NEWS LETTER

Department of Computer Science & Engineering

A Half- Yearly Newsletter

TECH TIMES

PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY

EDITORIAL BOARD

Contents

Department of Computer Science & Engineering

The Department of Computer Science and Engineering was formed in the year 1999. The department has started B.Tech program with an initial intake of 40 in the year 1999 and 120 from 2007 onwards. The department has also started M.Tech program with an initial intake of18 in the year 2006, and an increase in the intake to 36 in the year 2011. The department is accredited by NBA in the year 2007 for a period of 3 years and was reaccredited in the year2012 for a period of 2 years. And was reaccredited in 2016 for a period of 3 years.

The department has 36 qualified teaching staff with 5 PhDs and 31 M.Techs. Our faculty members aim at delivering top class education blending their rich research experience with class room teaching. The entire faculty is involved in research activities and has published/presented 239 papers in national and international journals and conferences.

The department has ACM student chapter and CSI student chapter. The department offers various certification training programs to students like APSSDC Mobile App Development Program, CISCO: CCNA certification and R-Programming Certification through APSSDC-NASSCOM to make the students well prepared to face the industry. The department has also established Intel FICE Lab to encourage

Guest Lectures / Workshops Orgnaized

1. A guest Lecture was conducted on "CAREER PLANNING" by Mr.V. Srinivasa Reddy, software Engineer, Cloud era ,USA, on 05.01.2017

2. The Department of CSE has organized Three Day training Program on "BIG DATA ANALYTICS" from 6th Feb'17 to 8th Feb'17 by ACM PVPSIT-ACM Student Chapter

3. The Depatment of CSE has conducted 3 days workshop on "PYTHON" from 23-3-17 to 25-3-17.

Resource Persons:

1. Dr D.V Ramana Data Science Consultant CSI SIG Big Data Analytics-Executive Committee member CSI Hyderabad Chapter

2. Prapull Khanderao Data Engineer at Wissen InfoTech M.S Computer Systems Engineering University of East London London

Co-Ordinators: G.Lalitha Kumari, Sr.Asst.Prof and Y.Surekha, Asst.Prof

4. The Depatment of CSE has conducted one-week FDP on "Computational Intelligence And Its Applications in Science & Enggineering" from 24-4-17 to 28-4-17.

Resource Persons:

1. Dr.G Ganapathy Panda,Professor, IIT Bhubaneswar.

2. Dr. Anand J Kulakarni,Head and Associate professor, Symbiosis Inst. Of Technology, Symbiosis International University.

3. Dr. S K Udgata, Professor, University of Hyderabad.

4. Dr. G Ram Brahmam, Innovation Labs, TCS.

5. Dr. Debi P Acharya, Professor, VIT, Vellore.

6. Dr. Suresh Chandra Satapathy, Professor & Head Dept. of CSE, PVPSIT.

7. Dr. Satish Reddy, Asst. Professor, IIT Rourkee.

8. Dr. G Naresh Kumar, DRDL, Hyderabad.

Co-Ordinators: Dr. M V Rama Krishna, Professor

Faculty acheivements:

1. Dr.S.C.Satapathy has received the "Best Leadership of the Year" under Academic Segment 2017 presented on the occasion of ICTIS 2017 by ASSOCHAM(Associated Chambers of Commerce of India) & GR Foundation on 25th March 2017.

2. Dr. Suresh Chandra Satapathy acted as Keynote Speaker for the conference held at Duy Tan University, Da Nang City, Vietnam during 15-17 July'17.

3. Dr.A.Sudhir Babu has got the Certificate of Excellence in Reviewing by IJIRST Journal

4. Dr.A.Sudhir Babu has got the Certificate of Excellence in Reviewing by IJSTE Journal

5. Dr.A.Sudhir Babu has got the Certificate of Reviewing by GRD Journal.

Faculty Publications

1. Dr.S.C.Satapathy has published a paper "Estimation of Complexity by Using an Object Oriented Metrics Approach and its Proposed Algorithm and Model" in International Journal of Networking and Virtual Organisations.

2. V. Siva Parvathi, M. Sailaja has published a paper "An Extended Deep Learning Approach to Achieve Promising Performance in Classifying Skewed Data Sets" in IJSETR May-17

3. Dr. Suresh Chandra Satapathy has published a paper "Entropy based Segmentation of Tumor from Brain MR Images - A study with Teaching Learning Based Optimization**, in** Pattern Recognition Letters**." In ELSEVIER June-2017.**

Presentations in seminars or conferences:

1. Dr.S.C.Satapathy has presented a paper " Multi-Focus Image Fusion Method using 2D-Wavelet Analysis and PCA" in 2nd International Conference ICTIS 2017, Springer Series.

2. Dr.S.Madhavi has presented a paper "Home Automation System Using Android" at the National Conference on "Recent Trends in Information Technology 2017" on 10th March 2017.

Workshops Attended by Faculty

1. Dr. B. Srinivasa Rao, G. lalitha Kumari, Y. Surekha, A. Vanamala Kumar has attended 1 week FDP on "Web Page Designing using PHP my SQL" organised by NITTTR, Kolkata from 15-19 May'17.

2. Mr.A.Vanamala Kumar has attended an awareness workshop on " Designing and Delivering Online Courses with Moodle-MOOC Platform &

Open Educational Resources", organized by P.B.Siddhartha College of Arts and Science in January 20th ,2017

3. Ms.A.Divya and Mr.D.Lokesh Sai Kumar has attended a one-week workshop on "Scientific Educational Practices" Organized by VRSEC, during 23rd January to 31st January, 2017.

4. S. Phani Pravven has participated in 51 CSI Annual Convention as State Level Student Coordinator-Andhra Pradesh at Coimbatore on 23~25, January, 2017.

5. Mrs.A.Ramana Lakshmi has Participated in One-Week FDP on "Data Analytics With R & Tabule" organized by Andhra University, Vizag during 8th Jan to 12th January, 2017.

6. Mr.K.Syama Sundara Rao has attended a workshop on "Progressive Web Apps" at Google,Gurugram from 11-4-17 to 13-4-17.

7. Dr. S. Madhavi, Dr. B. Srinivasa Rao, J. Rama devi, G. Lalitha Kumari, V. Siva Parvathi, B.Lakshmi Ramani, Y.Surekha, D. Sree Lakshmi, T. Sri Lakshmi, A.Madhuri, S. Phani Praveen, A. Divya, K. Venkatesh, A. Vanamala Kumar has attended one-week FDP on **"Computational Intelligence and its Applications in Science & Engineering"** from 24-4-17 to 28-4-17organized by Dept. of CSE, PVPSIT.

8. Dr.A. Sudhir Babu has participated 3 day workshop on "PYTHON" in Dept. of CSE, PVPSIT from 23-25 March'17.

9. Dr. S. Madhavi has participated 3 day workshop on "PYTHON" in Dept. of CSE, PVPSIT from 23-25 March'17.

10. K.S.S.Rao has participated 3 day workshop on "PYTHON" in Dept. of CSE, PVPSIT from 23-25 March'17.

11. A.Madhuri has participated 3 day workshop on "PYTHON" in Dept. of CSE, PVPSIT from 23-25 March'17.

12. Dr.B.Srinivasa Rao, D.Sree Lakshmi, J. Rama Devi has participated Two-Day National Seminar on "New Education Policy-Goals and Imperatives" organized by PB Siddhartha college of Arts & Science, in

Collaboration with AP State Council of Higher Education during 14-15 March 2017.

13. Dr.B.Srinivasa Rao B.Lakshmi Ramani, D.Swapna, M. Sailaja has participated National workshop on "Innovative Teaching Stratagies in Engg. Education" organized by VRSEC on 24th March 2017.

Students Acheivements

1. BVV Haranadh and Nuruddin of III year has completed their internship on "Efficient Implementation of Tracking filters on DSP Processor" at NITK Surathkal during 22nd May to 27th June.

2. 2 teams were selected for HACKATHON'17

Team1: dCoders-Ministry of Food Processing

Mentors: K Syama Sundara Rao, B. Vishnu Vardhan

Members: Ganesh Sai Avula, Allanki Sai Krishna, Kondapalli Sai Sudheer, K Harsha, G J K N S Avinash, Desu Meghana

Smart India Hackathon
The Project entitled "FARMER SPACE" was implemented in
Smart India Hackathon 2017 conducted at Amritsar Institute of Engineering and Technology
and stood 10th place among 40 Teams

Team 2: Inquisitive Clans -Ministry of Science and Technology

Mentors: Dr.B.Srinivasa Rao, G.Lalitha Kumari, Y.Surekha

Members: K.N.Ganesh Datta, B.V.B.Haranath, K.Venkatasai, K.Narayana, G.Ramprasad, D.Akhil

3. 1 team was selected for Finals by UNISYS, Bangalore for Cloud 20/20.

B. Sravani, G. Jay Paul, D. Jyothirmai, D. Durga Srinath.

4. 3 students qualified GATE exam with score

1. V. Venkata Siva Sai Tej   -459

2. N. Vamsi   -395

3.D.Durga Srinath   -264

5. 59 members were selected on various Campus Placements:

AMAZON

Sl.No	Rollno	Name Of the Student	Branch
01	13501A0506	BASAVA HARSHITA	C.S.E
02	13501A0514	BUVANESWARI GANESAN	C.S.E
03	13501A0536	KANTI TUMMALA	C.S.E
04	13501A0541	KOGANTI PARDHA SAI CHOWDARY	C.S.E
05	13501A0556	MANASWINI GORTHI	C.S.E
06	13501A0564	MUTHYALA MOHANKRISHNA	C.S.E
07	13501A05B2	YELAMARTHI MANOJ KUMAR	C.S.E

Sutherland Global Services

Sl.No	Rollno	Name Of the Student	Branch
01	13501A0503	ATLURI CHARITA	C.S.E
02	13501A0509	BEZAWADA JHANSI RANI	C.S.E
03	13501A0511	BOLLAM DIVYA	C.S.E
04	13501A0518	DASI BHARGAVI	C.S.E

05	13501A0520	DERANGULA DEEPTHI	C.S.E
06	13501A0521	DHANEKULA NAGA SAI ALEKHYA	C.S.E
07	13501A0527	GONTUPULI SIRISHA	C.S.E
08	13501A0547	KOTHA BHAVYA	C.S.E
09	13501A0554	MADDALI NAVEEN	C.S.E
10	13501A0572	PALLE KEZIA CHRISTENA	C.S.E
11	13501A0573	PARASA SUNITHA	C.S.E
12	13501A0579	POLAVARAPU JAGADEESH	C.S.E
13	13501A0582	PRATHIPATI LENIN VAIBHAV	C.S.E
14	13501A0587	RATAKONDA SANDHYA	C.S.E
15	13501A0590	SHAIK AMEER BASHA	C.S.E
16	13501A0597	SURI UDAYA LAKSHMI	C.S.E
17	14505A0510	KATHARI GOPIKRISHNA	C.S.E
18	14505A0515	LANKAPALLI GOWTHAMI	C.S.E
19	14505A0517	MOHAMMAD SANAVULLA	C.S.E
20	14505A0523	VEMULAPALLI BHAVYA SREE	C.S.E

Virtusapolaris

Sl.No	Rollno	Name Of the Student	Branch
01	13501A05A5	UMME AIMAN	C.S.E
02	13501A05A8	VARRI VENKATA SIVA SAI TEJ	C.S.E

CSS Corp

Sl.No	Rollno	Name Of the Student	Branch
01	13501A0554	MADDALI NAVEEN	C.S.E

IBM

Sl.No	Rollno	Name Of the Student	Branch
01	13501A0510	BODDAPATI VENKATA BHANU DHEERAJ	C.S.E
02	13501A0513	BUDDHA MADHU	C.S.E
03	13501A0534	KAMBHAMPATI HEMASRI	C.S.E
04	13501A0542	KOLLI ALEKHYA	C.S.E
05	13501A0574	PATAPANCHULA ANUSHA	C.S.E
06	13501A0581	POTNURI NEELIMA	C.S.E
07	13501A0585	RAJULAPATI CHAMUNDI NAGA UDAYASREE	C.S.E
08	13501A05A6	VADLAMUDI JHANSI RANI	C.S.E
09	13501A05A7	VAJRAPU KAVYA SREE	C.S.E
10	14505A0514	KOSURU TEJASWI	C.S.E

Hinduja Global Solutions

Sl.No	Rollno	Name Of the Student	Branch

01	13501A0535	KANIKARAM LAVANYA	C.S.E
02	13501A0539	KODALI NAGA LAKSHMI	C.S.E
03	13501A0551	KURMA SAI KUMAR	C.S.E
04	13501A0555	MADDU JAYA BINDU RAVALI	C.S.E
05	13501A0558	MATTA SNEHA	C.S.E
06	13501A0565	NAKKA KANAKA DURGA	C.S.E
07	13501A0584	RACHAMALLA NAGA SIRISHA	C.S.E
08	14505A0503	BUDDULA RAMESH	C.S.E
09	14505A0504	GAMIDI YAAGNESWARA SAI SESHU	C.S.E
10	14505A0505	GOLLAPUDI SRIKAVYA	C.S.E
11	14505A0508	KAKARLA UMA MAHESWARI	C.S.E
12	14505A0509	KARANAM PRASANTH	C.S.E
13	14505A0511	KATURU HEMASAI	C.S.E
14	14505A0518	SARIPALLI ANANTH	C.S.E
15	12501A0541	KARANAM VIJAYA DURGA MOULIKA	C.S.E

KJ Systems Pvt. Ltd.

Sl.No	Rollno	Name Of the Student	Branch
01	13501A0501	ALLA PRANAVI	C.S.E
02	13501A0528	GUNJA PREMCHAND	C.S.E
03	13501A0544	KONDISETTY OOHASRI AKHILA	C.S.E
04	13501A0580	POTLURI JAISREE	C.S.E

Industrial Tour

 is a pioneer and one of the fastest growing IT Services Company providing Financial Transaction Solutions to the global Tier 1 customers in Banking Industry. The core competency of our business is our Financial Transaction platform which includes Mobile Banking, Mobile Wallet and Services Aggregation for consumption on the same platform.

MPower Bangalore branch is now dealing with LIFERAY . It is a Portal frame work. The technology used is java. Liferay Portal is a free and open source enterprise portal software product. Distributed under the GNU Lesser General Public License and optional commercial license, It is primarily used to power corporate intranets and extranets

MPower has branches in Us, Canada.etc., It has clients all over the world.

Among them HCL, CISCO ,TCS,IBM,WIPRO..etc.,

MPower provides a package of up to 3.5 LPA

And they are expecting professionals in Advanced Java ,data structures ,Web Technologies.

Liferay + spring provides best features for portal framework.

Choosing a different path helps in carrier development.

Here there is a need on Java Developers. Since liferay is made from java.

MPower MISSION :

MPower envisions to be the technology provider of choice in the financial inclusion space, connecting the unbanked and underbanked across the globe and delivering services on the same platform keeping their savings secure.

MPower VISION :

To distinguish MPower as a global innovative technology provider of hosted and distributed solutions in the financial transactions, analytics and IoT spaces.

BIG DATA

What is Big Data?

First of all, what is Big Data? In its purest form, Big Data is used to describe the massive volume of both structured and unstructured data that is so large it is difficult to process using traditional techniques. So Big Data is just what it sounds like – a whole lot of data.

Big Data has four important characteristics that are known in the industry as the 4 V's:

- Volume – the increasing amount of data that is generated every second
- Velocity – the speed at which data is being generated
- Variety – the different types of data being generated
- Veracity – the messiness of data, i.e., it's unstructured nature

Glossary of Big Data Terms

- _Algorithm_ – mathematical formula run by software to analyze data
- _Amazon Web Services (AWS)_ – collection of cloud computing services that

help businesses carry out large-scale computing operations without needing the storage or processing power in-house

- _Cloud (computing)_ – running software on remote servers rather than locally

- _Data Scientist_ – an expert in extracting insights and analysis from data
- _Hadoop_ – collection of programs that allow for the storage, retrieval and analysis of very large data sets
- _Internet of Things (IoT)_ – refers to objects (like sensors) that collect, analyze and transmit their own data (often without human input)
- _Predictive Analytics_ – using analytics to predict trends or future events
- _Structured v Unstructured data_ – structured data is anything that can be organized in a table so that it relates to other data in the same table. Unstructured data is everything that can't.
- _Web scraping_ – the process of automating the collection and structuring of data from web sites (usually through writing code)

Why Has It Become So Popular

Big Data's recent popularity has been due in large part to new advances in technology and infrastructure that allow for the processing, storing and analysis of so much data. According to Inc, in 2012 the Big Data industry was worth $3.2 billion and growing quickly.

Businesses have also started taking notice of the Big Data trend. In a recent survey, *"Eighty-seven percent of enterprises believe big data analytics will redefine the competitive landscape of their industries within the next three years."*

Best Big Data Tools

- OpenRefine
- WolframAlpha
- import.io
- Tableau
- Google Fusion Tables

Future of Big Data

What the future of Big Data really holds, no one can predict. What is certain is that Big Data is here to stay. The amount of data we are producing is only going to increase and by analyzing it, we can learn and eventually be able to predict some pretty cool things. Very soon, Big Data will touch and transform every industry and every piece of your daily life.

--By S.Faiyazthulla

Turing Award Winner For 2016: SIR TIM BERNERS-LEE

Inventor of World Wide Web Receives ACM A.M. Turing Award
Sir Tim Berners-Lee Designed Integrated Architecture and Technologies
that Underpin the Web

Sir Tim Berners-Lee invented the World Wide Web in 1989, envisioning a global information space where documents and other web resources could be identified with uniform names, where documents and resources could be retrieved in a standard way, and where documents could be connected by hypertext links. To this end, Sir Tim introduced a universal resource naming scheme based on URIs and URLs; the HTTP protocol for sending and receiving information across the Internet in a scalable and decentralized way; and the HTML markup language, which provided a standard way for documents to be created and displayed in a device-independent manner and linked to other documents. In addition, Sir Tim created the first web browser and web serving software, and he did so in an open- source fashion that catalyzed the Web's further development.

While all know the World Wide Web as having had enormous societal impact, this ACM Turing Award also recognizes the Web as a contribution of lasting and major technical importance to the computing community, due to its simplicity, elegance, and extensibility. While Sir Tim could have assembled more complex technologies with additional features, his design was an elegant solution that enabled enormous capability—both initially and over time:

- Sir Tim recognized that simplicity was needed for widespread adoption (particularly in the scientific community he served). His protocol simplifications (including his insistence on statelessness) made the design easy to implement; his use of human-readable scripting made the system comprehensible and easy to debug.

- Sir Tim built HTML into the Web, recognizing that this would make data comprehensible and useful to anyone trying to publish information.

- Sir Tim's initial browser and early web server made the system immediately useful.

- Sir Tim furthered widespread adoption of the Web by freely distributing a software package and creating an open-source community that enabled many others to use and refine the technology.

The Web design is described in an early *Communications of the ACM* paper ("The World Wide Web," Aug. 1994, Volume 37, No. 8, pp. 76-82), where Sir Tim described his vision for the Web, as well as the technical underpinnings to make that vision a reality.

Sir Tim's contributions to the Web go far beyond the creation of the original code. He created and shaped the World Wide Web Consortium, which has developed the standards that are so crucial to Web development and use. He was also a founder of the Web Science Trust, a British charitable trust devoted to the interdisciplinary study of the Web and its effect on society, and the World Wide Web Foundation, which works to establish the open web as a public good and a basic right. Sir Tim continues to extend his original invention and is a passionate advocate for adding semantic annotation to the web.

In short, the Web is what it is today because of Sir Tim's brilliant design, based on his synthesis of several key ideas and his technical leadership. The ACM recognizes Sir Tim with the Turing Award for this enduring contribution to the computing community.