



GOVERNMENT COLLEGE FOR WOMEN
(AUTONOMOUS)
SRIKAKULAM
(Acreditedby NAAC with A grade)

Report on
Two day Workshop on IOT
For “Daily Life Hacks”

DEPARTMENT
OF
COMPUTER SCIENCE & APPLICATIONS





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GOVERNMENT COLLEGE FOR WOMEN(A),SRIKAKULAM

(Reaccredited by NAAC with A-grade 3rd Cycle CGPA 3.09)

WEBINAR ON INTERNET OF THINGS FOR DAILY LIFE HACKS

Organized by
Dept.of Computer Science & Computer Applications
in Collaboration with Techwell IT Solutions,SKLM

Date & Time : 07th Dec 2020 , 08th Dec 2020
11.00am To 01.00pm

Chairperson : Dr.K.Sreeramulu
Principal, GCW(A),Srikakulam

Resource Person : Sri. U. Purushottam Rao ,M.D.
Techwell I T Solutions,Srikakulam

Tech Support : B.Akhil , Developer ,Techwell I.T.Sol.

Organizing Committee :
Smt.S.Vani Kumari
Smt.I. SRILAKSHMI
Smt.S.Madhavi Latha
Dr.P.Trinadha Rao



Highlight

FREE



<https://apcce.webex.com/apcce/j.php?MTID=meabf17baf6a0f142de8bef50cc3f03656>

ELearn (07-12-2020)

Understand IoT & Its Components
Technical Concepts

BUILD



Prototype Demo Using Raspberry pi



(08-12-2020) Rs.100/-

Hands on Session on Real H/w
(Raspberry pi 4)

Venue : GCW(A),Srikakulam

Name of the Event : Two day workshop on "Internet of things for Daily Life hacks"

Date : 7th Dec 2020 – 8th Dec 2020

Venue : Government College for Women(A) Srikakulam

Activities conducted : Day 1 : Webinar on IOT using Webex

Day 2 : Hands on Experience on the IOT using RaspberryPI

Aim/purpose: The workshop was organized by the Department of Computer Science and Applications to give practical exposure of IoT application development to the students. The aim of the workshop is to discuss real life use cases on IoT application and make the session

really interactive by providing an opportunity to suggest a solution to real life scenario also has been included to discuss some bonus: IoT demo applications with Raspberry Pi board. Day ended with the demonstration of live project such as temperature monitoring.

No. of Days :- 02

Level :- College (UG and PG Both)

No of Participants : 150

Details of the event/ activity: The event commenced with an introductory speech given by College Principal Dr.K.Sreeramulu .

During 1st day participants understood the concept of IoT, sensors and actuators used in IoT applications. They were taught about architecture and cloud services and data analytics. The Resource Person Sri U.Purushotham MD Techwell has detailed session on above topics

Day 1 Key Points:

Different types of Arduino board such as Arduino Uno, Arduino Uno R3 SMD, Arduino Pro 3.348 MHz , Arduino mini , Arduino Ethernet and their characteristics (Power supply, clock speed, Digital I/O, Analog Input, PWM modulation and different kinds of interfacing. Wi-Fi module Programming with Arduino, Interfacing of sensors and uploading data on cloud.

During second day of workshop students were given hands on Experience by taking Four such as LED glow, Switch sensing, Temperature display, small motor controlling.

Day 2 Key Points :

the hands-on was done for the application of LED on/off with switch on simulator. The simulated applications were then implemented on physical Arduino Board by the students using Raspberry pi4, ESP8266 Wifi development board DHT 11 and a small TFT Screen

The workshop was concluded by a vote of thanks given by Dr.G.Shankar Narayana(IQAC coordinator) and Smt.S.Vani Kumari(Dept of Comp Applications) to the resource persons and a Memento of group photo clicked with the students and Resource persons together. The workshop was a grand success and golden learning memory for 150 participants in total.

OUTCOME : The Students have got a hands on experience on IOT applications .

Photo Gallery :



Video Links:

<https://drive.google.com/file/d/1nkV9II5wZ8I1FhyEDRWJvS5Agterreja/view?usp=sharing>

<https://drive.google.com/file/d/1AgTj0zXPVF1ef0hwtJcR5KR724hNLev/view?usp=sharing>