



DEPARTMENT OF COMPUTER APPLICATION  
M E S ASMABI COLLEGE, P. VEMBALLUR

REPORT ON

‘SMAART’

3 DAY WORKSHOP ON IOT

*Conducted in collaboration with  
Grapesgenix Technical Solution.Pvt.Ltd  
Institution’s Innovation Council (IIC)  
,Incubation Cell&IEDC*

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***PROGRAMME HIGHLIGHTS:***

**Date and venue** : 21<sup>st</sup>,22<sup>nd</sup>&23<sup>rd</sup> November 2023,Computer Lab.  
**Resource Persons** :Sri.Gopikrishnan.PG(Senior developer)  
:Smt.Aparna.PK(Senior IOT developer)  
:Smt.Amrutha P A(Senior developer)  
Grapesgenix Technical Solution.Pvt.Ltd  
**Programme Co-ordinator** :Nasiya PM ( Assiatant Professor,Department of  
Computer Application)

**Number of students participated:** 48

**Time:** 09.30 AM to 03.30 PM

**Teacher participation:** 5

**Activities:** Workshop on IOT

**Background:**

The session was organised as a part of Department activities for the current academic year. Department of Computer Application opted to organise SMAART ,A workshop on IOT in association with IIC, Incubation cell and IEDC and Collaboration with Grapesgenix Technical Solution.Pvt.Ltd ,Thrissur.as these Four bodies are the inseparable committees who can guide and lead such programmes..

**Objectives:**

- To discuss about IOT.
- To discuss the purpose of using IOT.

- To understand the future of IOT.
- To learn about the working of IOT

## **Proceedings:**

### **Introductory session (Day 1):**

Application students. Smt. Jabin TH, Head of the Department of Computer Application welcomed the gathering. Dr. Reena Muhamed, Vice Principal delivered a brief presidential speech on the workshop on IOT. Inauguration was done. The session began with a prayer by Ms. Nandhana of I yr. Department of Computer by chief guest Sri Sri. Gopikrishnan P G (Senior developer, Grapesgenix Technical Solution. Pvt. Ltd). Felicitation talk by Dr. KP Sumedhan, Self-financing Director. Smt. Nasiya PM, Programme Coordinator, Assistant Professor, Department of Computer Application offered vote of thanks. Session by resource persons: Introduction to IOT and IOT projects, Importance, Things, Hardware, Software, Sensors, Installation of Arduino IDE, Arduino IDE and libraries, Introduction to user interfaces (softwares) for IOT Products, Thingspeak, Blynk, Xampp, Introduction to html, Lifecycle

### **Day 2:**

Familiarization of electronic components for hardware making like soldering machines, PCB boards, forex sheets, led etc., Handling Microcontrollers, Application of IOT in real life, Arduino, Pin familiarization, NodeMCU-ESP8266, Block Diagram making, ESP32, Familiarization of Raspberry Pi board, Pi camera, Imager familiarization and installation steps, Applications of different microcontrollers, Handling Arduino IDE, Functions in Arduino, setup(), Loop(), Hello world program, Basic arithmetics, Applying different functions, Input, output devices, Basic circuit making, Blinking LED in different patterns, Playing with buzzer, Use of Delays, Familiarization of electronic components for, Breadboards, Different jumpers, cables, Batteries, boosters and charging circuits, Difference between making of demo and final product, Basic programs.

### **Day 3:**

MQ sensors - MQ2, MQ3, MQ5, MQ6, MQ135 etc, Water level measurement using sensors, Rainwater monitoring, Soil moisturizer testing for agricultural field, Gas leakage measurement, Different temperature sensors familiarization, Pressure sensor familiarization, Servomotor familiarization, Interfacing different sensors to board, Touch sensors, Ir sensor for accident detection, Sending data to cloud using

NodeMCU,Interfacing IOT with HTML Pages,Playing sensor data onweb,Refresh data,Handling relays,Live implementation of plant monitoring and monitoring,Live projects.

### **Outcome:**

- The participants got an idea about the internet of things
- Application of Internet of Things
- Arduino programming skills and ability to make live projects.

Sd/ - Coordinator. : -----

Nasiya PM  
Assistant Professor Department of Computer Application

Countersigned: Principal



MES ASMABI COLLEGE P. VEMBALLUR  
DEPARTMENT OF COMPUTER APPLICATION

COLLABORATION WITH GRAPESGENIX TECHNICAL SOLUTIONS PVT.LTD THRISSUR

IN ASSOCIATION WITH ICC,IEDC, INCUBATION CELL

# SMAART

3 DAY WORKSHOP ON IOT

21,22&23 NOVEMBER 2023

9.30 AM - 3.30 PM

**Venue:Computer Lab**

## RESOURCE PERSONS

GOPIKRISHNAN P G

AMRUTHA P A

APARNA P K

(SENIOR DEVELOPER)

(SENIOR DEVELOPER)

(SENIOR IOT DEVELOPER)

GRAPESGENIX TECHNICAL SOLUTIONS PVT LTD

NASIYA.P M

JABIN.T H

Dr. K P Sumedhan

Prof.Dr. A Biju

(Coordinator)

(HOD)

(Self Financing Director)

(Principal )



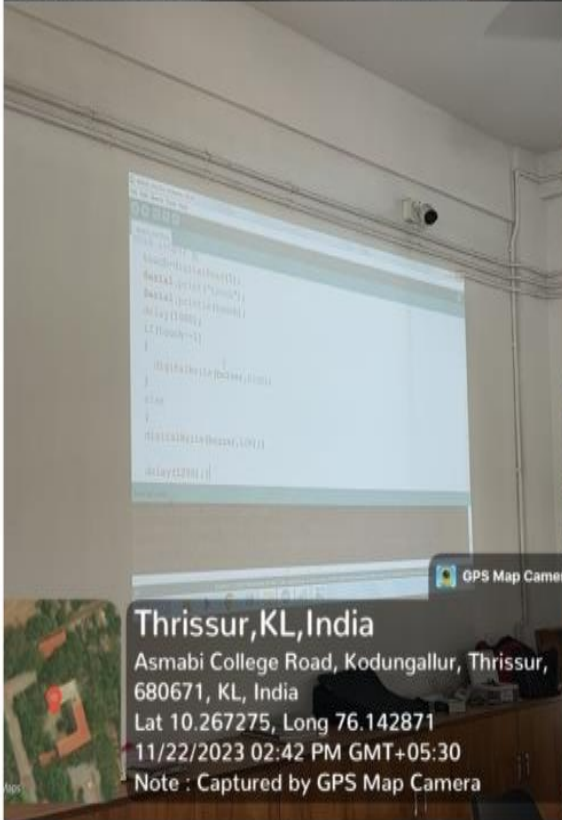




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AMERA



GPS Map Camera  
**Thrissur, KL, India**  
Asmabi College Road, Kodungallur, Thrissur,  
680671, KL, India  
Lat 10.267161, Long 76.142851  
11/22/2023 02:38 PM GMT+05:30  
Note : Captured by GPS Map Camera



GPS Map Camera  
**Thrissur, KL, India**  
Asmabi College Road, Kodungallur, Thrissur,  
680671, KL, India  
Lat 10.267275, Long 76.142871  
11/22/2023 02:42 PM GMT+05:30  
Note : Captured by GPS Map Camera



GPS Map Camera  
**Thrissur, KL, India**  
Asmabi College Road, Kodungallur, Thrissur,  
680671, KL, India  
Lat 10.267208, Long 76.142790  
11/22/2023 02:40 PM GMT+05:30  
Note : Captured by GPS Map Camera



LIST OF PARTICIPANTS:

SMAART  
Workshop on IOT [3 Days] 55  
on 21<sup>st</sup>, 22<sup>nd</sup> & 23<sup>rd</sup> November 2023.

Dept. of Computer Applications. in Association with IEDC,  
IIC & Incubation Cell.

Date: 21/11/23 Time: 9.30-30.330

Venue: Computer Lab I

Sl No.	Name	Class	Signature
1.	Laya P.S.	Bca II <sup>nd</sup> yr	[Signature]
2.	Nabilah Nazih	BCA II <sup>nd</sup> year	Nabilah Nazih
3.	Misna K.J	BCA II <sup>nd</sup> year	Misna
4.	Mohammed Athaf K N	BCA II <sup>nd</sup> year	[Signature]
5.	Sahnoon yasir	BCA II <sup>nd</sup>	[Signature]
6.	Maharoor	BCA II <sup>nd</sup>	Maharoor
7.	Muhammed Asif	BCA II <sup>nd</sup>	[Signature]
8.	A.N.MOHAMMED NAZIM	BCA II <sup>nd</sup> yr	[Signature]
9.	Akshay A	BCA II <sup>nd</sup> yr	[Signature]
10.	Aman Pramod	BCA II <sup>nd</sup>	[Signature]
11.	Yousef Hilal	BCA II <sup>nd</sup>	Yousef
12.	Athaf Cebur	BCA II <sup>nd</sup>	[Signature]
13.	Mohamed Amal I.N	BCA II <sup>nd</sup>	[Signature]
14.	Muhammed Aslam P.A	BCA II <sup>nd</sup>	[Signature]
15.	FASIN T.S	BCA II <sup>nd</sup>	Fasin
16.	Abhijith Rv	BCA II <sup>nd</sup>	[Signature]
17.	Mahamed Misha	BCA II <sup>nd</sup>	[Signature]
18.	Hashif PA	BCA II <sup>nd</sup>	[Signature]
19.	Croutham P. Cropi	BCA II <sup>nd</sup>	[Signature]
20.	Mohammed Yasin im	BCA II <sup>nd</sup>	[Signature]
21.	Athul Krishna	BCA II <sup>nd</sup>	[Signature]
22.	Asish C.S	BCA II <sup>nd</sup>	[Signature]
23.	Hisham Oh	BCA II <sup>nd</sup>	[Signature]
24.	Arenal C.M	BCA II <sup>nd</sup>	[Signature]



25	Sahnoon-yaser	BCA II <sup>nd</sup>	<del>Aslam</del>
26	Muhammed Aslam	BCA II <sup>nd</sup>	<del>Aslam</del>
27	Sahab .M.S	BCA II <sup>nd</sup>	<del>Sahab</del>
28	Madhav Maneg	BCA II <sup>nd</sup>	<del>Madhav</del>
29.	Muhammed Nazam	BCA Und	<del>Nazam</del>
30	Ahamed Intan .v.A	BCA Und	<del>Intan</del>
31	Mohammed Yaser	BCA II <sup>nd</sup>	<del>Yaser</del>
32	Faiz Mohammad A.k	BCA II <sup>nd</sup>	<del>Faiz</del>
33	Adil Hameed	BCA II <sup>nd</sup>	<del>Adil</del>
34	Hab's Mohamed	BCA Und	<del>Hab's</del>
35	Sareerag Ks	BCA II <sup>nd</sup>	<del>Sareerag</del>
36	Adith perisnu .T.M.S	BCA II <sup>nd</sup>	<del>Adith</del>
37	Muhammed Favaz CA	BCA II <sup>nd</sup>	<del>Favaz</del>
38	Mohammed Rizwan T.A	BCA Und	<del>Rizwan</del>
39	JIHABAWI P.S	BCA Und	<del>Jihabawi</del>
40	Nasrin Iqbal	BCA Und	<del>Nasrin</del>
41	Reshmi M.S	BCA II <sup>nd</sup>	<del>Reshmi</del>
42	Meharna P.S	BCA II <sup>nd</sup>	<del>Meharna</del>
43	Shahina.k	BCA II <sup>nd</sup>	<del>Shahina</del>
44	Karthika K.R	BCA II <sup>nd</sup>	<del>Karthika</del>
45	Fathima Nibala P.S	BCA II <sup>nd</sup>	<del>Fathima</del>
46	Nuftu .P.K	BCA II <sup>nd</sup>	<del>Nuftu</del>
47.	Nasya .p.M	Faculty	<del>Nasya</del>
48	Alhisa .v.B	Faculty	<del>Alhisa</del>
49.	RASMI .k.p	lab assistant	<del>Rasmi</del>
50	JESSEER CM	System Admin	<del>Jesseer</del>
51/51	Anu .s	Faculty	<del>Anu</del>
52	Adhuh Rubor	Faculty	<del>Adhuh</del>
53.	Jabin .T.H	Faculty	<del>Jabin</del>



Date : 22/11/2023 Wednesday

Sl.no	Name	Class	Sign	Sign
			FN	AN
1	Hashif PA	BCA II <sup>nd</sup>		
2	Adith Krishna T-s	BCA II <sup>nd</sup>		
3	sreerag ks	BCA II <sup>nd</sup>		
4	Hafis Mohamed	BCA II <sup>nd</sup>		
5	Mohamed Amal	BCA II <sup>nd</sup>		
6	Athul Krishna p	BCA II <sup>nd</sup>		
7	FASIN T.S	BCA II <sup>nd</sup>		
8	Yousef Hilal	BCA II <sup>nd</sup>		
9	Aman Pramod	BCA II <sup>nd</sup>		
10	Fathima Nihala P.S	BCA II <sup>nd</sup>		
11	Naufla P.K	BCA II <sup>nd</sup>		
12	Layal p.s	BCA II <sup>nd</sup>		
13	Mohammed Yasin um	BCA II <sup>nd</sup>		
14	Mohamed M. shal	BCA II <sup>nd</sup>		
15	Muhammed Aslam PA	BCA II <sup>nd</sup>		
16	Nasrin Iqbal	BCA II <sup>nd</sup>		
17	A.N.Mohammed NAZIM	BCA II <sup>nd</sup>		
18	Nabilah Nazim	BCA II <sup>nd</sup>		
19	Aromal e.m	BCA II <sup>nd</sup>		
20	Adil Hameed	BCA II <sup>nd</sup>		
21	Faiz Mohammed	BCA II <sup>nd</sup>		
22	Asish c.s	BCA II <sup>nd</sup>		
23	Reshmi m.s	BCA II <sup>nd</sup>		
24	Mohammed Atharif KN	BCA II <sup>nd</sup>		
25	Shahina k	BCA II <sup>nd</sup>		
26	Meharna P.S	BCA II <sup>nd</sup>		
27	Muhammed Favar CA	BCA II <sup>nd</sup>		



28	Akshay A	BCA II		
29	Rizwan T.A	BCA II		
30	Madhav manoj	BCA II		
31	Sahal M-S	BCA II		
32	Astam	BCA II		
33	Karthika K.R	BCA II		
34	Maharool	BCA II		
35	Muhammed Asif	BCA II		
36	Muhammed Nazim	BCA II		
37	Athab Gabor	BCA II		
38	Ahamed Irfan VA	BCA II		
39	Mohammed Yaseer	BCA II		
40	JHAYAL P.S	BCA II		
41	MUNA K.J	BCA II		
41	MUNA K.J	BCA II		
42	Gourham P. Coopi	BCA II		
43	Hilham	BCA II		
44	Athul	BCA II		
45	Asish C.S	BCA II		
46	Sahnoon yasin	BCA II		
47	Nasiya pm	Faculty		
48	Anu.S	Faculty		
49	Athina V.B	Faculty		
50	Tabin T.A	Faculty		



Date: 23/11/2023 Thursday

Sl.No.	Name	class	Sign FN	AN
1.	Mahamed Mahel	BCA II <sup>nd</sup>		
2.	Aman Pramod	BCA II <sup>nd</sup>		
3.	Asish C.S	BCA II <sup>nd</sup>		
4.	Yousef Hilal	BCA II <sup>nd</sup>		
5.	Muhammed Aslam PA	BCA II <sup>nd</sup>		
6.	Azomal C.M	BCA II <sup>nd</sup>		
7.	Ahamed Ifan V.A	BCA II <sup>nd</sup>		
8.	Reshmi M.S	BCA II <sup>nd</sup>		
9.	Nasrin Iqbal	BCA II <sup>nd</sup>		
10.	Shahina K	BCA II <sup>nd</sup>		
11.	Meharna P.S	BCA II <sup>nd</sup>		
12.	Sahad M.S	BCA II <sup>nd</sup>		
13.	Rizwan T.A	BCA II <sup>nd</sup>		
14.	Alhag A	BCA II <sup>nd</sup>		
15.	Athab Caboor	BCA II <sup>nd</sup>		
16.	Muhammed Asif	BCA II <sup>nd</sup>		
17.	Athul Krishna	BCA II <sup>nd</sup>		
18.	Abhijith R.V	BCA II <sup>nd</sup>		
19.	Hisham Oh	BCA II <sup>nd</sup>		
20.	Muhammed Aslam	BCA II <sup>nd</sup>		
21.	Mohammed Yasin C.M	BCA II <sup>nd</sup>		
22.	Goodham P. Gopi	BCA II <sup>nd</sup>		
23.	SIVASAR P.S	BCA II <sup>nd</sup>		
24.	Muhammed Nazim	BCA II <sup>nd</sup>		
25.	Hashif PA	BCA II <sup>nd</sup>		



26	Nabilah Nazri	BCA 2 <sup>nd</sup> year	Nabilah	Nabilah
27	Misna K.S	BCA 2 <sup>nd</sup> year	Misna	Misna
28	A.N. MOHAMMED NAZIM	BCA 2 <sup>nd</sup> year	A.N.	A.N.
29	Mohamed Amal	BCA 2 <sup>nd</sup> year	Mohamed	Mohamed
30	FASIN	BCA 2 <sup>nd</sup> year	FASIN	FASIN
31	Mohamed Aslam p.A	BCA 2 <sup>nd</sup> year	Mohamed	Mohamed
32	Mahamneel Favaz GA	BCA II <sup>nd</sup> year	Mahamneel	Mahamneel
33	Hahr Mohamed	BCA II <sup>nd</sup> year	Hahr	Hahr
34	Sareerag us	BCA II <sup>nd</sup> year	Sareerag	Sareerag
35	Adith Krishna TS	BCA II <sup>nd</sup> year	Adith	Adith
36	Althab Gaber	BCA II <sup>nd</sup> year	Althab	Althab
37	Naufer P.K	BCA II <sup>nd</sup> year	Naufer	Naufer
38	Fathima Nithala	BCA II <sup>nd</sup> year	Fathima	Fathima
39	Karthika	BCA II <sup>nd</sup> year	Karthika	Karthika
40	Faz Mohamud A.K	BCA II <sup>nd</sup> year	Faz	Faz
41	Adil Hameed	BCA II <sup>nd</sup> year	Adil	Adil
42	Mohammed Althaf K.N	BCA II <sup>nd</sup> year	Mohammed	Mohammed
43	Sahnoon yaser	BCA II <sup>nd</sup> year	Sahnoon	Sahnoon
44	Mohamed yaser	BCA II <sup>nd</sup> year	Mohamed	Mohamed
45	Nasya.p.m	Faculty	Nasya	Nasya
46	Mahar aal	BCA II <sup>nd</sup> year	Mahar	Mahar
47	Nasya KM	Faculty	Nasya	Nasya
48	Athira.v.B	Faculty	Athira	Athira
49	Jabin. T.U	Faculty	Jabin	Jabin
50	Ann S	Faculty	Ann	Ann



Aparna PK  
Senior IoT Developer,  
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Aparna

AMRUTHA P. A  
Senior Developers  
Crapesgenix Technical  
Solutions Pvt. Ltd, Thrissur

Amrutha