



**G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL  
(AUTONOMOUS)  
ACCREDITED BY NAAC 'A' GRADE OF UGC AND NBA OF AICTE  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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DATE: 02-07-2018

TO  
The principal,  
GPCET,  
Kurnool.

Sir,

**Sub: Approval of ADD-ON course for III and IV EEE Students-Regd**

The department of EEE requests you to accept the proposal for conducting ADD-ON Course on “**Arduino Board and its applications**” for the odd semester of III-year I Semester and IV-year I Semester EEE students scheduled for the duration of 48 classes. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

HOD-EEE

PRINCIPAL

G.Pullaiah College of Engg & Tech.  
Nandikotkur Road, VENKAYAPALLI  
KURNOOL-518 452 (A.P)



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**Department Circular –ADD-ON Course**

**DATE: 02-07-2018**

The III year & IV year-I semester EEE Students are informed to enroll their names for ADD-ON Course on “**Arduino Board and its applications**” with their respective class-in-charges on or before 7-07-2018. The course commences from 9<sup>th</sup> July and the duration of the course is for 48 classes. The course is conducted from 4 pm to 5 pm regularly.

The bus facility is made available soon after the class work.

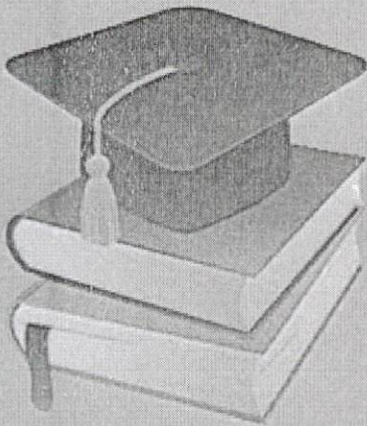
  
**HOD-EEE**



**G. PULLAIAH COLLEGE OF  
ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS)**

**Department Of Electrical and Electronics Engineering**

**ADD ON COURSE**



**Topic : Arduino Board and its Applications**

**Target audience : II and III Year Students**

**Total Course Duration: 48 hrs**

**Selection Procedure : Registration on First  
come First serve basis**

**FREE**

**Register  
Now**

**Date of commencement of the course : 09 July , 2018.**

**End of Course : 01 Nov, 2018.**

**Exam Date: 08 Nov,2018.**

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Arduino Board and its Applications

SYLLABUS

**Unit - I**

**Introduction to Arduino:**

Microcontrollers and Their Applications, Arduino Board Overview, Setting Up Arduino IDE, First Program: Blinking LED, Understanding Arduino Components

**Unit - II**

**Programming with Arduino:**

Basics of Arduino Programming Language, Control Structures: If, Else, Loops, Functions and Libraries, Variable Types and Operators, Debugging Techniques in Arduino

**Unit - III**

**Interfacing with Arduino:**

Digital and Analog Input/Output, Working with Sensors (e.g., Temperature, Light), Actuator Control (e.g., Motors, LEDs), Communication Protocols (I2C, SPI), Using Serial Communication (UART)

**Unit - IV**

**Advanced Arduino Concepts:**

Interrupts and Timers, Memory Management in Arduino, Wireless Communication (Bluetooth, Wi-Fi), Advanced Programming Techniques, Real-time Operating Systems (RTOS)

**Unit - V**

**Real-world Applications:**

Internet of Things (IoT) with Arduino, Robotics Applications, Industry 4.0 and Arduino, Designing Custom Shields, Research Projects using Arduino

  
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**ARDUINO BOARD AND ITS APPLICATIONS**

**SCHEDULE**

Name of the Instructor: A.Suresh Kumar

S. No	Content	No. of Hours
<b>Unit-I</b>		
1.	Introduction to Arduino	1
2.	Microcontrollers and Their Applications	1
3.	Arduino Board Overview	1
4.	Setting Up Arduino IDE	1
5.	First Program: Blinking LED	1
6.	Understanding Arduino Components	1
<b>Unit-II</b>		
7.	Programming with Arduino	1
8.	Basics of Arduino Programming Language	2
9.	Control Structures	2
10.	Functions and Libraries	2
11.	Variable Types and Operators	2
12.	Debugging Techniques in Arduino	2
<b>Unit-III</b>		
13.	Interfacing with Arduino	2
14.	Digital and Analog Input/Output	2
15.	Working with Sensors	2
16.	Actuator Control	2
17.	Communication Protocols	2
<b>Unit-IV</b>		
18.	Advanced Arduino Concepts	2
19.	Interrupts and Timers	2
20.	Memory Management in Arduino	2
21.	Wireless Communication	2
22.	Advanced Programming Techniques	2
23.	Real-time Operating Systems	2
<b>Unit-V</b>		
24.	Real-world Applications	1
25.	Internet of Things (IoT) with Arduino	1
26.	Robotics Applications	1
27.	Industry 4.0 and Arduino	2
28.	Designing Custom Shields	2
29.	Research Projects using Arduino	2
<b>Total Hours</b>		<b>48</b>

Instructor Sign

  
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15<sup>th</sup> batch students

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2.	15AT1A0252	GADDAM PRASHANTHI REDDY
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17.	15AT1A0287	B VIJAY
18.	16AT5A0208	MULLA HUSSAINBE

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46.	15AT1A0250	SANJAMALA PAVANI
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67.	15AT1A0265	S Sai Nithin Krishna
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70.	16AT5A0239	KUMMARI VENKATESH

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14th batch students

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6.	14AT1A0207	BATHULA BHARATH RAJ
7.	14AT1A0208	BOYA BHAVANI
8.	14AT1A0210	MEESALA CHARAN THEJESH
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11.	14AT1A0213	GOLLA DINESH KUMAR
12.	14AT1A0214	VADDE SRIRAMULU
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22.	14AT1A0225	SHAIK KAMAL BASHA
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65.	14AT1A0273	HOSUR SHIRISHA

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# G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CIV, CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

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## Department of Electrical and Electronics Engineering

### Add- on Course Question Paper

### Arduino Board and Its Applications

1. What is the Arduino IDE?
  - a) A hardware component
  - b) An Integrated Development Environment
  - c) A type of Arduino board
  - d) A sensor
  
2. Which programming language is primarily used in Arduino programming?
  - a) Python
  - b) Java
  - c) C/C++
  - d) JavaScript
  
3. Which section of an Arduino sketch is used for setup tasks?
  - a) void main()
  - b) void loop()
  - c) setup()
  - d) initialize()
  
4. What is the purpose of the loop() function in Arduino programming?
  - a) To declare variables
  - b) To perform initialization tasks
  - c) To continuously execute code
  - d) To define sensor inputs

5. How can digital pins be used in Arduino?

- a) Only for output
- b) Only for input
- c) Both for input and output
- d) Neither for input nor output

6. Which protocol is commonly used for communication between Arduino boards and computers?

- a) I2C
- b) SPI
- c) UART
- d) USB

7. What is the purpose of a motor driver in Arduino projects?

- a) To power the Arduino board
- b) To control the brightness of LEDs
- c) To interface with sensors
- d) To control motors

8. What type of communication protocol is I2C?

- a) Serial
- b) Parallel
- c) Wireless
- d) Optical

9. Which component is commonly used for displaying information in Arduino projects?

- a) LCD display
- b) LED
- c) Servo motor
- d) Piezo buzzer

10. What is EEPROM used for in Arduino projects?

- a) Displaying data
- b) Storing data permanently
- c) Reading analog sensors
- d) Controlling actuators

11. Which wireless communication technology is commonly used with Arduino for short-range communication?

- a) Bluetooth
- b) Wi-Fi
- c) GSM
- d) LoRa

12. What is the purpose of the setup() function in Arduino?

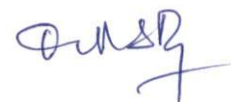
- a) To define the loop structure
- b) To initialize variables
- c) To declare libraries
- d) To perform initialization tasks

13. What does SPI stand for in Arduino communication?

- a) Serial Peripheral Interface
- b) Serial Protocol Interface
- c) Serial Parallel Interface
- d) Serial Peripheral Interconnect

14. Which function is used to read an analog value from a sensor in Arduino?

- a) digitalRead()
- b) analogWrite()
- c) digitalWrite()
- d) analogRead()



15. Which type of communication protocol is suitable for short-range communication between Arduino and other devices?

- a) I2C
- b) UART
- c) Bluetooth
- d) SPI

16. Which component is commonly used for long-term storage in Arduino projects?

- a) EEPROM
- b) SD card
- c) RAM
- d) Flash memory

17. What does the void keyword mean in Arduino programming?

- a) It indicates an empty function
- b) It indicates a variable declaration
- c) It indicates the end of a function
- d) It indicates the beginning of a function

18. Which command is used to upload code to an Arduino board from the IDE?

- a) Save
- b) Compile
- c) Upload
- d) Run

19. Which function is used to control the brightness of an LED in Arduino?

- a) digitalWrite()
- b) analogRead()
- c) analogWrite()
- d) digitalRead()



20. Which of the following is NOT a control structure in Arduino programming?
- a) if-else
  - b) for loop
  - c) while loop
  - d) function call
21. What is the purpose of a resistor in an LED circuit?
- a) To control the brightness of the LED
  - b) To change the color of the LED
  - c) To protect the LED from overvoltage
  - d) To increase the current flow to the LED
22. Which statement is true about the delay() function in Arduino?
- a) It stops the execution of the loop for a specified time
  - b) It repeats the loop continuously
  - c) It skips the loop iteration
  - d) It initializes the loop function
23. What is the main advantage of using functions in Arduino programming?
- a) They reduce the memory usage
  - b) They improve code readability and organization
  - c) They increase the speed of code execution
  - d) They eliminate the need for libraries
24. What does the pinMode() function do in Arduino?
- a) Sets the mode of a digital pin as input or output
  - b) Sets the mode of a variable
  - c) Reads the mode of a pin
  - d) Configures the serial port mode

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25. Which component is commonly used to detect motion in Arduino projects?

- a) Thermistor
- b) Photocell
- c) PIR sensor
- d) Ultrasonic sensor

  
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**14th batch students**

S.No	Roll No	Name of the Candidate	Marks
1.	14AT1A0201	SHAIK ABDUL HAFEEZ	24
2.	14AT1A0202	VALLAMKONDA AKHILESH	18
3.	14AT1A0204	E ANITA	23
4.	14AT1A0205	DUDEKULA ASHA	25
5.	14AT1A0206	DASARI ASHOK KUMAR	21
6.	14AT1A0207	BATHULA BHARATH RAJ	21
7.	14AT1A0208	BOYA BHAVANI	19
8.	14AT1A0210	MEESALA CHARAN THEJESH	22
9.	14AT1A0211	THALARI CHINNA RANGADU	23
10.	14AT1A0212	VELDURTI DHANYA	19
11.	14AT1A0213	GOLLA DINESH KUMAR	22
12.	14AT1A0214	VADDE SRIRAMULU	23
13.	14AT1A0216	SANATANA DIVYA SUNAYANA	21
14.	14AT1A0217	SHAIK FIROZ	25
15.	14AT1A0218	BHUMA GIRIJA	19
16.	14AT1A0219	K GOVARDHAN	20
17.	14AT1A0220	KOTLA HARI PRASAD REDDY	25
18.	14AT1A0221	KONIKANTI HARIVARDHAN REDDY	23
19.	14AT1A0222	CHALLA HARSHA VARDHAN REDDY	21

*[Handwritten Signature]*

20.	14AT1A0223	MEKALA HARSHITHA	25
21.	14AT1A0224	KOPPERLA JANESH PAUL	24
22.	14AT1A0225	SHAIK KAMAL BASHA	20
23.	14AT1A0227	YERRABATI KAVITHA	19
24.	14AT1A0228	OSURU KAVYA SREE	19
25.	14AT1A0229	C KIRAN KUMAR	21
26.	14AT1A0230	CHANKALA KRISHNAIAH	25
27.	14AT1A0231	PANDHI LOKESWARAREDDY	18
28.	14AT1A0232	MALLIPEDDI MADHU BABU	23
29.	14AT1A0233	B MADHUNAIDU	18
30.	14AT1A0234	M MADHURI	24
31.	14AT1A0237	REDDYVARI MALLESWARI	21
32.	14AT1A0238	KURUVA MALLIKARJUNA	25
33.	14AT1A0239	B MANASA	24
34.	14AT1A0240	BOGGURU MANI	24
35.	14AT1A0241	B MANOHAR	20
36.	14AT1A0242	YADLAPALLI MANUJA	23
37.	14AT1A0243	BUGUDE MEENAKSHIVARAPRASAD	19
38.	14AT1A0244	SIRIGIRI MEGANA JYOTHI	20
39.	14AT1A0245	SHAIK MOHAMMAD MUSTAFA	23
40.	14AT1A0246	MULLA MOHAMMED ALI	24
41.	14AT1A0247	ARAB MOHAMMED IFTEKHAR	24
42.	14AT1A0248	THOTA MOUNICA	19
43.	14AT1A0249	SHAIK MUHAMMAD SAYEED	25
44.	14AT1A0250	VUNAMA MUKESH CHOWDARY	22
45.	14AT1A0251	GADDAM MUNI SAI KRISHNA	25

*ansy*

46.	14AT1A0252	SANGEM NAGANNA	03
47.	14AT1A0253	LAKKAM NIKHITHA	22
48.	14AT1A0254	MAHENDRAKAR NIKHITHA	20
49.	14AT1A0255	BHASUTKAR PAVANI BAI	24
50.	14AT1A0256	KASTURI PRATHYUSHA	05
51.	14AT1A0257	AVULA PREETI KIRANMAYEE	22
52.	14AT1A0258	KALLA PREM KUMAR	24
53.	14AT1A0259	KAMIREDDY RADHA	21
54.	14AT1A0261	C.RAJASREE	25
55.	14AT1A0262	GADDAM RAJITHA	24
56.	14AT1A0263	SAIREDDY RAMADEVI	21
57.	14AT1A0265	RAMAPURAM EDIGA RAVALI	08
58.	14AT1A0266	KANALA RAVINDRANADH REDDY	20
59.	14AT1A0267	NAGALAPURAM RUSHI SIVA SWAROOP	22
60.	14AT1A0268	T SAI SINDHURA	20
61.	14AT1A0269	N SAIPRAVALLIKA	23
62.	14AT1A0270	MADALA SANKEERTHANA	09
63.	14AT1A0271	GANDHAVITI SATHISHKUMARREDDY	25
64.	14AT1A0272	PINJARI SHAKIRABEE	20
65.	14AT1A0273	HOSUR SHIRISHA	20

*Handwritten signature*