**DEPARTMENT OF INFORMATION TECHNOLOGY**

# TECH PULSE

*DEPARTMENT*

## NEWSLETTER

# AUGUST 2019

## TECHPULSE

Our Departmental Newsletter "Tech Pulse" is an amalgam of all the events held in the department and it plays an instrumental role in providing a greater exposure of the achievements accomplished by the students and the faculty.

The objective of the news letter is to mainly project the contribution & achievements of faculty and students.

## EDITORIAL BOARD

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Dr.VSK Reddy,
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IT A 3rd year

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## "Intellectuals are not born but are made"

As Knowledge is Power, focus must be given in grooming dynamic leaders, not just graduates, our society needs Enthusiasts with passion to transform India into a "Force to reckon with". I believe that the aim of Education is the knowledge not facts but of value based education is imparted in environment which is conformity with our rich traditions and heritage. I strongly believe in the capabilities of student's community and ensure everything best to reach them for their promising growth.

Shri Ch.Malla Reddy is the Minister of Labour Employment, Women and Child Development from Telangana State, India and founder & Chairman of Malla Reddy Group of Institutions (MRGI) who has been in the field of education for last 29 years with the aim of spreading quality education among children at the school level and is the largest cluster of Technical institutions in the state of Telangana.

**Ch. Malla Reddy**
Founder Chairman
Malla Reddy Group of Institutions (MRGI)

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Dr. V.S.K Reddy, Principal, Malla Reddy College of Engineering & Technology has an experience of more than 20 years in Teaching and industry put together. He is alumni of IIT Kharagpur; he obtained Ph.D in the area of Multi-Media Signal Processing and Communication Protocols. He was awarded as "Best Teacher" in three consecutive Academic years with citation and cash award. He is the recipient of "India Jewel Award" for outstanding contribution in the research in the field of Engineering and Technology.

**Dr. VSK Reddy**
B.Tech,M.Tech,Ph.D(IIT-KGP), FIETE, MIEEE, MISTE,MCSI,MHE-UK
Principal

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## ABOUT THE DEPARTMENT

The Department of Information Technology was established in 2007 with an annual intake of 60 and has now grown tremendously with the current annual intake of 180 students. The department has been accredited by NBA and NAAC – A Grade. The greatest resource of the department is its dedicated and experienced faculty members. The curriculum offered is in sync with the Industry requirements and offers contemporary subjects like data sciences, big data analytics, machine learning, block-chain technology etc. The Dept also has CSI student chapter which conducts various technical events and workshops to provide a second level of growth to the students.

Prof.K.Kailasa Rao, Director, Dean – Placements, School of Computing has more than 18 years of rich industrial experience in design development and projects, 12 years of academic experience in various university affiliated colleges under JNTUH. He is a visiting professor to many colleges. He taught various courses to the best satisfaction of UG and PG students. He published papers in various National, International journals and guided projects to more than 500 students undergraduate level. He has won the "Best Teacher Award" with his nature of agility and expertise.

**Prof. K. Kailasa Rao**
B.Tech, DIIT (IIT-KGP), M.Tech, Ph.D, MISTE
DEAN – Placements, MRGI

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Dr.G.Sharada, Professor and Head of Department of Information Technology, has acquired her M.Tech and Ph.D degrees in Computer Science & Engineering from Jawaharlal Nehru Technical University (JNTU), Hyderabad. Her teaching experience spans a period of 25 years in reputed Engineering Colleges and Universities. She is a qualified candidate of National Eligibility Test (NET) for Lecturership at Master's Level. Having worked in the capacity of faculty member and Course coordinator for Post Graduate programmes in Computer science, she possesses the capability of handling various computer science subjects effectively and has cultivated the necessary administrative, inter-personal and communication skills to manage both academic and extra-curricular activities in a typical educational environment..

**Dr. G. Sharada**
M.Tech, Ph.D, MISTE
Head of the Department (HOD)

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### Vision:
To achieve high quality in technical education that provides the skills and attitude to adapt to the global needs of the Information Technology sector, through academic and research excellence.

### Mission:
• To equip the students with the cognizance for problem solving and to improve the teaching learning pedagogy by using innovative techniques.
• To strengthen the knowledge base of the faculty and students with motivation towards possession of effective academic skills and relevant research experience.

### Quality Policy:
• Strives to inculcate the students with the world class Technical Knowledge, Entrepreneurial Competence and Social Ethics by providing continual improvement and innovation in the curriculum; based upon well-defined measurements and best practices.
• Develop faculty competencies, creativity, empowerment and accountability through faculty development programs and show strong management involvement and commitment.

# SPECIAL ACHIEVEMENTS

- Autonomous Institution, UGC, Govt.of INDIA.
- Accredited by NBA, AICTE, New Delhi.
- Accredited by NAAC-A Grade, UGC, Govt. of India.
- ISO 9001:2015 Certified Institution.
- 2(f) & 12(B) Recognition, UGC, Govt. of India.
- NSS Unit recognized by JNTUH, Hyderabad.
- Research Centre Status, JNTUH, Hyderabad
- MoU with NRDC, Govt. of India.
- AICTE-MHRD Institution Innovation Council, Ministry of HRD, Govt. of India.
- Industry Institute Partnership Cell (IIPC).
- Recognition of Scientific Industrial Research Organizations (SIROs) by Govt. of India.
- MRCET is a life member of NHRD Network.
- CISCO International Certification Authorized Centre.
- Approved to admit Foreign Students/PIO's
- Nodal Center: IIT - Bombay/Kharagpur for Technology Transfer
- NASSCOM Nodal Center for NAC - Test Assessment
- Business Incubation Centre - MSME, Govt. of India
- Global Education and Career Counseling Centre

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# BEST PRACTICES

1. **Implementation of Mentor-Mentee concept :** Enables focus on individual students, increasing the scope of giving guidance, counseling and monitoring for better improvement of each and every student
2. **Enhancement of Programming Language skills :** The department organizes various workshops on emerging technologies amongst students for better career prospects and development of technical skills in the students
3. **Group Discussions:** The students participate in mock interviews and group discussions to give them a sense of confidence and groom them towards professionalism
4. **Assignments:** The best teaching practice-formative assessment, assignment design to foster student engagement and ownership.
5. **Placement Oriented Training :** Campus recruitment training (CRT) is given to the students from II year onwards to cater the needs of students for placements
6. **Organizing Workshops, IT Conclaves & Guest Lectures:** Reputed persons from software industry and academicia are invited to the campus to give expert talks on emerging technologies. As part of IT Conclave, SME sessions will be organized by Industry Experts to our students.
7. **Conferences:** International conference on Communications, Signal processing computing and Information Technologies (ICCSPCIT) is conducted every year providing the platform for sharing their knowledge.
8. **Faculty Development Programmes (FDPs) :** The department organizes FDP's and also deputes the faculty members to other organizations to enhance their knowledge with advanced technologies
9. **Research Oriented Promotions:** Research and Development (R & D) plays a critical role in the process of innovation.
10. **National Level Techno-cultural Festival (Exuberanza):** is conducted every year to exhibit the technical and creative skills of the students which are organizing under our Technical and Professional Student Chapters like CSI and IEEE.
11. **Incubation Cell:** With the support of Incubation Cell, our students will be given encouragement during their III Year and IV Year to do some Live Projects offered by college or industry. With this students will get more knowledge on programming skills.

## INDUSTRIAL VISITS ORGANISED

- Infosys, Hyderabad
- TCS, Hitechcity
- Tech Mahindra, Bahadurpally
- NTT Data, Hyderabad
- Deloitte, Hyderabad

## INDUSTRY ACADEMIA INTERFACE

- MOU with Tech Mahindra
- Serveen Software Systems Pvt ltd, Hyderabad
- Data point Info Solutions Pvt ltd ,Hyderabad
- Arkin Software Solutions Pvt ltd, Hyderabad
- Visiontek Solutions Pvt ltd, Hyderabad
- Volk soft Technologies Pvt ltd, Hyderabad
- IIT Bombay / IIT Kharagpur for Technology Transfer

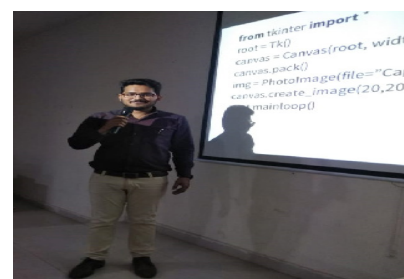## INDUSTRY ORIENTED WORKSHOPS ORGANIZED FOR STUDENTS ACADEMIC YEAR 2018-19

| S.No | Workshop Name | Name of the Co Ordinator | Date & Year | Duration | No of Participants |
|------|---------------|--------------------------|-------------|----------|---------------------|
| 01 | Workshop on Python and Data Analytics | Dr N.S. Gowri Ganesh | 31st Jan to 2nd Feb, 2019 | 3 Days | 60 |
| 02 | Workshop on Microsoft Certification Program on Python | P. Srinivas Rao Novy Jacob | 28th Jan to 2nd Feb 2019 | 6 Days | 55 |

## WORKSHOP ON PYTHON AND DATA ANALYTICS – HIGHLIGHTS

**Day-1:** Introduction and Basics of Python
**Day-2:** Introduction to Data Analytics.
**Day-3:** Python Libraries to Machine Learning.



*Instructor Name: Vibhav Jaiswal*

## WORKSHOP ON MICROSOFT CERTIFICATION PROGRAM – HIGHLIGHTS

**Day–1:** Students have been trained on python basics
**Day–2:** Install Anoconda Software and implementation of Machine Language through Python
**Day–3:** Students have implemented Data Sets on Anaconda.
**Day–4:** Students have learned about polynomial Regression and SVR using SVM
**Day–5:** Students have learned about Confusion Matrix, K-nearest, Naïve Bayes etc**.**
**Day–6:** Students were given tasks to test what they have learnt



*Instructor Name: Mr. Srijong*

# ACTIVITIES

## PROJECT EXPO – C PROJECTS

A two day project expo – C Projects was organized by Department of Information Technology at MRCET on Jan 19th & 20th 2018 for 1st Year 2nd Sem B.Tech Students, it was organized under guidance of Dr. G. Sharada, HOD of Information Technology and it was coordinated by Associate Professor, Mr. P. Srinivas Rao. The Best Project is selected by Project Review Committee from each sections. The Best Project is selected by Project Review Committee from each sections.From each section 20 groups participated .Valedictory function was conducted to appreciate the Young Talents and Certificates and Gifts were distributed to the winners.

## TECHTRIX – 2019

TECHTRIX is a techno – cultural fest initiated by Dr VSK Reddy Sir, Principal of MRCET. TECHTRIX is an event conducted by Department of Information Technology under the main event EXUBERENZA under the blessings of Head of the Department Dr. Sharada Mam this fest took place. These fests are organized every year with the objective to provide platform for the students to showcase their talent with a competitive spirit. The event was successful enough to attract as many as 800 registrations for two day fest which includes all the events. Focusing on the types of events to include in the fest was decided by fest coordinators keeping the interest and need of the engineering student into consideration, with little emphasis on the fun filled events behind the scene.

## CRT PROGRAM

A "CRT Program" was organized by the department of Information Technology for all III B.Tech students.The five day CRT program was conducted by T.I.M.E Institute between February 18, 2019 and February 22, 2019.

The training was well conducted by all the lecturers and made students interact with them effectively. This training helped students to develop the public speaking skills and also in learning different methodsto solve the quantitative, logical ability questions, some approaches to solve verbal ability questions.

## FDP/SEMINAR/ WORKSHOP CONDUCTED FOR FACULTY IN THE ACADEMIC YEAR 2018-19

| S.No | Name of the Faculty | FDP/ SEMINAR/ WORKSHOP | Name of FDP/SEMINAR/ WORKSHOP | Duration | Organizing Body |
|---|---|---|---|---|---|
| 1 | Novy Jacob | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 2 | | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 3 | | SEMINAR | Research Scholar Summit | 3-4 December 2018 | MRCET |
| 4 | M. Vazralu | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 5 | | SEMINAR | Research Scholar Summit | 3-4 December 2018 | MRCET |
| 6 | | FDP | Big Data Analytics | 12th to 13th June 2018 | MRCET |
| 7 | | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 8 | | International Conference | ICTIEE-2019 | 7th & 8th January 2019 | MRCET |
| 9 | | FDP | FDP on Machine Learning Techniques & R Programming | 11-12 Dec 2018 | MRCET |
| 10 | Swetha Koduri | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 11 | | SEMINAR | Research Scholar Summit | 3-4 December 2018 | MRCET |
| 12 | | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 13 | Dr. N.S. Gowri Ganesh | FDP | FDP on Machine Learning Techniques & R Programming | 11-12 Dec 2018 | MRCET |
| 14 | | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 15 | | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |

| S.No | Name of the Faculty | FDP/SEMINAR/ WORKSHOP | Name of FDP/SEMINAR/ WORKSHOP | Duration | Organizing Body |
|------|---------------------|-----------------------|-------------------------------|----------|-----------------|
| 16 | A. Yogananda | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 17 | | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 18 | Dr. R. Roopa Chandrika | FDP | FDP on Machine Learning Techniques & R Programming | 11-12 Dec 2018 | MRCET |
| 19 | | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 20 | | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 21 | A Mummoorthy | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 22 | | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 23 | | FDP | FDP on Machine Learning Techniques & R Programming | 11-12 Dec 2018 | MRCET |
| 24 | T. Kumar Raja | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 25 | | FDP | FDP on Machine Learning Techniques & R Programming | 11-12 Dec 2018 | MRCET |
| 26 | B. Ramya Sri | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 27 | Swetha Rayar | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 28 | I Uma Maheshwara Rao | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 29 | P. Sampurnima | SEMINAR | Research Scholar Summit | 3-4 December 2018 | MRCET |
| 30 | P. Sampurnima | SEMINAR | Block Chain Technology & Devops | 30th November 2018 to 1st December 2018 | MRCET |
| 31 | P. Sampurnima | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |
| 32 | P. Srinivas Rao | FDP | One Week FDP on Machine Learning & Deep Learning | 29th April to 4th May 2019 | MRCET |

## BOOKS PUBLISHED BY THE FACULTY IN THE ACADEMIC YEAR 2018-19

| NAME | TITLE | PUBLICATION | DETAILS |
|---|---|---|---|
| Dr. A.Mummoorthy & k.Thamariselvi | C# programming for beginners | Maya publication | ISBN - 978-93-87756-40-3 |
| Dr. A.Mummoorthy & K.Thamariselvi | Web technologies | Maya publication | ISBN 978-93-87756-76-2 |

## PAPER PUBLICATIONS IN THE ACADEMIC YEAR 2018-19

| Name | National/ International | Title | Year | Details |
|---|---|---|---|---|
| A.MUMMOORTHY | International | Consistent And Effective Energy Utilisation Of Node Model For Securing Data In Wireless Sensor Networks | 18-Jul | Int. J. Grid and utility computing |
| | International | Online Property Registration Management System | 19-Feb | Journal of computational information systems |
| | International | Controlling And Recognizing Large Data & Extended The Networks | 2019 | Journal of computational information systems |
| | International conference | Fleet-Management & Vehicle Routing In Real-Time Using Parallel Computing Algorithms | 19-Jan | Proceedings of the international conference on soft computing and signal processing- icscsp 2018 |
| M.VAZRALU | International | An Professional File Ladder Attribute-Based Cipher Method In Cloud Computing | 18-Jun | International journal of reviews on recent electronics and computer science |
| | International | Projective Your Correct: Conformable Attribute Based Key Search With Dedicate Arrangement Owner Enforced Search In Cloud | 18-Jun | International journal of reviews on recent electronics and computer science |
| B.RAMYA SRI | International conference | Changing The Indian Telecom Sector: Reliance Jio | 18-Jun | International journal of research in electronics and computer engineering |
| Dr.R.ROOPA CHANDRIKA | International conference | A Study On Image Segmentation In Curvelet Domain Using Snakes And Fractals For Cancer Detection In Mammograms | 18-Jun | Advances in intelligent systems and computing- soft computing and signal processing, proceedings of icscsp '18. |
| P.SRNIVASA RAO | International | To Improve The Web Personalization Using The Boosted Random Forest For Web Information Extraction | 2019 | Recent patents on computer science |

## FDP/SEMINAR/ WORKSHOP ATTENDED BY OUR FACULTY IN THE ACADEMIC YEAR 2018-19

| S.No. | Faculty Name | Nature of programme attended: Conference / workshop etc | Title of the Programme | Dates of conduction(From – To) | Sponsored body/Institute |
|-------|--------------|---------------------------------------------------------|------------------------|--------------------------------|--------------------------|
| 1 | **M.Vazaralu** | Three Day National Level Workshop | Machine Learning & Predictive Analytics Using R-Programming. | 22nd &24th February 2018 | JNTUHCES,Sultanpur |
| 2 | **Mr.P. Srinivas** | Three Day National Level Workshop | Machine Learning & Predictive Analytics Using R-Programming. | 22nd &24th February 2018 | JNTUHCES,Sultanpur |
| 3 | **Mrs. Novy Jacob** | Two Day National Seminar | Big Data Analytics and IOT for Health Care applications | 16-17th Feb 2018 | JNTUHCES,Sultanpur |

## FACULTY ACHIEVEMENTS

- Dr.A.Mumoorthy Nominated for the Best Academician Year Award in Research Excellence and Academic Awards, in Recognition of his exceptional caliber and Outstanding Performance given by At.N.L Dalmia Institute of Management Studies & Research Mumbai.
- Department of Information Technology Filed a Patent –Titled: An Automated System for Assisting Person of Medical Needs; Vide Application No: 201841015460A/Publication Date: 27/04/2018.

## STUDENT ACHIEVEMENTS

1. Siri chandana (16N31A1232) participated and won the first place in Volleyball under JNTUH zone C championship.
2. Abdul Kaleem (16N31A1202) participated and won the First place in Kabadi under JNTUH zone C championship.
3. V. Vinith (16N31A1254) participated and won the Cricket Match under JNTUH zone C championship.

## RESEARCH GRANTS IN PROGRESS

- DEVELOPMENT OF BIOMICRO – ELECTRO MECHANICAL SYSTEMS )BIO- MEMS) FOR MATERIAL MORTALITY REDUCTION (MMR) NO: SEED/WS/2018/86 (TPN/22483) - Faculty : Dr. Roopa Chandrika - (Department of Science & Technology) (DST)
- GREEN COMPUTING FOR MINIMIZING IMPACT OF E-WASTE ON HUMAN HEALTH - Faculty – Dr. A.Mummoorthy - ( Indian Space Research Organisation) (ISRO)
- INTELLECTUAL PROPERTY RIGHTS - WORKSHOP - Faculty – Dr. N.S. Gowri Ganeshan – (Ministry of Electronics and Information Technology) (Meity)

# GENERAL EVENTS

## ALUMINI MEET 2018

Alumni Meet was conducted @ MRCET on Jan 20, 2018 in the Robert Eliot Hall. The meeting started around 10:00 AM with the prayer song rendered by Sujala and Himaja, traditionally and with the lightning of lamp by Dr.Murali Krishna, Dean, MRCET, Prof. P Sanjeeva Reddy, Director of ECE,Prof. K Kailasa Rao , Director of CSE/IT, Dr. D Sujatha, HOD of CSE, Dr. G.Sharada, HOD of IT, MRCET. Prof.K Subhas, HOD of EEE, Dr.S.Srinivasa Rao, HOD of ECE, Dr. PHV Sesha Talpa Sai, HOD of Mechanical, Prof. Swetha Bala MNVS, HOD of Aeronautical, MRCET were present.



## BENEFACTION CLUB --NSS (NATIONAL SERVICE SCHEME)



The students of IT department under this club conducted activities like planting trees and distributing food and other study related things to the poor people.

One of the better ways to help the poor and needy people is to give them a hand up rather than a hand out. Giving them moral support, showing heartfelt humility and respect makes them aware that someone really does care about them and trying to improve their condition. We help the poor and needy people but the need is to direct your energies and efforts in raising them, building relationship, teaching them and moreover, regaining their self-confidence and self-esteem to work for themselves.

One cannot make such people opulent but can at least help them achieve the essentials of life and lead a prosperous life. Helping the poor and needy people is a good deed. Caring for the poor and needy people and helping them is a noble endeavor. The more you give to poor and needy people, the more you strengthen their dependency. If you give them the chance or opportunity, you'll see an effective and long-lasting improvement in their lives. Create a new system built on inter-dependency which motivates them to work and move forward and their dignity is maintained.

A CITADEL OF LEARNING

" *Every once in a while, a new technology, an old problem, and a big idea turn into an innovation.* "

– Dean Kamen

" *To succeed in your mission, You must have single-minded devotion to your goal.* "

– Abdul Kalam