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DEPARTMENT OF ELECTRONICS & COMPUTER ENGINEERING NEWSLETTER

Green Fields, Vaddeswaram, Guntur Dist., A. P., 522 502.

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Dr. K. Raghava Rao, HOD-ECM

July - September, 2016

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Editorial Message

Dear readers, this newsletter covering the period from July 2016 to September 2016 offers a view of the academic, professional, research and center for extension activities of the Department.

The Department has organized subject based seminar on **“RASPBerry PI and IOT”** for the students and conducted a one-day workshop on **“RASPBerry PI”** for KLU faculty on 23rd July 2016.

IOT Research Group and Department of Electronics & Computer Engineering organized a two-day subject based workshop on **“Internet of Things”** for faculty on 27th and 28th August 2016.

Women's forum conducted a seminar on **“Respect On Women in our Culture”** for Girl Students on 30th August 2016.

The Department organized an ALUMNI TALK on **‘Startups and Developing Entrepreneurship Skills’** for II, III and IV year B.Tech students on 1st September, 2016.

Renowned companies like **Infosys, Wipro, CTS, Mind tree and Capgemini** conducted recruitment drive in the campus and Selected many students to onboard this year.

The editorial team thanks all its patrons for their support of the newsletter. We welcome suggestions from all our readers who wish to see their ideas incorporated in the subsequent issues.

“ Together we will win
 Knowledge makes you great
 Nothing is impossible
 - Dr.Kalam



Placements:

Department of Electronics and Computer Engineering Placements status of 2016-2017 batch

S.No.	Date of Interview	Name of the Company	No. of students attended	No. of students qualified in written	No. of students selected
1.	12.09.2016	Infosys	34+14	10+1	5
2.	17.09.2016	Wipro	35	1	0
3.	20.09.2016	Amazon	10+7		
4.	23.09.2016	CTS	36	6	2
5.	28.09.2016	MindTree	24	4	2
6.	13.10.2016	Capgemini	28	6	4

A Report on

Subject Based Seminar on **“Rasperry PI and IOT”**

Organized by Department of Electronics and Computer Engineering

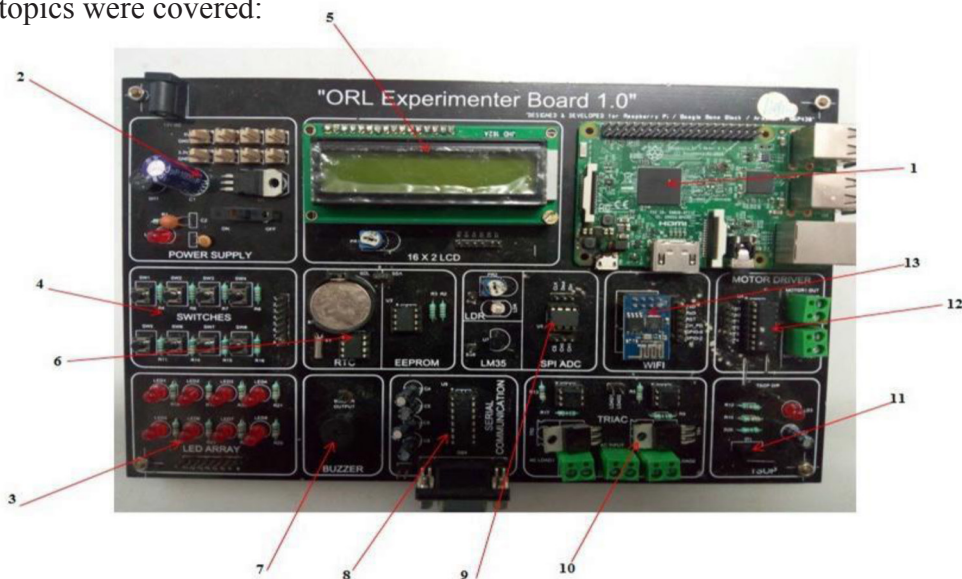
The department of Electronics and Computer Engineering has organized a Seminar on **“RASPBerry PI AND IOT”** for the students and faculty by Mr.Pranay, Application Engineer from

Orange Research Lab(ORL) on 23/07/2016 at 1 p.m. He discussed on the Rasperry Pi and IoT technology for various applications.

He explained the importance of IoT in current scenario in different fields. He further narrated how Raspberry Pi 3 Systems developed by ORL support

lot of features which enables the faculties, researchers and students to explore different aspects and develop different experiments applications in IoT field.

The following topics were covered:



- 1. Main units of Raspberry Pi.
- 2. Role of Raspberry Pi in different application
- 1. Raspberry Pi
- 2. DC socket for input power
- 3. LEDs Array
- 4. Push-Button switch array
- 5. 16x2 LCD (Liquid Crystal Display)
- 6. Read Time Clock (RTC)

- 7. Buzzer
- 8. DB9 connector for UART communication
- 9. Sensors (LM35 and LDR connected to ADC input channel)
- 10. TRIAC
- 11. TSOP
- 12. Motor Driver
- 13. Wi-Fi.



Mr. Pranay, Application Engineer from Orange Research Laboratory (ORL) addressing the faculty and students

One Day Workshop on “Raspberry Pi”

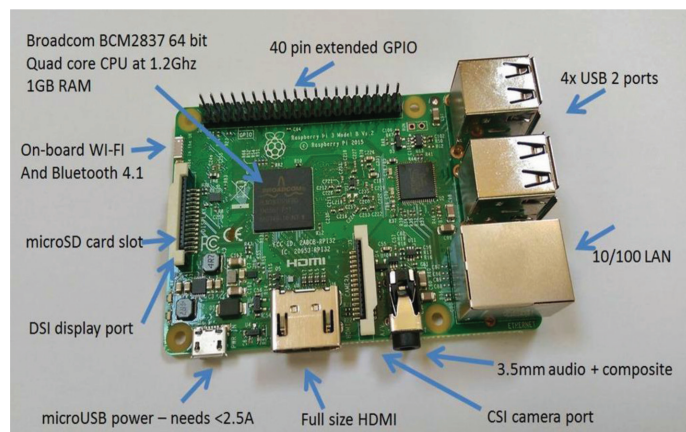
Organized by : DEPARTMENT OF ELECTRONICS
AND COMPUTER ENGINEERING

The department of Electronics And Computer Engineering has organized a subject based one day workshop on “RASPBERRY PI” for the faculty by Mr. Mahan RK, Manager Corporate Relations from Orange Research Lab(ORL) on 23/07/2016 at 10:00 a.m. He discussed on the Raspberry Pi technology for various applications.

Raspberry Pi

The Raspberry Pi is a single board computer developed in the UK by the Raspberry Pi Foundation. The Raspberry Pi is a three board configuration through licensed manufacturing agreements with Newark elements11, RS Components and Eagoman.

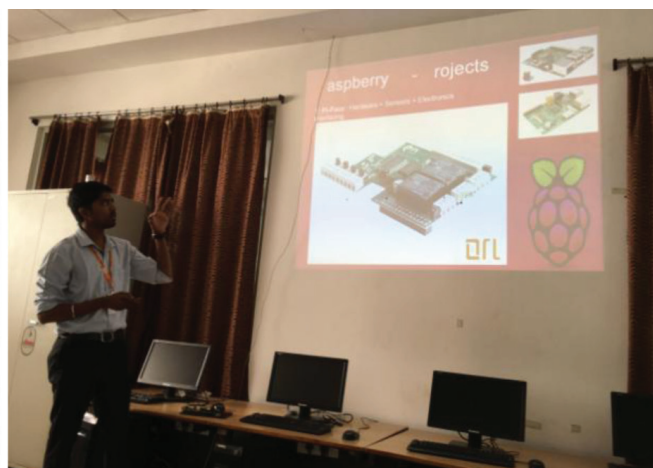
The Foundation provides Debian and Arch Linux distributions for download. Tools are available for python as the main programming language, with



support for BBC BASIC (via RISC OS image or the brandy basic clone for Linux), C, C++, Java, Perl and Ruby.

The Resource person covered the following experiments:

1. Interfacing LED with Raspberry Pi
2. Push Buttons Switches interfacing with Raspberry Pi
3. Interfacing LCD with Raspberry Pi
4. Interfacing Buzzer with Raspberry Pi
5. Serial Communication with Raspberry Pi etc.....



Mr. Mahan Rk demonstrating how experiments can be carried out by Raspberry Pi



Faculties and students Participation in the Workshop

Two Day Workshop on “INTERNET OF THINGS”

**Organized by : DEPARTMENT OF ELECTRONICS
AND COMPUTER ENGINEERING**

The department of Electronics And Computer Engineering has organized two days workshop on “INTERNET OF THINGS” for the faculty. Mr. Dwarka Nath, Project Engineer, C-DAC, Bangalore was the resource person. He focused on the recent advances in wireless communication and electronics that have led to the prominence of Wireless Sensor Network (WSN) as the backbone technology for various applications. He demonstrated how WSN by C-DAC had enabled the researchers and students to explore different aspects and develop different applications in the field of WSN.



Dr. K. Raghava Rao–HOD–and Dr. K. Sreenivasa Ravi, Professor-ECM addressing the gathering



Faculties and students Participation in the Workshop
Day 2 (28th August, 2016)

The second day of workshop was started at 10:00 am in the morning. The session was started with the hands on experience and practical sessions on IOT.



Practical sessions in the workshop



Mr. Dwarka Nath illustrating the concepts of
Wireless Sensor Networks And IOT

Day 1(27th August, 2016)

The first day of the workshop started at 10:00 a.m. with a welcome note by Dr. K. Sreenivasa Ravi, Professor-ECM and later on brief introduction was given by Dr. K. Raghava Rao, HOD, ECM.



Women's Forum

Respect On Women

in Our Culture

ECM Women's forum on 30th August 2016

The Programme started with a welcome note by Mrs. P.S.G.Aruna Sri, Assoc. Professor Department of ECM. She introduced the resource person to the gathering.



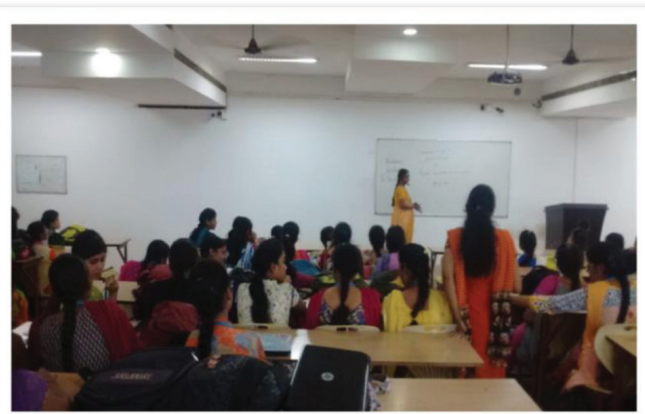
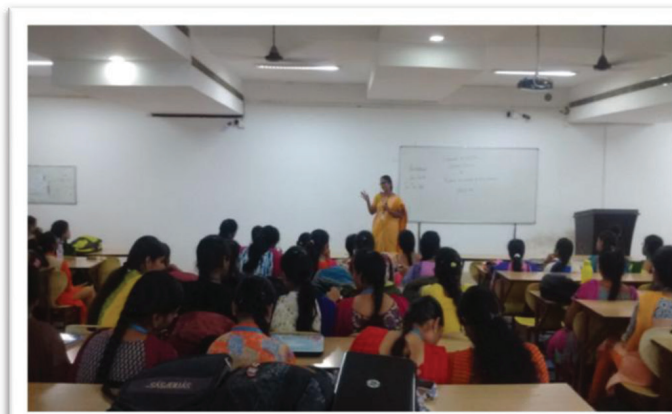
Dr. G. Sumati discussed on the topic "Respect on women in our culture" in her words -

Women constitute almost half of the world's population. Yet their social, economic, and political status is lower than that of men in all countries. In India, there were distinct stages of rise and fall in the status of women.

A denouement of the personal desideratum strengthens the respect towards others – also and especially towards women, who already practice an invalidation of the ego in their daily life. The devotion towards the superior – also towards the family – and the willingness to sacrifice, in the sense of abstinence to the extent of self-sacrifice, forms the existence of women in India on all societal levels in all periods. Women are denied opportunities to participate in the decision making process. Even when the decisions are to affect their well-being, they are only passive observers. The primary challenge facing women today is to increase their participation so that they get hold of the situation and become actively involved the process of decision making.

Finally vote of thanks was given by Mrs. Krishnaveni and Ms. K. Bharathi, Asst. Prof, Department of ECM. they thanked Dr. G. Sumati for sparing her time and giving wonderful suggestions to the students.various applications.

Program Overview:



Alumni Talk on Startups and Entrepreneurship Skills

Organized by : Department of Electronics and Computer Engineering

The Department of Electronics and Computer Engineering organized An ALUMNI TALK on 'Startups and developing entrepreneurship skills' in the interest of II,III and IV year B.Tech students, organized on 1st September 2016. The department invited Mr. Mansoor vali Shaik, CEO of Fest Samachar Services Private Limited."Fest Samachar" shares all the information about the Technical Fest Samachar, Cultural Fest Samachar, Sports Fest Samachar, Management Fest Samachar, Literary Fest Samachar, Conferences, Seminars, Workshops, Symposiums, Pro-Shows, Marathons etc.

Mr. Mansoor Vali Shaik had briefed about how the boom in the Indian start-up ecosystem has made a conspicuous impact on certain critical areas such as education, healthcare, employment, agriculture etc.

He motivated the students to come up with their own start-ups, establish themselves in the world with their innovative ideas and disruptive approaches.

Dr. K. Raghava Rao HOD presented a token of gratitude to Mr. Mansoor vali shaik.

The students interacted with the speaker to gain some more information on Start-ups and Entrepreneurships skills.

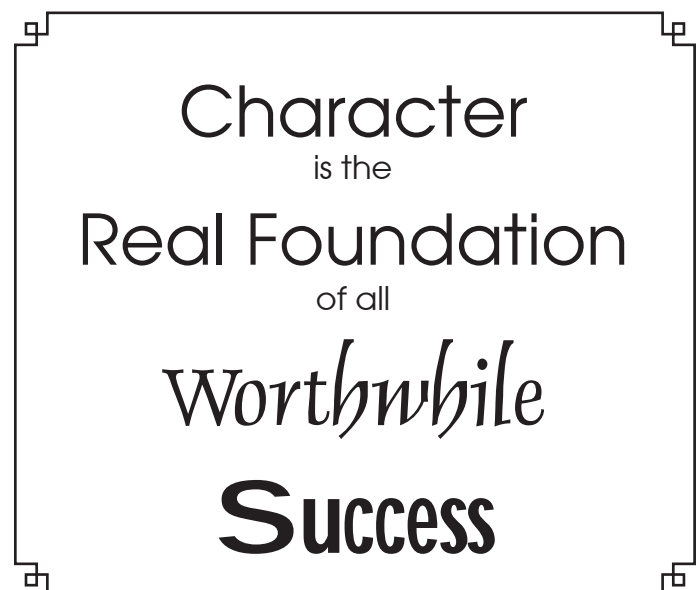


Mr . Mansoor Vali CEO Fest Samachar services
addressing the students



Publications

1. K. RAGHAVA RAO published a paper entitled “Mitigating energy utilization and time delay in wireless sensor networks using multiple sink relocating method “in INDJST ISSN NO:0974-5645 Volume No:9 Issue No:30 in SCOPUS, July 2016.
2. NVK RAMESH published a paper entitled “face recognition based attendance management system with raspberry pi 2 using Eigen faces algorithm” in ARPN-JEAS ISSN NO:1819-6608 Volume No:11 Issue No:13 in SCOPUS, July 2016.
3. N. VENKATRAM published a paper entitled “Indian Sign Language Recognition: A Comparison Between ANN and FIS”, in JATIT ISSN NO: 1992-8645 Volume No. 89, Issue No:2 in SCOPUS, July 2016
4. K. RAGHAVA RAO published a paper entitled “High-leach Energy Efficient Routing Protocol for Wireless Sensor Networks “in INDJST ISSN NO: 0974-5645 Volume No: 9, Issue No. 30 in SCOPUS, July 2016.
5. K. RAGHAVA RAO published a paper entitled “An Android based Automatic Irrigation System using a WSN and GPRS Module” in INDJST ISSN NO:0974-5645, Volume No. 9, Issue No. 30 in SCOPUS, July 2016.
6. NVK RAMESH published a paper entitled “Estimation of Doppler Spread Dading using Modified Jake’s Model” in ARPN-JEAS ISSN NO:1819-6608, Volume No.11, Issue No.15 in SCOPUS, August 2016.
7. D.B.K.Kamesh published a paper entitled “Camera Based Text to Speech Conversion Obstacle and Currency Detection for Blind Persons” in INDJST ISSN NO: 0974-5645 Volume No. 9, Issue No. 30, in SCOPUS, August 2016.
8. D.B.K.Kamesh published a paper entitled “Authenticating Clients without using Their Login IDs Through Mind Metrics” in INDJST ISSN NO: 0974-5645, Volume No. 9, Issue No. 30 in SCOPUS, August 2016.
9. D.B.K.Kamesh published a paper entitled “Building Fault Tolerance within Clouds at Network Levels” in IJECE ISSN NO: 2088-87-8, Volume No. 6, Issue No. 4 in SCOPUS, August 2016
10. R.BULLI BABU published a paper entitled “Contemplation of Expunged Data with the help of Digital Forensic Toolkits” in INDJST ISSN NO:0974-5645 Volume No: 9, Issue No. 30 in SCOPUS, August 2016.
11. P.S.G. ARUNA SRI published a paper entitled “Securing Message at END to END Mobile Communication using Cryptographic Algorithm” in INDJST ISSN NO: 0974-5645 Volume No. 9, Issue No. 30 in SCOPUS, August 2016.
12. T. NARENDRA BABU published a paper entitled “FPGA Implementation of High Speed Error Detection and Corrcetion of Orthogonal Codes Using Segmentation Method” in INDJST ISSN NO:0974-5645, Volume No. 9, Issue No:30in SCOPUS, August 2016.
13. K. RAVI KUMAR published a paper entitled “Removal Of Real World Noise In Speech: Comparision Of Various Paarmeters Using Kalman And H-Infinity Filter Algorithms” in INDJST ISSN NO: 0974-5645, Volume No. 9, Issue No. 30 in SCOPUS, August 2016.
14. K.RAVI KUMAR published a paper entitled “Texture And Shape Based Object Detection Strategies” in INDJST ISSN No: 0974-5645, Volume No. 9, Issue No. 30 in SCOPUS, August 2016.
15. D.B.K.KAMESH presented a paper entitled “Text to Speech Conversion” in International Conference (ICACSET 2016) ISSN No: 978-81-932858, Volume No. 3, Issue No. 1, September 2016.



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