

2016 – 2017

A One day Workshop on Internet of Things

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About the College

S.R & B.G.N.R Government Arts and Science College was established in 1956 to cater the Educational needs of the Rural and Backward areas in and around Khammam town. Since Khammam is semi-urban area and is located aimed a commercially and industrially potential area, the college felt the need for introducing novel and Job Oriented Restructured courses to attend the demand of the day and the society.



About the Department:

S.R & B.G.N.R Government Arts and Science College, Khammam has introduced the Computer Course in the year 1997 with B.Sc Mathematics, Physics and Computer Science combination. In the immediately successive year, i.e,(1998-1999) computer course with B.A and B.Com classes also was introduced. Since then there has been a steady and evident development of the department. Currently the Courses are B.Sc (Phy. Sci.) as MPSC, MCCS, MSCS, MECS, B.Com (CA), B.A(CA).

About the Workshop

"Internet of Things" Workshop will be held at SR & B.G.N.R GOVT. ARTS & SCIENCE COLLEGE(Autonomous), Khammam, Telangana India, on 14th, September 2017. The aim of the workshop Internet of Things is to provide the skills mechanism to the students for learning application areas, Smart Cities (and regions), Smart Car and mobility, Smart Home and assisted living, Smart Industries, Public safety, Energy & environmental protection, Agriculture and Tourism as part of a future IoT Ecosystem. The workshop is to meet new challenges, collect new ideas and exhibit it as a practice during the session.



ONE DAY WORKSHOP

On

" INTERNET OF THINGS "

On

14TH SEPTEMBER, 2016

Organized By

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

SR & B.G.N.R GOVT. ARTS & SCIENCE COLLEGE

AUTONOMOUS

KHAMMAM

Under

STUDENT DEVELOPMENT PROGRAM

(To cultivate Student Learning and development by supporting Students in their Academic, Personal and Social Growth)

Resource Person

CH. JAMUNARANI, M.C.A, M.Phil

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

SR & B.G.N.R GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

VENUE

Room No: 205, COMPUTER LAB1





SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A),
Khammam

**Department of Computer Science & Applications is
organizing the following event.**

Name of the Event: Workshop

Date: 14-09-16

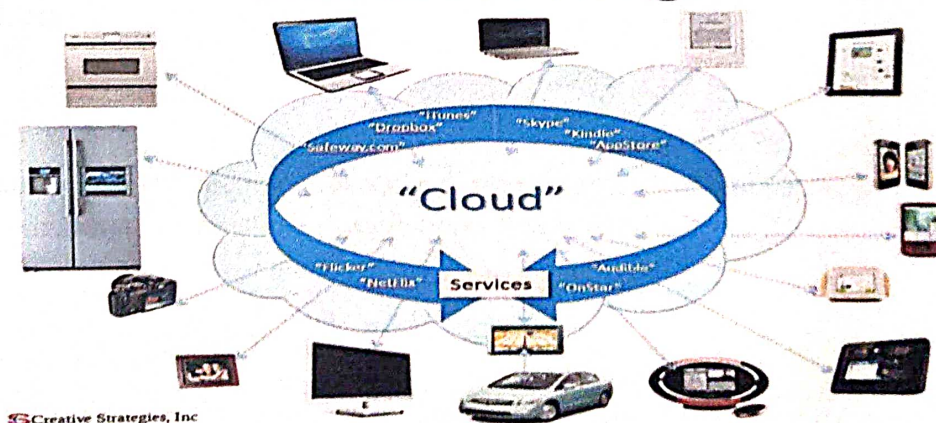
Venue: Computer Lab

Topic: Workshop on Internet of Things

Content Covered

Today the Internet has become ubiquitous, has touched almost every corner of the globe, and is affecting human life in unimaginable ways. We are entering an era of the "Internet of Things" (abbreviated as IoT). Now more pervasive connectivity where a very wide variety of appliances will be connected to the web. One year after the past edition of the Clusterbook 2012 it can be clearly stated that the Internet of Things (IoT) has reached many different players and gained further recognition. Out of the potential Internet of Things application areas, Smart Cities (and regions), Smart Car and mobility, Smart Home and assisted living, Smart Industries, Public safety, Energy & environmental protection, Agriculture and Tourism as part of a future IoT Ecosystem have acquired high attention.

Internet of Things



Over 9 billion 'Things' (physical objects) are currently connected to the Internet, as of now. In the near future, this number is expected to rise to a whopping 20 billion.

There are four main components used in IoT:

1. **Low-power embedded systems:** Less battery consumption, high performance are the inverse factors that play a significant role during the design of electronic systems.
2. **Cloud computing:** Data collected through IoT devices is massive and this data has to be stored on a reliable storage server. This is where cloud computing comes into play. The data is processed and learned, giving more room for us to discover where things like electrical

faults/errors are within the system.

3. **Availability of big data:** We know that IoT relies heavily on sensors, especially in real-time. As these electronic devices spread throughout every field, their usage is going to trigger a massive flux of big data.
4. **Networking connection:** In order to communicate, internet connectivity is a must where each physical object is represented by an IP address. However, there are only a limited number of addresses available according to the IP naming. Due to the growing number of devices, this naming system will not be feasible anymore. Therefore, researchers are looking for another alternative naming system to represent each physical object.

There are two ways of building IoT:

1. Form a separate internetwork including only physical objects.
2. Make the Internet ever more expansive, but this requires hard-core technologies such as rigorous cloud computing and rapid big data storage (expensive).

IoT Enablers:

- **RFIDs:** uses radio waves in order to electronically track the tags attached to each physical object.
- **Sensors:** devices that are able to detect changes in an environment (ex: motion detectors).
- **Nanotechnology:** as the name suggests, these are extremely small devices with dimensions usually less than a hundred nanometers.
- **Smart networks:** (ex: mesh topology).

As a quick note, IoT incorporates trillions of sensors, billions of smart systems, and millions of applications.

Application Domains: IoT is currently found in four different popular domains:

- 1) Manufacturing/Industrial business - 40.2%
- 2) Healthcare - 30.3%
- 3) Security - 7.7%
- 4) Retail - 8.3%

Conclusion

In the near future, IoT will become broader and more complex in terms of scope. It will change the world in terms of "*anytime, anyplace, anything in connectivity.*"



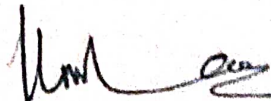
Department of Computer Science & Applications

Workshop on Internet of Things

B.SC / B.COM I YEAR

SNo	HTNo	Student Name	Signature
1	26172202	TEJAVATH HANUMANTHARAO	T. Hanumanth Rao
2	26172203	VUTUKURI VAMSHI	Vamshi
3	26172207	MEESALA SAIRAO AJITH	Ajith
4	26172210	MARKAPUDI NIROSHA	Nirosha
5	26172211	CHINNAKESI SREEKANTH PAVAN	Pavan
6	26172212	POLEBOINA NAVEENA	Naveena
7	26172214	KOTHAPALLY RAHUL	Rahul
8	26172215	KAPUDASI DANI PAUL	Dani Paul
9	26172216	SURAPALLI THIRUPATAMMA	Thirupatamma
10	26172217	DUGGI VENKATA NATH	Nath
11	26172219	THALLURI ANUSHA	Anusha
12	26172220	PAGADALA RAKESH	P. Rakesh
13	26172221	NAVYASRI NAROJU	NAROJU
14	26172222	CHILUKOTI GOPIKRISHNA	Gopi
15	26172225	RASAMANTI KAVYA	R. Kavya
16	26172226	SHAIK PARVEZ	Parvez
17	26172229	RAVURI GOPICHAND	R. Gopi Chand
18	26172238	EARPULA BHADRAMMA	Bhadramma
19	26172301	AKULA KIRAN	A. Kiran
20	26172304	MEKA VINAY	M. Vinay
21	26172305	PEDDOJU SHRAVANI	Shravani
22	26172307	CHIKATI HARSHINI	Harshini
23	26172308	VADDEPUDI NAGARAJU	Nagaraju
24	26172309	VALLALA VENKATESH	Venkatesh
25	26172313	SHAIK SAPOORA	Sai
26	26172315	PASUPULETI VENUGOPALA RAO	Venugopala Rao
27	26172316	THANGELLA SAIRAM	T. Sairam
28	26172319	SHAIK GOUSE	Sh. Gouse
29	26172321	SHAIK SHAHEEN	Shaheer
30	26172323	GARETI LAKSHMIKANTH	LakshmiKanth
31	26172325	SHAIK ALMAS	Almas
32	26172328	MARKAPUDI PRASHANTH	M. Prashanth
33	26172332	GUGULOTH BALAJI	G. Balaji
34	26172333	BIYYANI AJITH	Ajith
35	26172334	THUPPATHI ASHOK	T. Ashok
36	26172335	JAKKI VISHNU VARDHAN	Vardhan
37	26172901	SYED ARSHIYA	Arshiya
38	26172902	SAVITI PRUDHVI	A. Prudhvi
39	26172903	VANKUDOTH NAVEEN	Naveen
40	26172909	SHAIK SAFIYA	Safiya
41	26172911	BANOTH NARESH	B. Nareesh

42	26172914	VARIKUTI SIRISHA	Seeth
43	26172915	ALLAM HARIKRISHNA	Harini Krishna
44	26172916	V THOMAS RAJU	V.T. Raju
45	26172917	PALLAPU GOPALA KRISHNA	Gopala Krishna
46	26172921	PAMARTHY RAMADEVI	Pamathi
47	26172922	CHEVULA UMADEVI	Umadevi
48	26172923	GOSULA ANNAMAIAH	Annamaiah
49	26172926	AKKIRALA JAYARAJU	Jaya Raju
50	26172929	GOLLA MOUNIKA	Mounika
51	26172931	THOLEM VIJAYAPRADA	T. Vijayaprada
52	26172932	SAGABOINA SATHISH KUMAR	Sathish Kumar
53	26171601	MIDDEY MADHU	Madhu
54	26171602	MANNE VENKATESH	M. Venkatesh
55	26171603	YEDULLA SAMPATH	Yedulla Sampath
56	26171604	PUNEM RAVAU	Punem
57	26171605	JINKALA ASHOK	Jinkala
58	26171606	KORATLA SUNITHA	Sunitha
59	26171607	KOMMU BHAVANI	Kommu
60	26171608	MOKALLA LAXMI NARAYANA	Narayana
61	26171609	KOTHAPALLI MAHESWARI	Maheswari
62	26171610	PALLAPU BALA KRISHNA	Bala Krishna
63	26171611	MEKALA ARUNA	Mekala
64	26171612	SIMHADRI SAIKRISHNA	Sai Krishna
65	26171613	NOMULA EALISHA	EALISHA
66	26171614	GOSULA RAMADEVI	Gosula
67	26171615	MOGILICHARLA UDAYA SREE	Udaya Sree
68	26171616	GOPE SRIKANTH	Srikanth
69	26171617	JOGA HARIKRISHNA	Harini Krishna
70	26171618	MACHA SARITHA.	Saritha
71	26171619	KOTHAPALLI HARIKRISHNA	Harini Krishna
72	26171620	KOTA SURESH	K. Suresh
73	26171621	KANNEBOINA ANJALI	Anjali
74	26171622	MUDILI PRIYANKA	Mudili
75	26171623	GADDALA VINOD	Vinod
76	26171624	GUDIBANDLA SRAVANTHI	G. Sravanthi
77	26171625	PAYAM CHARITRA	Charitra
78	26171626	POKALA ANUSHA	P. Anusha
79	26171627	PARSAGANI SRIKANTH	Srikanth
80	26171628	MANGISETTI SRAVAN KUMAR	Sravan Kumar
81	26171629	MUNTHA NAVEEN	Naveen
82	26171630	SHAIK USMAN	USMAN
83	26171633	YELLABATHINI DIVYA	Yellabathini
84	26171634	BOLLEPOGU INDIRA	Indira
85	26171635	LAKAVATH MOHAN	Mohan
86	26171636	BANKA NAGESH	Nagesh
87	26171637	KORAM NARESH	Koram
88	26171638	SANTHATI VIDHYADHARI	Vidhyadhari
89	26171639	JALA ANUSHA	Anusha


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 (Autonomous)
 K L A S S Y A S S



SR & BGNR GOVT. ARTS & SCIENCE COLLEGE(A), KHAMMAM

Workshop Evaluation Form

Title of the Workshop: Internet of Things

Date: 14-09-2016

In order to continue to improve the quality of educational programming, the Department of Computer Science & Applications, would appreciate you taking few minutes of your time to complete this evaluation. Your comments and suggestions will help us to plan future lectures to meet your educational needs.

1. The workshop organization was [4]
1. Poor 2. Good 3. Fair 4. Excellent
2. The workshop instructor was [4]
1. Poor 2. Good 3. Fair 4. Excellent
3. The workshop presentation methods were [4]
1. Poor 2. Good 3. Fair 4. Excellent
4. The workshop activities were [4]
1. Poor 2. Good 3. Fair 4. Excellent
5. The workshop topic coverage and relevance was [4]
1. Poor 2. Good 3. Fair 4. Excellent
6. How would you rate the usefulness of the content was [4]
1. Poor 2. Good 3. Fair 4. Excellent
7. How would you rate the hand-on activities [3]
1. Poor 2. Good 3. Fair 4. Excellent
8. How would you rate the presenter's knowledge in the subject [4]
1. Poor 2. Good 3. Fair 4. Excellent
9. The workshop overall content was [4]
1. Poor 2. Good 3. Fair 4. Excellent
10. What is your overall assessment of the event [4]
1. Poor 2. Good 3. Fair 4. Excellent

SR & BGNR GOVT ARTS & SCIENCE COLLEGE(A)


KHAMMAM :: TELANGANA-507002


DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION




Certificate of Participation

This is to certify that Mr/Ms of **SR & BGNR GOVT. Arts & Science College(A), Khammam** has successfully completed the national level Workshop on "Internet of Things" organized by Department of Computer Science and Application conducted on **14/09/2016**.


Ch. Jamuna Rani
Convenor


R. Praveen
Incharge


Dr. U. Veerabhadraiah
Principal