MANAKULA VINAYAGAR
INSTITUTE OF TECHNOLOGY
Kalitheerthalkuppam, Puducherry - 605107

NBA
NATIONAL BOARD of ACCREDITATION

DEPARTMENT OF INFORMATION TECHNOLOGY

NEWS LETTER 2019-2020(ODD)

Vision and Mission of the Institution

Vision

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

♦ 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 resource.

♦ 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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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.

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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 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 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.

ABOUT THE INSTITUTION

Nestled in the vast expanse of the agricultural lands of Kalitheerthalkuppam on the Pondicherry-Villupuram main road, Manakula Vinayagar Institute of Technology is the 10th and the most recent edifice that spells modernity and technological advance even as a classically architecture temple of the elephant-faced GOD welcomes the entrant with the deity bestowing intelligence and supernatural powers upon those who worship him with closed palms and an open heart.

Manakula Vinayagar Institute of Technology, with its motto, Educate, Empower and Excel, has risen to meet the ever increasing need for consummate technologists who would usher in a better tomorrow that would free people from the clutches of old world ideas. MIT is a self-financing technical institute started in 2008 by Sri Manakula Vinayagar Educational Trust with the aim to make state-of-the-art technology to the rural society and to open up career opportunities for the underprivileged youth in and around the vicinity.

The college is approved by AICTE and affiliated to Pondicherry University. It provides an ambience of uncompromised innovation, excellence and quality. Its library houses over 18343 books and 474 e-journals and magazines for the benefit of the students.

Chairman's Message

Sri Manakula Vinayagar Educational Trust is sponsoring the colleges with the state of art facilities and modern technologies for making our students employable as well as to become successful entrepreneurs. We are running all the colleges in the highest order of discipline among the students and personally take care of their studies, successful completion of the course. We take utmost care about students' future and also believe that they all are our customers.

All the colleges have got highest order of discipline, won the reputation and opinion of public and industrialists. That is the success of our institutions which makes us to be a leader in Education.

With regards

Shri M. Dhanasekaran, Chairman and Managing Director

Vice Chairman's Message

Dear Students, Welcome to Manakula Vinayagar Institute of Technology.

The transition from school to college is a very big step in life. By choosing to create a future for yourself from our institution means that we, the teachers and management at MVIT are responsible for your successful graduation and growth. You will cherish every day at your college, right from day one, you will feel welcome by all of us here – your seniors, your new professors, and members of administration you will get to interact with. What's more the energetic environment will have you charged up to achieve your dream with confidence like never before.

It is your career path that you have now embarked upon, which will be a remarkable journey in itself that will prepare you for a life beyond college. We pray and will work with you to see you become one with the society where your contribution will make a definitive difference to our world.

The commitment from us begins from day one – to work with you and walk with you through each day all through the years you will spend here which is your home away from home. The learned staff members and the ever accessible Management are always with you to guide you through your path and help you nurture your dreams and fulfill them – by empowering you to realize your true potential. Be it studies, sports or any extracurricular activities, you don't just graduate with a degree and a certificate – but become a graduate of life and a true citizen of the world of tomorrow.

With regards

Shri.S.V.SUGUMARAN, Vice Chairman.

Secretary's Message

Dear Students, Welcome to Manakula Vinayagar Institute of Technology.

The essence of Engineering and technology which has spread in India is a very positive sign not only to cater domestic needs but provide manpower to the entire world and become biggest technically trained community. The Institution has successfully integrated its vision, values and vitality in a distinct blend that has significantly enhanced brand image. Engineers play the most vital and important role in nation building. They create new inventions using best engineered technologies to make human life more comfortable, secure and productive.

In modern times, nations which have rich engineering and experienced management domains are flourishing economically and are providing better lives to their people We have excellent potential to grow in diversified areas and excel in Engineering and Management fields. We need enormous number of engineers and managers to write next story of success. The Institution will continue to strive hard to make the students come out in flying colors in technological field. Our journey is towards excellence. We invite you to be a part of this excellence by becoming an authentic and share the exhilarating learning experience.

With regards

Dr. K. NARAYANASAMY, Secretary.

Principal's Message

Dear Students,

My heartiest welcome to all the young and budding Engineers who have joined in MVIT. With the guidance of our respected Chairman and Vice Chairman, with the help of highly qualified and dedicated faculty team, we will be molding the students to the required shape which will make them industry-ready, employable and well disciplined.

The Manakula Vinayagar Institute of Technology will strive hard to provide pleasant ambience and conductive atmosphere for molding the young minds to scale greater heights in their chosen field of study. In our college we give top priority to academic excellence, innovation, and discipline. An effective Training and Placement Cell is in place to provide placement to all our students. A state-of-the-art and up-to-date infrastructure facilities and good learning atmosphere are the hallmarks of our Institution. I hope all the students admitted in this Institution will enjoy their study in the campus. Let us all come together, build together, and achieve together with the blessings of Almighty for Tomorrow's India.

With regards
Dr.S.Malarkkan, Principal, MVIT

About the Department

The Department of Information Technology was established in the year 2008 with the objective of imparting knowledge in cutting-edge technologies in Information Technology. The department has a team of dynamic, young and dedicated staff, with specialization in wide array of areas. The Department has well equipped laboratories with facilities that are vital to train the students in Industry Standards.

<u>**ACADEMIC YEAR : 2019-20 (ODD SEM)**</u>

IT DEPARTMENT – ACTIVITIES & ACHIEVEMENTS

IT Dept Events Organized

- Industrial Visit Organized
- Guest Lecture Organized
- Workshop Conducted
- IE Chapter Inaugural Function

Students Activities & Achievements

➢ **Co – curricular Activities**

- MHRD'S Innovation Cell – Project Contest
- NIIT – C Coding Contest
- ICTACT – Youth Talk Contest:
- Innovators Day - Project Contest At SMVEC, Puducherry
- AWS-Cloud Literacy Day 2019

➢ **Extra Curricular Activities**

Faculty Participation in Workshop/FDP

Faculty Publications

Faculty Undergone Industrial Visit

Industrial Visit to to KGiSL institute of technology and Webnox Technologies on 19 and 20 July, 2019

Our Department organized a two day Industrial visit to KGiSL institute of technology and Webnox Technologies Coimbatore for III year IT students on 19 and 20 July, 2019

Students learned cloud computing about its characteristics such as maintenance, multitenancy, performance, productivity, security. Got Exposure on service models and limitations and advantages of using cloud.

Industrial Visit to Lenovo, Puducherry on 12th July 2019

Our Department II year IT Students have under gone the Industrial Visit to Lenova, Pvt, Ltd., Puducherry on 12th July 2019.

Students learnt about process, manufacturing methods of systems, their business strategies and their contribution to the Indian market, and got exposure on some technical software terms.

GUEST LECTURE ORGANIZED

Guest Lecture Organized on Data Science on 5th July 2019.

A Guest lecture was held on 05.07.19 by Mr.Uthayakumar, MCA Founder & CEO, Genesys Academy on the topic "Data Science" .He explained about databases and architecture. He also explained about unstructured data in detail. He also explained about real world issues in databases. He also explained about Data integrity and interoperability. He also explained about Data Analytics and Data Mining where he explained in detail about numerical data. He also explained about various algorithms like clustering and decision tree.

Guest Lecture on Current Trends in Programming Language on 5.07.19

A guest lecture was held by **Mr.Uthayakumar**,MCA Founder & CEO, Genesys Academy on 5.07.19 on the topic "**Current Trends in Programming Language**". He explained the evolution of programming language. He explained the need of programming languages and the common feature between each programming language. He also explained about the difference between programming language and assembly language. He explained the emergence of each programming language to the other.

Guest Lecture on How to Do the Engineering Projects on 17.7.0219.

Guest Lecture "**How To Do The Engineering Projects**" delivered by **Mr. Uthayakumar,MCA Founder & CEO, Genesys Academy, Puducherry** for IV Year IT Student on 17.7.0219.

He gave a lot of ideas about project and its domain.He briefly explained about project and its types and various domain.The types of project include web,application and research projects .The tools used by each project was in a brief description.He also explained about some of the algorithms in machine learning.He explained in brief about KDD process.He explained a new concept Swarm Intelligence ,where he gave a brief description about its characteristics.He also gave a brief description about applications of Ant colony optimization.

Guest Lecture on Gate Forum Awareness Program on Importance of Gate & PSU Jobs on 26th August 2019.

Our Department Organized Guest Lecture for IV year IT Students on "Gate Forum Awareness Program on Importance of Gate & PSU Jobs", delivered by Mr. Balaguru, Regional Manager, Gate Digest, Chennai on 26th August 2019.

Students felt that "Importance of GATE and PSU Jobs" is very useful and more proficient for GATE aspirant students. Also they gain knowledge of the following points such as 216 PSU selecting only GATE cleared students, GATE score is valid for 3-years, Opportunity to study in world class institutes such as IISc and IITs, Chances of getting into R & D & Increases chance in foreign placements.

WORKSHOP CONDUCTED

Internal workshop on PL-SQL on 4th & 5th July 2019.

Internal workshop is conducted for III year IT students on PL-SQL during 04.07.2019 and 05.07.2019 to enhance the knowledge of writing queries in PL-SQL.

One Day Workshop on "Testing of Electronic Devices in Hardware" on 5th August 2019

The Workshop on "Testing of Electronic Devices in Hardware" by Mr.Raja, Trainer, Raja Electronics Institute, Chennai for II year IT Students on 5th August 2019. His Lecture about working principles of System Hardware Parts & given idea about how to rectify the System/TV through Hardware Testing Equipment. Students also gained the Testing Knowledge through Hands on Session.

Workshop on Arduino & its Application on 24th & 31st August 2019

Internal Workshop on Arduino & its Application, conducted by Mr.K.Premkumar, AP/IT/MVIT for II year IT Students on 24th & 31st August 2019. He Delivered the lecture on Arduino & its Application. Later on Hands on Session also conducted in effective manner.

Workshop on Cloud Computing on 31ˢᵗ August 2019

Workshop on Cloud Computing, conducted by Mr.V.Dharanidharan, Azure Developer,Birla Soft, Bangalure for IIIyear IT Students on 31st August 2019. He delivered the on Cloud Computing & its Application. Later on Hands on session also conducted in effective manner.

one Day workshop on "Industary 4.0 and Data Analytic tools" on 7ᵗʰ September 2019.

Internal Workshop on Industry 4.0 and Data Analytic tools , conducted by Mr.P.M.Shiju, Founder & CEO, MIWAFES, Consultancy Private Ltd. Chennai for III & IV year IT Students on 7th September 2019 He delivered the lecture of Industry 4.0 and Data Analytic tools Later on Hands on Session also conducted in effective manner.

IE CHAPTER INNAGURAL FUNCTION

Our Department Celebrated the Inaugural Function of the Institution of engineer (India), Pondicherry MIT Students Chapter by our Chief Guest Mr.P.M.Shiju, founder and CEO ,MIWAFES consulting private Ltd,Chennaiat MIT on 7th September 2019.Welcome address was delivered by our beloved Principal Dr.S.Malarkkan, followed by a Presidential Address given by our honorable Dr.R.Saravanan, chairman, the Institution of Engineers, Puducherry State Centre, Puducherry and Dr.B.Radjaram, Honarary Secretary, the Institution of Engineers, Puducherry State Centre, Puducherry, supported us in all aspects for the success of the festival in a grand manner.

STUDENTS ACTIVITIES & ACHIEVEMENTS

STUDENTS - CO – CURRICULAR ACTIVITIES

TCS CODEVITA – CODING CONTEST

Our Department III & IV year IT Studentshave participated in First Round TCS Inframind Coding Contest at MIT on 28th- 29th June 2019. Out of which IV year Students Priyanga, Amarnath&Giridharan have cleared the round & got TCS offer Letter on 10th August 2019.

TCS HUMAIN(AI MANIA) – MCQs CONTEST

Our Department III & IV year IT Students have participated in First Round TCS AI MANIA – MCQS Contest at MIT on 7th August 2019.Out of which 18 - IV year Students have Shortlisted for Second Round on 26th August 2019. Shortlisted Students uploaded video Presentation on 22nd Sep 2019.Out of which Preethika, Kowsalya, Giridharan, Jayaram have got Placement offer letter on 5th November 2019.

TCS INFRAMIND CODING CONTEST

Our Department IV year Students (30 Batches) have Participated in TCS Inframind Coding Contest, out of which 25 Students have Cleared the First Round at MIT, Puducherry on 12th September 2019. Out of which, 11 Students have Shortlisted for next round on November 2019, from which Dharani, Shakila, Priyadharshini.D & Nalinakumari have got Placement offer letter on 21st November 2019.

MHRD's innovation cell – project contest on 14th august 2019

Our Department III year Students Inshaniya Bagadhur, Harshana have participated in Project Contest entitled Health Monitoring System at VIT, Chennai on 14th August 2019.
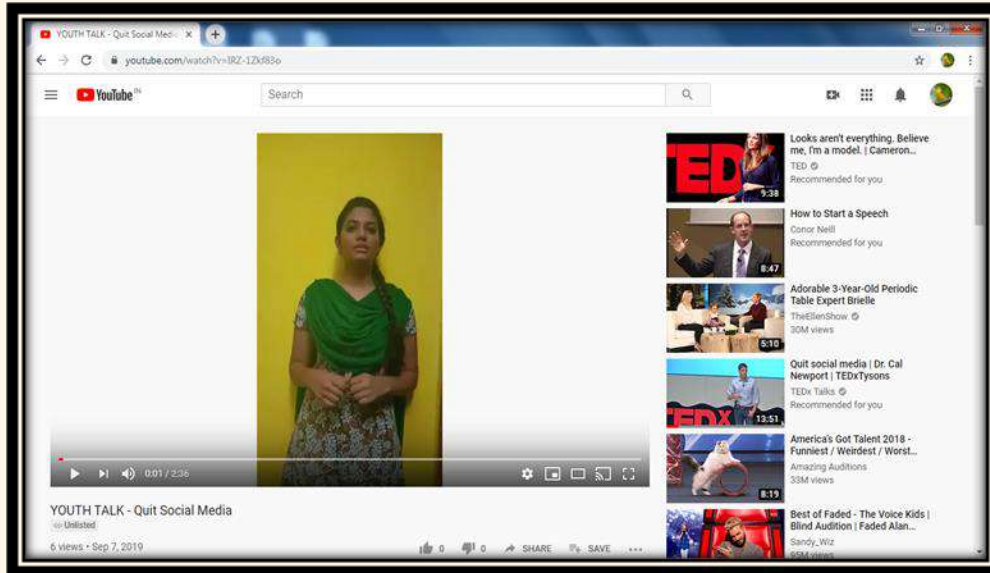Our Department III year Students Hashvandhini & Lavanya have participated in Project Contest entitled Dialyzer at VIT, Chennai on 14th August 2019.

NIIT – C CODING CONTEST ON 27th AUGUST 2019

Our Department III & IV year IT Students have participated in NIIT – C CODING CONTEST, organized by IT Department Association at MIT on 27th August 2019.

ICTACT – YOUTH TALK CONTEST ON 3RD- 5TH SEPTEMBER 2019.

Our Department 22 Students of III year, 10 Students of III year &one Final Year Students have participated in the Youth Talk Contest, organized by ICTACT Academy, Puducherry at MIT on 3rd-5th September 2019.

Innovators Day - Project Contest At Smvec, Puducherry On 13th September 2019.

Our Department IV year Students (2 Batches), III year Students (4 Batches) have Participated in Innovators 2K19 – Project Contest at SMVEC on 13th September 2019.

AWS-cloud literacy day 2019 on 22nd September 2019

Our Department final IT (71 Students) and III year IT Students (10 Students) have participated in the AWS-Cloud Literacy Day 2019- Organized by ICT academy on 22.9.2019.

Garnishing Talent Programme – Soft Skill, Organized by CII, Puducherry

Our Department III year IT Students, Ramsugumar. Dhivyabharathi&Amudha have participated in Garnishing Talent Programme – Soft Skill, Organized by CII, Puducherry at every Saturdays of August & September 2019.

7 days Workshop on ADX 201 – Salesforce, organized by ICT Academy, Puducherry on 3rd – 10th September 2019.

Our Department IV year IT – 15 Students have participated in 7 days Workshop on ADX 201 – Salesforce, organized by ICT Academy, Puducherry at MIT, Puducherry on 3rd – 10th September 2019.

STUDENTS PARTICIPATION - EXTRA CURRICULAR ACTIVITIES

Participated in NSS Program

Our Department IV year – 1 Student, II year – 6 Students have participated in NSS Program-World Environmental Day Celebration (Environmental Awareness Cycle Campaign) at Institute of Engineers, Puducherry Centre, Puducherry on 5th – 6th July 2019.
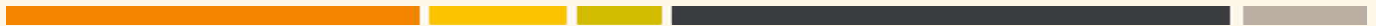
Our Department IV year IT Students, Siva Pavitharan received Best Social Worker of the year 2019 in the International Kalam Golden Awards function held at Chennai on October 2019.

Our Department IV year – 1 Student, II year – 6 Students have participated in NSS Program—SwachhBharath – Summer Internship Programme(Clean the Village) at Kurivinatham, Puducherry on 31st July – 1st August 2019.

Our Department IV year Students Brainard Samuel has won Second Prize with reward of office File in the Debate Event at Founders Day Celebration Contest at MIT, Puducherry on 7th September 2019.

Our Department IV year Students Vimal Priyan& Praveen Kumar have won Second Prize with reward of office File in the Quiz Competition at Founders Day Celebration Contest at MIT, Puducherry on 7th September 2019.

Our Department III year IT Student Fazar, won second Prize in Chess Tournament, at Pope John Paul college of Education on 7th November 2019.

FACULTY PARTICIPATION IN WORKSHOP/FDP

FDP on the IMPACT- skill Development for Class Room Management on 10th – 12th June 2019.

Dr.P.Sivakumar,Dr.A.Meiappane, Mr.K.Vijayakumar&Ms.A.Punitha have attended 4 days FDP on the IMPACT- skill Development for Class Room ManagementMIT, Puducherry on 10th – 12th June 2019.

Workshop on Introduction to Cryptography Algorithms and their Validation on 3rd – 5th July 2019.

Dr.P.Sivakumar, has attended 3 days Workshop on Introduction to Cryptography Algorithms and their Validation at IISC, Bengaluru on 3rd – 5th July 2019.

FDP on AICTE-UKIERI Technical Leadership Programme on 18th – 21st June 2019.

Dr.A.Meiappane has Attended Workshop on AICTE-UKIERI Technical Leadership Programme, at NEHU, Shillong, Meghalaya on 18th – 21st June 2019.

FACULTY PUBLICATIONS

Mr.P.Mathivanan, Ms. D.Mohanapriya has published paper in International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS), entitled on A Periodic Approach in Access Control for Multi Authority Based on Cp-Abe Using Cloud Computing, Volume VIII, Issue V, ISSN 2278-2540 on June 2019.

Mr.M.Suresh , has published paper in Journal of Advanced Research in Dynamical and Control Systems (JARDCS) entitled on A Novel Clustering Based Classification Model For Smart metered Household Electricity Consumption, Vol. 11, 07-Special Issue, 2019(SCOPUS), ISSN : 1943 -023 X.

Mr.K.Vijayakumar, has Published paper in International Journal of Innovative Technology and Exploring Engineering (IJITEE) entitled on A Proficient Pattern of using Multi Keyword Search in Private Cloud for Multiuser Environment, ISSN: 2278-3075, Volume-8 Issue-11, September 2019.

Mr.K.Vijayakumar, Mr.P.Mathivanan & Mr..Premkumar has Published paper in International journal of Advanced Research(IJAR) entitled on To Improve The Accuracy In Identifying Breast Cancer Using Various Techniques Of Big Data Analysis. Article DOI: 10.21474/IJAR01/9856 , ISSN:2320-5407.

FACULTY UNDERGONE INDUSTRIAL VISIT

Industrial Visit to to EATON, Sedarapet on 27th November 2019

Our Department Staff members Dr.P.Sivakumar & Mr.K.Vijayakumar have undergone Industrial visit to EATON, Sedarapet on 27th November 2019

Staff learnt about Eaton provides multidisciplinary research, development and engineering solutions to all the businesses of Eaton including the industrial, Electrical sector and the Corporate research and technology.

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