

# **PARIPRASHNA : An NIT Puducherry Newsletter**

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Figure 1: NIT Puducherry, Thiruvettakudy, Karaikal, Puducherry U.T. 609 609  
Courtesy : Dr. Ansuman Mahapatra, NIT Puducherry

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"This is the whole point of technology. It creates an appetite for immortality on the one hand. It threatens universal extinction on the other. Technology is lust removed from nature."

- Don DeLillo



## Vision

To be among leading Indian Institutes for excellent, relevant and value based technical education and research.

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## From the Director's Desk



With pride, I forward the second issue of the third volume of NIT Puducherry bi-annual newsletter, "PARIPRASHNA". It reports on the important events and achievements of the Institute. It also acts as a memoir to relive the silver lining moments and inspires to work towards setting newer milestones for NIT Puducherry, apart from establishing a brand name for the Institute.

With progressive and successful steps towards making the campus green with hundreds of saplings, the Institute also witnessed establishment of a new boys hostel; Moyal Hostel within a record time of forty five days. I am proud to announce that the Institute has signed Memorandum of Understanding (MoU) with industries and international technical Institutes for internships, student exchange programs and collaboration on mutually beneficial research areas. Clubs like "Bharathidasan Tamil Mandram" is initiated to encourage and promote the local culture. The students have represented at International Youth Exchange programs in China and Russia for the first time in the history of the Institute and made us proud. The research activities and publications from the Institute is increasing at a steadfast pace. I thank all the faculty, staff and students working untiringly for the development of the Institute. As a closing note, I congratulate the editorial team and wish that "*Pariprashna*" reaches a larger audience and puts NIT Puducherry on the global arena of technical excellence.

Dr. K. Sankaranarayanan  
Director

## MoU With Alcatel-Lucent Enterprise



NIT Puducherry signed Memorandum of Understanding (MoU) with Alcatel-Lucent Enterprise, a networking firm which celebrated its centenary year of existence shared their Unified Communication as a Service (UCAAS) and Unified Platform as a Service (UPAAS), Rainbow, worth more than Rs. 5 Lakhs. The MoU also extends internship and job opportunities to M.Tech and B.Tech final year students of the institute. Alcatel-Lucent Enterprise represented by Mr. Abhishek Sinha, Senior Director R & D, Mr. Prasath. L. Rao, Country Director, South Asia, along with his team members, Mr. Jatin Kumar Patro and Mr. Anurag, signed the MoU with Dr. K. Sankaranarayanan representing NIT Puducherry.

## Initiation of Bharathidasan Tamil Mandram



NIT Puducherry formalized "Bharathidasan Tamil Mandram", a club aimed at encouraging and promoting local culture and literature. Dr. K. Sankaranarayanan, Director and Dr. D. Ragupathy, Assistant Professor, Department of Chemistry, faculty advisor for the Bharathidasan Tamil Mandram appreciated the efforts of the student participants who exhibited their literary talents with poems and speech.

## MoU with Anavadya Softech Pvt Ltd, Bangalore



National Institute of Technology Puducherry, signed a Memorandum of Understanding (MoU) with Anavadya Softech Private Limited, Bangalore. Anavadya Softech is a technical start-up based out of Bangalore, providing Blockchain, Internet of Things and Mobile Application based solutions and services. Dr. K. Sankaranarayanan, Director, representing NIT Puducherry and Mr. Narayanan, CTO, Anavadya Softech Private Limited, Bangalore, signed the MoU offering internships to undergraduate and postgraduate students and also engage in collaborative research and development in the areas of mutual interest with the faculty of NIT Puducherry. Two workshops were conducted on Blockchain at NITPY campus in which expert lectures were delivered by professionals from Anavadya Softech Private Limited, Bangalore.

## Institute celebrates 73<sup>rd</sup> Independence Day



The National Institute of Technology Puducherry observed the 73<sup>rd</sup> Independence Day in its institute premises at Karaikal. The national flag was hoisted at 8 a.m by the Director, Dr.K.Sankaranarayanan. The Director paid his tributes to the freedom fighters who laid down their lives. He urged the students to contribute to the progress and enrichment of the country. He also stressed upon the students role to enjoy the freedom, but with responsibilities and moral standards. Mrch past was presented by NITPY NCC cadets. The Institute premises was engrossed with patriotic fervour with the splendid cultural talent display of students and artistic demonstration of the students of "Arts & Craft Club". The Institute newsletter, Pariprashna Volume 3, Issue 1, was released in this event along with prize and certificate distribution to the volunteers who participated in the "Swachh Bharat Internship Programme —2019" organized by NIT Puducherry.



## Fit India Movement



Students of NIT Puducherry witnessed the live telecast of inauguration of Fit India Movement on 29<sup>th</sup> August 2019 from Indira Gandhi Stadium, New Delhi and address by the Prime Minister Narendra Modi. In the evening, students took oath on Fit India movement, followed by a fitness walk.

## International Youth Exchange program



Mr Kushal Nigam and Ms Jayshree visited China as part of International Youth Exchange program organized by Ministry of Youth Affairs and Sports, Govt of India. Similarly, Ms Manjusha Sridharan visited Moscow, Russia as a part of this event.

## NIT Puducherry welcomes the New Undergraduate Batch



A rigorous one-month induction program was conducted to the First Year B.Tech students between 19<sup>th</sup> August 2019 to 15<sup>th</sup> September 2019. The event was initiated and addressed by the director Prof. K. Sankaranarayanan followed by a brief address about the institute and interaction with the parents. The induction program included, Yoga and jogging events conducted by Ms Divyadarshini, Shanmuga Yogashram, Karaikal and Mr Sugan, Chennai in the morning hours everyday, Guest lecture by Dr Arul Murugan, Assistant Professor, Pondicherry university Karaikal Campus on the topic 'Life skills for Engineers', a seminar on topic 'Human values relevant to the Youth' conducted by Dr. Swaminathan, Program Executive, All India Radio, Karaikal, a seminar on 'Healthy Lifestyle', delivered by Prof. Mohan, PAJANCOA, Karaikal, a one-day Workshop on Disaster management, delivered by Mr Manimaran and Mr Karpoorasundaramoorthy, from Disaster Management cell Karaikal District, Dr. Balaji Karthik, Department of Community Medicine, JIPMER Karaikal gave an intensive lecture on Health and Hygiene and Prof. Ruchi Tewari, Mudra Institute of Communication and Advertising, delivered a lecture on Social Responsibility of Engineers.

## LEAP Entrance Exam



Second edition of LEAP made its way after successful completion of its last year objectives. NSS student volunteers organized JEE Entrance exam for the students studying in Karaikal with the help of Karaikal District Administration. The registration of students for JEE free coaching for the year 2019-2020 was done on 24<sup>th</sup> and

25<sup>th</sup> (Saturday and Sunday) of August 2019 and the entrance exam was held on the forenoon of 8<sup>th</sup> September 2019. 460 students from class XI and XII registered for the coaching, out of which 323 appeared for the exam. 120 students were selected for availing free coaching by LEAP volunteers. The classes for the selected students are being conducted regularly on weekends. Also, number of tutors for the current year increased to 40.

## NSS Activities



NSS unit organized a clean-up drive programme on 24<sup>th</sup> August 2019, aimed at developing a sense of responsibility among the students in keeping our surroundings clean. Almost 240 students actively participated in the drive. NSS volunteers under the guidance of NSS Officer, Dr. V. Govindaraj, also attended the rally to spread the importance of eye donation, aimed at removing myths in the minds of people about eye donation, on 09<sup>th</sup> September 2019. The rally was about a two-kilometer walk from District Collector's office to Thanthai Periyar Government School, Karaikal.

## Inauguration of Nano Electrochemistry Research Laboratory



Dr.K.Sankaranarayanan, Director, NIT Puducherry, inaugurated Nano Electrochemistry Research Lab at Department of Chemistry. Nano Electrochemistry Research Group led by Dr.D.Ragupathy, Assistant Professor, Department of Chemistry, who was awarded with Rs.54.62 Lakhs from DST, Government of India, New Delhi.

This lab synthesizes Nanomaterials such as nanofiber, nanoparticles and nanocomposite by electrospinning and electrochemical methods. These nanofiber membrane and nanomaterials can be potentially utilized for water desalination and energy applications. This research group has Electrochemical Workstation, Nanospinning Unit, UV-Visible Spectrophotometer and FT-IR Spectrophotometer worth of Rs. 30 Lakhs. Upon the guidelines of Director, NITPY now open its windows for using these equipments to the other colleges, researchers and industries.

## German Classes at NIT Puducherry



The National Institute of Technology Puducherry started offering A1 level German language course as a part of Foreign Language courses, for its students on 26<sup>th</sup> August 2019. The Programme was officially inaugurated by the Director, Prof. K. Sankaranarayanan, amidst many faculty, staff and students. The Director emphasized the need for learning new languages and its contribution to the assimilation of global cultures. He also pointed out how the newly introduced German Language course would help the NIT students to improve their employability. Ms. Jyotsna Vaidya, the resource person and Instructor of the German course, pursuing Ph.D. in German Studies at the Dept. of Foreign Languages, Savitri Phule Pune University, gave an introduction regarding the course and its expected outcomes.

## Interviews with All India Radio



Dr. K. Sankaranarayanan, Director, was invited by All India Radio, Karaikal in the month of September 2019 to



share his vision for the Institute and opinion on the evolving technical education system in India. He broadcasted the various research, social and cultural awareness programmes organized by the Institute. He also shared his wisdom with the young minds on various technical and non-technical courses that can be pursued after schooling. Dr. S. Madappa, Associate Dean-Planning and Development, was also invited by All India Radio on 18<sup>th</sup> September 2019, to share his expertise on constructions and buildings and clarify the doubts of the common people asking questions through telephonic calls.

### ATAL Workshop on IoT



The Department of EEE organized a 5-day workshop on "Internet of Things" from 16<sup>th</sup> September 2019 to 20<sup>th</sup> September 2019. The programme is sponsored by AICTE Training and Learning (ATAL) Academy. Dr. K. Sankaranarayanan, Director, inaugurated the workshop. Delegates from more than 15 states like Rajasthan, Uttar Pradesh, Kerala, Haryana and Tamil Nadu participated in the workshop. Seven experts from various departments and colleges helped in hands-on lectures and training during the 14 sessions of the workshop.

### National Conference on Communication Systems



The Department of Electronics & Communication Engineering, NIT Puducherry, Karaikal in association with The Institution of Engineers (India) organized, a one-day National Conference on Communication Systems on 21<sup>st</sup> September 2019. Under the chief patronage of the Director, Dr. K. Sankaranarayanan, the Conference was

inaugurated by Dr. M. P. Pillai, The Executive Director of National Institute of Electronics & Information Technology, Calicut, as the Chief guest with the release of a conference booklet. Dr. V. P. Harigovindan, Organising Chair, and other organizing secretaries, Dr. R. Boopathi Rani, and Dr. G. Lakshmi Sutha were also present. Nearly 100 delegates from different states participated in the conference by presenting 35 research papers. Dr. R. Radjaram, Honorary Secretary of Institution of Engineers along with the Director, inaugurated the Student Chapter of Institution of Engineerings, with an aim to motivate and help students to conduct workshops, conferences and fellowships for researchers.

### MoU with National Institute of Electronics and Information Technology, Calicut



National Institute of Technology Puducherry, signed a MoU with National Institute of Electronics & Information Technology, Calicut, represented by Dr. M P Pillai, the Executive Director, National Institute of Electronics & Information Technology, Calicut and Prof. K. Sankaranarayanan, Director, on collaboration in training, internship and research for the mutual benefits.

### Inter-collegiate Cultural festival, LeCiel'19



The annual inter-collegiate cultural festival, "LeCiel'19" was organized under the patronage of the Director, Dr. K. Sankaranarayanan, between 26<sup>th</sup> September 2019 and 28<sup>th</sup> September 2019. All the students of NIT Puducherry especially the cultural committee/various club student heads, members, volunteers and student's council took initiatives and worked hard for the success of the event. The inauguration ceremony on 26<sup>th</sup> September was presided by the Chief Guest, Mr. Mahesh Kumar Barnwal, SSP, Karaikal, and the director. LeCiel'19 witnessed registrations from more than 15 colleges in and around Karaikal, Pondicherry and Chennai. The festival included many exciting events like singing, dance, music band, art & literature competitions, on-line events, traditional proshows like chitra natyum programme by Kalaimamani Mrs. Chitra Gopinathan and team, Tharai Tappatai programme by Karaikal team, Ethnic walk by students, Bingo Comedy by Mr. Vivek Muralidharan, standup comedy by Mr. Kjeld Sreshth and DJ night.

## Celebration of 150<sup>th</sup> Gandhi jayanthi



NIT Puducherry observed 150<sup>th</sup> birth anniversary of Mahatma Gandhi on 2<sup>nd</sup> October 2019, in order to promote Khadi, exhibition cum sales was organized in the campus with Co-Optex, Karaikal, and Khadi bhavan. The NSS unit organised, "Swachhata Hi Seva" campaign, aimed at promoting cleanliness. Posters with information on waste disposal and principles of 3R's (Reduce, Reuse and Recycle) for plastic wastes were put up. Nearly 30 students from the NSS unit participated in the cleanliness drive and awareness rally in Thiruvettakudy village.

## MoU signed with Association of Leonard De Vinci, Paris La Cedex, France



National Institute of Technology Puducherry signed a MoU with the academic institute, Association of Leonard De Vinci, Paris La Cedex, France. Prof. K. Sankaranarayanan, Director, along with Dr. Vinopra, Associate Dean R&C, visited Leonard De Vinci, Paris to meet Dr. Alain Ovirieu, director, International relations, on 4<sup>th</sup> October 2019, to discuss about the various possibilities of collaboration. The under graduate and post graduate students of various departments under student exchange program can visit the other institute. Research scholars of NIT Puducherry can visit the France University for their research work. Prof. K. Sankaranarayanan also visited University of Tor Vergata, Rome on 10<sup>th</sup> October 2019 to discuss on MoU for exchange of students between the Universities and research collaboration.

## Self-defence Course for NITPY Women



National Institute of Technology Puducherry in collaboration with police department, Karaikal, conducted self-defence course for women between 2<sup>nd</sup> August 2019 and 22<sup>nd</sup> September 2019. During the valedictory ceremony presided by Mr. Makesh Kumar Banwal SSP Karaikal and Dr. K. Sankaranarayanan, Director, also attended by Mr. Veeravalavan SP Karaikal, Mrs. Agalya SI all

women police station Karaikal, appreciated the trainers Mr. A.Varadharajan (Teakwondo Master), Mr.Mahesh.K (Coach), Mr.John Viswanathan (Trainer), Mrs.Vembu.K (Trainer), Mrs.Nithya.G (Trainer) for their effort and commitment. About sixty student participants benefitted from the course. Dr. G. Koperundevi, Associate Dean-Student Welfare, coordinated this program.

### Linguistic Harmony Day



NIT Puducherry in association with district collectorate and Education Department of Karaikal, hosted Linguistic harmony Day on 21<sup>st</sup> November 2019 to mark the conservation week. The event was presided by Mr. M. Adarsh, Deputy Collector and Dr. K. Sanakaranarayanamsamy, Director and attended by officials from education department, Karaikal. Through speech, skit, short movie and quiz competition, students demonstrated cultural diversity in India. Dr. Amrtha Bhide and Dr. G. Koperundevi, Associate Deans-Student Welfare, organized this program.

### Mini Marathon



NIT Puducherry organized a mini-marathon competition from Karaikal Beach to NIT Puducherry spanning a distance of ten kilometers on the day of Sardar Vallabh Bhai Patel's birth anniversary on 31<sup>st</sup> October 2019. The mini-marathon was started by Mr. A. Vikranth Raja, District Collector, Karaikal and Dr. K. Sankaranarayanamsamy, Director at 7 AM. More than three hundred participants including school children and girls from various places participated in the event. Prizes and certificates were given out to the winners in the closing ceremony at 9.30 AM on

the same day at Institute premises. Dr. S. Babu, Students Activities and Sports Officer and his team organized the event successfully.

### Significance of World Standards Day



NIT Puducherry celebrated the World Standards Day in association with Institution of Engineers (India). The dignitaries, Dr. Raman Saravanane Chairman, IE(India), Puducherry state centre and Dr. R. Radjaram, Honorary Secretary of Institution of Engineers, Dr. K. Sankaranarayanamsamy, Director and Dr. N. Sendhil Kumar, Head, Department of Mechanical Engineering presided over the function. Dr.Narendran Rajagopalan, Head, Department of CSE, delivered a lecture on significance of Standards with the theme "Video standards create a global stage". The dignitaries also inaugurated the Institution of Engineers (India) student chapter for mechanical engineering with a motive to help conduct workshops and conferences by the students and faculty members of NIT Puducherry.

### Ek Bharat Shreshtha Bharat - Programme



NIT Puducherry celebrated "Ek Bharat Shreshtha Bharat" Programme, reflecting the spirit of national integration. Under this initiative, various states are paired and encouraged to interact and engage in various activities so as to appreciate and learn the diversified cultures mutually. NIT Puducherry is paired with IEST Shibpur and NIT Durgapur, West Bengal. The students of the institute will be visiting the West Bengal counterparts as part of the programme.



## Guest Lecture on Energy Environmental Analysis of Biofuel Production



Prof. Amaro Olimpio Pereira Junior, Department of Energy, University of Federal, Rio de Janeiro, Brazil, visited our campus to deliver a guest lecture on "Energy Environmental Analysis of Biofuel Production" on 13<sup>th</sup> December 2019. Students, faculty and staff of Mechanical Engineering attended and benefited from the guest lecture. The lecture was organized by Dr. N. Sendhil Kumar, Head, Mechanical Engineering.

## ATAL National workshop on Blockchain Application Development using Hyperledger & Ethereum



The Director, Dr.K.Sankarnarayananasamy inaugurated the Five-Days National workshop on "Blockchain Application Development Using Hyperledger and Ethereum", organized by the Department of Computer Science and Engineering, NIT Puducherry and AICTE Training and Learning Academy (ATAL) on 27<sup>th</sup> December 2019. More than fifty participants from various parts of India including Delhi, Andhra Pradesh, Kerala, Karnataka, Tamil Nadu participated in this workshop. Dr.K.Sankaranarayananasamy, Director, presided over the inauguration ceremony. Dr.Narendran Rajagopalan, Head, Department of CSE, Dr. R. Chandrasekar, Organizer and Assistant Professor, resource persons Mr.Narayanan L, Head (Innovation & Technology)

and Mr.Gunanithi, Delivery Head from Anavadya Softech Pvt Ltd., Bangalore, also participated. The workshop concluded successfully with issuing the books and certificates to the participants.

## ATAL National workshop on Artificial Intelligence in Electrical Engineering Applications



The Department of EEE, organized a five-day national workshop on "Artificial Intelligence in Electrical Engineering Applications" from 06.01.2020 to 10.01.2020 sponsored by AICTE Training and Learning (ATAL) Academy. Dr. K. Sankaranarayananasamy, director and Dr.Shalabh Bhatnagar, Professor and chair Dept. of Computer Science and Automation, IISc, Bangalore and G.Aghila, the Registrar(i/c) presided over the inauguration function. The workshop was graced by six experts from various institutions of Higher learning and R & D organizations. Delegates from different states across India, registered and gained from the workshop. The workshop was well organized by Dr. S. Thangavel, Associate Professor and Head, Department of Electrical Engineering.

## A 5-days Faculty Development Programme on Recent Advances in Mechanical Engineering



The Department of Mechanical Engineering, organized a 5-days Faculty Development Programme between 24<sup>th</sup> and 28<sup>th</sup> June 2019 covering recent advances in Natural Fiber Composites, Applications of Solar Energy, Gear Design, Industrial Safety, Robotics and Automation, Theoretical and Experimental Fluid Mechanics, Artificial Intelligence, and Developments in the Materials. The Chief Guest and Director Prof.K.Sankaranarayanan, presided over the inauguration. The convener, Dr. N.Sendhil Kumar and the Coordinators: Dr.N.M.Sivaram, Dr.M.V.A.Raju Bahubalendruni, Dr.Johnney Mertens, Dr.Vadivukkarasan and Dr.Narendran Rajagopalan coordinated the necessary arrangements for FDP-RAM 2019. Delegates from different states across India participated in the workshop.

## Family Get-together function for Faculty and Staff



The faculty and staff of the Institute along with their respective families joined together to celebrate New year eve on 31<sup>st</sup> December 2019. This was the first family get-together organized in the history of NITPY. The children had a gala time with painting, cultural shows and games.

## Career Guidance Program by NITPY Rotaract Club



The Rotaract club established in the Institute, under the leadership of Mr. Mukul, president, Rotaract club, NITPY and guidance of Dr. Narendran Rajagopalan, faculty-advisor, visited government schools to give career guidance to the school children and also distributed stationeries among the underprivileged students. They also guided about Navodaya Entrance Examination and its preparation.

## Placement Activities



Many technical companies visited our campus for placements in the academic year 2018-2019 starting in the month of July 2018 with the arrival of CodeNation. Following suit were big corporates and startups, Agilisium Consulting, Inatech, Virtusa, Mu Sigma, L& T Engineering and Constructions, Tejas Networks Limited, L & T Infotech, Byju's, Mphasis, Jaro education, Intellect design, Samsung R&D, Technoforte Software, Global Logic, Raam Group, Logic Fruit, Valued Epistemics, Arris, JSW Steels, Wafer Space Semiconductor Technologies, SAP Labs, Optum, Z S Associates, Alcatel Lucent Enterprise, IVL Infoview, MBIT Wireless, ABB India Limited, Lakshya Educare, among others. For the academic session 2018-19, a total of 71 offers were received by the students out of the 81 eligible. The maximum CTC of 10 Lakhs per annum was bagged by the students. The average CTC was around 6 Lakhs per Annum. The placement cell headed by Dr. Narendran Rajagopalan with Ms. Mahalakshmi as office assistant and student coordinators is striving towards the goal of 100 percent placement for the students.

## 18<sup>th</sup> Senate Meeting

NIT Puducherry held the 18<sup>th</sup> senate meeting on 9<sup>th</sup> December 2019 and approved the results of odd semester 2019-2020. The senate also approved the intake increase in under-graduate programs, for admissions through Study in India initiative. Admission to M.Tech programs for armed service officers under post graduate training programme was also approved in the senate. Dr. Boopathirani and Dr. B. Surendiran, Associate Deans-Academic, organized the meeting.

### Faculty Accomplishments

- *Narendran Rajagopalan*, Head, Department of Computer Science and Engineering, was invited for a guest lecture on "Latest developments in Information/Data science and engineering and protection of the same relevant to Industrial environment", on the observance of Information Security Day, at ONGC, Karaikal.
- *Narendran Rajagopalan*, Head, Department of Computer Science and Engineering, delivered guest lecture on "Advances in Operating Systems", at Amazon Corporate Office, Chennai.
- *Narendran Rajagopalan*, Head, Department of Computer Science and Engineering, delivered a guest lecture on Soft Computing at Anjalai Ammal Mahalingam Engineering College, Kovilveni, Thiruvavur on 27<sup>th</sup> July 2019.
- *Dr. N. Sendhil Kumar*, Head, Department of Mechanical Engineering was invited in Bilateral Indo-German workshop on 17<sup>th</sup> -18<sup>th</sup> October 2019 at Institute of Solar Energy, German Aerospace Center, Cologne, Germany [Deutschen Zentrums für Luft- und Raumfahrt (DLR), Enivhab, Building #10, Linder Hoehe, 51147 Cologne] and shared his research ideas on Solar Energy Research at NIT Puducherry.
- *Dr. N. Sendhil Kumar*, Head, Department of Mechanical Engineering delivered a talk on Basics of Solar Energy on 20<sup>th</sup> September 2019, Government College of Engineering, Salem, Tamil Nadu.
- *Dr. N. Sendhil Kumar*, Head, Department of Mechanical Engineering delivered a talk on Solar Thermal Concentrators in SPARC Workshop, "Recent Technologies on Waste to Energy Conversion", on 5<sup>th</sup> December 2019, NIT Trichy, Tamil Nadu.
- *Dr. N. Sendhil Kumar*, Head, Department of Mechanical Engineering delivered a talk on Renewable Energy Technologies on 7<sup>th</sup> January 2020, at Karaikal Polytechnic, Varichikudy, Karaikal.
- *Dr. N. Sendhil Kumar*, Head, Department of Mechanical Engineering has received BRICS Project , Under BRICS STI Co- operation (BRICS 2019 -154 Carbon dioxide): Project entitled "Life cycle assessment of CO2 reduction by energy efficient hybrid biomass pyrolysis and gasification" as a Co-Principal Investigator with a project cost of Rs.49,96,800.00
- *Dr. Amrith Bhide*, Assistant Professor, Department of Physics, received a grant Rs.12,00,000.00 under the scheme UGC\_DAE- CSR, IGCAR Kalpakkam as Nodal Center for project entitled "Cathode materials for Sodium Ion battery system".
- *Dr. V.Govindharaj*, Assistant Professor, Department of Mathematics, delivered a lecture on "Mathematical Control and Numerics", at National Workshop on Dynamical Systems with MATLAB and its Computations on 10<sup>th</sup> January 2020, Alagappa University, Karaikudi.
- *Dr. Boopathirani.R*, Assistant Professor, Department of ECE, acted as resource person for AICTE Sponsored Short Term Training Programme on "Design, fabrication and testing of Antennas and Design issues in Modern Antennas" at Sri Ramakrishna Institute of Technology, Coimbatore, by delivering lecture on "Matching Techniques and Antenna Synthesis" on 5<sup>th</sup> November 2019.
- *Dr. Boopathirani.R*, Assistant Professor, Department of ECE, acted as resource person for Anna University Sponsored Six days FDTP on "EC 8651 - Transmission Lines and RF Systems" at P S G Institute of Technology and Applied Research, Coimbatore by delivering lecture on "Unit - 4 - Guided Wave Propagation, Waveguides, Types" on 4<sup>th</sup> November 2019.
- *Dr. Boopathirani.R*, Assistant Professor, Department of ECE, acted as resource person for ATAL Academy (AICTE) Sponsored Five day National Workshop on "Artificial Intelligence in Electrical Engineering Applications" at NIT Puducherry by delivering lecture on "Artificial Intelligence in Electrical Engineering Applications" on 10<sup>th</sup> January 2020.
- *Dr. B.Surendiran*, Assistant Professor, Department of CSE delivered a guest lecture on 30<sup>th</sup> November 2019 at Sri Krishna college of engineering and technology, Coimbatore for "AICTE Sponsored Two weeks Faculty Development Programme on Deep Learning and Computational Intelligence in Bioinformatics".
- *Dr. B.Surendiran*, Assistant Professor, Department of CSE, acted as as resource person for CSIR sponsored seminar on Recent Trends in Cognitive Machine Learning during 29-30 August 2019 at Karpagam College of Engineering, Coimbatore and



delivered guest lecture on "Dimensionality reduction of mammogram masses using Geometric shape and margin features"

## **Students Accomplishments**

- *K.Srinivasarao* Department of ECE, attended the MATLAB Project Course on Design and Performance Analysis of 5G Wireless Systems: mmWave, Massive MIMO, NOMA, FBMC, Full Duplex and IoT at IIT Kanpur from 13<sup>th</sup> to 19<sup>th</sup> November 2019.
- *E.Poonguzhali* Research Scholar, Department of ECE, attended the Pre-workshop on " Machine learning, Deep learning, and Computational Intelligence for Wireless Communications", National Institute of Technology Tiruchirapalli, from 16<sup>th</sup> to 20<sup>th</sup> September 2019.
- *D.Vijayalakshmi* Research Scholar, Department of ECE, attended the Pre-workshop on "Machine learning, Deep learning and Computational Intelligence for Wireless Communication", held at National Institute of Technology Tiruchirapalli, from 16<sup>th</sup> to 20<sup>th</sup> September 2019.
- *Mithun Kumar kar* Research Scholar, Department of ECE, attended the national level seminar on (under Ministry of MSME, Govt. of India) " Artificial Intelligence and Machine Learning", conducted by Central Tool Room and Training Centre, Bhubaneswar, on 8<sup>th</sup> Nov 2019.
- *G.Rohith* Research Scholar, Department of ECE, attended the workshop on "MATLAB for Image processing, computer vision and Deep Learning", held at Coimbatore Institute of Technology, from 06<sup>th</sup> to 12<sup>th</sup> July 2019.
- *G.Rohith* Research Scholar, Department of ECE, attended the Tutorial session with hands on training on "Machine learning" held at Indian Institute of Technology Bombay, on 26<sup>th</sup> July 2019.
- *G.Rohith* Research Scholar, Department of ECE, presented a paper in the IEEE Bombay Section Signature Conference-IBSSC held at Indian Institute of Technology Bombay, on 27<sup>th</sup> July 2019.
- *G.Rohith* Research Scholar, Department of ECE, attended a NPTEL Online certification course on "Introduction to Learning analytics".
- *D. Vijayalakshmi* Research Scholar, Department of ECE, awarded Silver medal for the NPTEL certification program on "Pattern Recognition and applications", during July-October 2019.
- *Nettimi Satya Sai Srinivas* Research Associate, Department of ECE, achieved Elite + Silver Medal Certification and secured a position in top 5 Percent of exam toppers, for NPTEL Online Certification Course on "Python for Data Science", held during November 2019.
- *Nettimi Satya Sai Srinivas* Research Associate, Department of ECE, achieved Elite + Silver Medal Certification and secured a position in top 5 percent of exam toppers, for NPTEL Online Certification Course on "Patent Drafting for Beginners", held during September 2019.
- *G.Rohith* Research Scholar, Department of ECE, awarded a silver medal for NPTEL Online Certification course on "Remote Sensing and Digital Image Processing of Satellite Data" held during August - October 2019.
- *G.Rohith* Research Scholar, Department of ECE, awarded a silver medal for NPTEL Online Certification course on "Pattern Recognition and Applications" held during July - October 2019.
- *Packia Antony Amalan*. A Research Scholar, Department of Mechanical Engineering, attended one day workshop, "Awareness Programme on Intellectual Property Rights (IPR)", organized by IPR Cell NIT Puducherry.
- *Mr. Venkatraman*, Department of CSE, defended his Ph.D viva voce on 14<sup>th</sup> November 2019, on the topic "Hybrid Intrusion Detection Systems for Smart Environments".

## **Conference Publications**

- *U.Padmavathi, Narendran Rajagopalan*. "Pharmaceutical Cold Chain using Blockchain 3.0", International Conference on Multidisciplinary Innovations and Research, (ICMIR-2019) on 23<sup>rd</sup> and 24<sup>th</sup> November 2019 at Kuala Lumpur, Malaysia.
- *Chidanandhan.V, Rajershi Gupta, Narendran Rajagopalan*. "A novel Proposal on applying Flow Aware Congestion Estimation to Collaborative Caching in Content Centric Networks", International Conference on Intelligent Computing and Smart Communication Technologies (ICSCT—2019) on 26th-27th July 2019 at Anurag Group of Institutions, Hyderabad.
- *Lenin Solomon.A, Narendran Rajagopalan*. "Performance Analysis of Various Cryptographic Techniques", International Conference on Automation, Signal Processing, Instrumentation and Control (ICASIC -2020), Vellore, India.

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## Editorial Team



*We take immense pleasure and consider it our proud privilege to work for this successive issue of the Newsletter from the NIT Puducherry's editorial board. We are humbled for having been entrusted with the responsibility to duly plan and bring out this Newsletter. We take this opportunity to express our sincere gratitude to the honourable Director for his endearing encouragement and support. We would like to thank all the HODs, the faculty and staff for providing us with the necessary information and timely help as and when required.*

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"Imagination is more important than knowledge. For knowledge is limited, whereas imagination embraces the entire world, stimulating progress, giving birth to evolution."

- Albert Einstein