

# **CASS Membership Development Workshop on Internet of Things**

**Organised by CAS/EDS Chapter, IEEE Hyderabad Section**

**Under the CASS Outreach Program**

**Proposer: Dr. Mohammed Arifuddin Sohel, Vice Chair, IEEE CAS/EDS Chapter of Hyderabad Section and  
Professor & Head, ECE Department, MJCET, Hyderabad**

The CAS/EDS Chapter of IEEE Hyderabad section organised a Three-day CAS Membership Development workshop on Internet of Things in Collaboration with ECE department of Muffakham Jah College of Engineering and Technology. Internet of Things is the next big technology wave in the Electronics world and it is very important for every engineering faculty and student to keep themselves abreast with this new technology.

This three day workshop was organised from 26-28 August 2017 and it was fully sponsored by IEEE CASS Headquarters for an amount of USD 2000 under the CASS Outreach Program. Twenty one teams of three students each from across states of Telangana and AP participated in this workshop.

Dr. Mohammed Arifuddin Sohel, Professor and Head ECED, MJCET and also workshop coordinator presented the welcome address and informed the gathering that this workshop is being organised to spread the knowledge about IoT to other engineering college students from rural areas. Each participating team was presented with a take away IoT kit at the end of the workshop to enable them to build their own project after going back to their college and spread the message of IEEE CASS and encourage CAS memberships.

63 IEEE student members participated in the workshop and performed nine experiments based on NODEMCU IoT kit in the two days. On the third day of the workshop, an innovative idea design contest was organised and each team presented their ideas for tackling local problems using concepts of IoT. Dr. M. Lakshminarayana, Chair of IEEE Hyderabad section who was the chief guest of Inaugural session, stressed that gaining deep knowledge of the subject is the need of the hour. Many senior IEEE members from IEEE Hyderabad section attended the inaugural session and applauded the efforts of CASS chapter.

Mr. Zafar Javed, Hon. Secretary, SUES appreciated the IEEE Hyderabad Section for its mission of knowledge dissemination and offered full support for all activities that will improve the employability quotient of engineers.



Release of workshop CD by M. Lakshminarayana and other dignitaries, participants of workshop

The three-day workshop included lecture by Dr. P.A. Govindacharyulu on Introduction to IoT, by Dr. Arif Sohel on "Communication Technologies for IoT and API development for IoT", by Prof. Atul Negi on "Cloud computing and IoT" on 26 and 27 August which were interlaced with nine hands on experiment on IoT starting from very fundamental experiment like LED blinking to advance experiments like weather monitoring with Twitter updates and thingspeak cloud using BLYNK app. Finally, the event closed with an innovative idea design contest on 28 August 2017. A team from Aurora group of Institutions won the first prize for the idea on use of IoT in military application. The workshop closed with a very interesting panel discussion on "Real IoT design and Career and entrepreneurial opportunities in IoT" for which the panelists were Mr. PVS Maruthi Rao(on SKYPE), Mr. Gopalakrishna Kuppa, Mr. Joginder Tennikala, Mr. N. Venkatesh(on SKYPE). The session was moderated by Mr. A.G. Krishna Kanth, Secretary, CAS/EDS Chapter. IoT kits were distributed to each participating team in the valedictory session and cash prizes were given to the teams in innovative idea design contest. The teaching assistants who had a key responsibility of ensuring that every single participant could get the desired results, were felicitated with certificate of appreciation.



Participants of IoT workshop with faculty and organisers

## Financial Details of IoT Workshop

Sl. No	Item	Quantity	Amount(USD)
1	IoT Kits	30	585
2	Supporting Accessories	Various numbers	108
3	Lunch For three days	100+80+80	520
4	Tea and Snacks	3days	82
5	Wifi Router +4G device	2	66
6	Stationary and printing	Various numbers	97
7	T Shirts for volunteers(TA)	17	107
8	Registration kits for participants	15 + 80	135
9	Cash Prizes	3	95
10	Traveling Allowance	4	68
11	Mementos for speakers and judges	15	208
	<b>Total Expenses</b>		<b>2,070</b>

### Income

1	Outreach Sponsorship	2000
2	Registration fees	372
	<b>Total Income</b>	<b>2372</b>

<b>Balance</b>	<b>302</b>
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Note: The balance amount is proposed to be utilized to repeat the workshop in rural areas of Hyderabad Section.