

## CIRCULAR



**ARKA JAIN**  
University  
Jharkhand

### Department of Computer Science & Information Technology

**Ref. No.: AJU/CS&IT/ /2021-22**

**Date: 18.08.2022**

It is notified for information to all the students that the **Department of Computer Science & Information Technology, School of Engineering and IT, ARKA JAIN University, Jharkhand** is going to organize the Value Added Course on **IOT using Node MCU** from 22<sup>nd</sup> August 2022 to 7<sup>th</sup> September 2022 for all students of the University. The students are hereby advised to register themselves in this session by the end of 21<sup>st</sup> August 2022.

Link for Registration: <https://forms.gle/hdfvr2EtREP1TDgE8>

The Registration link will be active till **10:00AM – 21<sup>st</sup> August 2022**.

Dr. Arvind Kumar Pandey  
Head, Computer Science & IT  
School of Engineering & IT  
ARKA JAIN University

**Copy for information & necessary action please:-**

1. PS to the Vice-Chancellor
2. PS to the Director
3. PS to the Registrar
4. In charge Web Service for Website
5. Notice Board
6. Guard File

## **Detailed Report on Value Added Course on IOT using Node MCU**

### **From 22-08-2022 to 07-09-2022**

Date of Event	22-08-2022 to 07-09-2022
Name and Type of Event	Value Added Course on IOT using Node MCU , Skill Development
Conducted by	Mr. Akash Kumar Bhagat, Dr. Arvind Kumar Pandey
No. Of Participant	107

The Value-Added Course on IOT using Node MCU was organized from 22-08-2022 to 07-09-2022, in the Department of Computer Science and IT ARKA Jain University, Jamshedpur. The Program was coordinated by Mr. Akash Kumar Bhagat and Dr. Arvind Kumar Pandey, Head of CS and IT Department.

In this course, students will be able to :

- Analyze the key concepts of Node MCU and analyze Embedded C language.
- Understand the Data Communication between two Node MCUs.
- Recognize the application of Node MCU in IOT.
- Enable students to be understand the application based on Home Automation using ESP 8266.
- Writing programs for Simulation based different Projects.

The value-added course, was initiated by Mr. Akash Kumar Bhagat on 22-08-2022 in computer Lab of the Dept. of CS & IT Lab at 3:00 PM to 5:00 PM. All the students had joined the course and learned about the Node MCU. Every day they had given some assignment works to do the more practices. The content of the course was completely practical based. In the last day of the program students had appeared in the test and qualified the above-mentioned value-added course with the minimum criteria.

## Poster & Brochure of the Event:



**Aug 22nd  
- Sep 7th  
2022**



# VALUE ADDED COURSE

## IoT using Node MCU

DEPARTMENT OF CS & IT  
SCHOOL OF ENGINEERING & IT

REGISTRATION LINK :-  
<https://forms.gle/Mnm7yo8Nqt4nKv1w8>

**Convener :**  
**Dr. Arvind Kumar Pandey**

**Organizer :**  
**Mr. Akash Kumar Bhagat**

[www.arkajainuniversity.ac.in](http://www.arkajainuniversity.ac.in)

### ABOUT JGI

JGI Group is an education provider and an entrepreneurship incubator in India. The Group successfully operates 85 educational institutions with 51,600 students and 6,450 employees engaged at the K-12, undergraduate and postgraduate levels spread across 64 campuses pan India. A leader in the education sector and a pioneer in the venture sector, JGI Group are constantly in search of new opportunities to expand its horizon.

### ABOUT ARKA JAIN UNIVERSITY

An academic institute ought to set its vision of high noted academic, intellectual and entrepreneurial development. ARKA JAIN University (AJU), Jamshedpur is committed to human development at all levels through education and entrepreneurship. It provides quality education thereby creating human assets for the nation and the globe as well. AJU is a premier private university of Jharkhand with a venerable legacy of the JGI group sprinting ahead for national acclamation for noted academic standards, diverse educational programs, distinguished faculties, varied co-curricular activities and state-of-the-art infrastructures. The University is on the way to sustain the acclaimed standards and best practices in higher education. It is committed to nation building and unflinching adherence to universal university human values. The sprawling university spreads across 25 acres of lush green land leaving no stone unturned in providing state-of-the-art facilities in various sectors including education, sports, entrepreneurship, research, and other academic ventures. The campus of the University is situated at Mohanpur, Gamharla, Dist: Seraikela - Kharsawan, 13 km from the steel city, Jamshedpur. Popularly known as Tatanagar, named after the visionary industrialist Shri J.N.Tata, founder of TATA Groups. The magnificence of the university lies in the enhancement of various courses with leaps and bounds. ARKA JAIN University aids each.



### ABOUT ENGINEERING & IT

AJU School of Engineering & Information Technology is established with an aim to provide quality education and entrepreneurship development. ARKA JAIN University is an intellectual destination that draws inspired students from diverse backgrounds. Bachelor of Computer Applications is a 3-year undergraduate programme. It is extended over six semesters. The primary objective of our BCA program is to provide a foundation of computing principles and business practices for effectively using/managing information systems and enterprise software. This program aids the students to get a sound understanding of Computer Applications which can give them a perfect start for a challenging career in the field of Information Technology. This program prepares students with the necessary skills to build successful careers in the information sector. The curriculum is truly tuned for the holistic development of the students and aims at nurturing them as proficient programmers and computer professionals. MCA program caters to the foundation of computing principles and business practices and to train the students to analyse problems in a wide range of applications. This program provides exposure to the students to enterprise software management methodologies. The teaching-learning include innovative pedagogies like case assignment, live projects, lab assignments, exploration of different software tools and presentation with viva voce. The MCA programme emphasizes on the depth of the knowledge of the recent trends and technologies in demand. The MCA program helps students in development of entrepreneurial abilities, personality development, and soft skill development throughout the course.

### ABOUT THE VALUE ADDED COURSE

- Tentative Timelines:
  - Registration Opens : 05.08.2022
  - Registration Closes : 21.08.2022
  - Announcement of Selected Students : 22.08.2022
  - Commencement of Classes : 22.08.2022
- The students are advised to read the guidelines, annexures as well as the embedded instructions in the registration forms very carefully before proceeding.

- List of students will be finalized on first come first serve basis.
- The names of the selected students will be put up in a separate notice. A mail will also be sent to only selected students.
- On the commencement of the course, it is mandatory for the students to attend all the classes pertaining to the course.
- The total duration of the course shall be 30 hours. The classes will be held on second half.
- Registered students must be with their computer/laptop/tab having internet facility.
- Certificate will be issued only those students who will be regular in class and qualified the test.


### OBJECTIVES OF THE WORKSHOP

From August 22<sup>nd</sup> to September 07<sup>th</sup>  
we will be having our Value added Course.

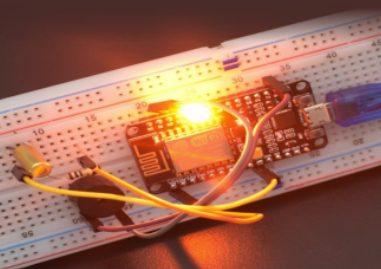
### Course Outline : IoT using Node MCU

Sessions	Topics
1	<b>UNIT : 1</b> Introduction to IOT, Example, IOT devices <b>Date : 22.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>
2	IOT Devices and Computer, Trends in the adoption of IOT <b>Date : 23.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>
3	Societal benefits of IOT <b>Date : 24.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>

4	<b>UNIT : 2</b> IOT in the field of Industry <b>Date : 25.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>	14	Simulation based different Projects <b>Date : 06.09.2022</b> <b>Time : 1:00 to 3:00 PM</b>
5	Privacy, Risk and Security <b>Date : 26.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>	15	Simulation based different Projects <b>Date : 07.09.2022</b> <b>Time : 1:00 to 3:00 PM</b>
6	<b>UNIT : 3</b> Introduction to Node MCU <b>Date : 27.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>	<b>REGISTRATION LINK</b> <a href="https://forms.gle/Mnm7yo8Nqt4nKv1w8">https://forms.gle/Mnm7yo8Nqt4nKv1w8</a> <b>VISION OF THE UNIVERSITY</b> To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicentre of creative solutions. <b>MISSION OF THE UNIVERSITY</b> To achieve and impart quality education with an emphasis on practical skills and social relevance. <b>RESOURCE PERSON</b> Mr. Akash Kumar Bhagat, IOT & Embedded System Designer (with over 9 yrs. of Experience in Training Engineering Students) <b>Convenor : Prof. Arvind Kumar Pandey</b> <b>Organizer : Mr. Akash Kumar Bhagat</b>	
7	ESP 8266, <b>Date : 29.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>		
8	Data Communication between two Node MCUs <b>Date : 30.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>		
9	<b>UNIT : 4</b> Node MCU Programming <b>Date : 31.08.2022</b> <b>Time : 1:00 to 3:00 PM</b>		
10	Other Basic Programs <b>Date : 01.09.2022</b> <b>Time : 1:00 to 3:00 PM</b>		
11	Home Automation using ESP 8266 <b>Date : 02.09.2022</b> <b>Time : 1:00 to 3:00 PM</b>	<b>Address :</b> Opp. To Kerala Public School, Mohanpur, Gamharla Dist. Seraikela Kharsawan, Jharkhand - 832108 <a href="http://www.arkajainuniversity.ac.in">www.arkajainuniversity.ac.in</a>	
12	Home Automation using ESP 8266 <b>Date : 03.09.2022</b> <b>Time : 1:00 to 3:00 PM</b>		
13	<b>UNIT : 5</b> Projects: Calculator Based Program <b>Date : 05.09.2022</b> <b>Time : 1:00 to 3:00 PM</b>		



**ARKA JAIN**  
University  
Jharkhand (Jamshedpur)



**Value Added Course**  
**On**  
**"IoT using Node MCU"**  
**22nd Aug – 7th Sep, 2022**

Department of  
Computer Science and IT  
School of Engineering and IT  
ARKA Jain University, Jamshedpur, Jharkhand

## Topic of Value-Added Course Date and Time:

Sessions	Topics	Date	Time
	<b>UNIT: 1</b>		
1.	Introduction to IOT, Example, IOT devices	22.08.2022	1:00 to 3:00 PM
2.	IOT Devices and Computer, Trends in the adoption of IOT	23.08.2022	1:00 to 3:00 PM
3.	Societal benefits of IOT	24.08.2022	1:00 to 3:00 PM
	<b>UNIT: 2</b>		
4.	IOT in the field of Industry	25.08.2022	1:00 to 3:00 PM
5.	Privacy, Risk and Security	26.08.2022	1:00 to 3:00 PM
	<b>UNIT: 3</b>		
6.	Introduction to Node MCU	27.08.2022	1:00 to 3:00 PM
7.	ESP 8266,	29.08.2022	1:00 to 3:00 PM
8.	Data Communication between two Node MCUs	30.08.2022	1:00 to 3:00 PM
	<b>UNIT: 4</b>		
9.	Node MCU Programming	31.08.2022	1:00 to 3:00 PM
10.	Other Basic Programs	01.09.2022	1:00 to 3:00 PM
11.	Home Automation using ESP 8266	02.09.2022	1:00 to 3:00 PM
12.	Home Automation using ESP 8266	03.09.2022	1:00 to 3:00 PM
	<b>UNIT: 5</b>		
13.	Projects: Calculator Based Program	05.09.2022	1:00 to 3:00 PM
14.	Simulation based different Projects	06.09.2022	1:00 to 3:00 PM
15.	Simulation based different Projects	07.09.2022	1:00 to 3:00 PM



## List of Students:

Serial No	Name of the Candidate	Enrollment No.	Affiliated Institute/ College/ University
1	INDRAJEET CHOUHAN	AJU/211254	Arkajain university
2	RAM KUMAR	AJU/201105	Arkajain university
3	SAURABH KUMAR	AJU/211698	ARKA JAIN UNIVERSITY
4	NIKHIL KUMAR SINGH	AJU/210819	Arkajain University
5	MUKUND KUMAR	AJU/210018	ARKA JAIN University
6	UJJWAL KUMAR	AJU/210404	ARKA JAIN UNIVERSITY
7	K TEJ KUMAR	AJU/211676	Arka Jain University
8	ANUSHKA SAH	AJU/210235	Arka Jain University
9	PUSHPANJALI SINGH SARDAR	AJU/210629	Arka Jain University
10	RIA BHUMIJ	AJU/210595	ARKA JAIN UNIVERSITY
11	ISHAAN KUMAR	AJU/210217	Arka Jain University
12	ANUSHA SHARMA	AJU/211700	Arka Jain University
13	MUKUND KUMAR	#N/A	ARKA JAIN University
14	ANJALI SHARMA	AJU/210269	ARKA JAIN UNIVERSITY
15	RAKESH KUMAR DAS	AJU/211240	ARKA JAIN UNIVERSITY
16	SANGITA KUMARI	AJU/210881	ARKA JAIN UNIVERSITY
17	AMAN KUMAR SINGH	AJU/211089	ARKA JAIN UNIVERSITY
18	SANGITA KUMARI	AJU/210881	Arka Jain University.
19	SANA AFRIN	AJU/210020	Arka Jain University, Jamshedpur
20	KUMARI SAPNA GORAI	AJU/210019	University
21	TOUSIF RAZA	AJU/210820	Arka Jain University
22	TOUSIF RAZA	AJU/210820	Arka Jain University
23	ANUBHAV KARMAKAR	AJU/211506	Arka Jain University
24	PRIYA GHOSH	AJU/211385	Arka Jain University
25	PRIYA KUMARI	AJU/210614	Arka Jain University
26	UTKARSH	AJU/211354	Arkajain University
27	MITESH PRADHAN	AJU/211355	Arkajain University
28	SHRUTI PRASAD	AJU/200760	ARKA JAIN UNIVERSITY
29	TUSHAR MITRA	AJU/210955	Arka Jain University
30	DEEPAK MAHATO	AJU/210931	Arka Jain University
31	VIKRANT SINGH	AJU/210836	Arkajain university
32	AMIT GIRI	AJU/210898	Arkajain University
33	PRIYANSHU KUMAR	AJU/210661	Arka Jain university
34	SWEETY KHATRI	AJU/210876	ARKA JAIN UNIVERSITY
35	TUSHAR MITRA	AJU/210955	Arkajain university
36	SUSHIL KISKU	AJU/210694	Arkajain University
37	ANKIT MAHATO	AJU/210688	Arka Jain University
38	WASUKI NATH CHOUDHARY	AJU/210818	ARKA JAIN UNIVERSITY
39	RISHITA PRAMANICK	AJU/211583	Arka Jain University
40	ROUSHAN KUMAR SINGH	AJU/210849	ARKAJAIN UNIVERSITY
41	SACHIN TIWARI	AJU/210815	Arkajain university
42	VISHAL KUMAR RAUT	AJU/210961	Arka Jain University jharkhand
43	CHANDRIMA BHOWMICK	AJU/210773	Arka Jain University
44	HARSH	AJU/210779	Arkajain university
45	POONAM CHOUHAN	AJU/210756	Arkajain university
46	ANKUSH MISHRA	AJU/210944	Arkajain university

47	POOJA KUMARI	AJU/210939	Arka Jain University
48	DINABANDHU MAHATO	AJU/210872	Arka Jain University
49	RAQUEEB AHSAN	AJU/210880	Arkajain university jharkhand
50	RAKHI BEJ	AJU/210692	Arka Jain University
51	SIMRAN TIRKEY	AJU/210809	Arkajain university
52	VINAY RANJAN MAHATO	AJU/211000	Arkajain University
53	SUMITA DAS	AJU/210896	Arkajain university
54	CHETAN NARAYANA	AJU/210679	ARKA JAIN UNIVERSITY
55	ROHAN SINGH ANIRBAN	AJU/200588	ARKA JAIN UNIVERSITY
56	SHEEKHA SINGH	AJU/200940	ARKA JAIN UNIVERSITY
57	VIVEK KUMAR MAHTO	AJU/210937	Arkajain university
58	SUPARNA KUMARI	AJU/200586	Arka Jain University
59	SHEEKHA SINGH	AJU/200940	ARKA JAIN UNIVERSITY
60	GOURAV MAHATO	AJU/200426	ARKA JAIN UNIVERSITY
61	DEEPAK SAHU	AJU/210645	Arka Jain University, Jamshedpur
62	MANISH KUMAR	AJU/211319	AJU
63	KHUSHBOO KUMARI	AJU/201314	Arka Jain University
64	KAWALJEET SINGH WALIA	AJU/200378	Arka Jain University
65	ANJALI RANI	AJU/200272	Arka Jain University
66	KALYAN MURMU	AJU/200221	Arka Jain University, Jamshedpur
67	HARSHIT KUMAR	AJU/201024	ARKA JAIN UNIVERSITY
68	MD TAUHID ALAM ANSARI	AJU/210988	Arka Jain University
69	AXIT RAJ ROSHAN	AJU/211065	ARKA Jain University
70	KAMLESH DAS	AJU/200473	Arka Jain University
71	AYUSH RAJ	AJU/200472	Arkajain university
72	ANKIT KUMAR	AJU/210638	Arkajain university
73	ANKIT KUMAR	AJU/210638	Arkajain university
74	MITESH PRADHAN	AJU/211355	Arkajain university
75	DEEPAK JARIKA	AJU/210893	ARKA JAIN UNIVERSITY
76	ROHIT HANSDA	AJU/210786	Arkajain university
77	MAHESWAR SAREN	AJU/210785	ARKA JAIN UNIVERSITY
78	SALONI KUMARI	AJU/211014	Arka Jain university
79	PRIYANSHU KUMAR	AJU/210661	ARKA JAIN UNIVERSITY
80	PUJA KUMARI	AJU/211584	Arka Jain University
81	FAREEZA BANO	AJU/210681	ARKA JAIN UNIVERSITY
82	SOHAIL BAKSH	AJU/210974	Arka Jain University
83	JAYDEV KUMBHAKAR	AJU/210998	Arkajain University
84	SIMRATJEET SINGH JOLLY	AJU/210929	Arka Jain University
85	ABISHEKH KUMAR SINGH	AJU/210975	Arka Jain University
86	ADITYA PITHADIA	AJU/211686	Arka Jain University
87	NAVEEN TIWARI	AJU/210777	Arka Jain University
88	SUKHMATI SARDAR	AJU/210859	Arkajain University
89	BINOD MAJHI	AJU/210823	Arka Jain University
90	K TEJ KUMAR	AJU/211676	Arka Jain university
91	VIKASH SHIT	AJU/210993	Arkajain university
92	MOHAN MANDAL	AJU/210863	ARKA JAIN UNIVERSITY JAMSHEDPUR
93	SANDEEP PATRO	AJU/211046	Arkajain university
94	SURAJ KUMAR MAHATO	AJU/210774	Arka Jain University
95	RISHAV RAJ	AJU/210711	Arka Jain University
96	RISHAV RAJ	AJU/210711	Arka Jain University

97	SURAJ KUMAR MAHATO	AJU/210774	Arka Jain University
98	AMAN SRIVASTAVA	AJU/200443	Arka Jain University
99	SUMIT KUMAR	AJU/210758	ARKA JAIN UNIVERSITY
100	AIYSHA SHAHID	AJU/211028	Arkajain university
101	KAVITA PRADHAN	AJU/211023	Arka Jain University
102	MILAP SAMAD	AJU/210784	Arka Jain University
103	ADITI KUMARI	AJU/211663	Arka Jain University
104	GAURAV KUMAR SINGH	AJU/201050	ARKA JAIN UNIVERSITY
105	HARIOM PATHAK	AJU/210803	ARKA JAIN University
106	ANAMIKA SINGH	AJU/211693	Arka Jain University
107	ADITI KUMARI	AJU/211663	Arka Jain University



## Certificate of the Event :







## *Certificate of Participation*

This is to certify that

Mr./Ms. UTKARASH  
has participated in value added course on IOT using Node MCU  
organized by Department of CS & IT from  
August 22, 2022 to September 07, 2022

A handwritten signature in blue ink, appearing to read 'Arvind Pandey'.

Dr. Arvind Pandey  
HOD, Dept. of CS & IT  
ARKA JAIN University, Jharkhand

A handwritten signature in blue ink, appearing to read 'Akash'.

Mr. Akash Kr. Bhagat  
Asst. Prof. Dept. of CS & IT  
ARKA JAIN University, Jharkhand