीलता  

(एफ) पूरी तरह से स्वचालित पाकथक प्रतिक्रिया निगरानी (एम.  
आर.एम) आयोजनाइजेशन  
(जी) उच्च गति विश्लेषण का योगदान करने के लिए नेकसरा  
पूर्णपूर्णकौशली की साथ निर्धार एककरण  
अन्तर्क्षेत्र क्षमता:  
(एच) चूनियाल आयोजनाइजेशन मोड (सिम) की मदद से उच्च  
संयुक्तवक्तव शीलता  
(आई) सबसे तेज़ स्कीन गति (30,000 यू / सेक)  
(जे) सबसे तेज़ पोसिटिव-नेगेटिव आयोजनकरण स्विंगिंग गति (५  
एमसीईसी)  

7. उपकरण का नाम: परमाणु चुंबकीय अनुनाद स्पेक्ट्रोमीटर  
मॉडल: इनकाउंट्र ए.एम.आर.ई.ए.डी.बाई. 60.बी बेंचटाउन एन.एम.  
आर  
उपकरण की क्षमता:  
(ए) अवस्था रासायनिक यौगिक का लक्षण  
(बी) रिएक्शन कैटेनेशन का मापन  
(सी) अभिलक्षक / उपरांत श्रृंखला का आकलन  
(डी) कंपाउंड का 1एच एन.एम.आर स्पेक्ट्रम रिकॉर्डिंग  
(ई) कंपाउंड का 13 सी एन.एम.आर स्पेक्ट्रम रिकॉर्डिंग  
(एफ) कंपाउंड का 1-डी एनएमआर (कोजी, टोसी, एचएसभूती /  
ङ्केकॉर, एचएसबीसी) स्पेक्ट्रम रिकॉर्डिंग  

अद्वितीय क्षमता:  
(ए) प्रतिक्रिया प्रभाव की निगरानी के लिए प्रवाह सेल के साथ  
मूल्यित  

8. उपकरण का नाम: वायर बॉन्डर  
मॉडल: डी.पी.टी  
उपकरण की क्षमता:  
(ए) समायोजन ऊंचाई (60 मिमी) और हीटर चरण (२५० सी) के  
साथ मैनुअल वेज वायर बॉन्डर  
+ mass spectroscopy (MS). LC separates individual  
component of a mixture and MS identifies of each  
component by mass of the ionized molecule  
(b) Measurement of mass range: m/z 2 to 2,000  
(c) Ionization at both positive and negative ion  
mode  
(d) MS/MS analysis for structural characterization  
(e) Sensitivity suited for quantitative analysis  
(f) Fully automated multiple reaction monitoring  
(MRM) optimization  
(g) Seamless integration with Nexera UHPLC to  
support high speed analysis  
Unique capability:  
(a) High sensitivity with the help of Selective  
Ionization Mode (SIM)  
(b) Fastest scan speed (30,000 u/Sec)  
(c) Fastest positive-negative ionization switching  
speed (5 msec)  

7. Equipment Name: Nuclear Magnetic Resonance  
Spectrometer  
Model: Inkarp NMREADY 60Pro benchtop NMR  
Capability of the equipment:  
(a) Characterisation of an unknown chemical  
compound  
(b) Measurement of reaction kinetics  
(c) Assessment of reagent/product purity  
(d) Recording 1H NMR spectrum of a compound  
(e) Recording 13C NMR spectrum of a compound  
(f) Recording 2D NMR (COSY, TOCSY, HSQC/HETCOR,  
HMBC) spectra of a compound  
Unique capability:  
(a) Equipped with flow cell for monitoring the  
reaction progress  

8. Equipment Name: Wire Bonder  
Model: TPT  
Capability of the equipment:  
(a) Manual Wedge Wire Bonder with adjustable  
height (60mm) and heater stage (250 C)  
(b) Bond using Aluminium or Gold wires  
(c) For bonding the devices with the measurement  
pad  

9. Equipment Name: Mixed signal digital storage  
ocilloscope  
Model: Keysight MSOS404A Mixed Signal  
Oscilloscope – Infiniium S Series 4 GHz 4  
channel
Capability of the equipment:
(a) Measurement frequency range: DC to 800MHz
(b) Measuring low voltage as well as high voltage quantities
(c) 16 digital channels, I2c, SPI, UART, CAN/LIN protocol decoding
(d) Measure and list rise time, fall time, duty cycle, peak power, average power, pulse to pulse phase, pulse to pulse frequency, Math functions like integration, differentiation, FFT, Envelope measurements
Unique Capability:
(a) Capture a longer signal trace with 20 GSa/s max sample rate and 100 Mpts/channel of standard memory
(b) 4 GHz bandwidth (upgradable)
(c) 50 standard automated measurements with statistics and 16 independent math function
(d) See up to 20 measurement results simultaneously with statistics
(e) Multi-touch support for multi-touch (gestures) such as zooming and panning
6.3.2 CENTRAL MICRO-NANO FABRICATION FACILITY (CMFF)

The Central Micro-Nano Fabrication Facility (CMFF) at the transit campus of IIT Palakkad houses equipment and facilities capable of performing wet-chemical processes, thin film deposition, and lithography/patterning. The facility is established in a clean space spanning about 50 m², with two areas: one which is class 10000 (about 12 m²), and another that is class 1 lakh.

Broadly, research is proposed in the areas including (but not limited to): (i) Design, fabrication and characterisation of 2D spin devices (including GMR devices), heterostructures of 2D materials and perovskites; (ii) Design, fabrication and characterisation of CMOS-compatible photodetectors; (iii) Fabrication and characterisation of RRAMS, non-linear selector devices for RRAMS, and one-time programmable memories; (iv) 2D material-based MEMS sensors, and new strategies for design of MEMS-based structures that incorporate negative capacitance; (v) Design and characterisation of GaN-based mmwave devices and circuits; (vi) Fabrication and characterization of Perovskite solar cells.

The following equipment/facilities are housed in CMFF:

1. Fumehoods [2 numbers]:
   - one, for sample cleaning and wet-etch processes
   - second, for processes during lithography/patterning: such as, spinning photoresists, development of resists after exposure, and lift-off.
2. De-ionised water plant [1 number]: 60-liter-capacity, capable of producing Type II (at least 5 MΩ-cm resistivity) & Type I (at least 18.2 MΩ-cm resistivity)

3. Thin-film deposition system [1 number]: RF/DC/Pulsed DC Sputtering System: VHV capability with chamber pressure < 5×10^-8 torr

4. Spin-coater [1 number]: mainly, for spinning photoresist on samples.

5. Mask Aligner [1 number]: mainly, for performing multilevel photolithography on top and bottom side of substrates, with minimum feature of sub-micron size.

With these facilities, in addition to different characterisation facilities available at the Central Instrumentation Facility (CIF) at IIT Palakkad, we will be able to fabricate and characterise simple electronic and MEMS devices, and various kinds of sensors. Broadly, research is proposed in areas including (but not limited to): design, fabrication and characterisation of 2D spin devices (including GMR devices), heterostructures of 2D materials, multi-functional optically-sensitive devices using perovskites, and resistive-switching memories.
6.3.3 HIGH PERFORMANCE COMPUTING CLUSTER (HPC)

The Chandra High performance computing cluster (HPC) provides a powerful computing platform for research in engineering and physical sciences. This system has been operational since June 2017. The HPC consists of 64 computer nodes, each with a dual 12-core Intel processor. Each core runs at 2.2 GHz and has 4 GB of RAM per core. The HPC is one of the first systems in India to use a 100 Gbps high-speed Omni Path interconnect from Intel. The system provides about 50 TFlops of computing power. Chandra also accesses 100 TB of disk space setup as a parallel file system running Lustre from Intel. The HPC is used by faculty, research staff and students at IIT Palakkad to investigate complex research problems in science and engineering. Some of the problems currently being studied are:

1. Understanding and designing materials with novel physical properties by performing atomistic quantum mechanical simulation.
2. Design of nanoscale transistors for next generation electronic applications.
3. Design of novel bio-molecules with applications in medicine.
4. Design of large structures such as bridges and buildings.
5. Performing computational fluid dynamic simulations: Understanding the process of heat transfer in complex systems such as engines.
6. Solving non-equilibrium dynamics in quantum Hamiltonians

Advanced Architecture Lab (Dr. Vivek and Dr. Sandeep): AAL aims to facilitate research on modern computer architectures. The exploration of novel micro-architectural features and system design should take into account the needs of a wide variety of applications, and leverage the state-of-the-art manufacturing technologies to meet its objectives of: (i) performance, (ii) energy efficiency, and (iii) security. Three facilities are crucial to enable such exploration:

1. Facility for Data Acquisition and Workload Characterization: The exploration of the most beneficial micro-architectural features and overall design of the system for a particular application (or a set of target applications) is driven by careful examination of the application’s characteristics and computational patterns. The applications under consideration could potentially be an IoT solution deployed over a large population, a memcache database system equipped with automatic load balancing and failover options, or a performance-critical web services such as Google Mail or Hangouts. The requirements of each of these applications could be very different from the other. Gaining insights into the characteristics of such applications often requires elaborate setup that replicates common modes of operation of these applications, and instrumenting it at appropriate points in time of its execution. This facility is targeted at developing expertise and generating meaningful data that subsequent stages of design can use.

2. Facility for Simulation and Design-Space Exploration (DSE): Once the characteristics and requirements of an application is well understood, and a broad design of the system is ready, it is then important to determine the exact configurations and sizes of internal components such as internal tables and data stores, FIFOs, and buffers. This is primarily done using simulations. A set of parameters are varied in a candidate solution to sweep the parameter space to identify the optimal set of parameters. Several factors such as the choice of the simulator and its level of abstraction, its speed of simulation and accuracy, post-processing scripts that analyze the results and determine configurations of subsequent runs, determine the efficiency of such exploration. This facility will target these aspects of system design by developing and maintaining simulators for different levels of abstraction, and efficiently running different simulations to determine optimal configurations across different projects.

3. Facility for Implementation and Deployment: This facility is the most crucial aspect as it involves implementing the proposed solution on actual boards/devices, and demonstrating its benefits on target applications. AAL hosts state-of-the-art Xilinx UltraScale Zynq evaluation boards, Virtex-7 FPGA evaluation boards and other boards for rapid prototyping, IoT and embedded computing.
7. कैरियर विकास केंद्र

The institute has established a Career Development Centre (CDC) to cater to the training/internship and placement needs of the students. The centre is functional under a Professor In-Charge and the Training Placement Officer. These functionaries work in conjunction with the faculty and student coordinators from each engineering stream. The placement induction programme and training sessions were planned from the year 2017-18 for the first batch of final year B. Tech students.

7.1 इंडस्ट्री जॉब प्लेसमेंट

IIT Palakkad students experienced a successful placement season as numerous companies participated in recruitment. The pioneer batch of IIT Palakkad undergraduate students received interest from recruiters like Mathworks, HSBC, Paytm, Arista Networks, AVI Networks, May bank, TCS, Sorocco, Trimble, Fourkites, L&T Group, to name a few. A total of 62 companies participated across the sectors such as Research and Development, Information technology, Core Engineering, Analytics, Government, Consulting, etc. to fill their full-time requirements. The participating companies made a total of 64 offers.

Key highlights:

- Highest Domestic CTC offered was INR 16.75 Lakhs per annum by Arista Networks (Bangalore)
- 2 PSUs participated in the campus placement in the academic year 2018-19 (ITI Limited & TRAI)
- ITI Limited, Bangalore has made the maximum number of offers (12 Offers)

Key figures:

- 44.3% of offers were in IT
- 21.3% in Core Engineering
- 18% in Government
- 6.6% in Banking
- 9.8% in others
IIT Palakkad has concluded its internship process for the academic year 2018-19. A total of 42 companies participated across the sectors such as Research and Development, Information technology, Core Engineering, Analytics, Government, Consulting, etc. to fill their internship requirements. The participating companies made a total of 132 offers, in comparison to last year when the offers were 73 through Career Development Centre (CDC). The Internship season saw participation from major recruiters like Daimler, AVI Networks, GE, TCS, MathWorks, Timken, UST Global, Ordnance Factory Medak, FCRI, KMRL, BEML, Rupeek Fintech, Lakshmi Machine Works Limited to name a few.

**Key highlights:**
- 97% of students belonging to Third year (Batch 2016) have received Industry internships.
- AVI Networks, Bangalore has offered the highest stipend of 35,000 pm for 3 students.
- FCRI, UST Global and KMRL have made the maximum number of offers.
- 41 Students of 2017 (Second year) batch have received Industry Internships.
- 3 Students have received academic internships from Nanyang Technological University (NTU) - Singapore.

### Academic Highlights:

- **39%** of students have received academic internships.
- **14%** of students have received Industry internships.
- **32%** of students have received Industry internships.
- **15%** of students have received Industry internships.

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*Proportion of students receiving internships from various sectors.*

- **Core Engineering**
- **IT**
- **Research**
- **Others (Education, Academics)**

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**7.2 इंटरनशिप**

आई.आई.टी. पालक्काड ने अपने शैक्षणिक वर्ष 2018 - 19 के इंटरनशिप की प्रक्रिया पूर्ण की। विभिन्न क्षेत्रों के 42 कंपनियों ने भाग लिया जैसे अंतरिक्ष, विकास, सूचना प्रौद्योगिकी, कॉर इंजीनियरिंग, एनालिटिक्स, सरकारी, कंसल्टिंग आदि कंपनियों ने पिछले वर्ष के 73 की तुलना में इस वर्ष 132 उम्मीदवारों का चयन किया। बायोसींथेटिक विकास केंद्र (सी.डी. छात्र) द्वारा इंटरनशिप स्तर में कई प्रमुख कंपनियों जैसे डाइम्प्लेर, AVI नेटवर्क्स, GE, TCS, मैथ्वर्क्स ने भाग लिया। टीपीसी, यू.एस.टी. ग्लोबल, आर्डिनेस फैक्ट्री मेडक, एंफ. सी. आर. आई. , के. एम. आर. आई. , बी. इ. .एम. एल., रूपरेखा पिनटेक,लक्ष्मी मशीन वर्स लिमिटेड आदि शामिल हैं।

**प्रमुख तथ्य:**
- तृतीय वर्ष 2018 बाद के 17% छात्रों को इंडस्ट्रील इंटरनशिप दिया।
- AVI नेटवर्क्स बंगलारू ने तीन छात्रों को अत्यधिक खेतन (स्टापेरेड) 35,000 मासिक प्राप्त किया।
- एंफ. सी. आर. आई. , यू.एस.टी. ग्लोबल एवं KMRL ने अत्यधिक संख्या में चयन किया।
- द्वितीय वर्ष के 41 छात्रों ने इंडस्ट्री इंटरनशिप वर्ष 2019 में प्राप्त किया।
- तीन छात्रों ने नानायंग टेक्नोलॉजिजल युनिवर्सिटी (NTU सिनापुर) से वाणिज्य इंटरनशिप प्राप्त किया।
7.3 INTERNATIONAL RELATIONS

IIT Palakkad has signed a Study Abroad Agreement with Auckland University of Technology (AUT), Auckland, New Zealand, on 8th May 2018. This agreement will enable 8th semester B.Tech. students of IIT Palakkad to study one semester at AUT, and use the credits earned there for their graduation in IIT Palakkad.

IIT Palakkad has secured research funding from Temasek Laboratories@NTU Singapore (Ministry of Defence, Singapore) to support 2 M.S. (Research) students. As a part of this agreement, Temasek Laboratories@NTU will host two M.S. (Research) students from IIT Palakkad for a period of one year with full financial support. The joint project between IIT Palakkad and TL@NTU aims to develop an emotion recognition system using brain signals (EEG) and other physiological signals and test the efficacy of the system for defence related applications.

7.3 अंतरराष्ट्रीय संबंध

आई.आई.टी. पालककड़ के ओकलैंड यूनिवर्सिटी न्यूजीलैंड के साथ 8 मई 2018 में एक समझौता के तहत वी. टेक अंतरिम वर्ष के छात्रों को एक सेमेस्टर यूरोप से पढ़ने के लिए अनुमोदित किया गया है। वहाँ के अर्जित क्रेडिट को आयोग आयोग स्थानीय प्रमाण पत्र में जोड़ा जाएगा।

आई.आई.टी. पालककड़ ने टेमसेक लैबरेट्रीज़ @ NTU Singapore (रक्षा मंत्रालय, सिंगापुर) से रिसर्च फंडिंग हासिल की है 2 M.S. (सोच) छात्रों को सहायता के लिए। इस समझौते के एक शाखा रूप में, में टेमसेक लैबरेट्रीज़ @ NTU दो आई.आई.टी. पालककड़ के M.S (अनुसंधान) छात्रों को पूर्ण वित्तीय सहायता के साथ एक वर्ष की अवधि के लिए मेजबानी करेगा। आई.आई.टी. पालककड़ और टीएल @ एनटीयू के बीच संयुक्त परियोजना का उद्देश्य मलिक (संकेतों (ईईजी)) और अन्य शारीरिक संकेतों का उपयोग करके एक भावना मान्यता प्रणाली विकसित करना है और रक्षा संबंधी अनुप्रयोगों के लिए प्रणाली की प्रभावशक्ति का परीक्षण करना है।
A total of 17 Sponsored Project Grants and 7 Consultancy Projects have been secured by IIT Palakkad with a total amount of Rs 3.95 Crores as on March 2019. This includes funding received from DST-Nanomission, DST-INSPIRE, SERB-Ramanujan Fellowship, SERB-CRG, SERB-EMEQ, SERB-ECRA, SERB-MATRICS, Xoken Labs Pvt Ltd., Vigilance and Forest Intelligence Dept., Palakkad Municipality, Furnace Fabrica India Pvt. Ltd., CPWD, UVJ Technologies Pvt Ltd., Durafloor Concrete Solutions LLP, Ernad Engineering Enterprises and PWD- Kerala Government.

**SPONSORED RESEARCH**

In the space of Sponsored Research, the following projects have been undertaken and the total amount is Rs. 3,74,44,885/-.  

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Project</th>
<th>Funding Agency</th>
<th>Principal Investigator</th>
<th>Total Budget</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Non-equilibrium quantum dynamics and decoherence (Transferred Project)</td>
<td>Department of Science and Technology (DST) INSPIRE Grant</td>
<td>Dr. Uma Divakaran</td>
<td>Rs. 15,05,208</td>
<td>2013-2019</td>
</tr>
<tr>
<td>2</td>
<td>Graphene and other 2D materials base spintronics and topological insulators (Transferred Project)</td>
<td>Department of Science and Technology (DST) INSPIRE Grant</td>
<td>Dr. Jayakumar Balakrishnan</td>
<td>Rs. 10,31,488</td>
<td>2014-2019</td>
</tr>
<tr>
<td>3</td>
<td>Improving water availability in hilly rain shadow regions through conservation measures (Transferred Project)</td>
<td>Department of Science and Technology (DST) INSPIRE Grant</td>
<td>Dr. Athira P.</td>
<td>Rs. 9,21,431</td>
<td>2015-2020</td>
</tr>
<tr>
<td>4</td>
<td>On positive solutions for classes of nonlinear elliptic boundary value problems (Transferred Project)</td>
<td>Department of Science and Technology (DST) INSPIRE Grant</td>
<td>Dr. Lakshmi Sankar K.</td>
<td>Rs. 16,91,680</td>
<td>2016-2021</td>
</tr>
<tr>
<td>5</td>
<td>Discovery, single crystal synthesis and investigation of anisotropic physical properties of novel spin-orbit materials</td>
<td>Department of Science and Technology (DST) INSPIRE Grant</td>
<td>Dr. Soham Manni</td>
<td>Rs. 35,00,000</td>
<td>2018-2023</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Title of the Project</td>
<td>Funding Agency</td>
<td>Principal Investigator</td>
<td>Total Budget</td>
<td>Duration</td>
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<tr>
<td>6</td>
<td>A Compressed Sensing based Framework for Physical Layer Security in Large Dimensional Wireless Communication Systems</td>
<td>Department of Science and Technology (DST) INSPIRE Grant</td>
<td>Dr. Lakshmi Narasimhan Theagarajan</td>
<td>Rs. 35,00,000</td>
<td>2018-2023</td>
</tr>
<tr>
<td>7</td>
<td>Design of heterogeneous catalysts to improve the selectivity of high-temperature, gas-phase reactions</td>
<td>Science and Engineering Research Board (SERB) - Ramanujan Fellowship</td>
<td>Dr. Dinesh Jagadeesan</td>
<td>Rs. 13,65,654</td>
<td>2013-2019</td>
</tr>
<tr>
<td>8</td>
<td>A novel class of functionally controlled macromolecules with tunable properties for material and biomedical applications</td>
<td>Science and Engineering Research Board (SERB) - Ramanujan Fellowship</td>
<td>Dr. Mintu Porel</td>
<td>Rs. 38,00,000</td>
<td>2018-2023</td>
</tr>
<tr>
<td>9</td>
<td>On the role of proton transfer on triggering disulfide bond reductions in biological systems- a computational approach (Transferred Project)</td>
<td>Science and Engineering Research Board (SERB) - Startup Research Grant</td>
<td>Dr. Padmesh Anjukandi</td>
<td>Rs. 11,01,613</td>
<td>2016-2019</td>
</tr>
<tr>
<td>10</td>
<td>Spin transport in 2D material (graphene)/ perovskites(LSMO) heterostructures (Transferred Project)</td>
<td>Department of Science and Technology (DST) Nanomission</td>
<td>Dr. Jayakumar Balakrishnan</td>
<td>Rs. 5,40,361</td>
<td>2016-2019</td>
</tr>
<tr>
<td>11</td>
<td>Performance evaluation of a cryogenic coolant through a modified tool holder in machining of Inconel 625 super alloy</td>
<td>Science and Engineering Research Board (SERB) - ECR Scheme</td>
<td>Dr. Dupadu Chakradhar</td>
<td>Rs. 14,83,160</td>
<td>2017-2020</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Title of the Project</td>
<td>Funding Agency</td>
<td>Principal Investigator</td>
<td>Total Budget</td>
<td>Duration</td>
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<tr>
<td>12</td>
<td>Xoken: Secure public distributed ledger</td>
<td>Xoken Labs Private Limited, Bangalore</td>
<td>Dr. Piyush P. Kurur</td>
<td>Rs. 36,00,000</td>
<td>2018-2021</td>
</tr>
<tr>
<td>13</td>
<td>Structural design of Crash Guard Fencing</td>
<td>Vigilance and Forest Intelligence, Thiruvananthapuram</td>
<td>Dr. Anil Kumar M. V. (PI) &amp; Dr. Madhu Karthik M. (Co-PI)</td>
<td>Rs. 84,960</td>
<td>2 months (August 2018 - October 2018)</td>
</tr>
<tr>
<td>14</td>
<td>Study of approximation theoretic properties of the space of compact operators on Banach spaces</td>
<td>Science and Engineering Research Board (SERB) - MATRICS Scheme</td>
<td>Dr. Jayanarayanan C. R.</td>
<td>Rs. 6,60,000</td>
<td>2018-2021</td>
</tr>
<tr>
<td>15</td>
<td>Energy positive microbial osmotico-electro desalination cell for wastewater treatment and high-quality water recovery</td>
<td>Science and Engineering Research Board (SERB)- EMEQ Scheme</td>
<td>Dr. Praveena Gangadharan</td>
<td>Rs. 39,94,500</td>
<td>2019-2022</td>
</tr>
<tr>
<td>16</td>
<td>Reversible Diradical Mediated Self-Assembly Formation of Discrete Organic Cages for the Construction of Stimuli- Responsive Supramolecular Functional Materials</td>
<td>Science and Engineering Research Board (SERB)- EMEQ Scheme</td>
<td>Dr. Shanmugaraju S.</td>
<td>Rs. 37,63,000</td>
<td>2019-2022</td>
</tr>
<tr>
<td>17</td>
<td>Investigation of a portable, affordable and self-guided bedside ultrasound system for tissue and blood velocity imaging</td>
<td>Science and Engineering Research Board (SERB)- Core Research Grant</td>
<td>Dr. Mahesh R. Panicker</td>
<td>Rs. 49,01,830</td>
<td>2019-2022</td>
</tr>
</tbody>
</table>

**Total Rs. 3,74,44,885**
**CONSULTANCY PROJECTS**

In the space of Consultancy Projects, the following projects have been undertaken and the total amount is Rs. 20,97,744/-.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Project</th>
<th>Funding Agency</th>
<th>Principal Investigator</th>
<th>Total Budget</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Vetting of Structural Design of Bus Terminal (AMRUT Urban Transport) for Palakkad Municipality</td>
<td>Palakkad Municipality</td>
<td>Dr. Anil Kumar M. V. (PI) &amp; Dr. Madhu Karthik M. (Co- PI)</td>
<td>Rs. 77,880</td>
<td>2 months</td>
</tr>
<tr>
<td>2</td>
<td>Review of lateral capacity of pile</td>
<td>Furnace Fabrica India Ltd.</td>
<td>Dr. Sudheesh T. K.</td>
<td>Rs. 28,320</td>
<td>2 weeks</td>
</tr>
<tr>
<td>3</td>
<td>Soil Investigation for Permanent Campus of IIT Palakkad</td>
<td>Central PWD</td>
<td>Dr. Sudheesh T. K. &amp; Dr. Divya P. V. (PI)</td>
<td>Rs. 5,25,336</td>
<td>1 month</td>
</tr>
<tr>
<td>4</td>
<td>Brainwave- based Driver Drowsiness Detection System</td>
<td>UVJ Technologies Pvt. Ltd.</td>
<td>Prof. Vinod A. Prasad</td>
<td>Rs. 12,00,000</td>
<td>18 months</td>
</tr>
<tr>
<td>5</td>
<td>Vetting of Design submitted by Durafloor Concrete Solutions for Fibre Reinforced Flooring</td>
<td>Durafloor Concrete Solutions LLP</td>
<td>Dr. Sunitha K. Nayar</td>
<td>Rs. 1,55,760</td>
<td>2 weeks</td>
</tr>
<tr>
<td>6</td>
<td>Vetting of Structural Design (Improved Design of Eranholi Bridge)</td>
<td>Ernad Engineering Enterprises</td>
<td>Dr. Anil Kumar M. V. (PI) &amp; Dr. Madhu Karthik M. (Co- PI)</td>
<td>Rs. 84,960</td>
<td>2 months</td>
</tr>
<tr>
<td>7</td>
<td>Review of Soil Report</td>
<td>Furnace Fabrica India Limited</td>
<td>Dr. Sudheesh T. K.</td>
<td>Rs. 25,488</td>
<td>2 weeks</td>
</tr>
<tr>
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<td><strong>Total Rs. 20,97,744</strong></td>
<td></td>
</tr>
</tbody>
</table>
RESEARCH COLLABORATIONS, STUDY ABROAD PROGRAMME & RESEARCH INTERNSHIP

- **Research Project Collaboration with Manipal Academy of Higher Education (Kasturba Medical College, Manipal):** IIT Palakkad signed an Agreement with Manipal Academy of Higher Education (Kasturba Medical College, Manipal) on 28 January 2019 for promoting institutional collaboration in education and research in Biomedical Engineering. The two institutes will work together towards promoting interaction and research collaboration among faculty members, research staff and students, internship attachment of IIT Palakkad students in KMC Manipal, exploration of research funding from external agencies for undertaking joint research projects and use of each other’s facilities and data for research purposes.

- **Research Collaboration with UST Global:** An agreement was signed on November 30, 2018 with UST Global, a leading digital transformation solutions company, for joint R&D in cutting-edge technologies such as AI/ML and Brain-Machine Interface, internship and job placement for the students. For the joint R&D, students will work at UST Global’s Infinity Labs for 3-6 months across its locations in India. It will not only help the undergraduate students to get exposure to the latest know-how in industry and practical training but also to enable technological innovations that answer real-world problems and address future needs of industry.

- **Study Abroad Programme with Auckland University of Technology (AUT), New Zealand:** A study abroad programme agreement was signed with Auckland University of Technology (AUT), New Zealand for a period of three years in which the purpose was to establish educational relations and cooperation between the two institutes in order to promote academic linkages. Under this Study Abroad Programme, 3 final year students (Harsh Yadav, Mayank Kumar Gupta and Shivang Shukla) were selected from IIT Palakkad and sent to AUT which enabled them to enrol in projects for credit points. These credit points would be jointly evaluated by AUT and IIT Palakkad to be applied towards their degree at IIT Palakkad. The students returned to IIT Palakkad in May 2019 after successful completion of their B. Tech Project.

- **Research Internship at Nanyang Technological University (NTU), Singapore:** IIT Palakkad has attached three of its students (Ananthakrishnan Bhagyarajan, Rohit Kumar and Naveen V.) with Nanyang Technological University (NTU), Singapore in an effort to deliver superior international research exposure. They have successfully completed their summer research internship during May – July 2019 in Nanyang Technological University (NTU), Singapore, with financial support.
अनुसंधान सहयोग, अध्ययन कार्यक्रम और अनुसंधान इंटर्नशिप

• मणिपाल अकादमी ऑफ हायर एजुकेशन (कस्टुरव्या मेडिकल कॉलेज, मणिपाल) के साथ अनुसंधान परियोजना सहकार्यता- आई.आई.टी. पालक्काड़ ने बायोमेडिकल इंजिनीयरिंग में शिक्षा और अनुसंधान में संस्थागत सहयोग को बढ़ावा देने के लिए 28 जनवरी 2019 को मणिपाल अकादमी ऑफ हायर एजुकेशन (कस्टुरव्या मेडिकल कॉलेज, मणिपाल) के साथ एक समझौते पर हस्ताक्षर किया। दोनों संस्थाओं संबंधी समस्याओं, शोध कर्मचारियों और छात्रों के बीच बातचीत और अनुसंधान सहयोग को बढ़ावा देने, केंद्रीय मणिपाल में आई.आई.टी. पालक्काड़ के छात्रों के इंटरनशिप लगाने, संयुक्त अनुसंधान परियोजनाओं और एक दूसरे की सुविधाओं के उपयोग के लिए बाहरी एजुसियों से अनुसंधान निपट की खोज के लिए मिलकर काम करेंगे। अनुसंधान उद्देश्यों के लिए डेटा।

• यूंसेटी ग्लोबल के साथ अनुसंधान सहयोग- छात्रों के लिए AI / ML और ब्रेन-मशीन इंटरफेस, इंटरनशिप और जॉब प्लेसमेंट जैसी अर्थातूपनिक तकनीकों में संयुक्त अनुसंधान एवं विकास के लिए UST Global के साथ, 30 नवंबर, 2018 को एक समझौते पर हस्ताक्षर किया गया। संयुक्त अनुसंधान एवं विकास के लिए, छात्र भारत में अपने स्थानों पर 3-6 महीनों के लिए यूंसेटी ग्लोबल के इन्फिनिटी लैब्स में काम करेंगे। वह न केवल सातवें छात्रों को उद्योग और व्यावसायिक प्रशिक्षण में नवीनतम हाल के संस्करण में लाने में मदद करेगा, बल्कि तकनीकी नवाचारों को भी स्क्रियता करेगा जो व्यावसायिक दुनिया की समस्याओं और उद्योग की भविष्य की जहतों का समाधान करेंगे।

• ऑक्लैंड यूनिवर्सिटी ऑफ टेक्नोलॉजी (AUT), न्यूजीलैंड के साथ अध्ययन विद्यालय कार्यक्रम- तीन वर्षों की अवधि के लिए ऑक्लैंड यूनिवर्सिटी ऑफ टेक्नोलॉजी (AUT), न्यूजीलैंड के साथ विद्यालय के एक कार्यक्रम के समझौते पर हस्ताक्षर किया गया था, जिसमें उद्देश्य शैक्षणिक संपर्क को बढ़ावा देने के लिए दो संस्थाओं के बीच शैक्षिक संबंध और सहयोग स्थापित करना। इस स्टडी प्लान के मद्देनजर, 3 अंतिम वर्ष के छात्रों (हर्वार्ड, मार्केट कुमार गुटा और शिवानंद शुक्ला) को आई.आई.टी. पालक्काड़ से चुना गया और उन्हें AUT में भेजा गया, जिससे उन्हें क्रेडिट पॉइंट्स के लिए परियोजनाओं में दाखिल रहने में सक्षम बनाया गया। इन क्रेडिट बिंदुओं को संयुक्त सूत्र से AUT और आई.आई.टी. द्वारा मूल्यांकन किया जाएगा जो आई.आई.टी. पालक्काड़ द्वारा भुगतान किया जाएगा जो आई.आई.टी. पालक्काड़ में उनकी डिग्री के लिए लागू किया जाएगा। छात्र अपने बी.टेक प्रोजेक्ट II के सफल समापन के बाद मई 2019 में आए.आई.टी. पालक्काड़ लौट आए।

• नानायांग टेक्नोलॉजिकल यूनिवर्सिटी (NTU), सिंगापुर में रिसर्च इंटरनशिप- आई.आई.टी. पालक्काड़ ने अपने तीन छात्रों (अनंतकुमार भाग्यराज, रोहित कुमार और नवीन जी.) को नानायांग टेक्नोलॉजिकल यूनिवर्सिटी (एनटीयू), सिंगापुर के साथ बेहतर अंतर्राष्ट्रीय अनुसंधान प्रदर्शन देने के प्रयास में संलग्न किया है। उन्होंने विशेष सहयोग से सिंगापुर के नानायांग टेक्नोलॉजिकल यूनिवर्सिटी (एनटीयू) में मई - जूलाई 2019 के दौरान अपने मूलभूत अनुसंधान इंटरनशिप को सफलतापूर्वक पूरा किया है।
CHEMISTRY

Prof. K. L. Sebastian
- Published a paper titled “Passage through a sub-diffusing geometrical bottleneck” in the Journal of Chemical Physics in 2019.

Dr. Dinesh Jagadeesan
- Published a paper titled “Efficient bifunctional reactivity of K-doped CrO(OH) nanosheets: Exploiting the combined role of Cr(III) and surface -OH groups in tandem catalysis” in Catalysis Science and Technology in 2019.

Dr. Mintu Porel

Dr. Shanmugaraju Sankarasekaran
- Published a paper titled “A Supramolecular Tröger’s base Derived Coordination Zinc Polymer for Fluorescent Sensing of Phenolic-Nitroaromatic Explosives in Water” in Chemical Sciences in 2017.
- Published a paper titled “One-pot Facile Synthesis of 4-Amino-1,8-naphthalimide Derived Tröger’s base Supramolecular Scaffolds via A Nucleophilic Displacement Approach” in Organic and Biomolecular Chemistry in 2017.
- Published a paper titled “Supramolecular Coordination Polymers Using A Close to ‘V-shaped’ Fluorescent 4-Amino-1,8-naphthalimide Tröger’s base Scaffold” in Chemical Communications in 2017.
- Published a paper titled “Synthesis, Structural Characterization and Antiproliferative Activity of a New Fluorescent 4-Amino-1,8-Naphthalimide Tröger’s base-Ru(II)-Curcumin Organometallic Conjugate” in Chemical Communications in 2018.
- Published a paper titled “Glycosylated Naphthalimides and Naphthalimide Tröger’s bases as Fluorescent Aggregation Probes for Con A” in Organic and Biomolecular Chemistry, in 2019.

CIVIL ENGINEERING

Dr. Athira P.
- Published a paper titled “Impact of calibration objective function on the performance of the hydrological model” in ASCE-World Environmental and Water Resources Congress in 2019
- Published a paper titled “A computationally efficient method for uncertainty analysis of SWAT model simulations” in Stochastic Environmental Research and Risk Assessment in 2018
Dr. Divya P. V.
- Published a paper titled “Behaviour of Geosynthetic Encased Crushed Concrete Debris Columns” in Geosynthetics 2019.

Dr. Anil Kumar M. V.

Dr. Madhu Karthik M.
- Published a paper titled “Nondestructive Evaluation of Stay Cable Specimens for Non-Strand Defects” in Transportation Research Board, in 2018
- Published a paper titled “Systematic Assessment of Non-Destructive Evaluation Techniques for External Post tensioning and Stay Cable Systems” in Transportation Research Board, in 2018.
- Published a paper titled “Non-Destructive Evaluation of Nonstrand Defects in Stay Cable Specimens” in Transportation Research Record: Journal of the Transportation Research Board, in 2018.
- Published a paper titled “Experimental Behavior of Large Reinforced Concrete Specimen with Heavy ASR and DEF Deterioration” in ASCE Journal of Structural Engineering, in 2018.

Dr. B. K. Bhavathrathan
- Published a paper titled “Commodity flow estimation for a metropolitan scale freight modeling system: supplier selection considering distribution channel using an error component logit mixture model” in Transportation in 2019.
- Published a paper titled “An algorithm to compute urban road network resilience” in Transportation Research Record: Journal of the Transportation Research Board, in 2018.

Dr. Sanjukta Chakraborty
- Published a paper titled “Seismic response control of a structure isolated by flat sliding bearing and nonlinear restoring spring: Experimental study for performance evaluation” in Engineering Structures, in 2018.

Dr. Sarmistha Singh
- Published a paper titled “Powerful Nonparametric Modelling and Prediction for Cluster Correlated Climate and Hydrologic Data” in Water Resources Research, in 2018.
- Published a paper titled “Simulated Effects of Irrigation Pumpage Scenarios on Groundwater Levels”
- Published a paper titled “Organic Geochemical Dynamics of Aggregate Breakdown Induced by Raindrops” in Geoderma, in 2018.

**COMPUTER SCIENCE AND ENGINEERING**

**Dr. Deepak Rajendraprasad**
- Published a paper titled “Edge-intersection graphs of boundary-generated paths in a grid” in Discrete Applied Mathematics, in 2018
- Published a paper titled “Separation dimension and sparsity” in Journal of Graph Theory, in 2018.

**Dr. Jasine Babu**
- Published a paper titled “On Graphs with Minimal Eternal Vertex Cover Number” on Springer Lecture Notes in Computer Science, Proceedings of CALDAM 2019, in 2019.
- Published a paper titled “Sublinear approximation algorithms for boxicity and related problems” in Discrete Applied Mathematics, in 2018.

**Dr. Mrinal Kanti Das**
- Published journal in Biology Direct, titled Efficient differentially private learning improves drug sensitivity prediction in 2018.

**Dr. Sahely Bhadra**
- Published a Book Chapter titled “Analysis of Fluxomic Experiments with Principal Metabolic Flux Mode Analysis” in Springer Book: Data Mining for Systems Biology, in 2018.

**Dr. Albert Sunny**
- Published a Journal in Elsevier Performance Evaluation, a paper titled "Reduced-Complexity Delay-Efficient Throughput-Optimal Scheduling with Heterogeneously Delayed Network-State Information” in the year 2018.
- Published a Journal in IEEE Communications Letters, titled "Forwarding in Heterogeneous Mobile Opportunistic Networks" in the year 2018.

**Dr. Krithika Ramaswamy**


Published a paper titled “An FPT Algorithm for Contraction to Cactus” in Computing and Combinatorics (COCOON), in 2018.

Published a paper titled “Approximability of Clique Transversal in Perfect Graphs” in Algorithmica in 2018.

Published a paper titled “Dynamic Parameterized Problems” in Algorithmica, in 2018.


Dr. Vivek Chaturvedi


Dr. Sandeep Chandran

Published a paper in Post-silicon Validation and Debug (eds. Prabhat Mishra, Farimah Farahmandi), Springer, titled Book Chapter: Debug Data Reduction Techniques in 2018.

ELECTRICAL ENGINEERING

Prof. Vinod A Prasad


Dr. Arun Rahul S.
- Published a paper titled “17-level inverter with low component count for open-end induction motor drives” in IET Power Electronics, in 2019.

Dr. Arvind Ajoy
- Published a paper titled “Effective bandstructures from unfolding supercells with vacancies” in Physica B: Condensed Matter, in 2018.

Dr. Lakshmi Narasimhan T.
- Published a paper titled “Online Linear Compression with Side Information for Distributed Detection of High Dimensional Signals” in IEEE SPAWC, in 2019.
- Published a paper titled “Online Linear Compression with Side Information for Distributed Detection of High Dimensional Signals” in IEEE VTC-Spring, in 2019.
- Published a paper titled “Sketching Discrete Valued Sparse Matrices” in IEEE GlobalSIP, in 2018.
- Published a paper titled “MAP-index Coded Media-based Modulation” in IEEE Communications Letters, in 2018

Dr. Swaroop Sahoo
- Published in the Proceedings of IiWE 2018, titled “Solid state x-band Doppler radar network for rain rate estimation” in 2018.

Dr. Mahesh R. Panicker

Dr. Jobin Francis
HUMANITIES AND SOCIAL SCIENCES

Dr. G. Sujatha
• Published a paper titled “Is it Family or Politics? Some Reflections on Spatial Tensions and Gender Constitution in Modern Tamil Subjectivity” in Studies in Indian Politics, Sage, 6 (2), 267-281, 2018

Dr. Reenu Punnoose
• Published a paper titled “Problematising Hindi as the ‘Self’ and English as the ‘Other’ in India” in Economic & Political Weekly 53,7, 2018.

Dr. Amrita Roy
• Published a paper titled “The double trap: Institutions and economic development” in Economic Modelling, 76 (C), 243, 2019.

MATHEMATICS

Dr. Ashok Kumar M.
• Published a paper titled “Composite Tests Under Corrupted Data” in Entropy, in 2019.

Dr. Sarath Sasi
• Published a paper titled “On the strict monotonicity of the first eigenvalue of the p-Laplacian on annuli” in Transactions of the American Mathematical Society, in 2018.

Dr. Lakshmi Sankar K.
• Published a paper titled “Infinite semipositone problems with nonlinear boundary conditions” in Electronic Journal of Differential Equations, in 2018.
• Published a paper titled “An existence result for superlinear semipositone p-Laplacian systems on the exterior of a ball” in Differential Integral Equations, in 2018.

Dr. G. P. Balakumar
• Published a paper titled “Remarks on the higher dimensional Suita conjecture” in Proc. Amer. Math. Soc., in 2019.

Dr. Jayanarayanan C. R.
• Published a paper “titled Ideal Operators and Relative Godun Sets” in Extracta Math., in 2019.
Dr. Krishna Sesha Giri

- Published a paper titled “Development of a high-pressure hot corrosion burner rig for testing structural materials following long exposures to Arabian Extra Light crude oil combustion products” in ASME TurboExpo, in 2019.

Dr. Kanmani S. Subbu

- Published a paper titled “Electric Discharge Texturing of HSS Cutting Tool and its Performance in Dry Machining of Aerospace Alloy” in Journal of the Brazilian Society of Mechanical Sciences and Engineering, in 2019.
- Published a paper titled “Mechanical and Microstructural Characterization on Direct Metal Laser Sintered Inconel 718” in International Journal of Additive and Subtractive Materials Manufacturing, in 2018.
- Published a paper titled “Analysis of Grain size Evolution of Sintered Al-4wt.%B4C to Hot Compression” in Metallography, Microstructure, and Analysis, in 2018.

Dr. D. Chakradhar

- Published a paper titled “Comparative evaluations of machining performance during turning of 17-4 PH stainless steel under cryogenic and wet machining conditions” in Machining Science and Technology, in 2018.
- Published a paper titled “Experimental evaluation of diamond burnishing for sustainable manufacturing” in Materials Research Express, in 2018.
- Published a paper titled “Experimental investigation and optimization of machining parameters for sustainable machining” in Materials and Manufacturing Processes, in 2018.
- Published a paper titled “Sustainable diamond burnishing of 17-4 PH stainless steel for enhanced surface integrity and product performance by using a novel modified tool” in Materials Research Express, in 2019.
- Published a paper titled “The Effectiveness of a Novel Cryogenic Cooling Approach on Turning Performance Characteristics During Machining of 17-4 PH Stainless Steel Material” in Silicon, in 2019.
• Published a paper titled “Modeling and optimization of sustainable manufacturing process in machining of 17-4 PH stainless steel” in Measurement, in 2019.

• Published a paper titled “Performance improvement of cryogenic turning process during machining of 17-4 PH stainless steel using multi objective optimization techniques” in Measurement, in 2019.

Dr. Samarjeet Chanda

• Published a paper titled “Non-intrusive measurement of thermal contact conductance at polymer - metal two dimensional annular interface” in Heat and Mass Transfer- Springer, in 2018.

Dr. Ganesh Natarajan
• Published a paper titled “Diffuse interface immersed boundary method for low Mach number flows with heat transfer in enclosures” in Physics of Fluids, in 2019.


• Published a paper titled “A parametric study on the droplet detachment process from the ceiling under the effect of gravity” in Engineering Computations, in 2019.

• Published a paper titled “Numerical appraisal of three low Mach number algorithms for radiative-convective flows in enclosures” in Computers and Mathematics with Applications, in 2019.

• Published a paper titled “The non-Boussinesq algorithm for high temperature gradient thermobuoyant flows with magnetic field” in Computational Thermal Sciences, in 2019.


• Published a paper titled “A cost-effective curvature calculation approach for interfacial flows on unstructured meshes” in International Journal of Numerical Methods in Fluids, in 2018.

• Published a paper titled “A generic algorithm for three-dimensional multi-phase flows on unstructured meshes” in International Journal of Multiphase Flow, in 2018.

• Published a paper titled “Design and performance of a three-dimensional micromixer with curved ribs” in Chemical Engineering Research and Design, in 2018.


• Published a paper titled “Towards an improved conservative approach for simulating electrohydrodynamic two-phase flows using volume-of-fluid” in Journal of Computational Physics, in 2018.

• Published a paper titled “A parametric study of dispersed laminar gas-particle flows through vertical and horizontal channels” in Advanced Powder Technology, in 2018.

• Published a paper titled “Effects of specularity and particle-particle restitution coefficients on the hydrodynamic behavior of dispersed gas-particle flows through horizontal channels” in Advanced Powder Technology, in 2018.


• Published a paper titled “Numerical investigation of mixing enhancement for multi-species flows in wavy channels” in Chemical Engineering and Processing: Process Intensification, in 2018.

• Published a paper titled “The influence of partitions on predicting heat transfer due to the combined effects of convection and thermal radiation in cubical enclosures” in International Journal of Heat and Mass Transfer, in 2018.

• Published a paper titled “Numerical assessment of mixing performances in cross-T microchannel with
• Published a paper titled “Curved ribs” in Microsystem Technologies, in 2018.
• Published a paper titled “A sharp interface immersed boundary framework for simulations of high speed inviscid compressible flows” in International Journal of Numerical Methods in Fluids, in 2018.
• Published a paper titled “Diffuse interface immersed boundary method for multi-fluid flows with arbitrarily moving rigid bodies” in Journal of Computational Physics, in 2018.

Dr. Sovan Lal Das
• Published a paper titled “Transition from curvature sensing to generation in a vesicle driven by protein binding strength and membrane tension” in Soft Matter, in 2019.

Dr. Santhakumar Mohan
• Published a paper titled “Behavioral Fault Tolerant Control of an Omni Directional Mobile Robot with Four Mecanum Wheels” in Defence Science Journal, in 2019.
• Published a paper titled “Conceptual design of a hybrid propulsion underwater robotic vehicle with different propulsion systems for ocean observations” in Ocean Engineering, in 2019.
• Published a paper titled “Disturbance observer-assisted hybrid control for autonomous manipulation in a robotic backhoe” in Archive of Mechanical Engineering, in 2019.
• Published a paper titled “Design and Robust Motion Control of a Planar 1P-2PRP Hybrid Manipulator for Lower Limb Rehabilitation Applications” in Journal of Intelligent & Robotic Systems, in 2019.

PHYSICS

Prof. P. B. Sunil Kumar
• Published a paper titled “Emergent topological phenomena in active polymeric fluids” in Soft Matter, in 2019.
• Published a paper titled “Transition from curvature sensing to generation in a vesicle driven by protein binding strength and membrane tension” in Soft Matter, in 2019.
• Published a paper titled “Lipid-protein interaction induced domains: Kinetics and conformational changes in multicomponent vesicles” in The Journal of Chemical Physics, in 2018.
• Published a paper titled “Kosmotropic effect leads to LCST decrease in thermoresponsive polymer solutions” in The Journal of Chemical Physics, in 2018.

Dr. Prithvi Narayan P.
• Published a paper titled “Classification of out-of-time-order correlators” in SciPost Physics, in 2019.
• Published a paper titled “Chord diagrams, exact correlators in spin glasses and black hole bulk reconstruction” in Journal of High Energy Physics, in 2018.
• Published a paper titled “On exponentially suppressed corrections to BMPV black hole entropy” in Journal of High Energy Physics, in 2018.

Dr. Jayakumar Balakrishnan
• Published a paper titled “Graphene Oxide Based P-N Junctions” in Materials Today: Proceedings, in 2019.
• Published a paper titled “A Low-Cost Non-explosive Synthesis of Graphene Oxide for Scalable Applications” in Scientific Reports, in 2018.

Dr. Uma Divakaran
• Published a paper titled “Sudden quenches in a quasiperiodic Ising model” in Physical Review E, in 2018.

Dr. Soham Manni
• Published a paper titled “An inverse Rulliesden-Popper nitride Ca7(Li1-xFex)Te2N2 grown from Ca flux” in Philosophical Magazine Letters, in 2018.
• Published a paper titled “Probing magnetism in 2D van der Waals crystalline insulators via electron” in Science, in 2018.
• Published a paper titled “Effect of pressure on the physical properties of the superconductor NiBi3” in Journal of Physics: Condensed Matter, in 2018.
• Published a paper titled “Spin dynamics and field-induced magnetic phase transition in the honeycomb Kitaev magnet \( \text{PrIr}_3\text{B}_2 \)” in Physical Review B, in 2019.

CONFERENCES AND WORKSHOPS

CIVIL ENGINEERING

Dr. Athira P.
• Participated in Climate Proofing of Watershed Development Projects, Integrated Rural Technology Centre, Mundur, Palakkad.
• Published a paper titled “Uncertainty in the SWAT model simulations due to different spatial resolution of gridded precipitation data” in International SWAT Conference, Chennai in 2019.

Dr. Divya P. V.
• Participated as a Speaker in the Technical Session on “Women in Geotechnical Engineering”, Indian Geotechnical Conference 2018, IISC Bangalore, December 2018.
• Participated as an Expert Panel Member in the Workshop on “Natural Hazard Mitigation with Geosynthetics”, Indian Chapter of International Geosynthetics Society, January 2019.
• Participated as a Committee member in the “First workshop on the revision of the existing curriculum
and syllabus of M.Tech Geotechnical Engineering” under the Kerala Technological University (APJ KTU), March, 2019.

- Attended Symposium on “Landslide: Analysis, Mitigation and Case Studies”, Cochin University of Science and Technology (CUSAT), Kochi, December 2018.
- Participated as a Panel Member in the Brainstorming session on “Industrial By-Products for Sustainable Development”, Indian Institute of Technology Bombay, August 2018.
- Participated as a Panel Member in the “Workshop on Subsurface Investigations and Remediation of Contaminated Sites”, Indian Institute of Technology Delhi, July 2018.
- Published a paper titled “Influence of biochar on geotechnical properties of clayey soil: From the perspective of landfill caps and bioengineered slopes” in Indian Geotechnical Conference 2018

Dr. Madhu Karthik M.
- Published a paper titled “Simulating Pile Cap Behaviour Using Compatibility Strut-And-Tie Method” in 11th Structural Engineers Conference 2018.

Dr. B. K. Bhavathrathan
- Presented a paper and Chaired a session at the 15th World Conference on Transport Research 26-31 May 2019, Mumbai, India
- Presented a paper at the 4th World Congress on Disaster Management 29 Jan - 1 Feb 2019, Mumbai, India

Dr. Sudheesh T. K.
- Delivered a keynote Speech at the Structural Engineering and Construction Management Conference-SECON 2019, 15-19 May, 2019, FISAT, Angamaly
- Chaired a session at the International Conference IC MESIT 2019, 2-3 May, 2019, IES College of Engineering, Thrissur.
- Delivered a keynote Speech at the Faculty Development Programme on Design of Sustainable Infrastructure, 2-4 July,2019, Thejus Engineering College, Thrissur.
- Published a paper titled Numerical Analysis of HYbrid Back-to-Back MSE Wall with Select and Marginal Backfill in 7th Indian Young Geotechnical Engineers Conference, in 2019.

Dr. Sanjukta Chakraborty
- Published a paper titled “Study of spill over phenomena for frequency dependent feedback control algorithm” in the Proceedings of 13th International Conference on Vibration Problems, in 2018.
- Published a paper titled “Comparative Assessment of Linear Quadratic Algorithm between Real and Independent Modal Space” in proceedings of the 7th World Conference on Structural Control and Monitoring, 7WCSCM, in 2018.

Dr. Sarmistha Singh
**Visiting faculty**

**Dr. Sunitha K. Nayar**
- Published a paper in the Proceedings of the 3rd R.N. Raikar Memorial International Conference and Gettu-Kodur International Symposium on Advances in Science and Technology of Concrete, titled “Assessment of a Methodology for Formulation of Robust Self-Compacting Concrete Mixes” in 2018.
- Participated in the 3rd R. N. Raikar Memorial International Conference & ‘Gettu - Kodur’ International Symposium, Mumbai, India, Dec 2018

**COMPUTER SCIENCE AND ENGINEERING**

**Dr. Jasine Babu**
- Participated in the Conference on Algorithms and Discrete Mathematics - CALDAM 2019, held at IIT Kharagpur.
- Resource person for ACM India Summer School on Graph Theory and Graph Algorithms, July 2019, held at NIT Calicut.

**Dr. Mrinal Kanti Das**
- Published journal in IEEE International Conference on Big Knowledge (ICBK), titled Weight-Agnostic Hierarchical Stick-Breaking Process in 2018.

**Dr. Sahely Bhadra**
- Attended and presented work at IEEE International Conference on Data Mining 2018 [17-20 November Singapore].
- Attended and organizes (as co-chair) Young Research Symposium of CodsCOMAD 2019 [3-5 Jan 2019]
- Published a paper titled “Sparse Non-Linear CCA through Hilbert-Schmidt Independence Criterion” in IEEE International Conference on Data Mining (ICDM’18), in 2018.
- Published a paper titled “Limits of Learning in Incomplete Networks” in International School and Conference of Network Science (NetSci), in 2018.

**Dr. Chandrashekar Lakshminarayanan**
- Visited Colorado State University as part of a collaborative research project titled “Deep Learning for Rainfall Prediction using GPM mission data”

**Dr. Krithika Ramaswamy**
- Recent Trends in Algorithms, National Institute of Science Education and Research, Bhubaneswar (February 7-10, 2019).
- Published a paper titled “Vertex Deletion on Split Graphs: Beyond 4-Hitting Set” in International Conference on Algorithms and Complexity (CIAC), in 2019.
- Published a paper titled “Quadratic Vertex Kernel for Split Vertex Deletion” in International Conference on Algorithms and Complexity (CIAC), in 2019.

**Dr. Vivek Chaturvedi**
- Attended ARM Tech Symposia India, November 2018
- Invited Speaker to International Conference
Dr. Sandeep Chandran
- Published a paper titled “DHOOM: Reusing Design-for-Debug Hardware for Online Monitoring” in ACM/IEEE Design Automation Conference (DAC’19) (Accepted), in 2019.

ELECTRICAL ENGINEERING

Prof. Vinod A. Prasad

Dr. Arun Rahul
- Published a paper titled “Hybrid Space Vector Modulation Scheme for Dual Inverter Fed Open End Winding Induction Motor Drive for Improved Harmonic Distortion” in 8th IEEE India International conference on Power Electronics (IICPE- 2018), in 2018

Dr. Arvind Ajoy
- Published a paper titled “A Surface-Potential Model for n-Polar GaN/AlN/AlGaN MIS-HEMTs“ in 4th IEEE International Conference on Emerging Electronics, Bangalore, in 2018

Dr. Lakshmi Narasimhan T.
- Published a paper titled “Artificial Neural Network based Automatic Modulation Classification over a Software Defined Radio Testbed” in IEEE International Conference on Communications, Kansas, in 2018.
- Published a paper titled “Online Design of Precoders for High Dimensional Signal Detection in Wireless Sensor Networks” in FUSION - International Conference on Information Fusion, Cambridge UK, in 2018

HUMANITIES AND SOCIAL SCIENCES

Dr. Anoop George
- Self and the world: A Hermeneutic critique of the Disengaged Self, national conference on “Hermeneutical Turn in Thinking” organised by the Department of Philosophy, Sree Sankaracharya University, Kalady, Kerala, on 19th and 20th March 2019.
- Ontology of the modern self and the modern other; A Heideggerian exposition, International Seminar on Self and the Other, in the Department of Philosophy, University of Calicut, Kerala on 6th to 8th March 2019.
- Workshop on Introduction to Phenomenology and Existentialis” on 15th November 2018 in GITAM School of Gandhian Studies, GITAM University, Visakhapatnam on the occasion of World Philosophy Day.
Dr. Reenu Punnoose

MATHEMATICS

Dr. Ashok Kumar M.
- Resource person for the DST INSPIRE Science programme conducted for the plus one students at Government Arts College, Ooty held on 26 November 2018.
- Gave a talk on the title ‘A unified Approach to Problems on Guessing, Source Coding and Encoding of Tasks’ at the National Conference on Mathematics and its Applications in Technology on 29, 30 - March 2019 held at Srinivasa Ramanujam Center, SASTRA University, Kumbakonam.

Dr. Sarath Sasi
- Resource person at Faculty Development Programme On Numerical Linear Algebra and Partial Differential Equation 05, 06 & 07 December 2018.
- Invited talk at National Seminar on ‘Topology and Analysis’, Department of Mathematics, University of Calicut, 8th and 9th May 2019.
- Talk at the workshop KSoM - Talent Nurture Programme at Kerala School of Mathematics, May 13, 2019

Dr. Lakshmi Sankar K.
- Gave talk on ‘Laplace’s Equation’ at the Faculty Development Programme on Numerical Linear Algebra and Partial Differential Equations, Ahalia Engineering College, 7th December 2018.
- Gave talk on ‘Eigenvalue Problems’, at the workshop on Differential Equations, Cochin University of Science and Technology, 9th March 2019.

Dr. G. P. Balakumar
- Delivered six lectures on ‘Conformal Mappings and Normal Families’ for the workshop on ‘Complex Analysis and Complex Dynamics’ held at IIT-Tirupati during December 2018.
- Gave a talk titled ‘Introduction to Several Complex Variables’, at Victoria College Palakkad on 23rd March 2019.
- Delivered six lectures on Schwarz lemma, Riemann Mapping theorem and the Monodromy theorem at the Instructional School for Teachers at Bhaskaracharya Pratishthana Pune, during May 2019

Dr. Jayanarayanan C. R.
- Resource person for Refresher Course in Mathematics & Statistics for College/University teachers from 19.07.2018 to 08.08.2018 at HRDC, Calicut University campus organized by the UGC-Human Resource Development Centre (HRDC), University of Calicut.
- External expert for CSIR JRF to SRF up-gradation of a PhD scholar of Cochin University of Science and Technology, Cochin on April 12, 2019.
• Published a paper titled “Free Standing Graphene Oxide Film for Hydrogen Peroxide Sensing” in AIP Conference Proceedings, in 2018.

MECHANICAL ENGINEERING

Dr. K. V. N. Surendra
• Published a paper titled “Finite Element Stress Analysis of simplified 2-D model of Automobile Wheel” in NAFEMS India Regional Conference on Engineering Modelling, Analysis, Simulation and 3D-Printing, in 2018.

Dr. Kanmani S. Subbu
• Published a paper titled “Finite Element Analysis of Thermal Based Material Removal Rate modeling of EDM on Metal Matrix Composite” in AIMTDR 2018: 7th International & 28th All India Manufacturing Technology, Design and Research Conference 2018, College of Engineering Guindy, Chennai, India, in 2018.

Dr. Samarjeet Chanda

Dr. Santhakumar Mohan
• Published in Proceedings of the Joint 12th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles 1st IFAC Workshop on Robot Control, (Joint CAMS and WROCO 2019), titled Implementation of a robust motion control scheme for an Ostraciiform inspired underwater robot with caudal and pectoral fins in 2019.

PHYSICS

Dr. Jayakumar Balakrishnan
• Published a paper titled “Free Standing Graphene Oxide Film for Hydrogen Peroxide Sensing” in AIP Conference Proceedings, in 2018.
The Indian Institute of Technology Palakkad (IIT Palakkad) established as an autonomous institute of national importance in 2015 by the Government of India is one of the third generation IITs of the country.

IIT Palakkad conducts the undergraduate academic programme of B. Tech and research programs leading to M.S. and Ph.D in various disciplines. M. Tech programmes would commence in chosen disciplines in the upcoming Academic year.

Presently the programs are conducted one half in the temporary campus of Ahalia International Foundation and the other half in the transit facilities at the permanent campus site at Pudussery which is about 7km from Palakkad in the Palakkad-Coimbatore highway. The scenically charming sprawling permanent campus is now being developed into an excellent and modern technological campus. As of now, the Institute is proud of fast growth in terms of the very qualified and committed faculty and staff, well equipped laboratories, excellent computing infrastructure, well stacked library and a brilliant student community.

10. आधारभूत संरचना  
INFRASTRUCTURE

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Samgatha - The Academic Block at Transit Campus
Manogatha: The Laboratory Complex at Transit Campus
11. छात्रवास की सुविधाएं और छात्रकल्याण
HOSTEL FACILITIES AND STUDENT WELLNESS

छात्रवास सुविधाएं
आई.आई.टी. पालक्काड़ के पास अस्थायी परिसर में 3 छात्रवास हैं जिनमें बी.टी. छात्रों और शौचालय विद्युत के रूप में की व्यवस्था है।
3 छात्रवास के सभी कमरे वाशरूम सेल्फ हैं। एक सार्वजनिक भोजनालय सभी छात्रों को भोजन प्रदान करती है। भोजनालय के इमारत के दोनों मंजिलों में एक एक डेस्क वित्त सेट है और यानि में डीटीएच केन्द्र भी है। सभी छात्रवास को हैवी-जुंटी बांधिया मंडल और आर.ओ. पहुँचावर के पानी के डिस्प्ले स्थान प्रदान किये गए हैं।

छात्र कल्याण
रैंगिंग-विरोधी उपाय
रैंगिंग के लिए स्वयं सहस्त्रीता ही संस्था का आदर्श वात् है। इस उद्देश्य प्राप्ति के लिए, दस्तावेजों और तदार्शों द्वारा छात्रों और उनके माता-पिता को रैंगिंग के अवधारणा अनुसार पक्ष पर संकल्पना बनाया जाता है। रैंगिंग से जुड़े मुद्दों पर नजर रखने के लिए एक संचित त्रयारी की स्थापना की गयी है, गलती करने पर छात्रों को कहे दंड का प्रावधान है, संस्था रैंगिंग विरोधी नियमों को पूर्ण रूप में लागू करने के लिए कार्यान्वयन है।

परामर्श सेवाएं
सामाजिक / भवानामक मुद्दों का सामना करते समय छात्रों को आवश्यकतानुसार एक पेशेवर परामर्श सेवा प्रदान की जाती है। एक स्थायी परामर्श की सेवाएं हर समय में हैं। इनके अतिरिक्त हर साल एक NIMHANS प्रतिवर्षीय स्लेटकार दौरान देश की तारीख पर आई.आई.टी. पालक्काड़ में कार्यान्वयन है। एक विशेष छात्र कल्याण केंद्र भी कार्यान्वयन है। इसके अलावा, वैंकटरेल स्थित ‘यूरो-दोलर’ नामक कंपनी का ऑफिस प्रामाण्य विभाग से समान रूप में लागू करने के लिए कार्यान्वयन है।

जीवन कौशल कक्षाएं
छात्रों को तनाव से निपटने, संचार कौशल में सुधार और विरोधाभासी उद्देश्यों का प्रबंधन करने के लिए जीवन कौशल में एक कोर्स दिया जाता है। विशेषज्ञों द्वारा आयोजित यह कोर्स छात्रों को नए दौरों को खोजने और नए बंधन को विकसित करने के लिए मंच प्रदान करता है।

HOSTEL FACILITIES
IIT Palakkad has 3 hostels in its temporary campus in which B. Tech students and Research Scholars are accommodated. All rooms in the 3 hostels have attached washrooms. Similarly, there are three hostels in the Transit Campus. A common mess serves food to all the students in Temporary and Transit campuses. The mess building is provided with one Television set each in both the floors with DTH connection. All hostels are provided with heavy duty washing machines and water dispensers with R.O. Purifiers.

STUDENT WELLNESS
Anti-ragging measures
The motto of the Institute is zero tolerance to ragging. To achieve this, documents and posters intended to sensitize the students and their parents on the highly immoral side of ragging, have been prepared. A structured mechanism has been put into place to monitor ragging related issues and mete out the most stringent punishment to the wrong doers and enforce the anti-ragging regulations in letter and spirit.

Counselling services
A professional counselling service has been set up in order to ensure that the students receive help when they face social/emotional issues that require a professional support. Services of a resident counsellor are available to students all the time. Additionally, a NIMHANS trained counsellor visits IIT Palakkad every week from Friday afternoon to Saturday. An exclusive student wellness centre is functional. Apart from this, online counselling services of the Bangalore based company “YourDost” is also made available to students.

Life skill classes
Students are given a course in life skills to cope with stress, improve communication skills and manage conflicting objectives. This course, conducted by experts, provides the students with a platform to
Boys hostels in the transit campus

Health Care
The students are covered by a comprehensive medical insurance scheme for a nominal yearly subscription. IIT Palakkad has MOUs with Athani Hospital, Malabar Hospital, Ahalia Diabetes Hospital, and Thangam Hospital for cashless medical attention. Students can also visit Hospitals of Ahalia foundation for treatment as outpatients.

Sports facilities
IIT Palakkad is continuously improving the support for sports & games. Excellent facilities exist already for football, volleyball, basketball, table tennis and cricket. Badminton facility has been improved by providing continued access to “4GB Badminton Academy” in Palakkad on a weekly basis. A professional coach train students in table tennis and physical fitness as well as weight lifting. In addition to the above, modern fitness equipment is available in the Institute Gymnasium.
During the bygone year, several activities were undertaken for outreach and some of the programmes are mentioned hereunder:

**INSTITUTE DAY**

The third Institute Day was celebrated on the 18th of January, 2019 at the Transit campus of IIT Palakkad. The Chief Guest for the day was Shri. S. M. Vijayanand IAS (Former Chief Secretary, Kerala) who delivered an engaging talk to the students, faculty and staff. Students presented cultural programmes for the gathering following which they were invited for graduation dinner at the Transit campus. The award winners were also invited for this special dinner.
Research Scholars’ Day 2018 was celebrated on the 6th of October, 2018 where Prof Sunil Kumar, Director of IIT Palakkad inaugurated the programme followed by a lecture on “Why Research? - Ph.D: Unravelling the Journey” by Prof Sarith Kumar Das, Director of IIT Ropar. The day long event included Technical sessions which were organised as 11 Seminars on research problems of current interest and 25 posters which were presented by both faculty members and research scholars in honor of the proceedings of the day.

As part of the science outreach programme at IIT Palakkad, various initiatives were organized for high school and higher secondary school students. On the occasion of National Science Day, 50 high school students are invited every year for a one day workshop where faculty from the science and engineering disciplines of IIT Palakkad engage with the students in scientific endeavours. Moreover, in line with the National policy to enhance the participation of girls in science and engineering, IIT Palakkad organized a DST sponsored 3-weeks residential workshop “Vigyan Jyoti” for 30 higher secondary girl students in 2018 where eminent educationist/scientists/engineers from within the country and outside interacted with the students. The institute plans to continue these programmes in the coming years to motivate young talents to pursue their passion.
The winning TCTD team

C-Square Summer Program, June-August 2018: IIT Palakkad organized its first C-Square Summer Innovation Program for the students of batch 2017 and batch 2016. The programme aimed at having teams of students tackle interesting problem statements relevant to the institute. As for last year’s programme, the team working on converting waste paper into Papier-mâché was awarded the best project work for that year. The C-Square is an annual programme and a new chapter is underway each summer at IIT Palakkad.

Inter IIT Tech Meet 2018: Students of the institute participated in the 7th Inter IIT Tech Meet conducted at IIT Bombay from December 18 to 20, 2018. It was a proud moment for the entire institute when our team of students bagged the first prize in the TCTD Challenge against competing teams from other IITs. The TCTD Challenge targeted the problems around the central theme “Farm tools that reduce drudgery and provide intelligent automation” and developed technology driven solutions/prototypes for the same. The winning team had presented a novel cost-effective modular approach to irrigation for large scale crop fields.

Smart India Hackathon (SIH), 2019: The Smart India Hackathon (SIH), 2019 is an annual event wherein student teams from across undergraduate colleges take on modern need-of-the-hour challenges faced by various Government Sectors and other private sector organizations. Out of the numerous teams that enrolled this year, one team of IIT Palakkad students qualified in the first round of the Hardware oriented section of SIH 2019. The team was working on an industry personnel problem statement wherein they were to come up with effective methods to control a pair of unmanned drones that are to be synchronized throughout their movements, maintaining fixed relative distance.
INTER IIT STUDENTS
SPORTS MEET - 2018

The Inter-IIT Sports Meet is the sports tournament hosted annually by one of the seven older IITs during the month of December and participants from across institutions compete in multiple events to make their mark. The 53rd edition of Inter-IIT Sports Meet was held at IIT Guwahati in December 2018 and witnessed more than 3500 athletes from 23 IITs participating in 13 different sports. IIT Palakkad’s contingent comprised of 43 sports-enthusiasts participating in Athletics, Cricket, Badminton, Football and Table Tennis. IIT Palakkad won its first ever medal in sporting events, this time. Ishita Jayesh Lalan, Maria Rose Joseph and Salma Shepheek bagged the bronze medal in badminton making IIT Palakkad proud.
The 25th Inter IIT Staff sports meet was held at IIT Guwahati from December 22 to December 28, 2018. A 15 member staff contingent from IIT Palakkad joined the meet marking debut participation. The team participated in three group events namely Cricket, Badminton and Volleyball; and eight individual events in athletics showcasing presence of IIT Palakkad in a total of 11 events.
Athletics 1500M: Mr. Rohith M, JA

Team IIT lineup for march past
Institute started hosting a series of lectures which is referred to as Institute Colloquia in the year of 2018. These lectures are given by eminent Scientists/Engineers/Social Scientists who have made a mark in their area of expertise.

**INSTITUTE COLLOQUIA**

1. 4th April 2018, Hawking’s genius, Colloquium by Prof. L. Sriramkumar, Department of Physics, IIT Madras
2. 26th September 2018, ECG Sudarshan’s Life and Work - An Appreciation, Institute Colloquium by Prof. N. Mukunda, Rtd Professor, IISc, Banglore.
3. 9th January 2019, Indian Space Programme: Opportunities and Challenges for Technologists & Entrepreneurs, Institute Colloquium by Dr. Mylswamy Annadurai, Former Director, ISRO Satellite Center.
4. 6th February 2019, Cosmic Dawn: When the first stars and galaxies were born, Institute Colloquium Prof. Ravi Subrahmanyan, Director, Raman Research Institute, Bangalore.
5. 27th March 2019, Creativity in Science, Institute Colloquium by Prof. Sundar Sarukkai, Professor of Philosophy, National Institute of Advanced Studies, Banglore.

**LECTURES**

1. 1st May 2018, Prof. P. B. Sunil Kumar, Director, IIT Palakkad delivered a lecture on Physics in Biology as part of the Vigyan Jyoti Programme.
2. 2nd May 2018, Prof. M. S. Mathews, delivered a lecture on ‘Introduction to Civil Engineering and its Career Prospects’ as part of the Vigyan Jyoti Programme.
3. 3rd May 2018, Prof. Job Kurian, delivered a lecture on ‘Glimpses of Mechanical Engineering’ as part of the Vigyan Jyoti Programme.
4. 4th May 2018, Dr. Piyush P. Kurur, delivered a lecture on ‘Cryptography: The not so secret science of secrets’ as part of the Vigyan Jyoti Programme.
5. 8th May 2018, Prof. Vinod A Prasad, delivered a lecture on Brain Machine Interface - Translating Thoughts to Machine Commands.
6. 8th May 2018, Dr. Krithika Narayanaswamy, delivered a lecture on Mechanical Engineering: an exciting journey on bicycles.
7. 10th May 2018, Dr. Arvind Ajoy, delivered a lecture on What does an Electrical Engineer do? as part of the Vigyan Jyoti Programme.
8. 11th May 2018, Prof. K. L. Sebastian, delivered a lecture on The Strange and Beautiful World of Quantum Mechanics as part of the Vigyan Jyoti Programme.
9. 14th May 2018, Nuclear energy and nuclear reactors’ by Prof. K. V. Govindan Kutty As part of the Vigyan Jyoti Programme.
10. 16th May 2018, Mechanical Engineering: Design, make and manage by Prof. T. K. Krishna Kumar, IIT Palakkad.
11. 5th September 2018, “Protein Folding Problem: From a Chemical Physics Point of View” by Dr. Debarathi Chatterjee.
12. 19th September 2018, Predictions in Ungauged Basins: An approach for regionalization of hydrological models by Dr. Athira. P.
13. 10th October 2018, DASH-aware Scheduling In Cellular Networks by Dr. Albert Sunny.
15. 28th November 2018, Machinability studies of difficult to cut materials under sustainable cooling environments by Dupadu Chakradhar.
16. 20th December 2018, Controlling epitaxial growth of transition metal dichalcogenides using gas-source CVD by Dr. Tanushree H Choudhury, Penn State University.
18. 27th February 2019, Catalysis for Sustainability by Dr. Dinesh Jagadeesan.
19. 23rd March 2019, Antennas for Modern Wireless and Remote Sensing Applications by Dr. Suresh Raju, Dr. Chinmoy Saha, Dr. Sukomal Dey, Dr. Krishna K Kishore, Dr. Ashik Paul, Dr. Jawad Y Siddiqui, Dr. Swaroop Sahoo.

EXTERNAL LECTURES

1. 9th April 2018, Technology Challenges and the Mechanical Engineer by Prof. V Radhakrishnan, Former Professor and Head of Mechanical Engineering, IIT Madras and a Member of our Institute Senate.
2. 10th April 2018, Multimedia Security and Forensics by Prof. Sabu Emmanuel, (Dr. Emmanuel is on the editorial board of the Elsevier, Journal of Information Security and Applications. He had served as a Guest Editor for the IEEE Multimedia)
3. 18th April 2018, Stability and solvation thermodynamics of proteins in mixed co-solvents by Dr. Pritam Ganguly
4. 19th April 2018, Reactivity of Alkynes with Iron Carbonyl and Iron Chalcogenide Clusters by Dr. Radhe Shyam Ji
5. 29th April 2018, Carbon membranes for separating mixtures: What can theory reveal? by Dr. R. S. Swathi from IISER Trivandrum
6. 30th April 2018, Crystallography Photography at the Atomic Level by Dr. Ruchi Anand from IIT Bombay.
7. 30th April 2018, Women in Physics and Mathematics by Prof. Rohini Godbole, (Prof. Rohini Godbole from Centre for High Energy Physics, IISc Bangalore).
8. 1st May 2018, Stable matching problem and applications by Dr. Meghana Nasre from the Department of Computer Science and Engineering, IIT Madras.
9. 2nd May 2018, For the healthy her by Dr. Shimna Azeez, Government Medical College, Manjeri.
10. 3rd May 2018, The World of Numbers by Prof. Sujatha Ramdorai from Mathematics Department, University of British Columbia, Canada.
11. 4th May 2018, Machine Learning by Dr. Lavanya Tekumalla, Machine learning scientist from Amazon, Bangalore.
12. 7th May 2018, Understanding Biological phenomena using X-ray crystallography by Dr. Saikrishnan Kayarat from IISER Pune.
13. 7th May 2018, Pushing and Pulling by Protein Filaments by Dr. Gayathri Pananghat from IISER Pune.
14. 9th May 2018, Presentation of Self in Everyday Life by Mr. Devendranath Sankaranarayan.
15. 9th May 2018, The ‘I’ in the Movies: Film, Body and Gender by Ms. Sheeba K.
16. 9th May 2018, The Classical Dance : An Appreciation by Dr. Haripriya Namboodiri
17. 10th May 2018, It’s a small world: a view from the bottom by Dr. Chandni U from Indian Institute of Science, Bangalore.
18. 11th May 2018, Environmental Pollution and Control by Prof. Ligy Philip from Department of Civil
19. 11th May 2018, Environmental Pollution and Control by Prof. Ligy Philip from Department of Civil Engineering, IIT Madras.
20. 14th May 2018, What is “doing” mathematics and science? by Prof. R. Ramanujam from The Institute of Mathematical Sciences, Chennai.
21. 15th May 2018, Let there be light! by Prof. Shanti Bhattacharya, Department of Electrical Engineering, IIT Madras.
22. 15th May 2018, What is Special about Earth? by Dr. Dileep Mampallil, Department of Physics, IISER Tirupati.
23. 16th May 2018, Online Safety awareness session by a team from Bodhini, Kochi. Bodhini is a movement against child abuse and violence against women.
24. 17th May 2018, Mathematical Puzzles as an aid to introduce mathematical concepts by Prof. B. Sury from Indian Statistical Institute Bangalore.
25. 17th May 2018, The real line by Prof. Krishna Kumar Vellat, Kerala School of Mathematics.
27. 12th July 2018, Protein Post-translational Modifications (PTMs): Small Changes, Big Impact by Dr. Sushabhan Sadhukhan
28. 19th July 2018, Effective Teaching at the UG Level by Prof V Radhakrishnan
29. 23rd July 2018, Learning and cognition in radar applications by Dr Kumar Vijay Mishra, NASA
30. 29 August 2018, Ultrafast Photophysics of Hybrid Lead Halide Perovskites Using Sub-10 Femtosecond Pump-Probe Spectroscopy by Dr. Tufan Ghosh
32. 25th October 2018, Friendly Fundas by Srinivas Narayanan, Director Engg, Applied AI and Machine Learning, Facebook
33. 31st October 2018, A Review of the Idea of Caste in India by Dr. Santhosh Abraham, info
34. 9th November 2018, Building blocks for communication over quantum networks by Dr. Naqueeb Warsi.
35. 14th November 2018, Renyi Entropy and Relative alpha-Entropy by Dr. Ashok Kumar M(info)
36. 15th November 2018, Friend Fundas by Dr. Ramesh Gopinath, Vice President, IBM Blockchain Solutions.
37. 20th November 2018, Incessant Photoluminescence from Semiconductor Nanocrystals: Challenges and Prospects by Prof. Vasudevan P. Biju.
38. 26th November 2018, Crystalline Arrays of Nanoparticles for Controlling Flow of Light by Prof. B. V. R. Tata.
39. 12th January 2019, Workshop on Artificial Intelligence- A Force Multiplier by Mr. Suchithran Padikkal & Mr.Hrishikesh Sherlekar.
40. 17th January 2019, Remote Sensing in the Era of Climate Change by Prof. V Chandrasekar, University Distinguished Professor at Colorado State University.
41. 20th March 2019, Data and its discontents - Political economy of disinformation by Paranjoy Guha Thakurta, Indian journalist, political commentator, author and a documentary film-maker.
## SPIC MACAY

On the 8th of August 2018, SPIC MACAY, IIT Palakkad Chapter presented Hindustani Flute Lecture Demonstration by Pandit Ronu Majumdar. A Kathakali-Orientation Programme was conducted by Prof. Kalamandalam Balasubramanian & Dr. Haripriya Nambudiri on 9th August 2018. A Kathakali-Duryodhana Vadham performance was made by Prof. K. P. Naveena Chandran on 1st November 2018.

## FLOOD RELIEF

An event that markedly stands out is the devastating floods that the state of Kerala had to overcome last year. At the face of such peril, students specially the NSS and other volunteers came forward to help the ones in need. They cherished the moments when they were able to contribute to the cause of rehabilitation of the unfortunate victims of nature’s fury.

## TECHNO-CULTURAL FEST

IIT Palakkad added a new chapter in its journey by curating its First ever techno-cultural fest ‘Petrichor’. Petrichor included 5 technical, 6 cultural, and 8 literary events along with a cultural night by our students, and a band show. It engaged and showcased the multifaceted talents of students both in the fields of extra and co-curricular activities. The students were able to manage an event of this scale with ease and poise, although they were doing it for the very first time.

## CLUB ACTIVITIES

The past year also saw the active contribution of clubs such as the Data Analysis Club, Robotics club and Electronics club in the technical domain and Akshar the literary club, ShutterBug the photography club, Sync to Beat the dance club, Vaadya the music club, Bioscope the film and media club, and Curtain Call the drama club in the cultural domain. This brought in interesting channels to engage student’s
On the 20th of March 2019, Students of Madhya Pradesh organised Ek Bharat Shreshtha Bharat (EBSB) programme on Manipur and Nagaland along with a special tour on Madhya Pradesh.

On 17th February 2019, IIT Palakkad along with NCBS organised a bird count event. The event was part of The Great Backyard Bird Count (GBBC) and provided avenues to introduce students to birding. The programme included in its fold, experts, who explained about the types of commonly/uncommonly sighted birds. This event helped create an interest in birds and acknowledge the imminent danger of extinction they face today.

पक्षी गणना कार्यक्रम

17 फरवरी 2019 को, आई.आई.टी. पालक्काड ने NCBS के साथ एक पक्षी गणना कार्यक्रम का आयोजन किया। 'द ग्रेट बैकयायर्ड बर्ड काउंट' (GBBC) कार्यक्रम के तहत छात्रों ने भाग लिया व पक्षियों के महत्त्व को समझा। इस कार्यक्रम में शामिल विशेषज्ञों ने सामान्य / असामान्य रूप से देखे जाने वाले पक्षियों के प्रकारों के बारे में बताया। इस कार्यक्रम से छात्रों में पक्षियों के प्रति जागरूकता विकसित हुई व पक्षी प्रजातियों के निर्मल के खंडों की जानकारी भी मिली।
SPORTACUS 2019

IIT Palakkad organised Intra College Sports Meet from March 16 to 17, 2019. Much like the previous year, students formed Franchises that chose players for each sport in an Auction. The four franchises, namely Thunderhawks, Spartans, Phoenix and Dementors, put forth an impressive battle for two days and at the end of which Team Phoenix rose to grab the title of winner of the season.

Students race to make a mark in the athletics meet

Women Throwball team aceing towards victory

Women athletics meet

Auctioning of team in progress
IIT Palakkad Forum for Women named Kadambini commenced at the institute during the year. The forum is named after Kadambini Ganguly (1861 – 1923), who was one of the first women graduates from India and was a practicing physician, actively involved in women emancipation movements. The forum envisages bringing about positive impact and development in the social, academic and working environment of the women community of our institute and the society at large by organizing events and providing venues for discussions and interactions.

The first public event that the Women’s forum of the Institute organized was a talk by Dr. A. K. Jayasree on 20th March, 2019. The topic of the talk was “Women’s movements and diverse perspectives” followed by an interactive session. Dr. A K Jayasree is a specialist in community medicine and a professor at Pariyaram Medical College, Kannur, Kerala. In social circles of Kerala, she is better known as a gender activist, actively involved in sensitization about issues faced by Women and LGBT communities. Kadambini launched a poster design competition for students on the theme “A Woman whom I admire”. All chosen posters are displayed on 20th March, 2019 and the top three posters were awarded prizes during the event.

Dr. A. K. Jayasree giving away prizes to the poster competition winners
16. समारोह

CELEBRATIONS

अंतर्राष्ट्रीय योग दिवस
21 जून 2018 को अंतर्राष्ट्रीय योग दिवस मनाया गया और योगा
विशेष अनुष्ठान सुरेश प्रियंवदा पालई के नेतृत्व में योग आसनों का एक
सामूहिक प्रदर्शन किया गया।

INTERNATIONAL YOGA DAY
On 21st June 2018 International Yoga Day was
celebrated and a mass performance of yogasanas
were led by the yoga expert, Ms. Priyambada Palai.

गांधी जयंती
गांधी जयंती 2018 के उपलक्ष में तीन दिवस के कार्यक्रम का
उद्घाटन, आई.आई.टी. पालक्काड के निदेशक द्वारा किया गया।
स्वच्छता प्रतिष्ठा और अन्य कार्यक्रम छात्र कल्यान द्वारा आयोजित
kिए गए थे। इसके साथ साथ छात्रावास में एक स्वच्छता अभियान
का आयोजन किया गया। दो अनुप्रेरणाय द्वारा 3 अक्टूबर 2018
cे दिन ‘छात्र साहित्यिक कल्याण’ परिचालन का आयोजन किया गया,
जिसका शीर्षक ‘मार्वेल्स ऑफ टेक्नोलॉजी: विचित्र हूँ गांधी’ था।
भूतपूर्व आई.ए. एस अधिकारी श्री के. जयकुमार जी ने 4 अक्टूबर
2018 को ‘गांधी जयंती’ पर अपने विचार व्यक्त किये। श्री के.
जयकुमार एक प्रतिष्ठित वरिष्ठ आईएसएस अधिकारी रहे जिन्होंने
अपने कार्यकाल में केंद्र सरकार में विभिन्न प्रारंभिक पदों पर कार्य
cिया। 2008 में उनकी उपकूल सेवाओं के लिए उन्हें के पीईएस
मेनन मेमोरियल अवार्ड सम्मानित किया गया। वर्ष 2012 में श्री
जयकुमार मुख्य सचिव (केंद्र सरकार) के पद से सेवा निवृत्त हुए,
उपरांत उन्होंने मलयालम यूनिवर्सिटी के सर्वप्रथम कुलपति के पद
cो सुधारित किया। वह एक बहुआयामी व्यक्ति के धर्म, वह एक
लोकप्रिय मलयालम कवि, गीतकार, अनुवादक और पटकथा लेखक
भी हैं।

GANDHI JAYANTHI
A three-day programme was conducted as part of
Gandhi Jayanthi, 2018. On the 2nd of October 2018
the programme was inaugurated by the Director, IIT
Palakkad. Swachcha Pledge and other Programmes
were organised by the student clubs. Along with this,
a Cleanliness Campaign was conducted by students
in the Hostel areas. On the 3rd of October 2018,
a talk was conducted by Dr. Anoop George on the
topic, “Marvels of Technology: Thinking through
Gandhi” followed by the programme of Students
Literary Club. On 4th October 2018, Gandhi Jayanthi
Oration was delivered by Shri. K. Jayakumar, IAS
(Formerly, Chief Secretary to the Govt of Kerala and
Vice-Chancellor of the Malayalam University). Shri
K. Jayakumar is a reputed senior IAS officer who
held various administrative positions in the Kerala
government. In 2008, he was selected for the first
K. P. S. Menon Memorial Award in recognition of
his distinguished service as a bureaucrat. Shri Jayakumar retired as the Chief Secretary,
Government of Kerala in 2012. He later became
the founding Vice-Chancellor of the Malayalam
University, and worked in that capacity until recently.
A multi-faceted personality, he is also a popular
Malayalam poet, lyricist, translator and scriptwriter.
रन फॉर यूनिटी
31 अक्टूबर 2018 को, भारत के लौह पुष्प सरदार वल्लभभाई पटेल की 143 वीं जयंती आई आई.टी. पालक्काड में "रन फॉर यूनिटी" के साथ मनाई गई। शाम को 5.30 बजे शुरू होने वाले दौड़ में हिस्सा लेने के लिए लगभग 300 छात्र, कर्मचारी और संस्थागत एकत्र तैयार हुए। निदेशक, डॉ. पी. बी. सुनील कुमार ने झंडा लहराकर इस दौड़ की शुरुआत की। यह दौड़ 3.5 किलोमीटर की थी।

राष्ट्रीय विज्ञान दिवस
राष्ट्रीय विज्ञान दिवस को वर्ष के दौरान स्कूल आउटरीच कार्यक्रम के रूप में मनाया जाता था। 28 फरवरी 2019 को संस्थान के समीप स्थित माध्यमिक व उच्च माध्यमिक विद्यालय के छात्रों के लिए एक दिवसीय विज्ञान सिंगार का आयोजन किया गया। कोच्चि-पालक्काड में स्थित सरकारी विद्यालय के माध्यमिक एवं उच्च माध्यमिक कक्षा के 28 छात्रसमूह व मालमपुजा में स्थित नवोदय विद्यालय के 25 छात्रों ने इसमें भाग लिया। छात्रों को भौतिक विज्ञान, रसायन विज्ञान, इंजीनियरिंग और कंप्यूटर प्रोग्रामिंग विज्ञान का भाग बनाया गया। उनकी उपस्थिति में कई प्रयोग और प्रदर्शन किए गए। छात्रों ने कार्यक्रम में सक्रिय भाग लिया, और संकाय और कर्मचारियों के साथ विविध रूप से बातचीत की। उच्च बिंदु कंप्यूटर लैब में एक मस्तिष्क टीजर प्रशिक्षण वाले छात्रों की रूट प्रशिक्षण संबंधित ही था। इस कार्यक्रम में सराहनीय प्रदर्शन करने वाले छात्रों को विज्ञान की विशेषता प्रदर्शन किया गया।

RUN FOR UNITY
On the 31st of October 2018, the 143rd birth anniversary of the Iron Man of India, Sardar Vallabh bhai Patel was celebrated with a “Run for Unity” organized at IIT Palakkad. Almost 300 students, staff and faculty gathered to take part in the run which commenced at 5.30 pm. The Director, Prof. P. B. Sunil Kumar flagged off the run which had a race course of about 3.5 km.

NATIONAL SCIENCE DAY
The National Science Day was celebrated as a school outreach programme during the year. A one-day science camp was conducted on the 28th of February 2019 for the high school and higher secondary students of the schools in the neighbourhood of the Institute. A group of 28 students from Govt High School and Higher Secondary School, Kozhipara, and 25 students from the Navodaya Vidyalaya, Malampuzha, participated in the camp. The students were given a tour of the Physics, Chemistry, Engineering, and Computer laboratories. Many experiments and demonstrations were conducted in their presence. The students took active part in the programme, and interacted freely with the faculty and staff. The high point was a brain teaser quiz in the Computer lab which matched the interest of the youngsters. Meritorious performers in the event were awarded prizes in the form of science books.