

# K.S.N Government Degree College(W)

## Ananthapuramu

### Department of Electronics

#### Add on –Course 2022-2023

##### Minutes of the Meeting:

The faculty of the department of Electronics convened a departmental meeting on 27th of March to conduct an Add-on Course for the 1st Year Students of Electronics from 1<sup>st</sup> April 2023.

##### Permission Letter:

To  
The Principal  
KSN Government Degree College for Women  
Ananthapuramu

Ananthapuramu  
Date: 28-03-2023

From  
B Shiny Snehalatha  
Guest Lecturer in Electronics  
KSN Government Degree College for Women  
Ananthapuramu

Respected Sir,

Sub: Permission for Add-on Course - Request – Regarding.

I hereby submit that the Department of Electronics has decided to conduct Add-on Course for I BSC MECs Students on **Arduino Board** from **April 1<sup>st</sup>**. As the course is very beneficial to the students to do project works for Low End Applications.

Hence I request you to permit Me to Conduct the Add-on Course as per mentioned days in the time table in the last hours i.e from 4.00pm to 5.00pm.

Thanking You Sir,

Yours Sincerely,

*B Shiny Snehalatha*  
(B Shiny Snehalatha)  
Guest Lecturer in Electronics  
KSN Govt Degree College for Women  
ANANTHAPURAM - 515 001

*Submitted  
Forwarded  
V. Venkatesh*  
Lecturer in Electronics  
KSN Govt Degree College for Women  
ANANTHAPURAM - 515 001

*permitted*  
*1.4.23*

Ananthapuramu  
Date: 28-03-2023

To  
The Principal  
KSN Government Degree College for Women  
Ananthapuramu

From  
P Divya  
Guest Lecturer in Electronics  
KSN Government Degree College for Women  
Ananthapuramu

Respected Sir,

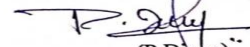
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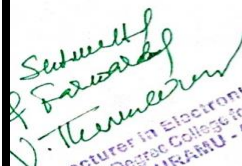
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Hence I request you to permit Me to Conduct the Add-on Course as per the mentioned day & timing in the time table in the last hours i.e from 4.00pm to 5.00pm.

Thanking You Sir,

Yours Sincerely,

  
(P Divya)  
Lecturer in Electronics  
KSN Govt. Degree College for Women  
ANANTHAPURAMU - 515 001.

  
V. Thirumala  
Lecturer in Electronics  
KSN Govt. Degree College for Women  
ANANTHAPURAMU - 515 001.

  
1.4.23

## Syllabus:

**KSN Govt. Degree College for Women, Ananthapuramu**  
**Department of Electronics**  
**ADD ON COURSE SYLLABUS – 2023**

**Unit I:** **15 Hours**  
Overview of Arduino, Arduino UNO, Arduino Nano, Types of Arduino Boards, Board Breakdown, Arduino Power Supply, Arduino Bread Board, Programming in Arduino.

**Unit II:** **15 Hours**  
Tools for Arduino, Arduino Shields, Arduino Sensors – Distance Ranging Sensor, PIR Motion Sensor, Light sensor, Degree or Flex Sensor, pressure Sensor, Proximity Sensor, Acceleration Sensor, Sound Detecting Sensor, RGB and Gesture Sensors, Humidity and Temperature Sensors.

**Unit III:** **10 Hours**  
Arduino Projects for beginners – Arduino Software, Tools & Parts Needed, Connection of Arduino UNO. Projects – Blink an LED, Small Switch Push Button to Control LED, Trouble Shooting, Resources.

*B SHINY STEPHANATHA*

1. *[Signature]*  
2. *[Signature]*  
Signature of the Lecturer  
KSN Govt. Degree College for Women  
ANANTHAPURAMU - 515 001.

*[Signature]* 1.4.23

**No. of Students Participated: 14**

**Objectives:** To Create Simple, Low-Cost tools for creating digital projects by Non – Engineers

To Easily program the micro controller

## Brief Report:

The Department of Electronics has been conducting the Add on courses on different topics for the benefit of students. This year the department faculty has decided to conduct the course on Arduino Board

**for the 1st year students of MECs for 45 days. The Syllabus has been framed in the view of Project Designing.**

**Photos:**



**Students Feedback:**

The Add on course is very beneficial to us as we are doing the mini projects with our own idea. We can also design the application and can make the low end applications by using the Arduino UNO which is easy to understand and programming the board is also very simple. The board is having different pin area

for Analog and Digital inputs. Having these types of courses for every year is very useful especially to us.

### Teachers' Observation:

The Faculty of the Department had very keen observation throughout the course and the faculty had conducted viva for every week and they supported the students to get complete practical knowledge on the Board.


### Signatures of the Participants:

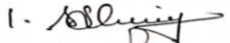
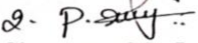
**KSN Govt. Degree College for Women, Ananthapuramu**  
**Department of Electronics**  
**ADD ON COURSE PARTICULARS – 2023**

Name of the Topic: **Arduino UNO Board**  
Duration of the Course : **45 Days**  
Group & Class : **1<sup>st</sup> MECs**

List of the Students:

S. No	Name of the Student
1	E. Jyothsna Sai
2	J Siva Lakshmi Devi
3	K Srisha
4	Y Varsha
5	C Priyanka
6	G Jaya Krupa
7	Y Mounika
8	N Naga Akhila
9	V Thriveni
10	B Uma Maheswari
11	A Premaanvi
12	S Maneesha
13	C Swathi
14	A Dhanisha

  
1-4-23

1.   
2.   
**Signature of the Lecturers**  
Lecturer in Electronics  
KSN Govt. Degree College for Women  
ANANTHAPURAMU - 515 001.

### **Outcomes:**

- 1. The effect of conducting the course will enhance the students attitude towards technical and hardware side.**
- 2. Useful to innovate the different modules using the Arduino Board.**
- 3. Developing and Programming is very easy.**
- 4. Flexible for all the Applications like Low End and High End.**
- 5. Arduino UNO is user friendly.**

### **Mapping of Outcomes:**