INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD

भारतीय प्रौद्योगिकी संस्थान पालक्काड

"Journey so Far"
2015-17

HISTORY

The Indian Institutes of Technology (IITs) were established by the Government of India as Institute of National Importance through a Central Statute, the Institutes of Technology Act, 1961. The success of the five initially founded IITs at Kharagpur (1951), Bombay (1958), Madras (1959), Kanpur (1959) and Delhi (1961) led to the demand for establishment of more such institutions across our country. 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. Approximately 500 acres of land in Pudussery village of the Palakkad district, Kerala was identified as the site for the permanent campus on January 17, 2015. IIT Palakkad came into existence and is currently functioning from a temporary place in the premises of Ahalia integrated campus Kozhipara, Palakkad. 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. Lok Sabha passed a bill for the establishment of six new IITs on July 25, 2016. Prof. P.B. Sunil Kumar took charge as the First Director of IIT Palakkad on January 18, 2017.

INFRASTRUCTURE

The infrastructure required to start the B.Tech Program with the allotted student strength of 120 were established by July 2015. The facilities for the second year were in place by July 2016 and almost all facilities required for the third year are available. These include, an auditorium, multimedia enabled large and small classrooms, student laboratories, library and a canteen. The campus, including the hostels, is fully Wi-Fi enabled with mobility in Internet access. The first phase of construction at the main campus, which will accommodate the needs of two batches of students, is expected to be ready by December 2018.

Teaching Laboratories

Applied mechanics laboratory

The Applied Mechanics Laboratory houses state of the art experimental facilities in the broad areas of Strength of Materials and Fluid Mechanics.

Chemistry laboratory

The Chemistry Laboratory is a spacious and well-ventilated laboratory with all necessary safety features and is equipped with modern instruments and worktables.

Electronics laboratory

The Electronics Technology Lab provides an integrated environment for students to understand the working of analog and digital circuits, microprocessors and microcontrollers, and the interplay between computational tools and electronics hardware.

Physics laboratory

The physics laboratory has latest instruments and aims to reinforce the concepts students learn while simultaneously acquiring the skills and developing confidence to carryout experiments on their own.

Surveying laboratory

Surveying laboratory is equipped with an array of latest as well as traditional surveying instruments and offers training to student on a range of instruments and measurement techniques.

Central Facilities
Workshop

Workshop is an integral part of the curriculum and has four components: Electrical, Electronics, Instrumentation and Machining and students. In the machining part students are introduced to sheet metal work, moulding and foundry practices. A unique and modern transit machine shop with facilities such as Lathes, hydraulics machinery, drilling machinery, etc is set up in a adjacent to the main building.

Central library

The Central Library, IIT Palakkad provides information/knowledge resources through a carefully developed and balanced collection of books, magazines and newspapers. It is enabled with Wi-Fi and LAN facility. The library stacks about 2700 books including reference resources. The library has a collection of audio-visual materials such as CD-ROM, scientific kits, etc., in addition. The users are also registered with the National Digital Library sponsored by MHRD.

Computer laboratory

IIT Palakkad has a modern Computing Centre with high-speed internet-enabled systems.

Innovation laboratory

The Innovation Lab has an aim of being a student run hobby-laboratory that allows students to translate their ideas into prototypes and products. Such a facility holds immense potential in pushing forward the 'Make-in-India' initiative of

the Govt. of India. It has latest equipment such as 3D printer, CNC router, CNC milling machine and CNC lathe.

Students have been organizing themselves into clubs in order to take full benefit of the Innovation Lab: The 'Robotics Club' is the first such student-run club. It is envisaged that the facility can be made available to students in schools and colleges around IIT Palakkad, thereby acting as a force multiplier in the quest to encourage grass-roots innovation.
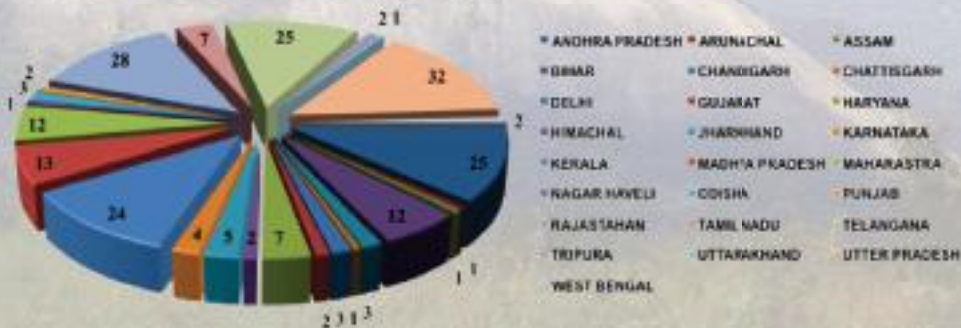
Sophisticated instruments facility

Apart from the teaching laboratories certain facilities at the student level have been created with the aim to introduce the students to sophisticated instruments at an early stage. As a part of this initiative, a Scanning Tunnelling Microscope is set in operation since December 2016.

ACADEMICS
General Information

IIT Palakkad offers B.Tech programme in four branches: Civil Engineering, Computer Science and Engineering, Electrical Engineering and Mechanical Engineering. The students come from different parts of the country, providing a truly cosmopolitan and multicultural environment.

Statewise student distribution

Curriculum and Courses

The curriculum is periodically updated and that is being followed currently is based on the 2014 curriculum of IIT Madras. The courses for the B.Tech pro-

gramme fall into five major categories: Humanities and social sciences, Basic sciences, Basic Engineering Theory / Skills and Professional Major & Minor Theory and Laboratory. The faculty strength at present is twenty four of which fourteen are young faculty while the rest are senior faculty from IIT Madras, DAE and other Government organizations. Visiting faculty from IIT Madras and guest faculty, who are senior retired faculty from reputed institutions, also handle courses. The strength of young faculty is to be augmented shortly.

Student Welfare

Merit-Cum-Means scholarships, Institute free studentships and Scholarships for SC/ST are avail-able to the students, as per the Government of India norms. These are in addition to the Vidya Lakshmi Educational Loan scheme, Tuition Fee exemptions for economically weaker sections.

For every group of ten to fifteen students a Faculty member of IIT Palakkad, called Faculty Advisor is assigned. Faculty Advisors provide guidance in various aspects, which aid students in setting meaningful objectives to realize their educational and professional goals.

A professional counseling service has been set in place to ensure that the students receive help when they face social/emotional issues that require professional approach.

IIT Palakkad has access to the good health and emergency care facilities available in the Ahalia integrated campus. Whenever a need arises, referrals are made to hospitals at Palakkad and Coimbatore. In addition, students are covered under a comprehensive medical insurance scheme for a nominal early subscription.

HOSTEL LIFE

IIT Palakkad is fully residential with separate hostels for girls and boys. The hostel buildings and the academic building are within a radius of three hundred meters. The hostels have a spacious dining hall and a well-equipped recreational area, an indoor games area and a fitness centre. The common space in the hostel is Wi-Fi enabled. Other amenities provided include a RO based drinking water system and heavy-duty washing machines in each floor.

STUDENT ACTIVITIES AND EVENTS

A variety of student-centric activities and events were organized. The primary goal of such activities was to stimulate and cultivate the intellectual, logical and scholastic potential of every student and increase the awareness of social responsibility.

Extramural Lectures, Seminars, Talks and Workshops

Extramural lectures aim to expose students to a variety of topics beyond their curriculum and also provide a platform for students to interact / exchange ideas with speakers. Workshops were conducted with an aim to impart specialized technical skills in a

short duration. In addition, Seminars were given by researchers from abroad and India. Cross-talk is a unique event where faculty from IIT Palakkad present their work for a general audience.

National Service Scheme and Life Skills program

NSS forms part of the extra-curricular activities and many events were organized by NSS. The Life Skills program is part of an attendance-mandatory course and aims at personality development, including management of time and resources.

1st Institute day was held on 31st March 2017. Chief guest of the day, Prof. M. S. Ananth former director IIT Madras.

Additional Secretary (Technical Education) MHRD, Shri. R. Subramanyam, IAS visited IIT Palakkad on 2nd April 2017.

1st Senate of IIT Palakkad is held on 6th April 2017.