



# GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

SRIKAKULAM

(Acredited by NAAC with A grade)

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

DEPARTMENT  
OF  
COMPUTER SCIENCE & APPLICATIONS





## GOVERNMENT COLLEGE FOR WOMEN(A),SRIKAKULAM

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

OF THINGS

### 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



**E-Learn (07-12-2020)**

Understand IoT & Its Components  
Technical Concepts



**BUILD**

Prototype Demo Using Raspberry pi



<https://apcoce.webex.com/apcoce.php?MTID=meabf7baba0ff42de6be150cc3f03656>



**(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 : 7<sup>th</sup> Dec 2020 – 8<sup>th</sup> 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 workshop 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.Shankarnarayana(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 has got a hands on experience on IOT applications .

## Photo Gallary :



## Video Links:

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

<https://drive.google.com/file/d/1AgTj0zXPVFI1ef0hwtJcR5KR724hNLev/view?usp=sharing>