



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

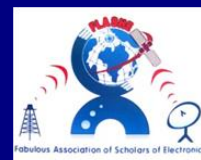
Kalitheerthal kuppam, Madgadipet 605107

# NEWSLETTER 2014-15



DEPARTMENT OF

ELECTRONICS AND COMMUNICATION



## ABOUT THE INSTITUTION



Manakula Vinayagar Institute of Technology (MVIT) was established in 2008, with a view to provide quality technical education to young aspirants. The institution is affiliated to Pondicherry Central University and is approved by AICTE, New Delhi.

Our college is professionally managed and guided by the members of the board of Management with vast experience, knowledge and academic excellence, with a vision to achieve the most preferred position globally.

The high performance of our Institution is witnessed by the results produced by our students in the university exams. Our Institution has acquired enviable status for maintaining highest order of discipline.

MVIT is revitalizing itself, to face the challenging expertise with reputed team of faculty. We facilitate to produce efficient Professionals who can meet the demands of the expectations and shine in their profession through innovative ideas, knowledge and team work.

## CHAIRMAN'S MESSAGE



Sri Manakula Vinayagar Educational Trust was formed with the objective of imparting quality technical education, medical education and other relevant field of education especially to the weaker section of the society.

The 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.

## VICE CHAIRMAN'S MESSAGE



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.

## SECRETARY'S MESSAGE



It gives me immense pleasure to present a few words as prologue to Seventh Issue of MVIT News Letter. I congratulate all the faculty and students and the editorial board for bringing out such a beautiful issue. Empowerment of students for their all round development through education is our appreciated motto.

Today Higher Education means much more than merely acquiring knowledge. It is acquisition of knowledge and skills, building character and improving employability of our young talent, the future leadership.

I am proud of being the Secretary of SMVE Trust dedicated to the causes of better India. Come, let's give our best and make the institution as a modern temple of learning through our diligence, devotion and dedication.

## PRINCIPAL MESSAGE



My heartiest welcome to all the young and budding Engineers who have joined in Manakula Vinayagar Institute of Technology (MVIT). With the guidance of our respected Chairman and Vice Chairman, with the help of highly qualified and dedicated faculty team, we will be moulding 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 conducive atmosphere for moulding 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. Focus is given to Extra Curricular and Co-Curricular activities through various clubs and societies instituted to augment the students skills and knowledge.

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.

## ABOUT THE DEPARTMENT

The Department was established in the year 2008 focusing to develop the skills of modern youth in the field of Electronics and Communication Engineering. Adequate emphasis is given to electronic design using modern teaching methodologies. Emphasis is also given to the development of soft and hard skills. Ulmost care is taken in the perspective of imparting more practical knowledge to the student's community in the field of Electronics and Communication.



## VISION

The department aspires to produce dexterous professionals, competent Researchers and entrepreneurial leaders for the benevolence of the society.

## MISSION

Department of Electronics and Communication Engineering is committed

**Higher Order Thinking:** To invoke higher order thinking among the students by means of comprehensive teaching and learning process.

**Competency:** To provide training on cutting-edge technologies to improve the competency of the students.

**Continuous learning:** To promote innovation through providing state-of-art facilities and active industry institute interaction.

**Entrepreneurship:** To facilitate the students to improve their leadership and entrepreneurship skills with ethical values.

## STAFF ACTIVITIES

- Two day workshop on “Hands-on Training on MATLAB for OFDM and Wireless Communication” was conducted by Mr.S.Arunmozhi and Mrs.B.Lakshmi Priya for external participants on 25<sup>th</sup> and 26<sup>th</sup> July 2014.
- One day workshop on “LT SPICE and Microwind” was conducted by Mr.J.Ajayan and Mr.K.Vivek for II ECE A and B section students on 09.07.14 and 10.07.14 respectively.
- Mrs.B.Lakshmi Priya and Ms.Chanemougapriya attended a three day workshop on “Hands-on Training on Network Simulator 2 NS2” at Kongu Engineering College, Perundurai from 17<sup>th</sup> to 19<sup>th</sup> July 2014
- Mr.V.Rajesh and Mr.K.Kumaran have attended a two day workshop on “Advances in VLSI Circuit Design using Xilinx” conducted by Department of ECE, Pondicherry University from 21<sup>st</sup> to 2<sup>nd</sup> August 2014.
- Five faculty members S.Arunmozhi, B.Lakshmi Priya, P.Malarvizhi , K.Priethamje Vithya and V.Rajesh have completed an online certification course on “Introduction to Linux” conducted by Linux Foundation and edX.
- One day workshop on “PSPICE and ORCAD” was conducted by Mr.J.Ajayan and Mr.K.Vivek for III ECE A and B section students on 09.09.14 and 04.09.14 respectively.
- Digital Trainer kit was designed by Mr.Nandakumar, Lab Technician .
- Mrs.K.Priethamje Vithya , Ms P.Malarvizhi and Mr.Anbazhagan have attended a three day workshop on “NS2 Network Simulator 2” at Alpha College of Engineering & Technology, Pondicherry on 26<sup>th</sup> and 27<sup>th</sup> September 2014.



- Mrs.B.Lakshmi Priya has published a paper on “Performance Optimization of Cognitive Radio with Wideband Spectrum Sensing” in ICTACT journal on Communication Technology.
- Mrs.Chanemougapriya has presented a paper entitled “Network overhead reduction and Security Improvement in MANET” at national Conference on Recent Trends in Communication Engineering held at Sree Sastha College of Engineering, Chennai on 12<sup>th</sup> September 2014.

## STUDENTS ACTIVITIES

- Hemaleka and team of 2014 passed out students have won first prize in CII Innovative project contest and won Rs.50,000/- cash price.



- 83 students from IV ECE have obtained FOSS certificate on SCILAB.
- K.Vignesh of III ECE B and Abdul Azad of IV ECE B have participated in photographic exhibition conducted by Rotary Club of Puducherry and displayed their photographs.
- Around 20 students from III ECE A and 10 students from IV ECE B have completed an online certification course on “Introduction to Linux” conducted by Linux Foundation and edX.
- Clement Joshua.S and Gokularaman of II ECE have won 1<sup>st</sup> place at BIG BANG event in “ALCONESY 14” – A national level symposium conducted by EEE association on 2<sup>nd</sup> & 3<sup>rd</sup> of September 2014.
- Four of our final year students sheshathiri.P, V.Naveenkumar, V.praveen, and surendar have won the first prize with cash award Rs.12000 in ROBOWAR at Allagappa Chettiyar college of Engineering and Technology, Karaikudi.

- Six of our second year students Arun, Nittai, Clement Joshua, Loganathan, and Mohammed Shaffique have won third place in Robo Race conducted at Jeppiar Engineering College, Chennai.
- C.Kavinarasan and M.Gangababu of 3<sup>rd</sup> ECE 'A' have presented a paper entitled "Network overhead reduction and Security Improvement in MANET" at national Conference on Recent Trends in Communication Engineering held at Sree Sastha College of Engineering, Chennai on 12<sup>th</sup> September 2014.
- Dhivya, M.Mohanapriya and R.Rathi of II ECE B have presented a paper in National level technical symposium on 3 & 4<sup>th</sup> september at Pondicherry Engineering College, Puducherry.
- C.Kavinarasan, J.Harikrishnan, V.Rajesh and S.Karthick of III ECE won II prize in the Innovator's Day 2014, a National level project contest conducted by SMVEC, Pondicherry on 15<sup>th</sup> September. The project title was "Computerized Car Stabilization using Gaze Tracking".
- C.Kavinarasan of III ECE A has completed an online certification course on "Introduction to Computer Programming Part 1" offered by IIT Bombay through edX.

### **PROGRAM ORGANIZED**

- Guest lecture on "Guidance for GATE Preparation" was conducted for IV ECE students by Mr.D.Purushothaman, S – Engineering Academy, Chennai on 19.06.14.
- Guest lecture on "ARM Processors" was conducted for IV and III ECE students by Mr. Athif Shah, CEO of ABE Semiconductor Designs, Chennai on 20.06.14.
- International day of drug abuse was observed on June 26<sup>th</sup>. In this regard a guest lecture on "Drug Abuse" was delivered by Mr.S.Shanmugasundaram, Rtd. Superintendent of Police, Puducherry.
- Painting and poetry competitions were conducted on June 26<sup>th</sup>



Prize distribution for “DRUG ABUSE” by Mr .S. Shanmugasundaram

- FOSS workshop on “C and C++” was conducted for final year students.
- FOSS workshop on “OSCAD” was organized for all faculty members of ECE department on 30.06.2014.
- One workshop on “ITIL Foundation Course” was conducted for IV ECE students on 5.07.14. The resource person was Mr.S.Selvakumar, Senior Associate, EY (Ernst & Young), Trivandrum.



**Participation certificate distributiobn for “TCIL” by Mr.S.Selvakumar**

- FOSS workshop on SCILAB was conducted for III year ECE students on 16.07.14.
- A guest lecture on “Basics of Electromagnetics” was delivered by Dr. N. Gunasekaran, Dean, Rajalakshmi Engg College, Chennai, on 26<sup>th</sup> July 2014. The audience for the lecture was II ECE students
- Mitronce’14, Robotic competition was organized on 8<sup>th</sup> and 9<sup>th</sup> of August 2014. Various events like Roborace, Robo Pick n place, Reflex race, Robo Soccer, paper presentation and so on were conducted. About 600 participants from various engineering colleges have participated.



**ROBOTICS competition on MITRONCE’14**

- Two day workshop on “Line Follower Robots” was conducted by Ex Or Robotics on 8<sup>th</sup> and 9<sup>th</sup> of August 2014. 88 students (internal and external participants) have participated.



#### **MITRONCE'14 Inauguration by Principal Dr.S. Malarkkan**

- Mr.Pattabiraman, writer was invited as Guest of the Week on 1.9.14 and delivered an awareness lecture on Environmental Issues.
- A Guest Lecture on “Embedded Systems” by Dr.Sakthivel, Annamalai University was arranged for IV ECE students. The arrangements were made by Mr.B.Ashwanth
- A three day workshop on “Network Simulator 3 – NS3” was conducted for II M.Tech (ECE & CSE) students from 12.08.14 to 14.08.14. The resource person was Mr. Thirukumaran, Sat Infosys, Coimbatore and the arrangement were made by Mr.V.Surender.
- Consumer electronic expo was organized by II ECE B sections on 13.08.14. The working of various electronic equipments was explained by the students. The event was coordinated by Mr.M.Jayekumar.



**Consumer Electronics Expo (MODERN'14)**



- A program organized by our students to honor the service of our non technical staff members was done on our founder's remembrance day (6-9-14).