

2017-18



॥ सा विद्या या विमुक्तये ॥

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Annual Report

INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

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From Director's Desk



PROF. P SESHU

It gives me immense pleasure to present the second annual report of IIT Dharwad.

The Institute, in the year 2017-18, has taken considerable leaps towards establishing itself firmly as a seat of learning. This year, we have welcomed a second batch of students from all across the country. Our second batch of students is being taught and mentored by a steadily growing team of young faculty members, as well as by professors from our mentor-Institute IIT Bombay.

We have started outreach and networking activities with the rich industrial base around us. Our students are also beginning to transform into bright young internees, with some of them interning with companies like Google. Another proud moment for us this year was the performance of our students in the Inter IIT Tech Meet held at IIT Madras, where they stood sixth among all IITs for building a hexacopter from scratch. As an IIT that is taking significant, but baby steps, we feel happy to see our students gradually blossom into engineers. In an attempt to cater to their overall health and well-being we have also inaugurated student mentorship programme, clay-modelling classes, counselling facilities and a well-equipped gym.

Our transit campus at WALMI has steadily shaped itself to cater the growing needs of our Institute with a series of infrastructural improvements and changes. Besides establishing the engineering and science labs, we have also been able to renovate and provide new hostel buildings, games as well as recreational arenas to our expanding IIT community. We have celebrated diverse festivals and cultural events, commemorated our Foundation Day on 30th August, 2017, and commenced work on the development of our permanent campus.

In undertaking and achieving all of this, we continue to function as a well-knit family that is growing in knowledge, experience and size. We remain indebted to the support of various people, bodies and organizations especially the MHRD, the state government of Karnataka, WALMI, PWD, our mentor-institute IIT Bombay, and many others. We are hopeful of their continued support on the road forward.

In the days ahead, we aim to add and achieve more milestones in this historic journey. We hope to create thinkers and tinkerers from among our bright young students, and become dedicated mentors and guides ourselves, in our collective pursuit of excellence and innovation at IIT Dharwad.

JAI HIND!

Board of Governors

Name	Address and Occupation	Designation
Shri. R. Subrahmanyam	Secretary, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi	Chairman (ex-officio)
Shri. Sukhbir Singh Sandhu	Additional Secretary (Technical Education), Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi	Member
Prof. P. Seshu	Director, IIT Dharwad	Member
Dr. Rajkumar Khatri	Principal Secretary, Department of Higher Education, Government of Karnataka	Member
Smt. Darshana Momaya Dabral	Joint Secretary & Financial Advisor, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi	Member
Shri. Prashant Agarwal	Director (IITs'/IIITs'), Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi	Member
Prof. Avinash Mahajan	Professor In-charge, New IIT Mentoring Cell, IIT Bombay	Member

Academic Profile

IIT Dharwad, presently, is currently primarily following the course and curriculum pattern of mentor institute namely IIT Bombay. The instruction of courses is in collaboration with IIT Bombay faculty members. The Institute has eight Departments:

- Biosciences and Bioengineering (BSBE),
- Chemistry (CH),
- Computer Science and Engineering (CSE),
- Electrical Engineering (EE),
- Humanities and Social Sciences (HSS),
- Mathematics (MA),
- Mechanical Engineering (ME), and
- Physics (PH)

B.Tech. Program

Bachelor of Technology (B.Tech.) programmes started in 2016 in three branches namely, Computer Science and Engineering, Electrical Engineering and Mechanical Engineering. The total number of enrolled students in 2017-18 is 113 and 13 among them are girl students. In total, there are 227 B.Tech. students enrolled including the previous batch (2016-17) and 32 among them are girl students.

Ph.D. Program

IIT Dharwad has also started Ph.D. Programmes from January 2018 in all the eight departments. Admission into the Ph.D. Programme is done through entrance exams and interviews conducted by various departments of the Institute. Eight students have registered in January 2018.

Academic Profile

Library

The library, besides having an excellent collection of books, also provides access to variety of e-resources. At present library has more than 2000 books and provides access to more than 3000 research journals of international repute.

Student Mentorship Programme

The IIT Dharwad Student Mentorship program enables constructive interaction, guidance and mentorship of junior students by their seniors. The vision of the programme is "to inculcate the right attitude right from the beginning". Presently, all 2nd year students are being mentored by dedicated 3rd year student-mentors.

Health Care

IIT Dharwad puts special emphasis on health and well-being of its student community. Presently two doctors are available for consultation at the IIT Dharwad campus thrice a week, as well as on call basis for emergency cases. All our students are assured with Cashless Medical Health Insurance for a sum of Rs. 2,00,000/- per annum to meet their medical needs. Under the scheme, all major hospitals of Hubli-Dharwad, like SDM Medical College, Fortis Hospitals, etc. provide cashless medical consultancy & treatments. The expenses incurred by students for minor treatments can be reimbursable from the concerned department. 24x7 Ambulance (ICU on wheels) facility is available in the campus for emergency situations. IIT Dharwad also provides 24 x 7 app-based counselling support to its students via Yourdost- a mental health support organization. The organization also provides a counsellor for regular visits to the campus. The Institute conducts various sensitization and awareness workshops for promoting overall well-being of the students.

Faculty Profile



Prof. Ameer K Mulla
Assistant Professor
(Electrical Engineering)



Prof. Amlan K Barua
Assistant Professor
(Mathematics)



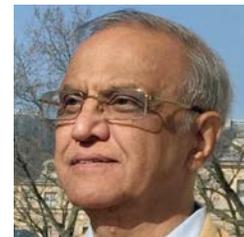
Prof. AN Tiwari
Visiting Professor
(Mechanical Engineering)



Prof. Bharat BN
Assistant Professor
(Electrical Engineering)



Prof. BL Tembe
Visiting Professor
(Chemistry)



Prof. BV Limaye
Visiting Professor
(Mathematics)



Prof. C Amarnath
Visiting Professor
(Mechanical Engineering)



Prof. D Narasimha
Professor
(Physics)



Prof. Dhiraj V Patil
Assistant Professor
(Mechanical Engineering)

Faculty Profile



Prof. G Nagaraja
Visiting Professor
(Computer Science and
Engineering)



Prof. Nagesh R Iyer
Professor
(Mechanical Engineering)



Prof. NS Narasimha Sastry
Visiting Professor
(Mathematics)



Prof. NS Punekar
Visiting Professor
(Biosciences and
Bioengineering)



Prof. P Seshu
Professor
(Mechanical Engineering)



Prof. R Prabhu
Assistant Professor
(Physics)



Prof. Rajesh Malakapalli
Assistant Professor
(Chemistry)



Prof. Rajshekar K
Assistant Professor
(Computer Science and
Engineering)



Prof. R Phawade
Assistant Professor
(Computer Science and
Engineering)

Faculty Profile



Prof. Ridhima Tewari
Assistant Professor
(Humanities and Social
Sciences)



Prof. Ruma Ghosh
Assistant Professor
(Electrical Engineering)



Prof. S Sivaji Ganesh
Visiting Professor
(Mathematics)



Prof. Sandeep RB
Assistant Professor
(Computer Science and
Engineering)



Prof. Shyamprasad K
Visiting Professor
(Mechanical Engineering)



Prof. SRM Prasanna
Professor
(Electrical Engineering)



Prof. Sudhanshu Shukla
Assistant Professor
(Biosciences and
Bioengineering)



Prof. Sudheer S
Assistant Professor
(Mechanical Engineering)



Prof. Sushil Mishra
Visiting Professor
(Mechanical Engineering)

Faculty Profile



Prof. SV Prabhu
Professor
(Mechanical Engineering)



Prof. Tejas PG
Assistant Professor
(Mechanical Engineering)

Infrastructure Development

Temporary Campus

The Institute is currently functioning from a temporary campus in the premises belonging to WALMI neighboring the High Court on the national highway. The temporary campus for housing about 400 students, faculty, staff, laboratory facilities and some sports facilities have been provided by renovating and refurbishing the existing building blocks and structures in a Phased manner. Phase-I was completed in the previous year (2016-17).

IIT continued the work undertaken towards improvement of the campus infrastructure this year under Phase-II to meet its requirement. Pursuant to this, the institute has in addition to the existing infrastructure recently completed renovation and repair of class rooms, Labs, hostels (7, 8 & 9), kitchen and dining building, open areas of the Academic Building, water tank, road network in the campus. At the same time, an entirely renovated Board Room and Director's room were designed and refurbishment works were completed. Using the drone, the campus layout survey was carried out. The Deputy Commissioner inaugurated some of the works that were completed in Phase-II on 19th February 2018. During the year, planning, design and estimate works under Phase-III activities as approved by the BoG through the concurrence of BWC were taken up to be entrusted to State PWD. Some of the photographs/snapshots are provided here displaying the various completed activities this year.



Renovated Hostel



Academic Building



Renovated Hostels





120 Seater Class Room



Renovated Main Building



Renovated Hostel



Playground



Roads at Main Entrance



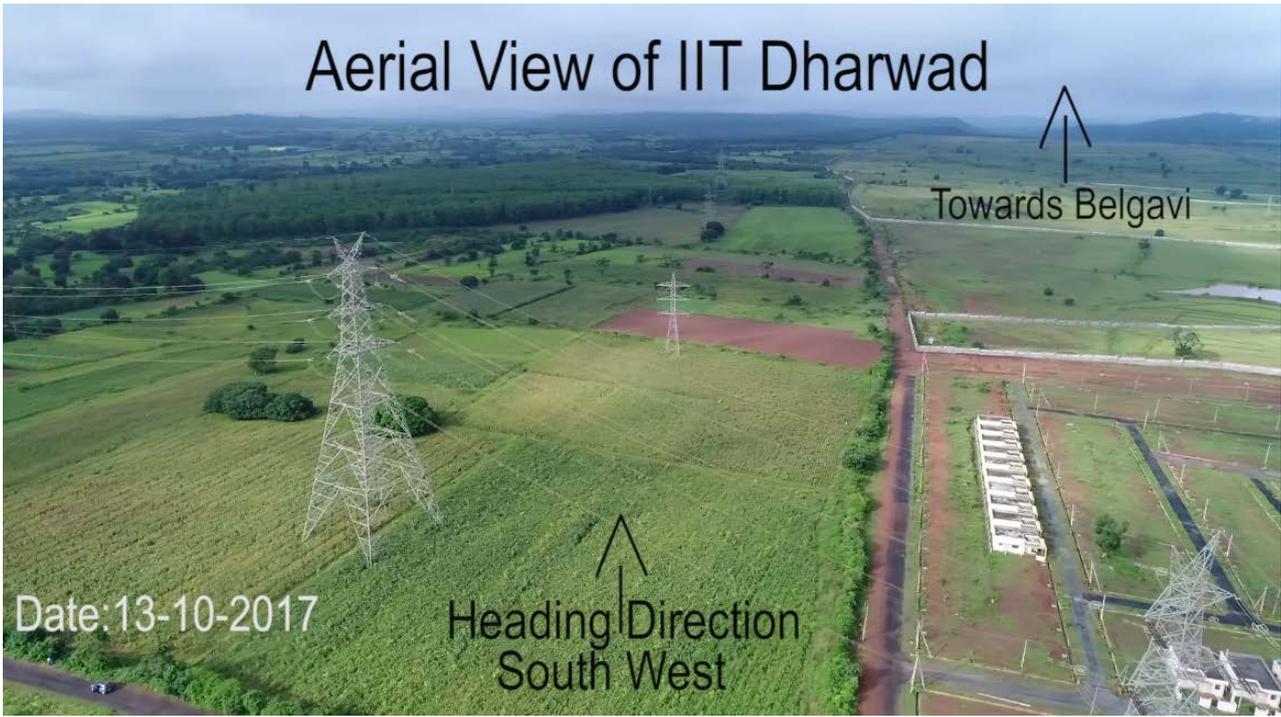
Roads at Hostel

Infrastructure Development

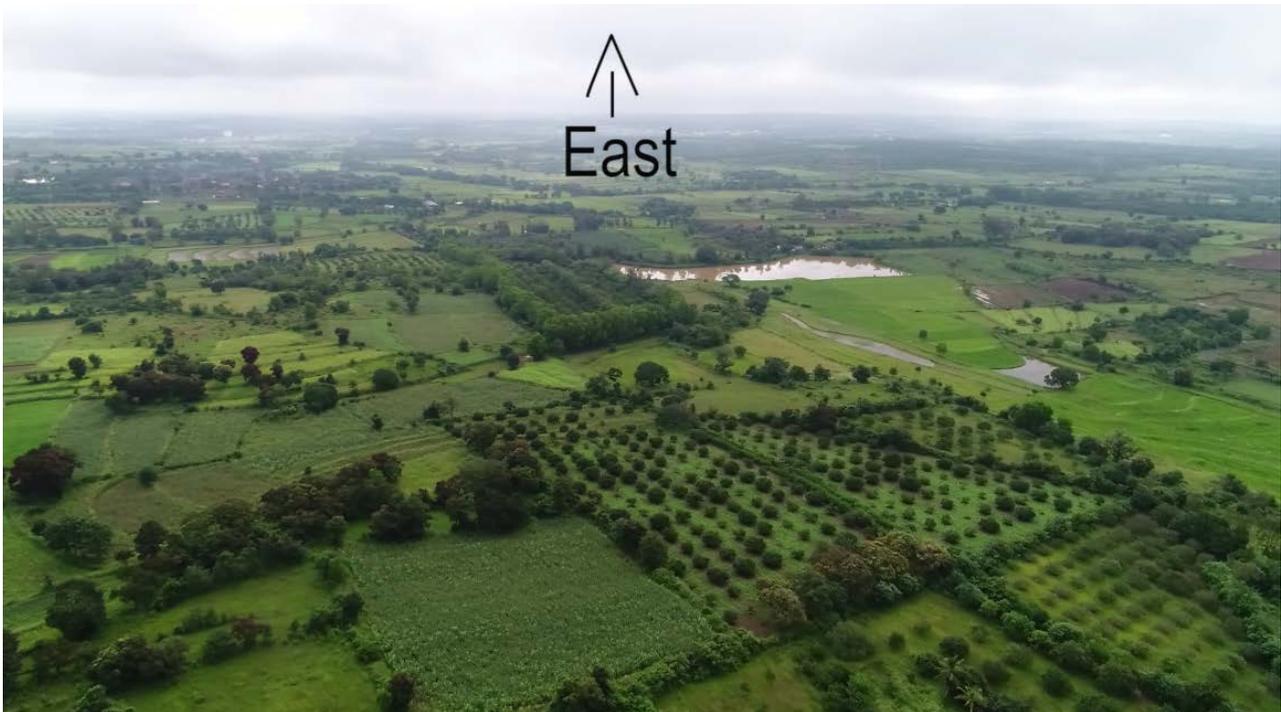
Permanent Campus

The permanent campus is just across the National Highway located about 3.5 km from the temporary campus. The site has an area of about 188 hectares (470.2 acres). IIT CAMPUS AREA about 470.2 acres (1895962.2811 sq. m) excludes forest area of about 67 acres (272416.2625 sq. m). Drone was also employed to conduct an aerial survey. This Aerial study provided Mapping Data (both contours and Orthomosaic), photos of various spots, places locations including the forest zone, boundaries, and detailed video covering the entire topology including the surroundings adjoining the boundaries. The Orthomosaic data is with a resolution of about 10cm/pixel and is georeferenced. This facilitated conduct not only the Ecology Management studies but also the architects to design/landscape buildings and even overlap drawing files since it has latitude and longitude details, and elevation levels. Detailed contour survey and the Ecological Management Plan were carried out during the year. Keeping in view the need for Development and Design of New/Permanent Campus, steps were taken for the selection of the MPA/ Consultant through the process of EoI and issuance of RFP to the 26 empanelled applicants. This required adherence and follow up of the required guidelines and concurrence of the Building Works Committee (BWC) and approval of the Chairman, of the Board of Governors (BoG) wherever necessary.

The duly constituted High Power Committee carried out the evaluation process of the competitive applicants in two stages and selected the Master Plan Architect/ Consultant. Thus, the process that began in September 2017 was completed by end of January 2018. The M/s Suresh Goel & Associates, New Delhi were duly appointed Master Plan Architect/ Consultant in March 2018 following the due process. It is envisaged that under Phase-1, these buildings will be completed in two steps, namely Phase-1A and Phase-1B. Phase-1A of construction is being planned to be ready in 2 years (2020) with all necessary buildings and utilities, so that these portions will be occupied and operationalized quickly. Phase-1B of construction for the remaining buildings should be ready in five-year period (2024) to make the Phase-1 of campus fully operational. Construction of Compound wall work was entrusted to Karnataka State PWD. The perimeter of the wall is about 7.4km that proposes to have about 5 entry/exit gates. Some of the photographs show the permanent campus layout and features.



Aerial View of IIT Dharwad (470.2 acres)





Summary of Institute Accounts

Balance Sheet as on 31/03/2018

Sources of Funds	Schedule	Amount in ₹	
		Current year (2017-18)	Previous year (2017-18)
Corpus/Capital Fund	1	62624319	103719211
Designated / Earmarked / Endowment Funds	2	925000	339000
Current Liabilities and Provisions	3	549615779	187127453
Total (A)		613165098	291185664
Application of Funds			
Fixed Assets			
Tangible Assets	4	56945128	26715018
Capital Works-in-Progress	4	3582764	1112188
Intangible Assests	4	2096427	214824
Investments from Earmarked / Endowment Funds	5	0	0
Current Assets	7	70302698	80245497
Loans, Advances and Deposits	8	480238081	182898137
Total (B)		613165098	291185664
Significant Accounting Policies	23		
Contingent Liabilities and Notes on Accounts	24		

Summary of Institute Accounts

Income & Expenditure for the Year End 31/03/2018

Particulars	Schedule	Amount in ₹	
		Current year (2017-18)	Previous year (2017-18)
Income			
Academic Receipts	9	28248836	14768735
Grants / Subsidies (Irrevocable Grants Received)	10	125677181	95000000
Income from Investments	11	0	0
Interest Earned	12	0	0
Other Income	13	241559	0
Prior Period Income	14	0	0
Total (A)		154167576	109768735
Expenditure			
Staff Payments and Benefits (Establishment Expenses)	15	50612662	15663780
Academic Expenses	16	10120621	2324155
Administrative and General Expenses	17	29983143	12460618
Transportation Expenses	18	4480263	1534789
Repairs and Maintenance	19	9546391	2095627
Finance Costs	20	8530	12585.48
Other Expenses	21	0	0
Depreciation	4	9807856	3757751
Total (B)		114559466	37849305

Summary of Institute Accounts

Income & Expenditure for the Year End 31/03/2018

Particulars	Schedule	Amount in ₹	
		Current year (2017-18)	Previous year (2017-18)
Balance being Excess of Income over Expenditure (A-B)		39608110	71919430
Adjusted from Capital Fund (Depreciation)		9807856	3757751
Transfer to General Reserve		49415966	75677181
Transfer to/from Designated fund		0	0
Building Fund		0	0
Others (specify)		0	0
Balance being Surplus / (Deficit) Carried to Corpus / Capital Fund		49415966	75677181
Significant Accounting Policies	23		
Contingent Liabilities and Notes on Accounts	24	50612662	15663780

Summary of Institute Accounts

Receipts and Payments: 01/04/2017 to 31/03/2018

Receipts	Amount in ₹	Payments	Amount in ₹
I Opening Balance		I Expenses	
Academic Receipts	9	28248836	14768735
Grants / Subsidies (Irrevocable Grants Received)	10	125677181	95000000
Income from Investments	11	0	0
Interest Earned	12	0	0
Other Income	13	241559	0
Prior Period Income	14	0	0
Total (A)		154167576	109768735
Expenditure			
Staff Payments and Benefits (Establishment Expenses)	15	50612662	15663780
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Finance Costs	20	8530	12585.48
Other Expenses	21	0	0
Depreciation	4	9807856	3757751
Total (B)		114559466	37849305

Summary of Institute Accounts

Receipts and Payments: 01/04/2017 to 31/03/2018

Receipts	Amount in ₹	Payments	Amount in ₹
I Opening Balance		I Expenses	
a) Cash in hand	0.00	a) Establishment Expenses	49650542.00
b) Bank Balances		b) Academic Expenses	9985229.00
I. In Current Account	80245496.52	c) Administrative Expenses	29873982.02
II. In Deposit Account	0.00	d) Transportation Expenses	4498256.00
III. In Saving Account	0.00	e) Repairs and Maintenance	7554318.00
		f) Prior Period Expenses	
II Grant Received		II Payment against Earmarked / Endowment Funds	0.00
a) From Government of India	399900000.00		
b) Grant in aid due in 2015-16 received in 2016-17	0.00		
c) From State Government	0.00		
d) From other sources	0.00		
III Academic Receipts		III Payment against Sponsored Projects / Schemes	0.00
a) Fees from Students	42073170.00		
b) Other Receipts from Students	0.00		
c) All India Entrance Examination Receipts	0.00		
IV Receipts against Earmarked / Endowment Fund		IV Payment against Sponsored Fellowships and Scholarship	0.00
V Receipts against Sponsored Projects / Schemes	0.00	V Investments and deposits made	
		a) Out of Earmarked / Endowment Fund	0.00
		b) Out of Own Funds	0.00

Summary of Institute Accounts

Receipts and Payments: 01/04/2017 to 31/03/2018

Receipts	Amount in ₹	Payments	Amount in ₹
VI Receipts against Sponsored Fellowships and Scholarship	0.00	VI Term deposits with Schedule Banks	0.00
VII Income on Investment from		VIII Other Payment including Statutory Payments	
a) On Bank Deposits	0.00	a) Other Adjustable Account	
b) Loans, Advances etc.	0.00		11492890.00
c) Saving Bank accounts	0.00		
d) Accrued Interest	0.00		
IX Investment Encashed	0.00	IX Refund of Grants	
X Term Deposits with Schedule Bank Encashed	0.00	X Deposits and Advances a)	
		a) Advances Account	299760525.00
		b) Refundable Deposits	74500.00
		c) Recoverable Deposits	2618890.00
XI Other Income (Including Prior Period Income)		XI Other Payment	
a) Continuing Education Programme	0.00	a) Grant from other organizations	0.00
b) Miscellaneous Receipts	0.00	b) Sundry Creditors	0.00
c) Guest House Receipts	81150.00	c) Loan - Inter Department	0.00
	0.00	d) Surplus transfer to Endowment	0.00
XII Deposits and Advances		V Closing Balances	
a) Advances Account	731170.00	a) Cash in hand	0.00
b) Refundable Deposits	0.00	b) Bank Balances	
c) Recoverable Deposits	29100.00	I. In Current Account	70302697.50
		II. In Deposit Account	0.00
		III. In Saving Account	0.00

Summary of Institute Accounts

Receipts and Payments: 01/04/2017 to 31/03/2018

Receipts	Amount in ₹	Payments	Amount in ₹
XIII Miscellaneous Receipts Including Statutory Receipts			
a) Other Adjustable Accounts	4795475.00		
XIV Any Other Receipts			
a) Grants from other Organisations	0.00		
b) Sundry Debtors	0.00		
Total	527855561.52	Total	527855561.52

Student Events



Ek Bharat Shreshtha Bharat 26th January 2018

Covered by All India Radio

Around 20 students participated in the programme promoting the culture of Andhra Pradesh and Punjab. Through a series of cultural interactions, they learnt about each other's unique heritage. The speeches spotlighting both Andhra Pradesh and Punjab were informative. Focusing on the specificity of Punjab's culture, there was a Bhangra performance by B. Tech students.



List of Events

- Informative speeches on both Andhra Pradesh and Punjab.
- A Bhangra acknowledging the rhythm of Punjab.
- A vibrant dance performance based on the culture of Andhra Pradesh



Student Events



Ek Bharat Shreshtha Bharat 17th March 2018

IIT Dharwad celebrated Ek Bharat Shreshtha Bharat initiative through a series of performances on 17th March 2018 dedicated to the following paired states:

Himachal Pradesh and Kerala

Uttarakhand and Karnataka



Covered by All India Radio

Students from these paired states planned a cultural programme involving dance, song performances, and speeches to celebrate the spirit of bonding in a spirited manner. Around 20 students from 1st and 2nd Year B. Tech Programme participated under the guidance of the professors, help from the organizers, and the collective effort of a number of students.



List of Events

- A dance representing the cultural vibrancy of Kerala.
- A song reflecting the rhythm of Kerala.
- A dance representing the culture of Karnataka.
- Discussion on places and cultural practices of Uttarakhand
- An inspirational speech on Himachal Pradesh



Research Activities

Sponsored Projects

- Title: Optimal Control of Pursuit Evasion, PI: Prof. Ameer K Mulla (EE), 2018-23, Funding Agency: DST, Amount: ₹ 35 lakhs
- Title: Investigations on Multiple Pool Fires: Experimental and Numerical Study, PI: Prof. Sudheer S (ME), 2016-21, Funding Agency: DST, Amount: ₹ 35 lakhs

Awards

- Prof. Nagesh Iyer received Brij Mohan Lal Memorial Prize. The Award/Prize is given at the 32nd Indian Engineering Congress to be held at Hotel Le Royal Meridian, Chennai on 21 December 2017.

MoUs

- National Knowledge Network (NKN) India, 07 August 2017
- Council of Scientific Industrial Research (CSIR) India, 28 August 2017

Publications

- *Hybrid Macrocycles of Subporphyrins and Triphyrins*, Ankit Kumar, M. Rajeswara Rao, Way-Zen Lee, and Mangalampalli Ravikanth, *Organic Letters*, 2017, 19(21), pp: 5924-5927
- *α -Pyrrolyl dipyrins as suitable ligands for coordination chemistry*, Ritambhara Sharma, M. Rajeswara Rao, Mangalampalli Ravikanth, *Coordination Chemistry Reviews*, 2017, 348, pp: 92-100
- *Stable Core-Modified Doubly N-Fused Expanded Dibenziporphyrinoids*, Sunit Kumar, Malakalapalli Rajeswara Rao, and Mangalampalli Ravikanth, *The Journal of Organic Chemistry*, 2018, 83(3), pp: 1584-1590
- *Unravelling the Long Non-Coding RNA Profile of Undifferentiated Large Cell Lung Carcinoma*, Sudhanshu Shukla, *Non-Coding RNA*, 2018, 4(1), pii: E4

Invited Talks

Several invited talks were arranged for students to motivate them in various fields. Details of the invited talks are as given below:

Date	Name of the Speaker	Title of the Talk
28-Aug-17	Prof. Roddam Narasiha	Foundation day address
06-Oct-17	Prof. Sharad Sane	Fibonacci Numbers and the Golden Ratio.
10-Oct-17	Prof. D. Narasimha	Einstein's General Relativity
14-Oct-17	Prof. S.S. Rajput	Retarding Potential Analyzer: Design, Testing and Performance.
17-Oct-17	Mr. Druva	Spiritual Quotient
21-Oct-17	Dr. Manjunatha	Role of Agro-chemicals in Sustainable Agriculture
26-Oct-17	Prof. Patrick Flandrin	Empirical Mode Decompositions: A Primer
30-Oct-17	Dr. Shrikant Joshi	Phonetics
16-Nov-17	Dr. Shrikant Joshi	Computational Linguistics
17-Nov-17	Dr. Priyankoo Sarmah	Phonetic studies on languages and varieties.
17-Nov-17	Dr. Vinod Agrawal	Design and development of Nano /Micro/ Small satellites
22-Nov-17	Dr. Rudra Narayan Roy	Modelling and direct numerical simulation of turbulent reacting flows
12-Jan-18	Dr. Anirudha Dhananjay A	Burning Rate Studies of Solid and Liquid Propellants
18-Jan-18	Dr. Shivshankar R. Mane	Novel Polymeric Architectures for Biomedical Applications
19-Jan-18	Dr. Upendra Kumar Pandey	Organic Semiconductors in Electronics: From columnar mesophases to Organic/Organic-inorganic hybrid perovskite solar cells.

Invited Talks

Date	Name of the Speaker	Title of the Talk
19-Jan-18	Mr. Bimal Sud	Tears to Cheers!: Art and Science of Success
24-Jan-18	Dr. Raghu Murtugudde	Opportunities for Science and Technology Developments
24-Jan-18	Shivanand Kanavi	Highlights of notable Ancient Indian achievements in: Mathematics, Metallurgy, Medicine, Surgery, Construction, Astronomy, Manufacture, Agriculture
25-Jan-18	Shivanand Kanavi	Indian Contribution to Digital Technology
27-Jan-18	Dr. Harsh Shetty	Workshop on Mental Health
29-Jan-18	Dr. Anup Aprem	Cyber-physical-social systems: Applications in online social media
01-Feb-18	Dr. HEA (Eddy) Campbell	Innovation and Entrepreneurship
01-Feb-18	Dr. Sudipta Raha Roy	Synthetic Chemist with Special Interest in Catalysis
02-Feb-18	Mrs. Mandakini Patil	HCAL (Hadron Calorimeter) Upgrade and Technology Interface opportunities
03-Feb-18	Mr. Varun Kaul	Mindfulness in Everyday Life
08-Feb-18	Dr. Debashis Panda	Fluorescence spectroscopy
09-Feb-18	Dr. Shashikant Pawar	Axially homogeneous turbulent convection at high Rayleigh numbers: scaling laws for flux and spectra
05-Mar-18	Prof. Hugo Leonardo Rufiner	Challenges and opportunities in Brain Computer Interfaces
05-Mar-18	Prof. Hugo Leonardo Rufiner	Cooperative UAV-UGV Routing for Large-scale Mapping with Refuelling Constraints
07-Mar-18	Prof. Sudhir Ghorpade	The theory of partitions, an identity of Euler, and a remarkable formula of Ramanujan

Invited Talks

Date	Name of the Speaker	Title of the Talk
12-Mar-18	Dr. Anirudh Singh	Material Science and Bioengineering
13-Mar-18	Dr. Barendra Kumar Bhoi	Goods and Services Tax: Biggest Indirect Tax Reforms in India
17-Mar-18	Dr. Mythily Ramaswamy	Women in Science
17-Mar-18	Prof. Hiroya Fujisakidu	Problems and prospects of spoken language processing
21-Mar-18	Prof. Vaijyanthi Sarma	Mediating the Medium: When language becomes an impediment to learning

