

MOONLIT

ACADEMIC NEWSLETTER

Editorial Board

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Jan to June 2016

Volume 1, Issue 2

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MATRUSRI ENGINEERING COLLEGE
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Vision and Mission of the Department

Vision

The Computer Science and Engineering Department aims to produce competent professionals with strong analytical skills, technical skills, research aptitude and ethical values.

Mission

- To provide hands-on-experience and problem-solving skills by imparting quality education.
 - To conduct skill-development programmes in emerging technologies to serve the needs of industry, society and scientific community.
 - To promote comprehensive education and professional development for effective teaching-learning processes.
 - To impart project management skills with an attitude for life-long learning with ethical values.
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Word From HOD



Prof.G.Veeresalingam
M.Tech (IIT Delhi),(Ph.D)

We believe that our students have been well accepted in their job profiles and have consistently exceeded expectations of the corporate world. During study at the department, the students are encouraged to get hands-on experience in the corporate world through internship projects with reputed organizations. In their curriculum they are encouraged to take up mini projects to supplement theoretical knowledge with practical experience

Faculty Publications

1. **Dr. P.VijayaPal Reddy ,Professor published a paper on “Analysis of BMW Model for Title Word Selection on Indic Script”** in International Journal of Computer Applications, Volume- 18, Issue- 8, Pg. 1- 6 March 2016.
2. **Dr. G. Shyamachandra Prasad** ,published a paper and attended the “6th National Conference on Extended Radial Network For Spectral Neuro Approach In Pattern Recognition” from 30-August-2015 to 31-August-2015
3. **Dr.K. Sunil Manohar Reddy, Assistant Professor, published a paper on “Global Optimization For The Forward Neural Networks And Their Applications”** in Journal on Computer Science, Volume- 3, Issue- 4, pg 9-22, Feb 2016.
4. **Dr.K. Sunil Manohar Reddy, Assistant Professor, published a paper on “An Analysis of Mutation and Crossover in Evolutionary Neural Networks”,**in International Journal of Advanced Research in Science, Volume- 3, Issue- 2, Pg 1460-1469, Jan 2016.
5. **Mrs.G.Pratibha, Assistant Professor, published a paper on “Attack Resilient Dynamic Key Management for Dynamic wireless sensor networks”** in International Journal of Computer Science and Mobile Computing, Volume-5 Issue -4, Pg 113-117, April 2016.
6. **Mrs.G.Pratibha, Assistant Professor, published a paper on “Dynamic and Adaptive Routing services for Data Integrity in Wireless Sensor Networks”** in International Journal of Advanced Engineering Research and Technology, Volume- 4, Issue- 4, Pg 107-110, April 2016

List of Workshop/Seminars/Conference attended by the Faculty

1. **Dr. P. Vijayapal Reddy** ,Professor attended a workshop on “Tequip workshop on deep learning for visual computing”(wdlvc-2016) 20/6/2016 to25/6/2016 at IIT Hyd.
2. **Dr. G. Shyamachandra Prasad** ,Professor attended a workshop on “Web Services and IOT” from 1/1/2016 to 6/1/2016 at GNITS, Hyd.
3. **Dr. G. Shyamachandra Prasad** ,Professor attended two week Training Program on “Big Data Analytics” from 8/6/2016 to 18/6/2016 at ACE Engg. College,Hyd.
4. **Mrs.T.Aruna Jyothi**,Assistant Professor attended a workshop on “Parallel & Distributed Computing” from 18/1/2016 to 20/1/2016 at MVSREC, Hyd.
5. **Mrs.G.Pratibha**,Assistant Professor attended two week Training Program on “Big Data Analytics” from 8/6/2016 to 18/6/2016 at ACE Engg. College, Hyd.
6. **Mrs.M. Priyanka**.Assistant Professor FDP on “Intel IoT and Ideation” from 23-6-2016 to 24-6-2016 CVR Engg. College, Hyd.
7. **Mr.M. Praveen Kumar**,Asst. Prof aattended FDP on “Use of ICT in Education for online Blended Learning”, by IIT Bombay from 02/5/2016 to 10/5/2016 ,Online.
8. **Mrs.B.J.Praveena**,Assistant Professor attended a workshop on “Parallel & Distributed Computing” from 18/1/2016 to 20/1/2016 at MVSREC, Hyd.
9. **Mr.A.V. Muralikrishna**,Assistant Professor attended two week Training Program on “Big Data Analytics” from 8/6/2016 to 18/6/2016 at ACE Engg. College.

Library

The Library is computerized and computerized services are provided to its readers. It is fully equipped with necessary infrastructure, manpower to provide improved Library services to the users.

It is maintained by well - versed and fully qualified staff. They are fully conversant with the holdings of the section and also, they are fully acquainted with the reference materials available in the reference section. They guide the readers to find out the requisite materials and they also provide requisite information efficiently.

The Library is a consortium of technical journals.

It provides

- o American Society of Civil Engineers (ASCE)
 - o American Society of Mechanical Engineers (ASME)
 - o Association of Computing Machinery (ACM)
 - o Institute of Educational Leadership (IEL)
 - o Institute of Electrical and Electronics Engineers (IEEE)
- and other foreign journals articles to Member Libraries as and when required.



Alumni

Alumni are an integral and a prestigious part of our educational heritage. Hence to strengthen that heritage Alumni meet was organized so as to celebrate their accomplishments by giving them the due recognition they deserve and to have them share their enlightening experience with others.

To say the day was a success is an understatement, we were warmly surprised by the turnout. Speeches, interviews, discussions were conducted and students milled around to chat with the professors.

It had been a great delight to see MECS students marking their way to success in various companies. Our institute has always pushed against the norms to set new and better standards. Our journey to learn, grow and contribute continues as students' progress towards perfection. It is therefore important to protect that legacy and we value their contributions and we owe to their results which are but a catalyst for the growth of this institution and We hope to see that such meets remain a regular feature in the future to generate inspiration encouragement and to. Maintain a thriving community. We also hope that they keep in contact with their alumnus and their inputs and visits will always be appreciated.

Training and Placement

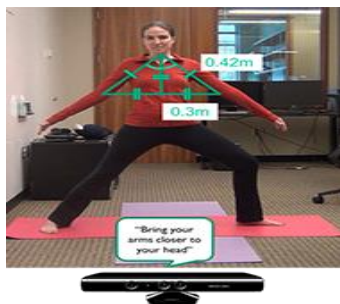
The Training and Placement Cell was established in the year 2013 with Mr Ch Rajani Prashanth as Training and Placement Coordinator. It organizes programs like Group Discussion (GDs), Mock Interviews and guest lectures on Employability skills and Aptitude tests on regular basis. It plays a pivotal role in counseling and guiding the students for their successful career placement. The goal of the cell is to provide continuous training and employment opportunities to the students.

The recently graduated batch of under-graduates from the Engineering disciplines have been placed in some of the leading national and international companies & institutions including: Amazon, Amazon development Centre, Nvidia Graphic LTD, Tech Mahindra, Wipro technologies, GGK Technologies, Kony India, Enter Pi, Fission Labs, Spoons technologies, IMI Mobile, Dilytics Technologies Pvt. Ltd., Rain Cloud, TCS, Cognizant, Cocubes, Cadvision, Capgemini; to name a few.

A number of our students have been accepted into leading international institutions such as Florida State University, University of Utah, University of Texas, University of Cincinnati, Fairleigh Dickinson University are among others for pursuing post-graduate studies.

Many other students are pursuing higher studies in Universities like University of Texas, University of Utah, University of Cincinnati, Florida State University, Fairleigh Dickinson University, California State University.

Technical Write-ups

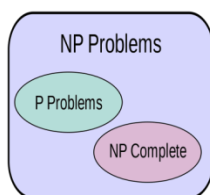


Human Computer Interaction and Accessible Technology

Personal computers offer people with disabilities new possibilities for personal autonomy and social integration. To be able to profit from computers, disabled users need interfaces that suit their skills and assist them in overcoming physical and cognitive barriers. The first experiences in adaptation of the equipment for people with disabilities were oriented to individual solutions and lacked generality. To excel this "Patchwork" approach, another design philosophy, Universal Design was outlined. HCI methods and tools are having a positive influence over interface design for people with disabilities and helped in the way to Universal Design. Nevertheless a long way has to be walked until this philosophy is widely generalized. For this goal some strategies are suggested: to use sound design methodologies oriented to guarantee accessibility and usability; to ensure user involvement in the design process; and to bear legal and ethical aspects in mind.

K.Vamshidhar
CSE II/IV

Technical Write-ups



P Versus NP Problem

The **P versus NP problem** is a major unsolved problem in computer science. It asks whether every problem whose solution can be quickly verified (technically, verified in polynomial time) can also be solved quickly (again, in polynomial time).

The underlying issues were first discussed in the 1950s, in letters from John Forbes Nash Jr. to the National Security Agency, and from Kurt Gödel to John von Neumann. The precise statement of the **P versus NP** problem was introduced in 1971 by Stephen Cook in his seminal paper "The complexity of theorem proving procedures" (and independently by Leonid Levin in 1973) and is considered by many to be the most important open problem in computer science. It is one of the seven Millennium Prize Problems selected by the Clay Mathematics Institute, each of which carries a US\$1,000,000 prize for the first correct solution.

V.Kuldeep
CSE II/IV

Student Innovations

S.No.	Name	Class	Event	Dates	Institute/ Venue
1	Sai sravani Maturi	CSE III/IV	Hyderabad Youth Assembly	2015-16	Street Cause Eforce
2	G.Vichethana Reddy	CSE III/IV	Two Day Workshop on Robotics	03/03/16- 04/03/16	SakRobotix Lab Pvt.Ltd.
3	Rhema sakhina	CSE II/IV	Techy Panda, Sadhya-2k16	12/02/16	Matrusri Engineering College
4	Rhema sakhina	CSE II/IV	SOFT – WHERE, Sadhya-2k16	12/02/16	Matrusri Engineering College
5	Rhema Sakhina	CSE II/IV	CODE ELIXIR, Sadhya-2k16	12/02/16	Matrusri Engineering College
6	A.Ravali	CSE II/IV	Art & Craft Exibition, Sadhya-2k16	12/02/16	Matrusri Engineering College
7	G.Vichetana	CSE II/IV	SOFT – WHERE, Sadhya-2k16	12/02/16	Matrusri Engineering College
8	G.Vichetana	CSE II/IV	Techy Panda, Sadhya-2k16	12/02/16	Matrusri Engineering College
9	G.Vichetana	CSE II/IV	Code Elixir, Sadhya-2k16	12/02/16	Matrusri Engineering College
10	J.Bhuvana	CSE II/IV	Techy Panda, Sadhya-2k16	12/02/16	Matrusri Engineering College
11	Srija Adusumalli	CSE III/IV	JNTU EXITE	23/05/16	JNTU Hyderabad