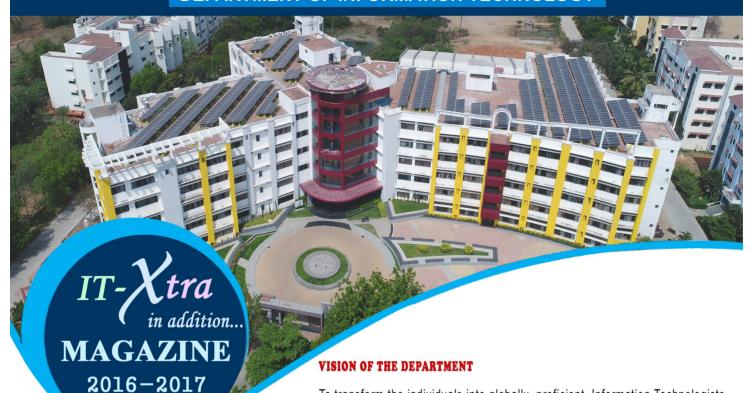


TITUTE OF TECHNOLOG Kalitheerthal kuppam, Puducherry – 605 107

DEPARTMENT OF INFORMATION TECHNOLOGY





Volume 5

To transform the individuals into globally proficient Information Technologists, to meet the challenges of the evolving society.

MISSION OF THE DEPARTMENT

M1: Higher Order Thinking: To provide quality education in both theoretical and practical aspects in the field of Information Technology.

M2: Competency: To equip the students to cater the industrial demands through providing advance training.

M3: Continuous Learning: To encourage and guide the students to participate in research oriented activities and pursue higher education.

M4: Entrepreneurship: To inculcate the spirit of entrepreneurship among students to serve the nation.









MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthal kuppam, Puducherry - 605 107

VISION OF THE INSTITUTION

To accomplish excellence in the field of technical education and scientific research on regional, national and international levels through committing to total quality for its faculty, providing excellent infrastructure, research facilities and conducive atmosphere that would motivate the students in the pursuit of knowledge in Engineering and Technology.

MISSION OF THE INSTITUTION

- To provide in depth knowledge in fundamentals to students to improve their learning and analytical skills.
- To provide our students with the most progressive, relevant and well rounded academic programs, supporting their learning through advanced and extensive resources.
- To promote interaction with industries and other institutes of higher learning to equip our students to face the challenges on real time problems.
- To develop the overall personality of the students to mould them into a good citizen with integrity and morality.



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Program Educational Objectives (PEOs)

- PEO1: Employability: Graduates apply the knowledge of computations, engineering and technology to pursue a good career in the Information Technology.
- PEO2: Higher Education: Graduates will participate in life long learning through the successful completion of advanced degrees, continuing education and other professional developments.
- PEO3: Entrepreneurship: Graduates will have the ability to exhibit their leadership quality and enable them to become an entrepreneur.
- PEO4: Ethics: Graduates cultivate professional and ethical attitudes with effective communication skills, team work and multi disciplinary approach related to engineering issues.

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Program Outcomes (POs)



- PO1: Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem analysis: Identify, formulate, research literature, and analyze complex substantiated conclusions using first principles engineering problems reaching of mathematics, natural sciences, and engineering sciences.
- PO3: 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.
- PO4: 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.
- PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PO6: 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.
- PO7: 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.
- PO8: 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.
- PO10: 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.
- PO11: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
- PO12: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.



Program Specific Outcomes (PSOs)



- PSO1: Products Development: Ability to apply mathemattical methodologies to solve computation task, Model real world problem using appropriate data structure and suitable algorithm.
- PSO2: Design Thinking: Ability to use knowledge in various domains to identify research gaps and solve complex problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.

One day Internal workshop on "Arduino Based Application Development" by Mr. K. Premkumar AP/IT with G. Karthick, Branch managar, Kalvi Institute, Puducherry, on 5th August 2016.



Workshop on" Testing of electronic devices" conducted by Mr. Raja on 20th September 2016.



Workshop on "MS office Automation" handled by our faculty Dr.P.Sivakumar, Mr. S.Uthayashangar on 21st September 2016.



One Day Workshop on "MEAN Stack Development Program" handled by Mr. Khuzema on 10th September 2016.



One Day Workshop on "Creating real time software Professionals" handled by Mr. Bhaskar Krishnamorthy Founder & CEO Cavintek Software Pvt Ltd on 8th October 2016



Skill development programme on" Laser printer trouble shooting and Refilling" Conducted by Mr. Raja on 22nd September 2016.



One Day Online Webinar on "Smart India Hackathon 2017" on 4th January 2017.



One Day workshop on "Cashless Transactions and Security Issues in Net Banking" handled by Ms.Jayabharathi on 20th January 2017.



One Day Android Application Development, Organized by SHAM Computing on 4th March 2017.

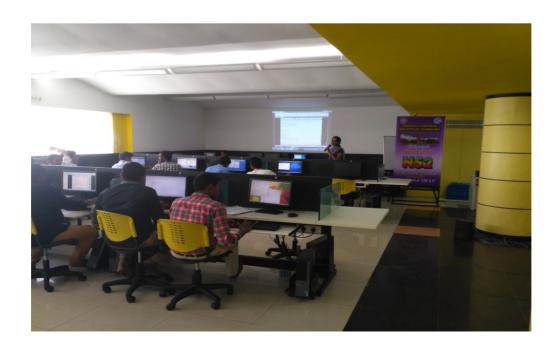


One day Workshop on "Mobile Application Development" was conducted by IT department on $4^{\rm th}$ March 2017. The session was handled by Mr. Mohan, Trainer, Shyam Info Tech.

One Day Workshop on "UML Diagram" by Mr.Purushothaman on 24th February 2017.

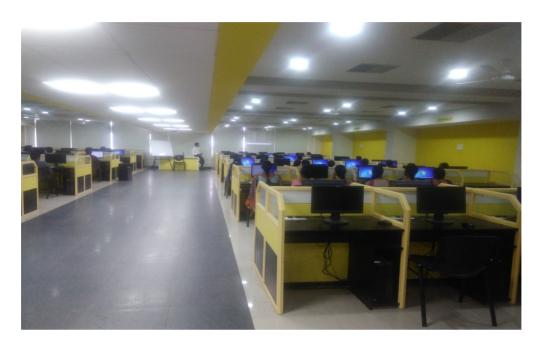


One day workshop on Open Source Simulator – NS2, Handled by Ms. Anjali, SAT Infosys, Coimbatore on 27^{th} - 28^{th} February 2017



VALUE ADDED COURSES

Three Days training Program on ICTACT- Big Data analytics, handled by Mr. Hari Prasath on 02.02.17 to 04.02.17



Three Days Training Program on Cloud Computing, handled by Mr. Karthi on 02.02.17 to 04.02.17



GUEST LECTURES

Guest Lecture On "Context Free Language and Pushdown Automata" handled by Dr.S.Lakshmanapandian on 23rd August 2016.



Guest Lecture on "Web and Graphics Design" by Mr.RajMohan on 8th July 2016.



GUEST LECTURES

Guest lecture on "Communication Skill Development" by Mr. Datchanamoorthy on 9th July 2016.



Guest lecture on "Ethical Hacking" handled by Mr.Sriram on 13th July 2016.



GUEST LECTURES

Guest Lecture on "Keep IT up" by Dr. Sairam Sundaram on 23rd July 2016.



Skill development programme on" Laser printer trouble shooting and Refilling" Conducted by Mr. Raja on 22nd September 2016.



SEMINAR

Seminar on "Importance of Communication in Career Development" by Mr. Bennet Jay Ragland on 20th July 2016.



Seminar on "Awareness program on Big Data" by Ms. Priya on 21th July 2016.

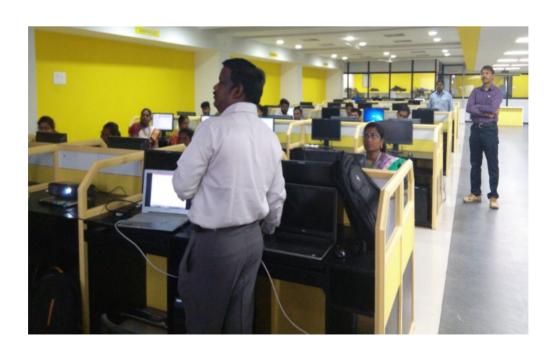


FACULTY DEVELOPMENT PROGRAMME

ICTACT Sponsored two days FDP on "Mobile Application Development" handled by Mr. Shanmugavel, from 29th June 2016 and 30th June 2016.



Three days FDP on "Programming in PHP" handled by Mr.Sankar, SMVSS from 15th June to 17th June 2016.



CONTESTS ORGANIZED

One day Arduino Project Contest Organized by Smart Association of Information Technology (SAIT) on 26th August 2016

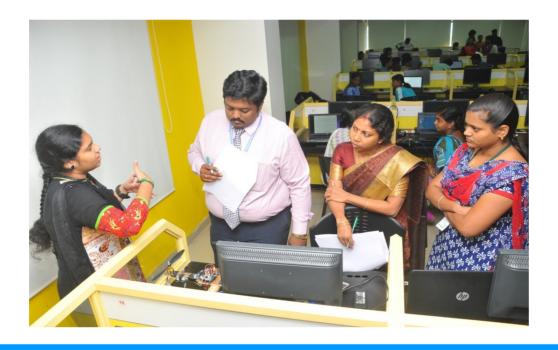


Our Principal Dr. S. Malarkkan addressed the valedictory. Mr. Ganamani, Manager-HR, 4th dimension Technologies Chennai, has kindly consented to be the chief guest of valedictory function.



CONTESTS ORGANIZED

Our judges Mr.Arunmozhi, HOD/ECE and Ms.Valli, HOD/EEE has evaluated the projects of each students



Independence Day Celebration Contest 2016 (ICC 16)
Organized by Smart Association of Information Technology (SAIT) on 6th August
2016



Alumini Contribution

On 27th August 2016, Our alumni, Mr.Aurobind interacted with our third year budding engineers about the various points of view on their career, preparation for placements, leadership skills, and the expectation of the corporate from the fresher.



On 27th August 2016, our alumni, Ms.Dhanasuriya interacted with our final year students and discussed about doing academic projects in an effective manner and steps for career developments



NATIONAL LEVEL TECHNICAL SYMPOSIUM

A National Level Technical Festival held on 10th - 11th February 2017



The Inaugural address by Mr. Vinodkumar Gopinath, Director –Technology, Novatium Solutions Pvt. Ltd, Chennai



NATIONAL LEVEL CONFERENCE -SCAN-2017

National conference on Systems, Computations, Automations and Networking (SCAN '17)

In association with ICTACT and CSI Chapter, Pondicherry on 10th March 2017



International Conference on Advances in Emerging Technology in association with International Journal of Emerging Technology in computer science and Electronics (IJETCSE) India on 1st April 2017.



25th Edition of Bridge Conference





Dr.P.Sivakumar, HOD/IT has attended the 25th Edition of Bridge Conference, largest Industry Institute Interaction Event of India for Academicians, Industry Experts and Policy Makers, Organized by ICT Academy, Chennai at ITC Grand Chola on 1st March 2017.

INDUSTRIAL VISIT

INDUSTRIAL VISIT



Second Year IT - Industrial Visit to Dell Company Pvt. Ltd. Chennai on 4th February

2017The recent Industrial Visit to 'Dell Company Pvt.Ltd."located at OMR Kandachavady, Chennai,' by 2nd year B.Tech, IT students, on 4th February, 2017, who were accompanied by two of the faculties of the department, Mr.K.Vijayakumar and Ms.Thebina.



HACKATHON 2017

Our Department IV year IT student of V.Dharanidharan, M.Tamizhamala and II year IT Student of S.Sowmiya, V.Prithebha, S.Rajeswari, B.Lavanya has registered in Project Contest - Smart India Hackathon 2017 in the title "Information for the First Mile or acceptance point" by Department of Posts, Ministry of Communications on 19th January 2017. They **got selected for Final Round,** which is announced on 6th March 2017 and Event going to be held on 1st-2nd April 2017.

This team was guided by Mr.K.Vijiyakumar and Mr.P.Mathivanan.



STUDENTS IN PLANT TRAINING

In-Plant Training programme undergone at $\,$ Nextgen IT Solutions, Puducherry from $\,$ 14^{th} august to 21^{st} August 2016.



Extra Curricular Activities



PRIZE WINNER IN ARDUINO PROJECT CONTEST



Our Department II year students, Jayaraj.R have participated and got the consilium prize in Arduino Project Contest 2016 on the topic "Smart Home" organized by IT Dept at MIT, Puducherry on 26th August 2016



Our Department III year students, Rajeshkumar, Umashangar and Thinesh kumar have participated in Arduino Project Contest 2016, on the topic "Alaram using PIR Sensor" " organized by ECE Dept at MIT, Puducherry on 20th September 2016.



Paper Presentation Entitled on "Data Analytics and Security" on 3rd February 2017

Our Department III year IT students, B.Bhuvanalakshmi and G.Durga Devi have participated and won the Second prize, cash award of Rs.750 in Paper Presentation



Web Designing Event Participation at Krishnasamy college of Engineering & Technology on 3rd February 2017



Web Designing Event Participation at Krishnasamy college of Engineering & Technology on 3rd February 2017



SMVEC Rolling Trophy 2017 Contest at SMVEC on 10th February 2017.



Project Implementation on "SMART HOMES" on 4.2.2017



Visited IISc, Bangalore for registration for Funding Project on Smart Home Automation Device



EXTRA CURRICULAR ACTIVITIES

Winners of 15th SR Champions Trophy—2017 held at SR Engineering College, Warangal, Telangana during 3rd January to 11th January 2017



R.Jayaraj, Winner at Weightlifting Conducted by Puducherry Wieght lifting association on 7th January 2017



EXTRA CURRICULAR ACTIVITIES

Inter Collegiate Tournament for chess, Conducted by Pondicherry University Directorate of Physical Education & Sports



Women's Day Celebration 2017 on 8th March 2017

Our Department III year IT student, K. Arun has participated and **Won Second Trophy** in the Kavithai Competition, topic of Voice of Women under Women's Day Celebration organized at MIT on 8th March 2017.



EXTRA CURRICULAR ACTIVITIES

An Industry Interface Inter-Collegiate students Meet, organized by Department of Banking Technology school of Management, Pondicherry University on 10th March 2017



Our Department III year IT student, A.Sivapridha, S.Kirubakaran have participated and got First Place, cash award of Rs.150 with Trophy



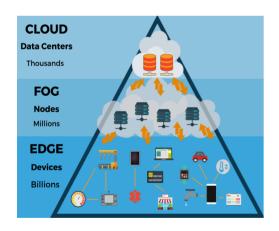
STUDENTS CORNER—TECHNICAL ARTICLE

EDGE COM-PUTING

Cloud Computing is the use of hardware and software to deliver a service over a network (typically the Internet). With cloud computing, users can access files and use applications from any device that can access the Internet. An example of a Cloud Computing provider is Google's Gmail.

Edge computing and distributed cloud

Edge computing provides compute and storage resources with adequate connectivity (networking) close to the devices generating traffic. The benefit is the ability to provide new services with high requirements on e.g. latency or on local break-out possibilities to save bandwidth in the network – data should not have to travel far in the network to reach the server. Regulatory compliance and network scalability are also important edge computing drivers.

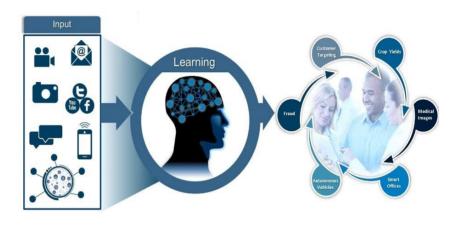


Many use-cases for IoT and 5G span the device, access-, distributed-, national- and global sites. For example, an augmented reality solution comprises a client on a device, a component supporting video processing, a CDN/caching function at a distributed site and a backend at a national- or global site. This requires a solution that can handle any workload, anywhere in the network, with end to end orchestration.

COGNITIVE COMPUTING

At present, there is no widely agreed upon definition for cognitive computing in either academia or industry.

In general, the term cognitive computing has been used to refer to new hardware and/or software that mimics the functioning of the human brain (2004) and helps to improve human decision-making. In this sense, CC is a new type of computing with the goal of more accurate models of how the human brain/mind senses, reasons, and responds to stimulus. CC applications link data analysis and adaptive page displays (AUI) to adjust content for a particular type of audience. As such, CC hardware and applications strive to be more affective and more influential by design.



A.Sakthivel II Yr IT

FLUTTER

Flutter is Google's UI toolkit for building beautiful, natively compiled applications for mobile, web, and desktop from a single codebase.

Fast Development

Paint your app to life in milliseconds with Stateful Hot Reload. Use a rich set of fully-customizable widgets to build native interfaces in minutes.

Expressive and Flexible UI

Quickly ship features with a focus on native end-user experiences. Layered architecture allows for full customization, which results in incredibly fast rendering and expressive and flexible designs.



Mobile Web Desktop

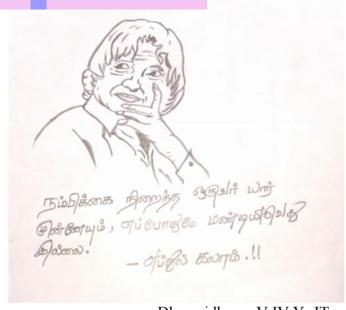


Native Performance

Flutter's widgets incorporate all critical platform differences such as scrolling, navigation, icons and

fonts, and your Flutter code is compiled to native ARM machine code using Dart's native compilers. Thus Flutter gives you full native performance on both iOS and Android.

STUDENTS CORNER

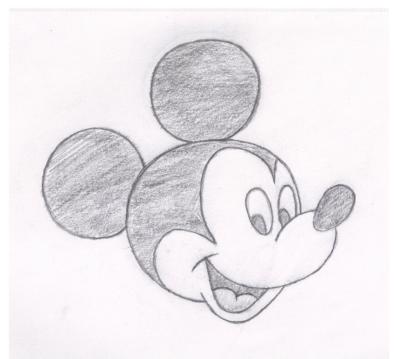


Dharanidharan.V IV Yr IT





Pavithra.G III Yr-IT



Logavignesh- II Yr IT



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PLACED STUDENTS DETAILS (2013-2017)











VALLI.T





SIVACHAKKRAVARTHY.G



SUBASH.S















DEPARTMENT OF INFORMATION TECHNOLOGY



MAGAZINE 2016-2017

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Thanks.....



