

VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Thindal, Erode -638012

Accredited by NAAC with 'A' Grade

DEPARTMENT OF INFORMATION TECHNOLOGY

Accredited by NBA

DEPARTMENT NEWSLETTER- VIRTUE

Academic Year-2018-19

Vision of the Institute

To provide a wide range of Academic and Research Programmes and strive to develop a Centre of Excellence for Learning

Mission of the Institute

M1: To impart essential knowledge to the students through quality education, training and research activities.

M2: To inculcate the students with Societal Awareness, Professional Ethics and Leadership Qualities.

M3: To mould the students as high quality Engineers, Technocrats, Scientists, Administrators and Entrepreneurs.

Vision of the Department

To provide technological excellence in learning in the field of Information Technology and promote academic and research activities.

Mission of the Department

M1: Attain technological excellence through quality education and well-designed curriculum adaptable to technological needs.

M2: Facilitate value added courses and interdisciplinary training to provide highly competent IT professionals and entrepreneurs.

M3: Produce socially aware and ethically responsible engineers through human value education.

M4: Impart collaborative research through academic projects and industry institute interactions.

MESSAGE FROM HOD

I am pleased to know that the department of Information Technology is releasing the second issue of newsletter for the academic year 2018-19. This issue highlights the skill and creativity of the young and energetic information technologists. It provides a panoramic view of the academic, research, co-curricular activities and achievements of the department during an academic year.

To impart technical educational and training of exemplary academic standards to our students is our vision. The Information Technology department has a rich tradition of pursuing academic excellence and providing congenial environment for the overall development of the student. I feel confident that the department is progressing in the right direction and I congratulate all the faculties and staffs for their hard work and whole-hearted efforts to make the department the choicest destination for aspiring IT engineers.



- Dr. V. K. Manavalasundaram

PEO's of the Department:

The Program Educational Objectives of the Information Technology Program is listed below:

PEO 1 – **Preparation:** Excel in post graduate studies and career.

PEO 2 - **Core Competence:** Solve problems using the engineering fundamentals.

PEO 3 - **Professional Environment :** Have engineering breadth to achieve solutions for the needs of society.

PEO 4 – **Multidisciplinary:** Develop professional and ethical values, effective communication, team work and managerial skills for societal and environmental contexts.

PEO 5 - **Learning Environment:** Attain professional competence through lifelong learning.

PROGRAMME OUTCOMES:

Engineering Graduates will be able to:

- PO 1 - **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2 - **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO 3 - **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO 4 - **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO 5 - **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 6 - **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO 7 - **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO 8 - **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 - **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10 - **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO 11 - **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO 12 - **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOME:

- PSO 1 - Apply technical concepts and practices in information technology and effectively integrate IT-based solutions into the user environment.
- PSO 2 - Practice as an ethical software engineer in the evolving discipline of Information Technology by employing management skills learnt through internships and multidisciplinary projects.

ASSOCIATION ACTIVITIES

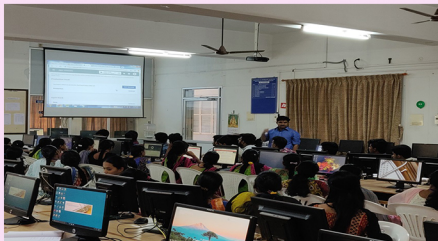
MOU SIGNING INAUGURAL WITH NEOPHRON TECHNOLOGIES

The Neophron Technologies signed an MOU with VCET in the presence of Chief Guest Mr. S. Elangathir, CEO, Neophron Technologies on 19.12.2019. He has addressed the gathering through his motivational speech and Ms. Prema Pandiyan, Project Manager, Neophron Technologies delivered the speech on 'Recent Trends in IT'.



WORKSHOP

A workshop on 'Cloud Computing' was organized for third year students on 07.01.2019. The session was presided by Mr. Robert Kingsly, Project Associate, IIT-Madras. He trained the students on AWS and shared his knowledge on Cloud Computing.



A workshop on 'Mobile Application Development' was conducted on 13.02.2019 for the benefit of the third year students. Mr. Boopathi Kumar, Training Trains, Coimbatore gave training to students on Android app development and also shared the importance of application development in industries.

INTRA-DEPARTMENT MEET'19

An Intra Department Meet was organized on 12.01.2019. All the students participated in the events like Paper presentation, Multimedia, Minute to win it and Tech Oreo.



SEMINAR



A seminar on 'IoT' was organized on 06.02.2019 for the second and third year students. Mr. R. Anbarasan, Project Development Engineer, Crescent Info Tech Pvt. Ltd. was the resource person and handled the sessions.

GUEST LECTURE

A Guest Lecture on 'NoSQL Databases' was organized on 15.02.2019. Ms. I. Metildha Mary, Assistant Professor, Sri Ramakrishna Engineering College, Coimbatore. She enriched the students' knowledge by sharing her views on NoSQL Databases.



A Guest Lecture on 'Bug Bounty Hunter methodology' was organized on 21.03.2019 for the third year students. Mr. P. Dhamodharan, Lead Infrastructure Security Engineering, ICICI bank, Mumbai was the resource person and handled the sessions.



VALEDICTORY

The valedictory function of the Students' Association 'INFOAUXANO' was conducted on 25.03.2019. The student secretary Ms. N. Prakathy, Final - IT presented the annual report.

NATIONAL CONFERENCE

The 11th National Level Conference on 'Trends in Engineering' was organized on 02.03.2019. Mr. S. Karthikeyan, DGM, JSW Energy Ltd., Bellary, Karnataka inaugurated the conference and delivered the keynote address. Students from various engineering colleges presented their papers and won the prizes.

PROJECT EXPO

The Project Expo 2019 on Engineering Innovations was organized on 02.03. 2019. Mr. S. Karthikeyan, DGM, JSW Energy Ltd., Bellary, Karnataka inaugurated. Students were rewarded with cash prizes and appreciable prizes along with certificates.

PLACEMENT ACTIVITIES

- Meena Gowri V. G got placed in CTS, Chennai.
- Sandhiya M got placed in Mphasis, Bangalore.
- Parthipan V got placed in NDOT Technologies, Coimbatore.
- Niveda S P got placed in Excelacom Technologies, Chennai.
- 16 students got placed in Focus Edumatics, Coimbatore.
- 8 students got placed in Hexaware BPO, Chennai.
- 4 students got placed in Accenta Training, Thrissur.
- 4 students got placed in Tech Mahindra(BPO), Chennai.
- 2 students got placed in Suresoft, Puducherry.

*“Whenever you are asked if you can do a job, Tell them,
‘Certainly I can!’ Then get busy and find out how to do it.”*

- Theodore Roosevelt

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FACULTY ACTIVITIES

CONFERENCE / WORKSHOP / SEMINAR / FDP

WORKSHOP

- Dr. P. M. ArunKumar, attended a workshop on ‘Machine Learning and Deep Learning’ at Anna University, Chennai on 08.2.2019 & 09.02.2019.
- Ms. S. Suganya, Ms. R. Maheshwari and Ms. S. Kiruba attended a workshop on ‘Enterprise FULL Stack Development using AngularJS, Spring and MongoDB’ at Dr.Mahalingam College of Engineering and Technology, Pollachi on 15.02.2019 & 16.02.2019.

SEMINAR

- Dr. V. K. Manavalasundaram, Ms. T. Premamala, Ms. M. Kavitha, Ms. M. Shanthamani, R. Maheshwari, Ms. L. Viji, Ms. P. Prema and Ms. V. Gomathi attended a seminar on ‘Applications of Mathematics in Cryptography and Information Security’ at VCET on 22.03.2019.
- Dr. V. K. Manavalasundaram, Dr. P. M. Arunkumar, Ms. M. Kavitha, Ms. V. Leela, Ms. P. Prema and Ms. R. Menaka attended a seminar on Recent Developments in Smart Farming based on IoT and Robotics

FACULTY DEVELOPMENT PROGRAMME

- Ms. V. Gomathi and Ms. P. Prema attended the Faculty Development Programme on ‘Introduction to R Programming’ conducted by ICT Academy on 21.11.2018 and 28.11.2018 at Velalar College of Engineering and Technology, Erode.
- Dr. V. K. Manavalasundaram and Dr. G. Rajeshkumar attended the NPTEL-AICTE Faculty Development Programme on ‘Outcome based Pedagogic Principles for Effective Teaching’ from August –

LECTURES / KEY NOTE ADDRESS / CONFERENCE

CONFERENCE PRESENTED

- Ms. R. Menaka presented a paper on ‘A Non-Adjacent Form (NAF) based ECC for Scalar Multiplication that assure Computation Reduction on Outsourcing’ in the International Conference held at Vaigai College of Engineering, Madurai on 20.12.2019.

The following faculty members presented paper in the International Conference ‘Advances in Science, Engineering and Management 2k19’ organized by Jai Shriram Engineering College, Tirupur on 07.03.2019.

- Dr. V. K. Manavalasundaram, ‘Recognizing and preventing users from attacks’
- Dr. G. Rajeshkumar, ‘PreBoot Execution Environment Using FOG Server’.
- Dr. P. M. Arun Kumar, ‘Agro Marketing’.
- Ms. R. Mynavathi, ‘An Android Based Application for MyCity App’.
- Ms. M. Shanthamani, ‘Segmentation of Brain for Tumor Detection using Image Processing’.
- Ms. S. Viveka, ‘Internet Traffic Monitoring with Robust Execution of Packet Flow in Routers to Prevent DDOS Attack using Trace Back’
- Ms. V. Leela, ‘Prediction of Crop Yield using Support Vector Machine and Naïve Bayes Algorithm’.
- Ms. L. Viji, ‘Home Robotization using ATmega16 microcontroller’.
- Ms. R. Maheshwari, ‘Efficient Multi User Minimum Path Pair Algorithm for Finding Shortest Path in Road Networks’.

The following faculty members presented paper in the International Conference ‘Information Sciences and Renewable Energy Sources’ organized by Selvam College of Technology, Namakkal on 07.03.2019 and 08.03.2019.

- Dr. G. Rajesh Kumar, ‘IoT Based Home Security System Using Raspberry Pi with Email Alert’
- Ms. R. Menaka, ‘Resource Management in Cloud Environment using GA’.
- Ms. T. Premamala, ‘Automatic Traffic Control Systems for Emergency Ambulance using IoT’.
- Ms. R. Mynavathi, ‘An Android Based Application for MyCity App’.
- Ms. S. Suganya, ‘Crime Detection using ID3’.
- Ms. S. Kiruba, ‘Android Based Traffic Police Penalty Collection System’.
- Ms. P.Prema, ‘Heterogeneous Pattern Mining using E-OPARM Algorithm for Transactions’.

The following faculty members presented paper in the International Conference ‘Emerging Trends in Wireless Communications, Signal Processing and Networking’ organized by Avinashilingam College of Engineering and Technology on 08.03.2019.

- Ms. T. Nithya, ‘Trust based Privacy Policy Inference of User-Uploaded Content’.
- Ms. M. Kavitha, ‘Monitoring and Prevention of Stealthy DDoS Attacks using Cloud Computing’

NPTEL ONLINE CERTIFICATION

The following faculties have completed NPTEL Online Certification courses.

- Dr. V. K. Manavalasundaram and Dr. G. Rajeshkumar, ‘Outcome based Pedagogic Principles for Effective Teaching’.
- Dr. P. M. Arun Kumar, ‘Cognition, Transformation and Lives’.
- Ms. T. Nithya and Ms. R. Maheshwari, ‘Programming Data Structures and Algorithms using Python’.
- Ms. S. Suganya, ‘Programming in C++’.
- Ms. T. Nithya, Ms. R. Maheshwari and Ms. S. Kiruba, ‘Effective Engineering Teaching in Practice’.

AWARDS

- Dr. G. Rajeshkumar, Dr. P. M. Arun Kumar and Ms. R. Maheshwari secured ‘Elite’ in NPTEL Online certification examinations conducted during October- 2018
- Ms. R. Maheshwari secured ‘Gold+Elite’ in the NPTEL Online certification examinations conducted during March-2019.
- Ms. T. Nithya and Ms. S. Kiruba secured ‘Silver+Elite’ in the NPTEL Online certification examinations conducted during March-2019.

JOURNAL PUBLICATIONS

- Ms. Viji L, ‘Home Robotization System using ATmega16 Microcontroller’, International Journal of Innovative Research in Science, Engineering and Technology, ISSN 2347-6710, Vol 8, Issue 3, March 2019.
- Ms. Viji L, ‘Fast Retrieval of Information in Tree Structured Network’, Journal of Emerging Technologies and Innovative Research, ISSN 2349 – 5162, Vol 5, Issue 12, December 2018.

BOOK PUBLICATIONS

Dr. G. Rajeshkumar published a book ‘Design and Analysis of Algorithms’ by Charulatha publications, Chennai 2019 ISBN 978-93-88335-56-0.

STUDENT ACTIVITIES

- 25 students participated in technical and non technical events conducted by various institutions.
- 96 students participated in workshops conducted by various institutions.

NPTEL ONLINE CERTIFICATION

- 42 students completed the NPTEL online course on 'Social Networks'.
- 8 students completed the NPTEL online course on 'Introduction to Internet of Things'.
- 5 students completed the NPTEL online course on 'Programming and Data structures using Python'.

AWARDS

- S. Deepika, S. Gowtham, S. Kamali, G. Karthika, P. Kavipriya, S. Madhupriya, R. Suganya and K.Sugashini (III-IT) secured 'Elite+Gold' in the NPTEL Online certification examinations conducted during March-2019.
- M. Ragasriswathi (III-IT-B) secured 'Elite+Silver' in the NPTEL Online certification examinations conducted during March-2019.
- M. Yuvashree and R. Swarnalashmi of third year won the first prize in the paper presentation event conducted by KSR College of Engineering, Tiruchengode.
- K. S. Shuvakruhi of second year won the second prize in the paper presentation event conducted by M. P. Nachimuthu M. Jaganathan Engineering College, Chennimalai.
- M. Moulidharan of second year participated in 'Photography Contest' conducted by other colleges and won the following prizes.
 - o First prize in 'Photography' Event conducted by Kongu Engineering College, Perundurai on 16.03.2019.
 - o First prize in 'Mobile Photography' event conducted by Karpagam College of Engineering, Coimbatore on 14.03.2019 & 15.03.2019.
 - o First prize in 'Snake Pic' event conducted by Nandha Engineering College, Erode on 20.02.2019.
 - o Second prize in 'Freeze Me' event conducted by Kongu Engineering College, Perundurai on 27.02.2019.
- A. Simal Ahamed of second year won the first prize in 'Freeze Me' and 'Photography' event conducted by Kongu Engineering College, Perundurai on 27.02.2019.
- M. Vignesh of second year won the second prize in 'Shutter Shot' event conducted by Nandha Engineering College, Erode on 20.02.2019.

The following students participated in paper presentation event conducted at velalar college of Engineering and Technology on 12.02.2019 and received prizes.

- o K. Sowmiya and M.Yuvashree (III-IT-B), 'I-Twin', First Prize.
- o S.T.Poorani and P. Nandhini Devi (III-IT-B), 'Bitcoin: Blockchain Technology', First Prize.
- o D.Sangeethapriya and G.Saranya (II-IT-B), '5G Technology', Second Prize.
- o S. Kaviya (II-IT-A), 'Machine Learning', Second Prize.
- P. Jeevasri and G. B. Indhuja (IV-IT-A) won the first prize in Multimedia Presentation Event in the Intra-Department Meet on 12.01.2019 at VCET.
- P. Nandhini Devi (III-IT-B) won the second prize in Multimedia Presentation Event in the Intra-Department Meet on 12.01.2019 at VCET.
- M. J. Roobine (II-IT-B) won second prize in the paper presentation event conducted by M P N M J Engineering College, Chennimalai on 16.02.2019.

- K. Sabari Sree and M. J. Roobine (II-IT-B) presented a paper entitled 'Internet of Things' and won second prize in the paper presentation event conducted by SNS College of Technology, Coimbatore on 27.02.2019 and 28.02.2019.
- V. Parthiban and D. Arputha Selvathangaraj (IV-IT-B) won first prize for the project 'An Android based Application for My City App' in the Project Expo held on 02.03.2019.
- B. Tharachandar, R. Nandha and N.G. Naveenkumar (II-IT-B) won second prize for the project 'Gaming Project' in the Project Expo held on 02.03.2019.
- S. Khavya, K. Kaviya and M. Malarvizhi (II-IT-A) won third prize for the project 'Window Based Application' in the Project Expo held on 02.03.2019.

PAPER PRESENTATION

The following students participated in the paper presentation event conducted by various institutions

- C. Aniruth, J. G. Aswinraj, B. Dineshraj, S. M. Koushik, R. Logesan, M. Moulidharan and V. R. M. Gokul, MIT College, Chennai on 01.02.2019
- P. Dilipkumar, D. Diloj and S. Indumathipriya, Muthayammal College of Engineering, Namakkal on 15.02.2019
- P. Dilipkumar and S. Sowmiya, Karpagam College of Engineering, Coimbatore on 15.03.2019.
- K. Sowmya and M. Yuvashree, Karpagam Academy of Higher Education, Coimbatore on 19.02.2019.
- T. S. Keerthana, G. Madhumitha, M.J. Robinee and K.S. Shuvakruhi, M.P. Natchimuthu M.Jaganathan Engineering College on 16.02.2019.
- N. Prakathy, M.P. Natchimuthu M.Jaganathan Engineering College, Chennimalai on 16.02.2019.
- V. Poongodi, P. Shobana and V. Thiriveni, 'Artificial Intelligence', Dr.N.G.P Institute of Technology, Coimbatore on 02.02.2019
- V. Shree Dhasiya, 'Biometric Fingerprint', Dr.N.G.P Institute of Technology, Coimbatore on 02.02.2019
- E. T. Soniya, Excel College of Engineering and Technology, Namakkal on 07.02.2019.
- G. P. Sudha, 'Blockchain Technology', SNS College of Engineering, Coimbatore on 27.02.2019.
- M. J. Roobinee 'Internet of Things', SNS College of Engineering, Coimbatore on 27.02.2019.
- M. Kavya, Rathinam Group of Institutions, Coimbatore on 07.03.2019.
- R. Praveen, 'Brain Computer Interface', Kongu Engineering College, Perundurai on 12.09.2019.
- S. Shobana and C. Shreedharshini, Excel Engineering College, Namakkal on 16.02.2019.

WORKSHOP

- K. SabariSree, A. Sandiya, P. Shobana, G.P.Sudha and K. Swathi attended a workshop on '3D Animation and Modelling' at SNS College of Technology, Coimbatore on 04.01.2019 & 05.01.2019.
- V. Nimisha, R. Nandha, S. Prithakumari, R. PriyaDharshini, S. Saranya, V. Shree Dhasiya, R. Sindu, R.Sri Varshini, K. Kaviya, M. Malarvizhi, S. Kaviya, G. Devika, J. Janani and P. Komala, 'Android', attended a workshop at Uniq Technology.
- B. Praveen Kumar (06.01.2000), K. Rashmiha, P. Rohini, K. Vaishali and K. Vishnu Priya attended a workshop on 'Bigdata' at Codebind Technologies, Coimbatore on 18.02.2019.
- M. Sindhia, V. K.Poovizhi, S.Srinidhi, P. V. Kaviyadurga, K. P. Janani and P. KaviPriya attended a workshop on 'Bigdata' at Kumarasamy college of Engineering, Coimbatore on 09.02.2019.
- S. Srinidhi, M. Sindhia, V. K. Poovizhi, C. Pavithra, D. Soniya, K. Sowmya and R. Sowmiya attended a workshop on 'Blockchain' at PSG College of Technology, Coimbatore on 12.02.2019.

- N. Kokilavani attended a workshop on ‘Cloud Computing’ at Codebind Technologies, Coimbatore on 12.12.2018.
- B. Praveen Kumar, S. Praveen Kumar, S. Ravi Kumar, V. S. Selva Kumar, M. Yuvashree and K. Sowmya attended a workshop on ‘Data Analytics’, K.S.R. College of Technology, Namakkal.
- R. Swarnalashmi attended a workshop on ‘Data Analytics using Python’ at Kongu Engineering College, Perundurai on 23.02.2019.
- N. Kokilavani and K. Mathunigha attended a workshop on ‘Deep Learning’ at P.S.G. College of HiTech, Coimbatore on 13.02.2019.
- S. Nandhini Sri, R. Sanjana, K. Vishnu Priya and M. Yuvashree attended a workshop on ‘Embedded System’ at PSG Institute of Technology & Applied Research, Coimbatore on 12.02.2019 and 13.02.2019.
- A. Susai Prakash attended a workshop on ‘Internet of Things’ at AL-AMEEN Engineering College, Erode on 13.03.2019.
- P. Shobana, V. Shree Dhasiya and V. Thiriveni attended a workshop on ‘Internet of Things’ at Karpagam College of Engineering, Coimbatore on 14.03.2019.
- R. Priya Dharshini, N. Priyamathi, S. Sabeena, R. Sindu, S. Sowmiya, R. Sri Varshini, R. Sowmya, K. Nivedhitha Bai and U. Hazarama attended a workshop on ‘Internet of Things’ at Kongu Engineering College, Perundurai on 12.03.2019.
- M. Abitha attended a workshop on ‘IOT’ at CIT College, Coimbatore on 09.02.2019.
- S. Haripriya attended a workshop on ‘IoT using Python’ at K.S. Rangasamy College of Engineering, Tiruchengode on 27.02.2019
- R. Sowmya and S. Mehanaz Begum attended a workshop on ‘Lab View for Engineering Applications’ at Info Institute of Engineering, Coimbatore on 14.02.2019 and 15.02.2019.
- M. Yuvashree, K. Sowmya, B. Dhimple, S. Deepika, S. Abi Clinda Mary, T. Kavya, R. Suganya and K. Sugashini, attended a workshop on ‘Machine Learning’ at KSR College of Technology, Tiruchengode on 16.02.2019.
- R. Keerthana and S. Mythili attended a workshop on ‘Machine Learning & Artificial Intelligence’ at KSR College of Technology, Tiruchengode on 07.02.2019.
- C. Aniruth, R. Logesan and M. Moulidharan attended a workshop on ‘Placement by Amazon Developers’ at MIT College, Chennai on 01.02.2019 and 02.02.2019.
- K. Pavithra, H. Shifa, R. Sri Varshini and K. Vishnu Priya attended a workshop on ‘Python’, Sona College of Technology, Salem on 15.02.2019.
- N. G. Naveen Kumar and B. Praveen Kumar (06.01.2000) attended a workshop on ‘Smart Grid using IoT’ at Government college of Engineering, Salem.
- M. Sudhakar, P. Praveen, N. Moulimanickam, S. Prasanna Kumar, S. Shobana and C. Shreedharshini attended a workshop on ‘Smart Grid and IOT: The Future of Power’ at Sri Ramakrishna Engineering College, Coimbatore on 15.02.2019.
- R. Jenanika attended a workshop on ‘Website Development on Joomla’ at Kongu Engineering College, Perundurai on 16.02.2019.

GUEST LECTURE

M. Madhumitha, G. B. Induja, N. Anandhasankari, S. Akalya, K. Karpagam, G. Karthika, S. Kamali, M. Kavya, S. Deepika, B. Divyathaila and G. Dharani (III-IT-A) attended a guest lecture on ‘Artificial Intelligence in Robotics’ at Bannari Amman Institute of Technology on 02.02.2019.

CONFERENCE

The following students presented paper in the International Conference 'Advances in Science, Engineering and Management 2k19' organized by Jai Shriram Engineering College on 07.03.2019.

- R.Abinaya, D.Dharshini and S.Jagatheeswarn, 'Home Robotization using ATmega16 Micro Controller'.
- S.Lavanya, S.Deepika and N.S.Dhanvarsha, 'AGRO-Marketing'.
- D.Arputha Selva Thangaraj, S.NandhiniKumari, P.Deepa and S.Anish Valanarasu, 'An Android based Application for My City App'
- S.Vaishnavi, S.Srisandhiya and V.Tharanitharan, 'Preboot Execution Environment using FOG server'
- K.Prasanth, C.Vinitha, P.Thivyalakshmi and S.Pavithra, 'Segmentation of Brain for Tumor Detection using Image Processing'
- Sumi Philip, P.Sivali, S.P.Niveda and S.Sumeha, 'Prediction of Crop Yield using SVM and Naive Bayes Algorithm'.
- N.Prakathy, M.Nandhini, and L.Pragathi, 'Internet Traffic Monitoring with Robust Execution to Prevent DDOS Attack'.
- V.Parthipan and T.Thangamani, 'Web Based Student Information Management System'

The following students presented paper in the International Conference 'Information Sciences and Renewable Energy Sources' organized by Selvam College of Technology on 07.03.2019 and 08.03.2019.

- S.Dhaarani, R.HariPriya, S.KarthikaShalini and L.Gowtham, 'Crime Detection using ID3'
- R.Abinaya(15BIT001), A.Devika and R.Indhumathi, 'Heterogeneous Pattern Mining (HTM) using E-ODARM Algorithm for Transactions'
- S.Arshitha Shree, A.FathimaShahina, S.Gowshik Kumar and J.Harsan, 'Motivating Human Enabled Mobile Participation to Access Data Offloading'
- S.R.Bhavadarani, S.Mahadevi, S.Kousalya and M.Anitha, 'Andriod Based Traffic Police Penalty Collection System'
- S.Keerthana and V.G.MeenaGowri, 'Efficient Sentiment Analysis Framework for Hashtag based Twitter Data'
- S.Bhairavi, B.P.Janani, P.Dharani and V.Gokulraj, 'Resource Management in Cloud Environment using Genetic Algorithm'
- M.HimaPriya, A.Deepa, J.Karthick, and S.Abirami, 'IoT based Home Security System using Raspberry Pi with Email Alert and Voice Alert'

The following students presented paper in the International Conference 'Emerging Trends in Wireless Communications, Signal Processing and Networking' organized by Avinashilingam College of Engineering and Technology on 08.03.2019.

- S.Srivarshini, N.Nasurudeen and S.Rajeshwari, 'Prevention and Monitoring of Stealthy DDOS attack in Cloud Computing'.
- V.Suganthi, M.Ramya and M.Sandhiya, 'Malignant Tumor Prediction using Machine Learning'
- C.Shangavi, R.LakshmiPraba and M.Yuvashree, 'Recognizing and Preventing User's from Clickjacking Attack'
- R.Santhosh, K.Nivedha and A.Santhiya, 'Trust Based Privacy Policy Inference of User Uploaded Contents'.

EXTRACURRICULAR ACTIVITIES

- V.Nimisha(II -IT B) participated in the 400mts-relay hosted by Rotaract Club of Velalar College of Engineering and Technology, Erode held on 03.02.2019.
- V.Nimisha(II-IT B) won 2nd place in the event Throwball held on 03.02.2019 hosted by Rotaract Club of Velalar College of Engineering and Technology, Erode held on 03.02.2019.
- M.J.Roobinee(II-IT B) won 1st place in the event Carrom (single) held on 03.02.2019 hosted by Rotaract Club of Velalar College of Engineering and Technology, Erode held on 03.02.2019

The following students participated and secured various prizes in the State Level Championship 2019 at S.S.M.LaksmiAmmal Matriculation Higher Sec School,Komarapalayam on 17.02.2019 organized byTamilnadu Youth & Sports Development Association

- V. Nimisha and K. R. Sowmiya (II-IT B), ‘Throwball’, First Prize.
- R. Nandha (II-IT B), ‘KHO-KHO’, First Prize.

VIRTUE-STUDENT MAGAZINE

VIRTUAL REALITY

Oculus Rift, a virtual reality technology that completely immerses us in a virtual world. It is a combination of the immersive power of rift with the magic of hand presence. Rift is unlike anything one have ever experienced. Whether one is stepping into your best-loved game, watching an immersive VR film or jumping to a desired location they feel like they are really there .



Rift's advanced display technology combined with its precise, low-latency constellation tracking system enables the sensation of presence – the feeling as though you're actually there. The magic of presence changes everything. It also supports and detects natural gestures and movements. Psychologists and other medical professionals are using VR to heighten traditional therapy methods and find effective solutions for treatments of PTSD, anxiety and social disorders. Doctors are employing VR to train medical students in surgery, treat patients' pains and even help paraplegics regain body functions. In business, a variety of industries are benefiting from VR. Car makers are creating safer vehicles, architects are constructing stronger buildings and even travel agencies are using it to simplify vacation planning. These environments enable members of the public to engage with the exhibits in ways which were previously forbidden or unknown. They wear virtual reality glasses with stereoscopic lenses which allow them to see 3D objects and at different angles. And in some cases they can interact with the exhibits by means of an input device such as a data glove. Telecommunications can be used to help virtual reality systems such as surgery simulation or telemedicine. An example of this is remote surgery in which images from that surgery can be transmitted to various locations around the world. It also enables surgery to be performed in remote locations using robotic technology and virtual reality. In every generation, there is a technology that defines them. For our parents, it was the internet. For us, it is the iPhone. For the next generation-our kids, grandkids -it will be virtual reality.

- S. Harini, III-IT-A

*“Anyone who has never made a
mistake has never tried anything new.”*

- Albert Einstein

MACHINE LEARNING: A CONTEMPORARY LEARNING

The level of advancement and achievement in science and technology is Machine Learning (ML) and its algorithm which is one of the applications of Artificial Intelligence (AI). ML algorithm is famous than non-ML algorithm because a non ML algorithm need data and program to get a output. But in ML algorithm, training data is given as input and the program will be its output. It's quite interesting right.

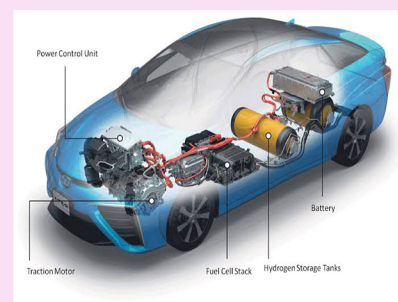


In ML, learning is the ability to improve the behavior (i.e. Model) based on experience. So in ML system, an experience/data is feed into a learner along with background knowledge of training data to synthesis a model. Models are borrowed from statistics and probability theory. When a task is give to ML system then reasoned will use the model to bring the output. More models are available in ML and these models are code up using Pyhton, R, Lisp, Prolog and Java.

- S. Khavya, II-IT-A

MIRAI

The Toyota Fuel Cell System used in Mirai produces electricity from a reaction between hydrogen and oxygen. one can fill up with hydrogen fuel, in the same way as one buy gasoline or diesel at a filling station. The fuel is contained in high-pressure tanks and fed into a fuel cell stack, where the hydrogen and the oxygen found naturally in the air react with each other and generate electricity.



As in a petrol-electric hybrid, the electricity is boosted in voltage to drive the electric motor. Further energy is captured in a battery every time the car brakes or slows down, which contributes to even better fuel economy. Decades of research and development in hybrid electric technology have helped the world to make a system with a power density of 3.1kW per litre.

- P. Nandhini Devi, Final - IT- B



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