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IIT Palakkad Annual Report 2015-16
Palakkad, Kerala, India.

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IIT Palakkad Staff and Students

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Foreword

It gives me great pleasure to present the first annual report of IIT Palakkad. It is the 17th member of the IIT family to start academic activities. The people of Kerala were very happy to see that their long standing desire for an IIT was addressed in the 2014 union budget. On 20th November 2014, IIT Madras was designated as the mentor institute for the two new IITs in Kerala and Andhra Pradesh. The faculty and staff at IIT Madras, having gained experience from mentoring IIT Hyderabad, had no hesitation in taking up these assignments. A special account was set up to handle all expenses and Prof. P. B. Sunil Kumar was appointed as the Professor in charge of the new IIT.

The eagerness and enthusiasm of the state government and the people of Kerala to see an IIT established in the state were evident in the quick steps taken to identify the permanent and temporary locations for the new IIT at Palakkad. The state government had carried out a detailed study of the possible locations and a report was presented to the Site Selection Committee appointed by MHRD. SSC visited all the locations in January 2015 and submitted its report in February 2015. In March 2015 the state government issued orders accepting the SSC report and directing the district collector Palakkad to take necessary steps for acquisition of land. I would like to express my sincere gratitude to the state and district administration for the timely action.

Though IIT Palakkad is fortunate to have the beautiful premises inside Ahalia Integrated Campus, Kozhipara, as temporary campus, with sufficient facilities clustered within a radius of 500 m to conduct academic activities and provide residences for students and faculty for two years, several internal alterations to the buildings needed to be done before the classes could start. A committee was set up at IIT Madras, with Prof. Ravindra Gettu as Chairman, to plan and carry out the necessary works to make the temporary campus ready for the academic year 2015-16. A second committee was also set up, with Prof. Gettu as the convener and Prof. Sunil Kumar as its chairman, to handle all the necessary purchases and contracts. I would like to thank all the faculty and staff involved who worked hard and made several trips to Palakkad to get the all necessary facilities ready to start the classes in August 2015.

As mentioned in this report, several present and retired faculty colleagues from IIT Madras have contributed to the setting up of IIT Palakkad. They were equally supported by the technical and administrative staff, many a time working beyond the call of duty to get things done in time. Without this overall effort it would have been impossible to get the class rooms, laboratories, hostels and sports facilities ready in the short span of a few months. IIT Palakkad is indebted to all of them for their unconditional support.

IIT Palakkad was registered as a Society on 30th December 2015. With the amendment of the Indian Institutes of Technology Act by Parliament in August 2016, IIT Palakkad has now become a full-fledged member of the IIT family. MHRD has already sanctioned faculty and staff positions at IIT Palakkad. One round of faculty selection was held during May 2016 and eleven young faculty members have already joined the institute.

On behalf of the new Institute, I wish to thank MHRD and the Board of Governors for all the support provided.

Date : 11th Nov 2016
Place : Chennai

Prof. Bhaskar Ramamurthi
Director, IIT Madras
**Introduction:**

The Indian Institutes of Technology (IITs) are established by the Government of India to make available world class technical education to advance industrial development in the country. IITs are governed by the Institutes of Technology Act, 1961, which has declared them as institutes of national importance. The first IIT was established in 1951 at Kharagpur followed by Bombay (1958), Madras (1959), Kanpur (1959) and Delhi (1961). The success of these IITs in providing high quality education and research led to the demand for establishment of more such institutions. At present there are 23 institutions incorporated under the IITs act.

An IIT in Kerala was proposed in the July, 2014 union budget. On 20th November 2014, MHRD designated IIT Madras as the mentor institute for the IIT in Kerala. The Director, IIT Madras appointed Prof. P. B. Sunil Kumar as the Professor in Charge of IIT Palakkad with effect from 1st January 2015.

On January 17th, 2015, the site selection committee appointed by MHRD identified approximately 500 acres of land, in Pudusseriy village, 8 KM from Palakkad town towards Coimbatore, close to the NH 47, as the site for the permanent campus of the new IIT. The committee also found facilities in the Ahalia integrated campus, Kozhippara, suitable for hosting the institute temporarily. The academic activities at IIT Palakkad was formally launched, with the welcome function for the first batch of B.Tech. Students, on 3rd August 2015.

On 30th December 2015 IIT Palakkad was registered as a Society, under the 1860 Malaria societies registration act XXI, with registration number PKD/CAS/593/2015. The first meeting of the Board of Governors of the society was held on 12th of January 2016.

Smt. Smriti Zubin Irani, Honorable HRD minister addressed the gathering at the function through video conferencing. Shri. Kris Gopalakrishnan, Co-Founder Infosys was the chief guest. Prof. Bhaskar Ramamurti (Director, IITM), Shri V. Srinivas (Secretary, HE, GoK), Prof. David Koilpillai (IITM) and Prof. M. S. Mathews(IITPalakkad) addressed the gathering.
**Governance:**

**BOARD OF GOVERNORS**

1. Shri. Vinay Sheel Oberoi,  
   Secretary, DHE, MHRD  
   Chairman

2. Shri. R. Subrahmanyam,  
   Addl. Secretary (TE), MHRD  
   Member

3. Prof. Bhaskar Ramamurthi,  
   Director, IIT Madras  
   Member

4. Shri. B. Srinivas,  
   Secretary, DHE, Govt. of Kerala  
   Member Secretary

5. Smt. Darshana Momaya Dabral,  
   Jt. Sec & FA, MHRD  
   Member

6. Smt. Tripti Gurha,  
   Director (IITs), MHRD  
   Member

7. Prof. P.B. Sunil Kumar,  
   Professor in-charge, IIT Palakkad  
   Member

**FINANCE COMMITTEE**

1. Shri. Vinay Sheel Oberoi,  
   Secretary, DHE, MHRD Chairman  
   Chairman

2. Shri. R. Subrahmanyam,  
   Addl. Secretary (TE), MHRD  
   Member

3. Prof. Bhaskar Ramamurthi,  
   Director, IIT Madras  
   Member

4. Smt. Darshana Momaya Dabral,  
   Jt. Secretary & FA, MHRD  
   Member

5. Smt. Tripti Gurha,  
   Director (IITs), MHRD  
   Member

6. Prof. P.B. Sunil Kumar,  
   Professor in-charge, IIT Palakkad  
   Member

7. Prof. Job Kurian,  
   Registrar, IIT Palakkad  
   Member Secretary
BUILDING AND WORKS COMMITTEE

1. Prof Bhaskar Ramamurthi,
   Director, IIT Madras  
   Chairman

2. Mr. Unnikrishna Panickar,
   Chief Engineer, CPWD, Trivandrum.  
   Member

3. Mr. Prasad Mathew,
   Deputy Chief Engineer (Elec), KSEB, Palakkad.  
   Member

4. Prof. Ligy Philip,
   Chairman, Engineering Unit, IIT Madras.  
   Member

6. Prof. P. B. Sunil Kumar,
   Prof. in-Charge, IIT Palakkad.  
   Member

7. Mr. S. Ramanujam,
   Rtd. Director, DCSEM, DAE, Mumbai.  
   Member

8. Prof. M.S. Mathews,
   IIT Palakkad (Member Secretary).  
   Member
ACADEMIC COUNCIL

1. Prof. K. Ramamurthy  
   Dean (Academic Courses), IIT Madras  
   Chairman

2. Prof. G. Ranga Rao  
   Dept. of Chemistry, IIT Madras  
   Member

3. Prof. M. Thamban Nair  
   Dept. of Mathematics, IIT Madras  
   Member

4. Prof. S. Kasiviswanathan  
   Dept. of Physics, IIT Madras  
   Member

5. Prof. D. Malathy  
   Dept. of HSS, IIT Madras  
   Member

6. Prof. Manu Santhanam  
   Dept. of Civil Engineering, IIT Madras  
   Member

7. Prof. P. Sreenivasa Kumar  
   Dept. of CSE, IIT Madras  
   Member

8. Prof. Harishankar Ramachandran  
   Dept. of Electrical Engineering, IIT Madras  
   Member

9. Prof. T. Sundararajan  
   Dept. of Mechanical Engineering, IIT Madras  
   Member

10. Prof. K. Krishnaiah  
    Dept. of Chemical Engineering, IIT Madras  
    Member

11. Prof. V. G. Idichandy,  
    Dept. of Ocean Engineering  
    Member

12. Prof. P.B. Sunil Kumar  
    Professor in-charge, IIT Palakkad  
    Member

13. Prof. Job Kurian  
    Professor IIT Palakkad  
    Member

14. Prof. M.S. Mathews  
    Professor IIT Palakkad  
    Member
Other Committees

On 20th July 2014, IIT Madras was designated as the mentor institute for the new IIT in Kerala. Following committees were set up at IIT Madras to get the temporary campus ready for the academic year 2015-16:

IIT Palakkad Exclusive Purchase Committee

1. Prof. P. B. Sunil Kumar Chairman
2. Prof. Ravindra Gettu Convenor
3. Prof. S. Kasiviwanthan Member
4. Prof. Ranga Rao Member
5. Prof. T S Natarajan Member
6. Dr. K. M. Muraleedhran Member
7. Mr. R. Esakkimuthu, Deputy Registrar, Internal Audit Member
8. Mr. B. Nagarajan, Deputy Registrar IC & SR Member
9. Mr. R. Sarvaharan, Assistant Registrar IC & SR Member

IIT Palakkad Temporary-Campus Implementation Committee

1. Prof. Ravindra Gettu Chairman
2. Prof. Ligy Philip, Chairman EU, IITM Member
3. Mr. K. Viswanath, Executive Engineer, Electrical, IITM Member
4. Mr. K. Dharmaraj, Executive Engineer, Civil-projects, IITM Member
5. Mr. M. Soundararaj, Consultant, EU, IITM Member
**People:**

**ADMINISTRATION**
1. Prof Bhaskar Ramamurthi Mentor Director
2. Prof. P.B. Sunil Kumar Professor in-charge
3. Prof. Job Kurian Professor in-charge (Administration) & Registrar
4. Prof. M.S. Mathews Professor in-charge (Infrastructure)
5. Prof. S. Kasiviswanathan Professor in-charge (Academics & student affairs)
6. Prof. V G Idichandy Senior Project Advisor
7. Shri. K. Madhvan Unni, IRSS (Rtd) Advisor (Administration)

**Faculty**
1. Prof. MS Mathews Professor, Department of Civil Engineering, IIT Palakkad.
2. Prof. Job Kurian Professor, Department of Mechanical Engineering, IIT Palakkad.

**Full Time Visiting Faculty**
1. Prof. MC Valsakumar Scientist-H (Rtd.), Outstanding Scientist, IGCAR, Kalpakkam.
2. Prof. Govindankutty Former Head, Materials Chemistry Division, IGCAR Kalpakkam.
3. Dr. Jasine Babu
4. Dr. Arvind Ajoy
5. Dr. K P Deepesh

**Visiting Faculty from IIT Madras**
1. Prof. S Kasiviswanthan Professor, Department of Physics.
2. Prof. Susy Varughese Professor, Department of Chemical Engineering.
3. Prof. K Mangala Sundar Professor, Department of Chemistry, IIT Madras.
4. Dr. KM Muraleedharan Associate Professor, Department of Chemistry.
5. Prof. V Vetivel Professor, Department of Mathematics.
6. Dr. Sarith P Sathian Associate Professor, Department of Applied Mechanics.
7. Prof. Sundararajan Professor, Department of Mechanical Engineering.

**Guest Faculty**
1. Prof. KK Balasubramanian Former Emeritus Professor, IIT Madras.
2. Prof. Narayanan Namboodiri Emeritus Professor, Department of Mathematics, CUSAT.
3. Dr. Ajith Kumar National Centre for Biological Sciences, Bangalore.
4. Dr. Anand Osuri National Centre for Biological Sciences, Bangalore.
5. Dr. Hari Shridhar Centre for Ecological Society, Bangalore.

**Workshop Instructor**
1. Dr. G. Balaganesan, Senior Technical Officer, Central Workshop, IIT Madras
TEACHING ASSISTANTS

CHEMISTRY
1. Mr. M. G. Harikrishnan Project Associate
2. Ms. M. Jiji Project Associate
3. Mr. Reddi Ganesh Project Associate
4. Ms. Sneha K. R. Project Associate

CIVIL ENGINEERING
1. Mr. G. G. Sreyas Project Officer
2. Mr. Alex Project Associate
3. Dr. V. Lakshminarasimha Rao Senior Project Officer

MATHEMATICS
1. Ms. Ardra T. Joy Project Associate
2. Mr. R. Sreeram Project Associate

PHYSICS
1. Ms. S. A. Meenu Project Associate
2. Mr. C. Krishna Prasad Project Associate
3. Ms. N. S. Parvathy Project Associate

STAFF DETAILS OF IIT PALAKKAD

1. Dr. K. A. Abdal Salam Senior Project Officer
2. Ms.S. Priyanka Project Associate
3. Mr. Soju Francis Project Associate
4. Mr. M. Vineesh Kumaran Project Associate
5. Ms. K. M. Sharmila Verma Project Associate
6. Mr. V. Anandan Senior Project Assistant
7. Ms. V. Darsana Nair Senior Project Assistant
8. Mr. M. Dileesh Senior Project Assistant
9. Ms. Susama Bera Senior Project Assistant
10. Mr. Shailesh Kumar Project Associate
11. Ms. P. Sureka Project Associate
12. Ms. Rukshana Hassen Project Associate
13. Mr. D. Anto Jidhin Project Assistant
14. Ms. N. Thenmozhi Senior Project Assistant
15. Ms.A. Geetha Senior Project Assistant
16. Mr. M. Daniel Jerald Senior Project Assistant
17. Mr. W. Mafeeq Project Attendant
18. Mr. A. R. Aromal Project Attendant
19. Mr. A. Muralidharan Senior Project Assistant
Infrastructure:

Chemistry Laboratory

The Chemistry Laboratory is a spacious and well-ventilated laboratory equipped with state of the art work tables for the use of up to 40 students per batch. There are safety features such as eye wash stations at two locations inside the lab and an emergency shower just outside. The lab amenities include a fume hood for carrying out experiments with volatile reagents and a hot air oven for drying glassware and chemical precipitates. Two each of UV-VIS spectrophotometers and colorimeters have been installed. In addition, there is a portable RO water plant inside the lab for providing high purity water for carrying out experiments, and an ice flake machine for experiments at low temperatures. Electronic weighing balances, electrical conductivity meters for solutions, pH meters, and electrical hot plates have also been installed. There is a laboratory refrigerator for storing special reagents, and water baths for conducting specific experiments. Three portable melting point determinators are available for sample characterization. An ultrasonic cleaner is available for cleaning glassware, and a couple of electric Bunsen burners for heating small samples up to 900°C. Two orbital shakers for shaking reaction bottles during adsorption experiments are also installed. The Chemistry Lab is thus well equipped for training the B. Tech. students, as was shown by our experience during the January-April semester this year. The lab is run on a rigorous policy of waste minimization.

Computer Lab

IIT Palakkad has a state-of-the-art Computing Centre with 60 All-In-One Dual Boot Desktops connected centrally to the File Server with LDAP authentication mechanism. The students can login from any of these machines to access their home directory and work with it. Lab machines are connected to the Internet via high-speed link. The Lab has seating capacity of 75 students. It has two projectors for projection. The Lab is used for Computer-aided design and programming classes and it is open from 8 am to mid-night every day for students.

The features of the Learning Management System, moodle, have been well utilized for course content management, the conduct of online examinations and submission of assignments. In order to facilitate the computing and networking requirements, two high-end Servers are being used. A firewall and Squid Proxy Server are installed for access control.

The Campus, including the Hostels, is fully Wi-Fi enabled with mobility in Internet Access. Various functional units of the institute are organized into 3 separate VLANS for secure connectivity. A 1000 Mbps Internet connection from the National Knowledge Network and another 100 Mbps connection from BSNL are made available in order to meet the Internet usage requirements.
Physics Lab

Physics laboratory is an integral part of the first year curriculum. The aim of the physics laboratory is to reinforce the concepts students have learned while simultaneously acquiring the skills and developing the confidence to carry out experiments on their own. The laboratory itself is spacious and forty students perform experiments in a session, with ample elbow room. The experiments cover three major fields: Mechanics, Optics and Electricity and Magnetism. The laboratory has several sophisticated instruments such as, digital oscilloscopes, programmable function generators, green laser diode assemblies, true rms digital meters, digital balance, etc. These instruments serve as tools for precision measurements, while the emphasis is placed on experimentation.

Innovation Lab

The Innovation Lab at IIT Palakkad is a student-run hobby lab 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. The heart of the Innovation Lab at IIT Palakkad is a set of table top computer controlled machining systems: a dual-head 3D printer, a CNC router, a CNC milling machine and a CNC lathe. Of these, the first two systems have been operational since August 2016, whereas efforts are currently on to procure the CNC milling machine and lathe. The above four machines will enable the precise fabrication of prototypes in plastic, wood and soft metals such as aluminium.

An electronics testing and fabrication setup with robust power supplies, signal generators and oscilloscopes has also been operational since August 2016. Students have started organizing themselves into clubs in order to take full benefit of the Innovation Lab – the ‘Robotics Club’ is the first such student-run club that has been functioning at IIT Palakkad. Once the fabrication facilities at the Innovation Lab are completely set up, it is envisaged that the facility can also 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. In the long run, it is hoped that the Innovation Lab is as successful as the Center for Innovation at IIT Madras in incubating companies and nurturing entrepreneurs.
Central Library

The Central Library, IIT Palakkad provides an enjoyable learning experience with optimum ambience for study and learning during and after normal working hours and on holidays. The library provides information/knowledge resources through a carefully developed and balanced collection of books, magazines, and newspapers. The library is enabled with Wi-Fi and LAN facility for unlimited high-speed internet access.

The Central Library started operating with a collection of 700 books; presently the collection has grown to 1,500 books. Sufficient number of copies of textbooks and reference books are procured for the courses offered. Other books of general interest to students, faculty and staff have also been acquired. It also has a collection of audio-visual materials such as CD-ROM, scientific kits, etc. The users of Central Library of IIT Palakkad are also registered with the National Digital Library sponsored by MHRD and coordinated by IIT Kharagpur.

The operation of the library are fully computerized by using open source library management software KOHA. The acquisition of the books are done through recommendations from the faculty members. The technical processing of the books are done by proper classification by using DDC classification system. Check-out and check-in of books are done through Smart ID cards. The users of the library are getting the facility to reserve books through online public access catalogue which helps them to save time.

The library renders services such as reference and consultation as well as updates the users with Information Alert Service like newspaper clippings and list of new arrivals in the library.

Following rooms are equipped with NKN connectivity

![Auditorium with capacity of 200 students](image1)

![Two 80 seater classroom](image2)

![Conference room](image3)

![Boardroom](image4)
Faculty Accommodation and Guest House

Twelve double bed-room apartments and a three bed-room house have been rented inside Ahalia Campus for faculty accommodation and guest house facilities. These are within a few hundred meters from the academic block and the hostels. Faculty members taking care of administrative duties and hostels reside on the campus. The guest house is mainly used to accommodate visiting faculty from IIT Madras.

Hostel Facility

IIT Palakkad is fully residential with separate hostels for girls and boys. The hostel buildings are within a radius of seven hundred meters of academic building. Students are provided accommodation on twin-sharing basis, and all the rooms are bath-attached. The hostels have a spacious dining hall and a well-equipped recreational place, indoor games and a fitness centre. The common space in the hostel is WiFi enabled. The other amenities provided include RO drinking water system and a heavy-duty washing machine in each floor of the hostels. The sports facilities currently available in the hostel premises include table tennis and volleyball court. Coaches are available for football and cricket. The serene atmosphere of Ahalia campus is ideal for cross-country running.

Well lit streets connect the hostels and the academic block.
**Academic activity:**

**General information**

IIT Palakkad offers B.Tech programme in four branches: Civil Engineering, Computer Science and Engineering, Electrical Engineering and Mechanical Engineering. The yearly student intake is 120, equally distributed in all four branches. The number of registered students in the 2015 batch is 108 with 104 boys and 4 girls. The students come from different parts of the country, providing a truly cosmopolitan and multicultural environment. The demography of admitted students, the category and branch wise distribution are shown respectively in the following chart and in Tables 1 and 2.

![Pie chart showing student distribution by state]

<table>
<thead>
<tr>
<th>Category</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genral</td>
<td>51</td>
</tr>
<tr>
<td>Genral PwD</td>
<td>01</td>
</tr>
<tr>
<td>OBC-NCL</td>
<td>30</td>
</tr>
<tr>
<td>SC</td>
<td>17</td>
</tr>
<tr>
<td>ST</td>
<td>09</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>108</strong></td>
</tr>
</tbody>
</table>

**Table 1:** Category-wise student strength

<table>
<thead>
<tr>
<th>Branch</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering</td>
<td>26</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>26</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>28</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>28</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>108</strong></td>
</tr>
</tbody>
</table>

**Table 2:** Branch-wise student strength
Curriculum
The curriculum is set by an academic council consisting of senior professors from IIT Madras and is based on the 2014 curriculum of IIT Madras. In the first year, the curriculum is common to all branches. The details are given in Tables 3 and 4.

Table 3: Semester I curriculum

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Credit</th>
<th>Course Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CS1100</td>
<td>Computational Engineering</td>
<td>4</td>
<td>BET</td>
</tr>
<tr>
<td>2</td>
<td>CY1010</td>
<td>Chemistry I</td>
<td>3</td>
<td>SCY</td>
</tr>
<tr>
<td>3</td>
<td>ID1100</td>
<td>Concepts in Engineering Design</td>
<td>3</td>
<td>BET</td>
</tr>
<tr>
<td>4</td>
<td>MA1010</td>
<td>Mathematics I</td>
<td>4</td>
<td>SMA</td>
</tr>
<tr>
<td>5</td>
<td>ME1120</td>
<td>Engineering Drawing</td>
<td>3</td>
<td>BES</td>
</tr>
<tr>
<td>6</td>
<td>PH1010</td>
<td>Physics I</td>
<td>3</td>
<td>SPH</td>
</tr>
<tr>
<td>7</td>
<td>PH1030</td>
<td>Physics Laboratory</td>
<td>2</td>
<td>SPH</td>
</tr>
<tr>
<td>8</td>
<td>WS1010</td>
<td>Workshop I</td>
<td>2</td>
<td>BES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Table 4: Semester II curriculum

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Credit</th>
<th>Course Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CY1020</td>
<td>Chemistry II</td>
<td>3</td>
<td>SCY</td>
</tr>
<tr>
<td>2</td>
<td>CY1030</td>
<td>Chemistry Laboratory</td>
<td>2</td>
<td>SCY</td>
</tr>
<tr>
<td>3</td>
<td>ID1200</td>
<td>Ecology and Environment</td>
<td>2</td>
<td>BET</td>
</tr>
<tr>
<td>4</td>
<td>AM1100</td>
<td>Engineering Mechanics</td>
<td>4</td>
<td>BET</td>
</tr>
<tr>
<td>5</td>
<td>GN1100</td>
<td>Life Skills</td>
<td>2</td>
<td>HPF</td>
</tr>
<tr>
<td>6</td>
<td>MA1020</td>
<td>Mathematics II</td>
<td>4</td>
<td>SMA</td>
</tr>
<tr>
<td>7</td>
<td>PH1020</td>
<td>Physics II</td>
<td>3</td>
<td>SPH</td>
</tr>
<tr>
<td>8</td>
<td>ME1100</td>
<td>Thermodynamics</td>
<td>3</td>
<td>BET</td>
</tr>
<tr>
<td>9</td>
<td>WS1020</td>
<td>Workshop II</td>
<td>2</td>
<td>BES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Credits</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

Course distribution
The courses for the four-year B.Tech programme fall into five major categories: Humanities and social sciences (HSS, HPF,...), Basic sciences (SMA, SPH, SCY,...), Basic Engineering Theory / Skills (BET, BES) and Professional Major & Minor Theory and Laboratory (PMT, PML). At present, PMT and PML courses commence from third semester onwards. In order to complete the B.Tech programme successfully within four years, a student has to earn a total of 170-172 credits at the end of first eight semesters. Faculty of IIT Palakkad, visiting faculty from IIT Madras and guest faculty, who are senior retired faculty from reputed institutions, handle all the courses.

Grading policy
IIT Palakkad has a grading policy based on continuous assessment. Grades are awarded on a 10 point scale denoted S, A, B, C, D, E and U, with E being the minimum grade to pass a subject. The respective credits are 10, 9, 8, 7, 6, 4 and 0. Academic performance at the end of the first semester is quantified by a Grade Point Average (abbreviated GPA), which is a weighted average of the grades obtained in courses that are completed successfully. From the second semester onwards, a Cumulative grade point average (CGPA, weighted average of the grades secured in all semesters) is given, in addition. At present students are given a draft transcript, which provides a summary of their performance in a semester.
Branch Change
Students are allowed to change their branch based on their academic performance in the first semester. The change comes into effect at the end of the first year. The rules for branch change are based on the 2014 B.Tech Ordinances and Regulations of IIT Madras. One of the criteria for change of branch, apart from academic performance, is the restriction on the sanctioned strength in each branch. Table 5 provides the students strength after branch change:

Table 5: Branch - wise student strength after branch change

<table>
<thead>
<tr>
<th>Branch</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering</td>
<td>23</td>
</tr>
<tr>
<td>Computer Science and Engineering</td>
<td>33</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>27</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>25</td>
</tr>
<tr>
<td>Total</td>
<td>108</td>
</tr>
</tbody>
</table>

Remedial Courses

English language course
The medium of instruction is in English. In order to identify the students lacking sufficient background in English language, and provide help, an English proficiency test was conducted. All students admitted to IIT Palakkad were required to take the test. English language improvement classes (Forty contact hours), after regular class hours, were arranged and 24 students with difficulty in English language were benefitted from the language course.

Special drive for academically weak students
Interactive sessions after regular class hours were arranged for all theory courses for the academically weak students. The students were identified based on their performance in the first assessment test of the academic progress in a particular course. Well-trained teaching assistants for each course have handled the interactive sessions and about twenty students were benefitted by the special drive.

Student welfare

Faculty Advisors
Faculty advisors serve primarily as mentors from academic viewpoint. They provide guidance in choosing the courses of study and give general advice on the academic programme, which aid students in setting meaningful objectives to realize their educational and professional goals. A faculty member is assigned to Eighteen students for mentoring them. Periodic meetings with the students were arranged and in certain situations the faculty advisors also helped the advisees overcome minor emotional conflicts.

Professional Counseling
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 assistance. The principal motive of the service is the well-being of the students so that all students get a home-away-from-home feel during their stay at IIT Palakkad. At present, a NIMHANS trained counselor visits IIT Palakkad every week from Friday to Saturday. Apart from an office at the academic building the counselor was also provided with a room in the student hostel. Working of the counselor in proximity to the students helped create awareness among the students that receiving professional counseling is not a social stigma. Several students were benefitted through counseling, with some of them improving their academic performance.
Health care
IIT Palakkad has access to the good health and emergency care facilities available in the Ahalia integrated campus. Whenever there is a need, referrals are made to hospitals in Palakkad and Coimbatore. In addition students are covered under a comprehensive medical insurance scheme for a nominal yearly subscription.

Scholarships
Merit-Cum-Means scholarships, Institute free studentships and Scholarships for SC/ST students are available to the students of IIT Palakkad, as per the Government of India norms. A total of 44 students were sanctioned scholarships. This includes 27 students with MCM scholarship, 10 students with institute Freeship and 7 seven students with SC/ST scholarships. All MCM scholarship holders are exempted from paying the tuition fee, apart from being given monthly pocket allowance of Rs. 1000/- during their stay. Institute Freeship holders are exempted from paying tuition fee. SC/ST scholarship holders are exempted from paying tuition fee and basic menu charges in the hostel, apart from being given monthly pocket money of Rs. 250/-.

Student privacy
IIT Palakkad respects the privacy of each student and strongly believes that everyone has the right to have their personal information protected. Personal details of all students are kept strictly confidential and the information is not disclosed. This helps students to be part of a single homogeneous group irrespective of their widely varying financial/social background or category. In the academic front, draft transcripts were sent to the students with a copy to their parents/guardian alone and were not displayed on institute/hostel notice boards. This has helped create a healthy academic environment.

Student activities and events:
A variety of student-centric activities and events were organized. The primary goal of such activities is to stimulate and cultivate the intellectual and scholastic potential of every student and increase awareness of social responsibility. These activities also enabled students to spend their free time productively, improving the overall learning environment.

NSS
NSS is part of the curriculum and it is mandatory for all students. NSS activity does not carry any academic credit but participation is compulsory. Interaction with students of nearby schools for helping them grasp fundamental principles of science, providing computer-based learning kits to the inmates of a local orphanage, blood donation by student volunteers, and landscape development and cleaning hostel premises, are the highlights of the student activities under the National Service Scheme (NSS) during 2015-16.

School teaching
A major activity was related to helping the rural school students in higher secondary classes with lessons in physics, chemistry and mathematics; this include demonstrating simple experiments in physics and chemistry, and then explaining the fundamental principles underlying them. The school teachers gladly welcomed and supported these efforts. Teams of students under the supervision of one or more faculty members and staff, visited the Government Higher Secondary School at Kozhipara, and interacted with the students on many Saturdays. The school students are mostly wards of agricultural workers and other daily-wage earners. Sessions of classroom teaching and free discussions with students were held. The bonding between the “teachers” and those taught was spontaneous, and the enthusiasm of the school students was very genuine. A similar service was also extended to the Ahalia Public School located in the IIT campus.
Support to orphanage

A team of students and faculty visited the orphanage in the Ahalia campus, and interacted with the children there. A personal computer loaded with educational and recreational programs was handed over to them.

Blood donation camp

A blood donation camp was organized with the support of the Blood bank of the Palakkad district hospital. Students, faculty and staff volunteers turned up in large numbers and donated blood.

Cleanliness campaign

Under the aegis of the NSS, the students carried out a massive cleanliness campaign in the student hostels. This included cleaning the rooms and common areas of the buildings, cleaning the hostel compound by removing wild grass and construction debris, and laying a volleyball court. Several staff and faculty members also took part in the campaign.

Life Skills

A course on Life skills, with carrying 2 credits is mandatory, but the credits are not included for GPA / CGPA calculation. However this mandatory as per the curriculum. The life skills course was organized in two modules with about three days for each module. A team from Leads College of management, Palakkad, conducted both modules. The first module was essentially a personality development module with the objective of developing inter/intra personal skills, self-confidence. It was organized at the IIT Palakkad campus. The second module, out bound training, was conducted at the Leads college premises. This involved mainly individual and group physical activities with an aim to develop skills required for leadership and management of resources including time.

Student Elections

As a first step towards setting up student council, student secretaries to various posts were elected through polling. A “soap box”, moderated by an IIT Palakkad faculty was organized on the eve of the elections at the Auditorium. All students participated with great enthusiasm. The elected members are: General secretary, Hostel secretary, Sports Secretary, Cultural secretary and two Mess representatives.
Extramural lectures, seminars and talks conducted:

Extramural lectures:

September 11, 2015: Thought process of an entrepreneur
Speaker: Mr. Louis George, Managing Director of Verdant Telemetry & Antenna Systems Pvt. Ltd.

October 28, 2015: Rhythm appreciation primer: Lecture-demonstration
Speaker: Mridangam vidwan, Shri. T. R. Rajamani

February 26, 2016: Racing cars and automotive engineering
Speaker: Mr. J. Anand, Managing Director, Jayem Automotives

Seminars and Talks

August 20, 2015: “Making of the IITs”
Speaker: Prof. R. Kalyana Krishnan, Retired Professor, Deptartment of Computer Science and Engineering, IIT Madras.

September 4, 2015: “My experience as a teacher”
Speaker: Prof. M. S. Mathews, Retired Professor, Deptartment of Civil Engineering, IIT Madras.

September 15, 2015: “Wind turbines”
Speaker: Mr. Ranjan Deshpande, Senior Manager, Learning & Development Function, Suzlon (arranged through video conferencing).

September 16, 2015: “Software design”
Speaker: Mr. Ramaswamy Krishnan-Chittur, Senior Software Engineer, Microsoft Corporation.

September 17, 2015: Reaching your full potential in academics
Speaker: Prof. David R. Koilpillai, Dean Planning, IIT Madras

October 21, 2015: Bio-inspired artificial intelligence
Speaker: Prof. Shivashankar B. Nair, Department of Computer Science and Engineering, IIT Guwahati.
January 16, 2016: Live telecast of Prime Minister's program
Start up India

January 21, 2016: Underwater surveillance & communication:
Prospects and challenges in R & D
Speaker: Sri. S. Kedarnath Shenoy, Outstanding Scientist and
Director, NPOL, Kochin.

February 03, 2016: The interdisciplinary nature of technology development: A perspective from the
semiconductor industry
Speaker: Dr. Arvind Ajoy, IIT Palakkad.

February 12, 2016: Engineering energy efficient engines: Solving
power problems for cell phones and data centers
Speaker: Dr. Ignatius Bezzam,
Visiting Professor IIT Madras

February 16, 2016: Resolving atoms in our backyards: Indigenous technology in a globalized world
Speaker: Prof. Deshdeep Sahdev, Quazar Technologies, Professor, IIT Kanpur

February 17, 2016: Fast integer multiplication algorithms: A perspective
Speaker: Dr. Piyush P. Kurur, Associate Professor, IIT Kanpur

February 19, 2016: Light sculptured photonic materials: Fabrication
and applications
Speaker: Prof. Joby Joseph, Department of Physics, IIT Delhi

March 3, 2016: Discussion on gravitational waves
Speaker: Dr. Archana Pai, School of Physics, IISER-Trivandrum
Events – Workshops / Meets

September 12, 2015: Demonstration cum discussion by CFI students members, IIT Madras

January 23, 2016: Workshop on FOSS and hardware hacking
Speaker: Mr. Pramod C

Events – Celebrations

August 15, 2016: Independence Day celebrations

August 26, 2015: Onam celebrations

September 05, 2015: Teachers Day celebrations

October 30, 2015: Get together: Students, faculty, staff and IIT family
November 10, 2015: Diwali Day celebrations

November 11, 2015: Ramayan: A drama organized by students as part of Diwali celebrations

January 26, 2016: Republic day celebrations
Financial Report:

No. PDA (C)/CE/ I/ 28-53/ 2016-17/ 76  
Dt.31.10.2016

To
The Secretary to Government of India
Ministry of Human Resource Development
Department of Education
Shastri Bhavan
New Delhi -110 001

Sir,

Sub: Separate Audit Report (SAR) on the accounts of Indian Institute of Technology, Madras for the year 2015-16 - Reg.

I forward herewith the Separate Audit Report on the accounts of Indian Institute of Technology, Madras for the year 2015-16 along with the statement of accounts. The dates of presentation of the accounts with Separate Audit Report to Parliament may kindly be intimated to this office.

The receipt of this letter with enclosures may kindly be acknowledged.

Yours faithfully

sd/-

End: As above

Director/ CE
Separate Audit Report of the Comptroller and Auditor General of India on the accounts of Indian Institute of Technology, Madras for the year ended 31 March 2016

We have audited the attached Balance Sheet of Indian Institute of Technology, Madras including the transactions of IIT Palakkad and IIT Tirupati as IITM being the mentor Institute as at 31 March 2016, the Income & Expenditure Account and Receipts & Payment Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 23(2) of the Institutes of Technology Act, 1961. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting statement only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Report/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:
   i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.
   ii. The Balance Sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this Report has been drawn up in the format approved by Ministry of Human Resource Development.
   iii. In our opinion, proper books of accounts have been maintained by Indian Institute of Technology, Madras as required under Section 23(1) of the Institutes of Technology Act, 1961 in so far as it appears from our examination of such books.
   iv. We further report that:

A. Balance Sheet
   Application of Funds
   Schedule 4 - Fixed Assets - B. Intangible Assets
   Significant accounting Policies - Schedule 23

   As per the Significant Accounting Policies - Schedule 23, out of 639 applications filed for grant of Patents, 140 Patents have been granted so far.

   However the expenditure, incurred for obtaining Patents were treated as revenue expenditure instead of capitalizing and accounting under Intangible Assets. This practice is in contravention to the MHRD format of accounting which stipulates as follows:

   “The expenditure incurred from time-to-time (application fees, legal expenses etc.) for obtaining patent is temporarily capitalized and shown as part of Intangible assets in the Balance Sheet. If applications for patents are rejected, the cumulative expenditure incurred on the particular patent is written off to the Income and Expenditure Account in the year the application is rejected. The expenditure on Patents granted is written off over a life of 9 years on a conservative basis”.

IITPKD Annual Report 2015-16
B General

1 Schedule 24 - Contingent Liabilities and Notes to Accounts - B. Notes on Accounts - Value of Project assets as on 31.3.2016 Rs 592,04,34,615

Depreciation on value of assets acquired out of project funds has been calculated at the rate of 8% on Straight Line Method uniformly without segregating the assets into different categories viz., Equipments, Computer peripherals, Furniture & Fixtures etc. Further, “Gross block”, “depreciation Block” and “Net block” have not been worked out, which is in contravention to the MHRD format of accounting.

2 Scholarship D Account - Statement showing source-wise breakup details of Sponsored Fellowships and Scholarships not appended with the Financial Statements

As per MHRD Format of Financial Statement for Institutes of Higher Education/Central Autonomous Bodies, Scholarships and Sponsored Fellowships from University Grants Commission, Ministry and others (to be specified individually) have to be exhibited in the format as shown in Schedule 9 (b) Sponsored Fellowships and Scholarships showing Opening balance as at the beginning of the year, Transaction (Receipt and Payment) during the year and Closing balance as at the end of the year. Out of the closing balance, the resultant creditor column would appear on liabilities side of the Balance sheet under Schedule-3 and the debtor column would appear on the Assets side of the Balance sheet under Schedule 8-Loans, Advances and Deposits).

However, as seen from the annual accounts of the Institute, the above mentioned method of accounting in respect of Sponsored Fellowships and Scholarships has not been followed.

C Revision in accounts

The Accounts of the Institute were revised on the basis of audit observations. As a result of revision, the Assets and Liabilities were increased by Rs. 7.97 crore and the deficit was decreased by Rs. 2.22 crore

D Grants in aid

Out of the total grant of Rs.820.26 crore (including Plan Grant received for IIT Palakkad Rs 25 crore and IIT Tirupati Rs. 18 crore) released during the year, internal Revenue of Rs 56.08 crore and Rs 165.23 crore being the unspent grant of the previous year (totaling Rs 1041.57 crore) the Institute could utilize Rs 855.07 crore leaving a balance of Rs.186.50 crore as on 31 March 2016.

v Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipt & Payment Account dealt with by this report are in agreement with the books of accounts.

vi In our opinion and to the best of our information and according to the explanation given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.

a. In so far as it relates to the Balance Sheet, of the state of affairs of Indian Institute of Technology, Madras as at 31 March 2016, and

b. In so far as it relates to Income & Expenditure Account of the deficit for the year ended on that date.

For and on behalf of the C&AG of India

Place Chennai
Date: 31.10.2016

sd/-
Principal Director of Audit (Central), Chennai
Annexure to Audit Report

1. Adequacy of Internal Audit System:
   Internal audit system is inadequate as it has not followed MHRD format in respect of capitalization of Patents and Bank Reconciliation was not done properly.

2. Adequacy of Internal Control System:
   Internal Controls were found to be inadequate. A sum of Rs. 67, 45, 822 directly credited into Bank Account in respect of “Project account” during the period from 30.9.2013 to 28.12.2015 had not been recognized as revenue and recorded in the Bank Book of Project account. The above amount is still shown as adjustment entries in the Bank Reconciliation statement for the month of March 2016.

3. System of Physical verification of Fixed Assets:
   Physical verification of Fixed Assets has been carried out for the year 2015-16

4. System of Physical verification of Inventory:
   Physical verification of Inventory has been carried out for the year 2015-16

5. Regularity in payment of statutory dues
   The Institute is regular in depositing the statutory dues.

sd/-
Director/ CE
<table>
<thead>
<tr>
<th>Name of the project for which grant received</th>
<th>Amount of Grant brought forward from previous year</th>
<th>Amount of Grant received during the year 2015-16</th>
<th>Internal Revenue Generation</th>
<th>Total</th>
<th>Amount utilized during the year 2015-16</th>
<th>Amount unutilized as on 31st March 2016 carried forward to next year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan Grant</td>
<td>166.59</td>
<td>177.50</td>
<td></td>
<td>344.10</td>
<td>194.33</td>
<td>149.77</td>
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<td>Non-Plan Grant</td>
<td>43.42</td>
<td>230.60</td>
<td>100.24</td>
<td>344.26</td>
<td>318.48</td>
<td>25.48</td>
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<td>Projects</td>
<td>174.32</td>
<td>359.75</td>
<td>539.41</td>
<td>539.41</td>
<td>322.56</td>
<td>216.85</td>
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<td>Total</td>
<td>353.93</td>
<td>777.26</td>
<td>55.57</td>
<td>888.88</td>
<td>835.37</td>
<td>52.51</td>
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<td>III Palakad-Plan Grant</td>
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<td>18.00</td>
<td>0.23</td>
<td>29.23</td>
<td>10.74</td>
<td>18.49</td>
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<td>III Tirupati-Plan Grant</td>
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<td>18.06</td>
<td>0.28</td>
<td>18.34</td>
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<td>353.93</td>
<td>823.26</td>
<td>55.80</td>
<td>1041.57</td>
<td>855.07</td>
<td>186.50</td>
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<tr>
<td>Previous Year</td>
<td>Current Year</td>
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<td>------------------------------------------------------------------------------</td>
<td>-----------------------</td>
<td></td>
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<tr>
<td><strong>Opening Balance</strong></td>
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<tr>
<td>0.00 Bank Balance</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>0.00 Investments</td>
<td>0.00</td>
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<td></td>
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<td><strong>0.00 Total</strong></td>
<td><strong>0.00</strong></td>
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<td><strong>Receipts</strong></td>
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<td>0.00 Tuition Fee Receipt</td>
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<td>0.00 Loan from IIT-M F' A/c</td>
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<td><strong>0.00 Receipts Total</strong></td>
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<td><strong>0.00 Grand Total</strong></td>
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