



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthal kuppam, Puducherry – 605 107

DEPARTMENT OF INFORMATION TECHNOLOGY

2018-2019

IT-*Xtra*
in addition...
MAGAZINE
Volume 7



VISION OF THE DEPARTMENT

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.



★ Educate

★ Empower

★ Excel



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.



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthai Kuppam, Madagadipet, Puducherry - 605107

DEPARTMENT OF INFORMATION TECHNOLOGY

VISION OF THE DEPARTMENT

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.

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.



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

kalitheerthal Kuppam, Madagadipet, Puducherry - 605107

DEPARTMENT OF INFORMATION TECHNOLOGY

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 engineering problems reaching substantiated conclusions using first principles 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 mathematical 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.

Major Events

2ND IEEE - INTERNATIONAL CONFERENCE - SYSTEMS COMPUTATION AUTOMATION AND NETWORKING (ICSCAN'19) - On 29 &30 March 2019



**MITILENCE '19 - NATIONAL LEVEL
TECHNICAL SYMPOSIUM**



**SCIMIT'19 – NATIONAL LEVEL
PROJECT CONTEST SCIENCE DAY
CELEBRATION**



ELAN 2K19 - SPORTS & CULTURALS DAY CELEBRATION



Guest lectures

Guest lecture on “Win your Weakness – Motivational Lecture” on 23.07.2018



One day Guest Lecture on “Agile Software Development” on 20.09.2018



One Day Guest lecture on “Introduction to Machine Learning” on 30.06.2018



Guest Lecture on “Carrier Guidance”

On 28.12.2018



Guest Lecture on “Mobile Application Development” on 21.01.2019



Guest Lecture on “Speech Processing System” on 08.03.2019



Workshops



CSI Sponsored one day workshop on "Machine Learning by using WEKA Tool"



Workshop on "Networking - Real time hands on training in web server"



One Day Workshop on "Web Development using Python"



Workshop on "Lean Thinking & Six Sigma Processing"



One Day Workshop on "Amazon Web Service"



Internal Workshop on "Arduino & its Applications"

Mou signed

MOU Signed with Shailash, Chennai



MOU Signed with Cherri Technologies, Puducherry



MOU with Ridsys, Puducherry



Smart India Hackathon 2019- Software Edition

Team Gaganyaan to develop the Android app for seamless indoor and outdoor navigation system- ISRO problem



Team Tornadoes developed a web application for startups to improve their business market



Runner up at Stellars Trophy, Football tournament conducted at MIT, Puducherry. 16.02.2019



Awards and Achievements of Students



G. Anbarasan, G.Selvam, of IV year IT have won First prize with cash award of Rs.4000 in Innovators 2K19 – Project Contest held at IFET, Villupuram on 16th February 2019.



R. Brainard Samuel of III year IT, have won the First prize in Quiz Competition, held at Pondicherry Engineering College on 27th September 2018.



G.Selvam of IV year IT, has won First prize with cash award of Rs.4000 in Android Application Project Contest 2019 at MIT on 23rd February 2019.



Vijayaram Abishek, U.Vimal Priyan & I. Porselvam of III year IT, have won Third prize with cash award of Rs. 2000 in Android Application Project Contest 2019 at MIT on 23rd February 2019.

Industrial visits

Lenovo International Services India Private Limited, Puducherry on 9th July, 2018.



VI Microsystems Private Limited, Chennai on 14th July, 2018.



Industrial visit to DELL Pvt. Ltd CHENNAI on 11th January 2019.



Industrial Visit to Vikram Sarabhai Space Centre (VSSC) - ISRO on 15.03.19



External workshops

ZOHO -Cliq Trix workshop on "Web Hooks" on 15th September 2018.



Garnishing Talent Program on Assessment & Selection Skill, organized by EATON in association with CII, Puducherry on 14th July - 22nd September 18.



Students corner



Sivanesan.R IYr-IT



Madhavan.G IYr-IT



Geethalakshmi.R IIIYr-IT-A

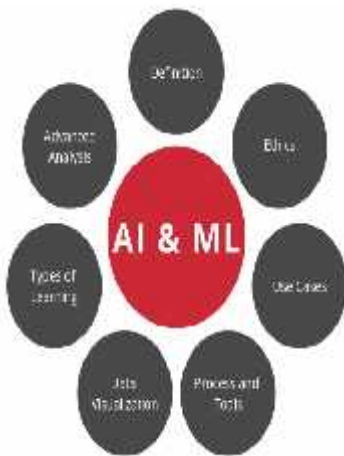


S.Giridharan IIIYr-IT-A

Students corner- Technical Article

ARTIFICIAL INTELLIGENCE

Analytical AI has only characteristics consistent with cognitive intelligence; generating a cognitive representation of the world and using learning based on past experience to inform future decisions. Human-inspired AI has elements from cognitive and emotional intelligence; understanding human emotions, in addition to cognitive elements, and considering them in their decision making. Humanized AI shows characteristics of all types of competencies (i.e., cognitive, emotional, and social intelligence), is able to be self-conscious and is self-aware in interactions.



RAJNIVASH.M
IIYR-IT

AUGMENTED REALITY (AR)

Augmented reality (AR) is an interactive experience of a real-world environment where the objects that reside in the real world are enhanced by computer-generated perceptual information, sometimes across multiple sensory modalities,

including visual, auditory, haptic, somatosensory and olfactory. AR can be defined as a system that fulfills three basic features: a combination of real and virtual worlds, real-time interaction, and accurate 3D registration of virtual and real objects. The overlaid sensory information can be constructive (i.e. additive to the natural environment), or destructive (i.e. masking of the natural environment). This experience is seamlessly interwoven with the physical world such that it is perceived as an immersive aspect of the real environment. In this way, augmented reality alters one's ongoing perception of a real-world environment, whereas virtual reality completely replaces the user's real-world environment with a simulated one. Augmented reality is related to two largely synonymous terms: mixed reality and computer-mediated reality



UMA SANKAR.S
IIYR-IT

DEVOPS

DevOps is a set of practices that combines software development (Dev) and information-technology operations (Ops) which aims to shorten the systems development life cycle and provide continuous delivery with high software quality.



IT performance can be measured in terms of throughput and stability. Throughput can be measured by deployment frequency and lead time for changes; stability can be measured by mean time to recover. The State of DevOps Reports found that investing in practices that increase these throughput and stability measures increase IT performance

The goals of DevOps span the entire delivery pipeline. They include.

- Improved deployment frequency;
- Faster time to market;
- Lower failure rate of new releases;
- Shortened lead time between fixes;
- Faster mean time to recovery

DevOps tools.

- Gradle
- Git
- Jenkins
- Docker
- Kubernetes

MARIE AUGUSTIN RAJ.A
IIIYR-IT-A



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthal Kuppam, Pondicherry – 605107

DEPARTMENT OF INFORMATION TECHNOLOGY

PLACED STUDENTS DETAILS (2015-2019)

TATA
TATA CONSULTANCY SERVICES

DIAMINI P. JHEEWIKA. K. JAYASREE. R. LAVANYA. D. PRITHVIRAJ. V. RAJESHWARI. Y.
ARUNKUMAR. S. SAHIDHARAN. M. SHANTANU. BOOMRACK. JI. ARVIND SHANKAR. P. SOWMIYA. S. SAKTHIVEL. Y.

Cognizant

KALAIYARAJ. S. MAHALAKSHMI. M. NIRMALA. J.
PREMADARSHIN. G. SURETHA. E. G.

Mphasis
FOUNDATION

SOWMIYA. P. VINODHA. S. PUPPULA SAI RAM.

IDBI FEDERAL
IDBI Federal Life Insurance Co Ltd

SAKTHIVELA. JAMUNA. D. SWAGATHA. V.

EXIDE Life
Insurance

ASWINRAJ. V. LOGAVIGNESH. K. PRASANNA. R.

kotak
Life Insurance

ASHOK. S. JAYARAJ. R. RUDHRESH. V. KOWSALE. R.

Justdial

MAPULLAI MEDHAN. J.

NTT

SOFIA CAROLINE. S.

SWETHA. D. KARTHIKA. R. SELVAM. G.

Wipro

DEEPIKA. R.

equitas
Small Finance Bank

ANBARASAN. G. MADHAKUMAR. M.

Insprary

SITPA. M. C.

SUTHERLAND
GLOBAL SERVICES

GEETHA DEVI. K.

integrā

SHEELA. S.



★ Educate

★ Empower

★ Excel



MANAKULA VINAYAGAR

INSTITUTE OF TECHNOLOGY

Kalitheerthal kuppam, Puducherry – 605 107

DEPARTMENT OF INFORMATION TECHNOLOGY

2018-2019

IT-*Xtra*
in addition...
MAGAZINE

EDITORIAL BOARD



Editors:

1. Mr.K.Premkumar, AP
2. Ms.A.Punitha, AP

Student-Editors:

III Year IT

1. Illakiya.S
2. Amarnath.G
3. Priyanga.P

II Year IT

1. Praveen Kumar.G
2. Madhavan.G
3. Loga sowmya.V

Thanks.....

★ Educate

★ Empower

★ Excel