

APPROVED BY AICTE, NEW DELHI AND DEPT OF SCIENCE & TECHNOLOGY, GOVT. OF BIHAR AFFILIATED TO BIHAR ENGINEERING UNIVERSITY, PATNA

AMHARA, BIHTA, PATNA-801106, BIHAR

Ref No.- NSIT/82/2023

Date-16/06/2023

Notice

All students are cordially invited to participate the three days Yoga Event organized by IQAC from 21/06/2023 to 23/06/23 as part of our commitment to promoting health, wellness, and holistic development.

Highlights of the Event:

- · Expert-led Yoga session
- Meditation and mindfulness of Yoga Asana
- Live demonstration of Yoga Asana
- · Health and Wellness Talks

Dean, Academics

NSIT, BIHTA

Dean (Academics)
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna.



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Name Of The Event: Yoga Event for Health and Wellness Awareness

Date: 21/06/2023 to 23/06/2023





This event is an excellent opportunity to rejuvenate your mind and body, learn new skills, and embrace a healthier lifestyle. Participation certificates will be awarded to all attendees. We encourage everyone to wear comfortable attire and bring their yoga mats.



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Attendance Sheet

Name Of The Event: Yoga Event for Health and Wellness Awareness

Date: 21/06/2023 to 23/06/2023

	NETAH SU	BHASH INSTITU	TE OF TECHNO	LOGY	
SI.	Yoga Event for Hea	Ith and wellne	ss Awareness A	ttendance List	
NO.	NAME OF PRTICIPANTS	Reg. No.	21-06-2023	22-06-2023	23-06-202
1	GOVIND KUMAR	23105103001	P	19	P
2	ANJALI RANI	23105103002	P	10	jo
3	RAJKUMAR	23105103003	p	10	P
4.	SUMAN SAURABH SINGH	23105103004	p	P	10
5	DEVIYOTI	23105103005	P	P	P
6	MD MEHRAJ ALAM	23105103006	P	P	P
3	AMAN KUMAR	23105103007	p	p	P
8	ABHISHEK KUMAR	23105103008	p	P	n
9	ASHISH RAJ	23105103009	12	12	p
10	SHIVAM SUNDRAM	23105103010	p	P	P
11	KARAN KUMAR	23105103011	p	P	P
12	RAJ KUMAR	23105103012	p	12	P
13.	MOHIT RAJ SHARMA	23105103013	P	P	P
14	VIVEK KUMAR SINGH	23105103014	n	p	P
15	SATIIL SIDDIQUE	23105103015	A	p	P
16	KUNAL KUMAR	23105103016	P	P	P
17	ABHISHEK KUMAR	23105103017	P	P	P
18	PRIYANSHU KUMAR	23105103018	10	b	P
19	AMAN KUMAR	23105103019	P	P	P
20	SUDHANSHU KUMAR	23105103020	p	P	P
21	ADITYA KUMAR	23105103021	A	P	P
22	ANKIT TIWARI	23105103022	10	P	p
23	MAHIKUMARI	23105103023	p	P	P
24	VARSHA RANI	23105103024	P	P	P
25	MISA KUMARI	23105103025	P	13	P
26	RISHAV RAJ	23105103026	P	A	P
27	SHREYA SINGH	23105103027	P	P	P
28	PRACHI KUMARI	23105103028	P	P	P
29	SURAJ KUMAR	23105103029	P	P	P

30	MONALISA SINHA	23105103030	P	p	P
31	KOMAL KUMARI	23105103031	P	P	P
32	ANJALI KUMARI	23105103032	P	P	P
200		23105103033	P	p	P
33	NITISH KUMAR	23105103034	P	P	P
34	VIVEK KUMAR	23105103035	P	10	P
35	ANUSHKA KUMARI	23105103036	P	p	P
36	ABHIRUCHI KUMARI	23105103037	p	A	P
37	AYUSH KUMAR	23105103038	P	p	P
38	MANSHI KUMARI	23105103039	P	p	P
39	NIDHI KUMARI		P	IP IP	P
40	KHUSHI KUMARI	23105103040	p	p	P
41	ARMAN SINGH	23105103041	- /	-	P
42	RITIK RAJ	23105103042	12	P	P
43	ABHISHEK RAJ	23105103043	P	P	
44	VISHAL GOSWAMI	23105103044	P	19	P
45	AYUSH KUMAR	23105103045	Р	P	P
46	YASHWANT KUMAR	23105103046	P	P	P
47	HARI PRIYA	23105103047	p	P	P
48	KISHAN KUMAR	23105103048	p	P	P
49	ROHIT RAJ	23302103005	P	P	p
50	KUMAR YASHWARDHAN	23303103001	P	P	P
51	RAUSHNI KUMARI	23303103002	p	P	P
52	ANKIT KUMAR	23303103003	A	P	P
53	Prachi Priya	23303103004	P	P	P
54	VIJAY KUMAR	23303103005	p	P	P
55	RAUNAK PARWEEN	23303103006	P	P	P
56	PRAGATI KUMARI	23303103007	p	P	P
57	ANIKET RAJ	23303103008	p	p	P
58	KUNDAN KUMAR	23303103009	p	p	A
59	PRIYANSHU KUMAR	23303103010	P	P	p
60	SONALEE KUMARI	23303103011	p	P	P
61	SNEHA KUMARI	23303103012	P	p	P
62	MD DANISH ALAM	23303103013	P	P	p

63	PRITAM KUMAR	23303103014	10	P	P
-	AMAN KUMAR SONI	23303103015	P	10	P
	RAJNISH KUMAR	23303103016	10	A	P
66	KUMKUM KUMARI	23303103017	P	P	P
67	MD RASHID HUSSAIN	23303103018	10	P	P

Total > P=64 P=64 P=65 A=03 A=02



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AFFILIATED TO BIHAR ENGINEERING UNIVERSITY, PATNA
AMHARA, BIHTA, PATNA-801106

Activity Report

Name Of The Event: Yoga Event for Health and Wellness Awareness

Date: 21/06/2023 to 23/06/2023

Internal Quality Assurance Cell (IQAC) of Netaji Subhas Institute of Technology (NSIT) organized a Yoga Event from 21/06/2023 to 23/06/2023 as part of its commitment to promoting health, wellness, and holistic development among students. These sessions aimed to introduce participants to basic and advanced yoga techniques while emphasizing the role of meditation in achieving mindfulness and stress management. The event was attended by students, faculty, and staff, with active participation and enthusiasm throughout.

Day 1: Introduction to Yoga and Basic Practices

The first day focused on creating a foundation for participants by introducing them to the basic principles of yoga and its significance in daily life.

Warm-Up and Stretching: The session began with preparatory stretches to loosen the body and improve flexibility.

Basic Yoga Postures: Participants were guided through foundational asanas like:

- Taasana (Mountain Pose): To enhance posture and balance.
- Vrikshasana (Tree Pose): To improve concentration and stability.
- Bhujangasana (Cobra Pose): To strengthen the spine and alleviate back pain.

The instructor, Dr. Brij Mohan Singh, a certified yoga expert, provided step-by-step guidance on performing each pose correctly, ensuring that participants understood their benefits and avoided common mistakes.

Breathing Techniques (Pranayama):

Participants practiced Pranayama techniques, which are essential for mental relaxation and respiratory health:

- Kapalbhati: For detoxifying the lungs and improving focus.
- Anulom Vilom: To balance the body's energy and calm the mind.
- Bhastrika: To energize the body and improve oxygen circulation.

Guided Meditation:

The session concluded with a 15-minute meditation. Dr. Brij Mohan Singh led participants through a guided mindfulness exercise, focusing on controlled breathing and positive visualization. This helped participants feel more relaxed and centered, reducing stress and mental fatigue.

Day 2: Advanced Yoga Techniques and Deep Meditation

The second day of the sessions built upon the foundational practices introduced on the first day, offering participants a deeper experience of yoga and meditation.

Dynamic Yoga Practices:

Participants were introduced to Surya Namaskar (Sun Salutation), a sequence of 12 dynamic postures that combine physical movement with rhythmic breathing. This practice is known for improving flexibility, strength, and cardiovascular health.

Advanced Yoga Postures:

Dr. Brij Mohan Singh demonstrated and guided participants through more challenging asanas, including:

- Trikonasana (Triangle Pose): For improving overall flexibility and relieving stiffness.
- Dhanurasana (Bow Pose): To strengthen the core and improve digestion.
- Ustrasana (Camel Pose): To enhance posture and open up the chest, promoting better lung function.

Participants were encouraged to practice at their own pace, with modifications provided for those new to advanced poses.

Day 3: Extended Meditation Session:

Dr. Brij Mohan Singh explained the purpose and benefits of meditation, emphasizing its role in managing stress, improving focus, and fostering emotional well-being.

The session includes mindfulness meditation, where participants were guided to focus on their breathing and let go of intrusive thoughts.

A segment of visualization meditation followed, where participants were asked to imagine peaceful environments, helping them experience a deeper state of relaxation.

The meditation session was deeply impactful, with many participants reporting a sense of calm and clarity afterward.

Impact and Feedback:

The three-days yoga and meditation sessions were highly appreciated by the participants, who reported several immediate benefits, including:

- Improved flexibility and physical relaxation.
- Enhanced mental clarity and reduced stress levels.
- A deeper understanding of how yoga and meditation can be incorporated into their daily lives.

Participants expressed their interest in continuing yoga and meditation practices and suggested organizing similar sessions regularly.

The yoga and meditation sessions at NSIT, conducted under the expert guidance of Dr. Brij Mohan Singh, successfully introduced participants to the transformative benefits of these practices. By addressing both physical and mental well-being, the sessions helped attendees realize the importance of a balanced and mindful lifestyle. The overwhelming response from participants underscored the need for integrating such programs into the institution's routine activities, fostering a healthier and more harmonious campus environment.

Future plans include offering regular yoga and meditation workshops to support the well-being of the NSIT community.

Outcomes:

- Enhanced awareness of the physical and mental benefits of yoga among attendees.
- Strengthened the institution's focus on holistic development as part of its NAAC accreditation goals.
- Inspired participants to adopt yoga as a regular practice for a healthy lifestyle.



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AMHARA, BIHTA, PATNA-801106

Ref No. - NSIT/ 91/2023

Date- 10/07/2023

Circular

Subject: Current Trends in Communication

It is pleased to inform all students and faculty that, INTERNAL QUALITY ASSURANCE CELL (IQAC) of NSIT going to organize A seminar on "Current Trends in Communication" about the on-going trends shaping the future of communication on 13 & 14 July 2023 by speaker Ankit kumar (Scientist 'C', Nielit Patna). These developments highlight the rapid pace of technological innovation and its impact on how individuals and organizations connect.

Key Trends in Communication:

- 1. Rise of Artificial Intelligence (AI)
- 2. Video Communication Dominance
- 3. Adoption of Unified Communication Platforms
- 4. Focus on Cybersecurity and Privacy
- 5. Use of Augmented Reality (AR) and Virtual Reality (VR)
- 6. Shift Towards Asynchronous Communication
- 7. Increased Social Media Influence

Dean, Academics

NSIT BIHTA

Dean (Academics)

Dean (Academics)

Netaji Subhas Institute of Technology

Copy to-

- Office of Dean Academics
- Office of Dean Admin
- Office of Registrar
- All Hod's
- Office of central file



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Name Of The Event: A seminar on " Current Trends in Communication"

Date: 13/07/2023 & 14/07/2023





The seminar successfully achieved its objectives, providing valuable knowledge to the participants and creating a platform for meaningful discussions on the future of communication.



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Attendance Sheet

Name Of The Event : A seminar on " Current Trends in Communication"

Date: 13/07/2023 & 14/07/2023

			CHNOLOGY	
	NETAJI SUBHASH	INSTITUTE OF IL	ion" ATTENDAL	NCE LIST
SI.	NAME OF PRTICIPANTS	Reg. No.	Reg. No. 13-07-2023	
NO.	NAME OF PRIICIPACES	22105103001	P	14-07-2023
1	PRIYA KUMARI	The state of the s	P	12
2	BIMAL KUMAR	22105103002	100	P
3	RAJ VERMA		P	12
4	MOHAMMAD AMAN	22105103004	P	12
5	SYMA PARWEEN	22105103005	P	12
6	ADITYA KUMAR MISHRA	22105103006		P
7	SHALINI KUMARI	22105103008	P	12
8	SWEETY KUMARI	22105103009	P	P
9	SHIVAM CHOUBEY	22105103010	P	P
10	NIKHIL RAT	22105103011	0	12
11	MEENU BHARTI	22105103012	P	100
12	NAVYA KASHYAP	22105103013	6	10
13	AASHUTOSH KUMAR	22105103014	P	P
14	HARSHITA KUMARI	22105103015	D	P
15	SUSTIII. RAJ	22105103016	P	p
16	NITISH KUMAR	22105103017	P	(1)
17	RAVIRAUSHAN	22105103018	P	P
18	PARUL RAJ	22105103019		P
19	AYASHA ABBAS	22105103020	P	P
20	BITTU KUMAR	72105103021	P	P
21	IANVIRAL	22105103022	P	P
22	SHIVAM RAI	22105103023		P
23	PRATIK PANDIT	22105103024	P	p
24	DHANANIAY KUMAR SING	22105103025	P	12
25	SANIMATITO	22105103026	P	P
26	HEEMANT KUMAR RAY	22105103027	p	P
27	AMAN KUMAR	22105103028	10	12
28	SAHIL KHAN	22105103029	P	P
29	MD. MOHSIN ALAM	22105103030	10	10
30	SHIVAM KUMAR	22105103031	P	10
31	PRAKASH KUMAR	22105103033	10	12
32	ASHISH KUMAR SINHA	22105103034	P	(p)
33	PRIYANSHU RA)	22105103035	P	P
34	MOHAMMAD ASHAD MANS	22105103036	1000	P
35	SANTU KUMAR	22105103037	P	P
36	HRITIK KUMAR		P	10
37	ARMAN KHAN	22105103039	P	p
38	SWABHIMAN RAJ	22105103040		10
39	KAIFY AZAM	22105103041	B	P
40	SHIVAM KUMAR	22105103042	P	15
41	UDITI PRAKASH	22105103043	10	1-
42	SHIVANI KUMARI	22105103044	The state of the s	7
43	GURIYA KUMARI	22105103045	P	F
44	PRINCE KUMAR	22105103046	8	P
45	PREETI SINGH	22105103047	-	10

46	Dimeren	22105103048	P	P
	DURGESH NANDAN	22105103049	P	P
	SHWETA KUMARI	22105103050	P	P
	RISHI CHAUHAN	22105103052	19	P
	AMAN THAKUR	22105103053	P	P
	KRISHNA KUMAR YADAV	22105103054	P	P
51	ADITYA RAJ	The Control of the Co	P	A
52	AMAN KUMAR	22105103055	P	P
53	AMISHA	22105103056	0	P
54	VICKY KUMAR	22105103057	P	P
55	MD. SHAHNAWAJ ALAM	22105103058	p	P
56	SHIVAM KUMAR	22105103059	0	p
57	RISHABH KUMAR	23105103903	P	P
58	MASHUM KUMAR	23105103904		(p)
59	MANISHA KUMARI	23105103905	P	10
60	ABHISHEK KUMAR	22101103001	P	P
61	SATYAM KUMAR	22101103002	P	-
62	BALMUKUND KUMAR	22101103003	P	P
63	ANIKET KUMAR	22101103006	P	
64	ABHISHEK RAJ	22101103007	P	P
65	GAURAV KUMAR	22101103008	P	P
66	AMIR HAMJA	22101103010	P	P
67	RAKESH KUMAR RAUSHAN	22101103011	P	P
68	ASHISH KUMAR SHARMA	22101103012	P	P
69	LAW KUMAR	22101103014	(9)	P
70	ABHISHEK KUMAR	22101103015	p	P
71	GULSHAN KUMAR	22101103016	P	P
-	KUNDAN RAI	22101103017	p	P
72	ABHINAV RAJ	22101103019	P	P
73	SHIVESH KUMAR	22101103020	P	P
74	ABHISHEK KUMAR	22101103022	p	P
75	AKASH KUMAR RAJAK	22101103023	P	P
76		22101103024	b	P
77	ADITYA MISHRA	22101103025	P	P
78	GAURAV RAJ	22101103025	P	P
79	HEMANT MITTAL	22101103027	P	P
80	SUMIT KUMAR	THE RESERVE OF THE PARTY OF THE	P	P
81	NIKHIL RAJ SINGH	23101103901		A
82	SUDHANSHU PAL	22102103001	P	
83	RAHUL KUMAR	22102103002	P	P
84	AMAN KHAN	22102103003	P	P
85	ARBAZ KHAN	22102103004	-	P
86	SYED ATIB HUSSAIN	23102103901	P	P
87	NILESH KUMAR SINGH	22110103002	P	P
88	MANIKANT KUMAR PASWA	22110103003	P	P
89	AKHLAK AHMAD	22110103004	P	P
90	MUKUND KUMAR	22110103005	p	P
91	SIDDHARTH KUMAR	22110103006	P	P
92	SWATI KUMARI	22110103007	P	P
93	RISHU RAJ	22110103010	P	P
94	SHAHID HUSSAIN	22110103011	P	P

Total > P=90 P=91 A=04 A=03



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AMHARA, BIHTA, PATNA-801106

Activity Report

Name Of The Event: A seminar on " Current Trends in Communication"

Date: 13/07/2023 & 14/07/2023

Communication has undergone significant transformation in recent years, driven by advancements in technology, evolving societal norms, and global events. This report explores the current trends in communication, highlights their implications, and provides insights into their outcomes across personal, organizational, and societal levels.

1. Enhanced Accessibility and Inclusivity

- Digital tools have made communication more accessible, enabling participation from diverse groups, including individuals with disabilities.
- Language translation tools break down barriers, fostering global collaboration.

2. Improved Efficiency and Productivity

- AI-driven automation reduces response times and improves workflow efficiency.
- o Asynchronous tools help teams maintain productivity across different time zones.

3. Challenges to Mental Health and Work-Life Balance

 Constant connectivity can lead to burnout and blurred boundaries between personal and professional lives.

4. Evolving Business Strategies

- Organizations are prioritizing digital marketing and communication strategies to reach broader audiences.
- Data-driven decision-making is becoming integral to effective communication planning.

5. Heightened Awareness of Ethical Practices

 Consumers and employees are increasingly holding organizations accountable for transparency and ethical practices in communication.

Dean (Academics)s

Dean (Academics)s

Netaji Subhas NejtpiBi Haha.

Amhara, Bihta, Patha.



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Date:-02/01/2024

Notice

All the students of B.Tech 1st Year are here by informed that the department of EEE and IQAC Cell in association with Power Integrated Solutions is organizing a workshop on **Embedded Systems on Ardunio** from 09/01/2024 to 12/01/2024. The registration fee is Rs.300/-.All students that are going to participate in the workshop must report to the coordinators on or before 05th Jan, 2024.

Name of the Coordinator:-

- 1. Mr. Nishant Kumar, HOD, Dept of EEE.
- 2. Mr. Priyaranjan Kumar, Dept of EEE.

Dean Academics (ACADEMICS)

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Netall Subas Binta Paina, Line

Organizing Committee

Patron

Mr. M. M. Singh, Founder Secretary, NSIT Mr. Krishna Murari, Registrar, NSIT Dr. S. Singh, Director, NSIT

Convener

Dr. J. Dalei, Dean Academic, NSIT

Coordinators

Mr. Nishant Kumar, NSIT Patna Mr. Priyaranjan Kumar, NSIT Patna

Organizing Members

Mr. Ritesh Kumar.

Mrs. Kiran Singh

Mr. Amarjeet Kumar

Mr. Agam Kumar

Objective of Workshop

An embedded system is a combination of hardware and software provided that both should be synchronized with each other. Some examples are as follows: industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines etc. The Arduino is an open-source computer hardware/software platform for building digital devices and interactive objects that can sense and control the physical world around them. In this course students will learn how the Arduino platform works in terms of the physical board and libraries and the IDE (Integrated Development Environment). The course will also cover programming the Arduino using C code and accessing the pins on the board via the software to control external devices.

About the Institute

Netaji Subhas Institute of Technology established in 2007, with first batch started in 2008 has its magnificent campus at Amhara in the district of Patna, Bihar, The nearest railway station is Bihta about 2 kilometres from the institute campus and about 25 KM from Patna A railway junction the state capital and major business and Educational hub of the state. Bihta is the industrial hub and blessings nerve centre of the entire state of Bihar. NSIT, A Degree level Engineering Institute has become a "An effective source of Technocrats to the nation", with its unique infrastructural facilities of 4,00,000 Sq.Ft. of built up area on approximately 18 acres of green lustre land at Amhara, Bihta, Patna, Ambience at the campus serve and Ashram like. The college offers 4 years B.Tech courses in CSE, ECE, EEE, ME and CE.

About the Department

The Department of EEE has a team of well qualified, experienced and dedicated faculty members with rich academic, industrial and research background. The department is fully equipped with modern electronics equipment systems with latest software. The EEE has the intake of 120 students and approved by AICTE and affiliated to AKU, Patna

Director Teahnology
Netali Subhas Institute of Teahnology
Amhara, PIN-801106

One Week-Workshop

on

EMBEDDED SYSTEM USING ARDUINO



Date: 09th Jan to 12th Jan, 2024

Organized by: Department of EEE & IQAC Cell NSIT Bihta Patna



2	Course Contents			
	EMBEDDES SYSTEMS DESIGN: BASIC			
DAWI	INTRODUCTION TO ARDUINO & ARCHITECTURE OF ARDUINO			
DAY-1	THEORY AND PRACTICAL IDEA OF LED & SWITCHES WITH ARDUINO			
	THEORY AND PRACTICAL IDEA OF RELAY INTERFACE WITH ARDUINO			
DAY-2	THEORY AND PRACTICAL IDEA OF LCD APPLICATION WITH ARDUINO			
	THEORY AND PRACTICAL IDEA OF DHT11 SENSOR WITH ARDUINO.			
	THEORY AND PRACTICAL IDEA OF SERVO MOTOR WITH ARDUINO			
	THEORY AND PRACTICAL IDEA OF ULTRASONIC SENSOR INTERFACE WITH ARDUINO.			
DAY-3	BLUETOOTH INTERFACE LOAD CONTROL			
DAT-3	THEORY AND PRACTICAL IDEA FLAME, IR SENSOR AND GAS SENSOR WITH ARDUINO.			

Vision of Department

To produce Electrical Engineers with energetic well rounded personalities flexible to cope escalating demands of budding technologies concerning analytical and practical skills.

Mission of Department

- To extend the department as a prominent academic centre of learning in the discipline of electrical engineering.
- To set up research and development hub of status so as to promote active participation with industry by staff and students to take on practical problems of industry and to provide feasible solutions.
- To develop simple, suitable technologies, this will be helpful in the up-liftment of rural society.

Resource Persons

Mathan Kumar M,Director Power Intergrated Solutions, Trichy

REGISTRATION

The participation fees Rs 350/- only Mode of registration: - Spot For More Information Contact us on:-7781020361, 7781020349, 9102403262

REGISTRATIONFORM

Name:	
Designation:	
Organization:	
Gender: M/F	
Area of Work:	
Email:	
Contact no:	
Address:	
Date:	
Signature:	

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Certificate Course in Arduino based Embedded System Design

Objective: An embedded system is a combination of hardware and software provided that both should be synchronized with each other. Some examples are as follows: industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines etc. The Arduino is an open-source computer hardware/software platform for building digital devices and interactive objects that can sense and control the physical world around them. In this course students will learn how the Arduino platform works in terms of the physical board and libraries and the IDE (Integrated Development Environment). The course will also cover programming the Arduino using C code and accessing the pins on the board via the software to control external devices.

Learning Outcome: After the completion of the course, the students will be specialized in Embedded System Design using Arduino.

Duration of the Course: 3 Days

Detailed Course Syllabus

INTRODDUCTION AND BASIC IDEA ABOUT EMBEDDED YSSTEMS.

BRIEF THEORY AND APPLICATION FOR EMBEDDED SYSTEMS.

INTRODUCTION TO ARDUINO & ARCHITECTURE OF ARDUINO

COMPARISON OF ARDUINO WITH ARM, 8051 AND PIC ARCHITECTURES.

THEORY AND PRACTICAL IDEA OF SWITCHES WITH ARDUINO

THEORY AND PRACTICAL IDEA OF LED WITH ARDUINO

THEORY AND PRACTICAL IDEA OF RELAY INTERFACE WITH ARDUINO

THEORY AND PRACTICAL IDEA OF LCD APPLICATION WITH ARDUINO

THEORY AND PRACTICAL IDEA OF DHT11 SENSOR WITH ARDUINO,

THEORY AND PRACTICAL IDEA OF SERVO MOTOR WITH ARDUINO

THEORY AND PRACTICAL IDEA OF ULTRASONIC SENSOR INTERFACE WITH ARDUINO.

BLUETOOTH INTERFACE LOAD CONTROL

THEORY AND PRACTICAL IDEA FLAME, IR SENSOR AND GAS SENSOR WITH ARDUINO.

Netali Subhas Institute of Tachnology Amhara, PIN-801106

Υ.	NETAJI SUBHAS II	NSTITUTE OF TECH	NOLOGY, BIHTA		
		Session 2023-24			
	Workshop on EM	BEDDED SYSTEM	USING ARDUINO		
S.No	Name of Student	09th Jan	10th Jan	11th Jan	12th Jan
1	GOVIND KUMAR	P	P	P	R
2	ANJALI RANI	P	P	P	\mathcal{P}
3	RAJ KUMAR	P	12	P	P
4	SUMAN SAURABH SINGH	12	12	P	A
5	DEVJYOTI	P	b.	12	f.
6	MD MEHRAJ ALAM	P	P	'p	P
7	AMAN KUMAR	P	P	P	P
8	ABHISHEK KUMAR	P	12	P	P
9	ASHISH RAJ	P	p	P	P
10	SHIVAM SUNDRAM	A	10	P	ø
11	KARAN KUMAR	P	P	P	P
12	RAJ KUMAR	P	P	10	P
13	MOHIT RAJ SHARMA	P	P	A	P
14	VIVEK KUMAR SINGH	P	P	P	P
15	SAHIL SIDDIQUE	10	P	P	A
16	KUNAL KUMAR	P	p	P	0
17	ABHISHEK KUMAR	P	P	P	0
18	PRIYANSHU KUMAR	p	12	p	0
19	AMAN KUMAR	P	P	t p	5
20	SUDHANSHU KUMAR	P	P	0	^
21	ADITYA KUMAR	p	0	p	9
22	ANKIT TIWARI	P	P	P	0
23	MAHI KUMARI	p	p	P	3
24	VARSHA RANI	P	10	1 p	0
25	MISA KUMARI	P	P	1 6	b
26	RISHAV RAJ	P	P	P	0
27	SHREYA SINGH	P	P	P	70
28	PRACHI KUMARI	P	0	b	1
29	SURAJ KUMAR	P	12	P	8
30	MONALISA SINHA	P	P	P	0
31	KOMAL KUMARI	10	12	F 5	0
32	ANJALI KUMARI	P	P	P	10
33	NITISH KUMAR	P	P	P	1
34	VIVEK KUMAR	P	19	P	Ā
35	ANUSHKA KUMARI	P	p	1 10	0
36	ABHIRUCHI KUMARI	P	ط	P	0
37	AYUSH KUMAR	A	P	10	0
38	MANSHI KUMARI		P	6	10
39	NIDHI KUMARI	P	P	P	6
-		1	P	10	P
40	KHUSHI KUMARI	P	7 0		5
	ARMAN SINGH	- X	P	P	10
42	ADDICTION DATE	1	100v 10		1
43	ABHISHEK KAJ	101	dinolos S	P	B
44	VISHAL GUSWAMI	Oire dille of the	a Bilia P	P	A
45	VACHWANT VINAR CURTA	Thas Institute and		P	P
46	RITIK RAJ ABHISHEK RAJ VISHAL GOSWAMI AYUSH KUMAR YASHWANT KUMAR GUPTA HARI PRIYA	0 3 BILL 80110	P	P	P
47	HAKIPKIYA NOTA	ia bir b	P	+ P	Λ-

48

KISHAN KUMAR

9	ANUSHKA GARG	P	P	P	A
. 60	DIPU KUMAR	P	P	P	P
51	SAMIT KUMAR	P	A	P	P
52	RAJA KHUSHAHAL	P	12	P	10
53	VIKASH KUMAR	P	P	P	7
54	AKSHAY KUMAR	P	P	P	4
55	SONU KUMAR	P	P	P	T
56	MAYANK RAJ	P	P	P	P
57	HARSHVARDHAN KUMAR	P	10	P	A
58	ABHINAV SINGH	P	P	A	P
59	ABHAY KUMAR	P	P	p	4
60	VIKRAM RAJ	P	P	P	P
61	PAYAL RAJ	P	P	P	P
62	DEEPAK KUMAR	P	10	19	1
63	HRITIK KUMAR	P	P	P	A
64	RAJMANI KUMARI	P	P	12	P
65	SAMEER KUMAR	10	P	12	P
66	MD KAIF	A	p	P	P
67	MOHIT KUMAR	P	p	P	P
68	TANAY PATEL	P	P	P	P
	SHIVAM KUMAR	12	10	P	8
69	VISHAL KUMAR	D	p	12	P
70	PRAKASH KUMAR	P	P	P	'A
71	VAIBHAV RAJ	P	P	P	P
72	RISHAV RAJ	10	p	P	P
73	TAYEEB AHMAD	P	P	p	P
74	ARAF ANWAR	10	10	P	P
75		P	A	P	P
76	MD FARHAAN SAUD	D	P	P	P
77	MD AHSAN JAMAL	P	P	P	P
78	ABHAY KUMAR	P	10	p	P
79	AMAN KUMAR	P	P	P	P
80	PRIYANSHU RAJ	P	10	P	P
81	DEEPAK KUMAR		P	10	D
82	SUNIL KUMAR	P	P	b	1
83	MD ALTAMAS	P	P	10	P
84	KAMLESH KUMAR	P	10	10	P
85	ANKUSH KUMAR		P	P	0
86	GAUTAM KUMAR	P	10	P	0
87	ALOK RAJ	P		1 6	1
88	DEVRAJ	P	12	10	10
89	MD SHAHZAD ANSARI	P	P	P	6
90	MOHAMMAD ANIS	P		15	0
91	ARYA SINGH	P	10		P
92	ANSH ACHARYA	P		A	
93	VEDIKA	P	P	P	9
94	ABHISHEK KUMAR	IPA	Jay P	P	
95	RISHU RAJ	Pos	echno bar so	P	A
96	SUNNY KUMAR	1663 to 01	na P	P	10
97	SHASWAT RAJ	Dinskin 63	06	P	13
98	ARUSH PRAKASH	Oiregion of Paragraphics of Pa	A	P	T
99	VIKESH KUMAR SINGH	-313. 6/kg	P	P	P
100	ANAND KUMAR P.C	y. b	P	P	1
101	KOMAL KUMARI	D	10	P	14

Certificate of Participation

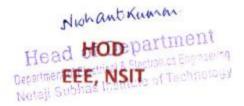


Power Integrated Solutions

#10A/3 Radhakrishna Colony, Sastri Road, Thennur, Trichy-17. powerintegratedsolutions@gmail.com









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Ref No.- NSIT/33/2024

Date- 22/04/2024

Circular

It is pleased to announce that IQAC of NSIT is going to organize a two-day awareness program on Intellectual Property Rights (IPR) and Its Protection by Er. Sanjeev Gupta(Alumni Bits Pilani) & Dr. Nalin Bharti (Professor, IIT Patna) scheduled to be held on 26th and 27th April 2024.

This program aims to educate students and faculty members about the significance of Intellectual Property Rights in fostering innovation, creativity, and economic growth. The event will provide insights into various aspects of IPR, including patents, copyrights, trademarks, and the legal frameworks for their protection.

Key Highlights of the Program:

- Expert Talks: Sessions by leading industry experts and legal professionals on IPR policies and protection strategies.
- 2. Workshops: Interactive workshops on filing patents, trademarks, and copyrights.
- 3. Case Studies: Real-world examples highlighting the impact of IPR in various industries.
- 4. Q&A Sessions: Opportunities to clarify doubts and gain deeper knowledge about IPR

Dean, Academics

NSIT BIHTA

Dean (Academics)
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna.

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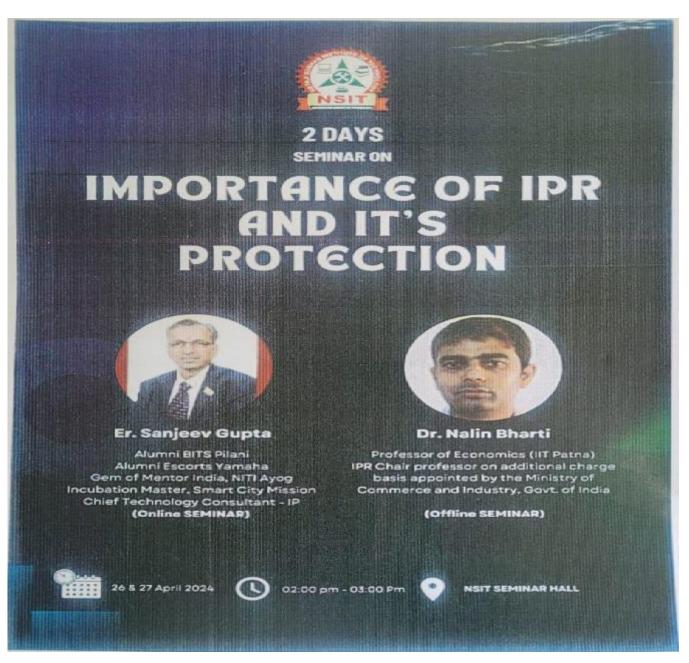
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Name Of The Event: A seminar on "Importance of IPR and its Protection"

Date: 26/04/2024 & 27/04/2024





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Name Of The Event: A seminar on "Importance of IPR and its Protection"

Date: 26/04/2024 & 27/04/2024





The IPR seminar at NSIT was a vital step towards creating awareness and fostering a culture of intellectual property protection. The success of the event has set the stage for future initiatives, encouraging innovation and legal literacy among students and professionals alike.



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ATTENDANCE SHEET

Name Of The Event: A seminar on "Importance of IPR and its Protection"

Date: 26/04/2024 & 27/04/2024

7 1	Hari narayan Sharma	Faculty	P	P	
	Abhaya Kumar	Faculty	P	P	
	Manoj Kumar	Faculty	P	P	
30	Arishu Ranjan Kumar	Faculty	19	P	
31	Dr. Kalpana Kumari	Faculty	P	P	
37	Ravi Kuamr Mandal	Faculty	P	P	
33	Kishu Singh	Students	12	P	
34	Mohit Kumar	Students	p	P	
35	Athar Shrivastava	Students	p	A	
36	Raja Khushahal	Students	P	P	
37	Suman Saurabh Singh	Students	P	P	
38	Adersh Amritanshu	Students	10	P	
39	Ayasha Abbas	Students	10	P	
40	Khushi Kuamri	Students	10	P	
41	Nikhil Raj	Students	p	p	
42	Diana Annette	Students	P	p	
43	Harnes	Students	10	10	
44	Sneha Kumari	Students	10	P	
45	Durgesh nandan	Students	10	P	
46	Vedika	Students	10	P	
47	Aman Kumar Sont	Students	P	p	
48	Niraj Kuamr	Students	P	P	
49	Abhishek Kumar	Students	A	P	
50	Karan Kumar	Students	16	P	
5.1	Sudhanshu Kumar	Students	P	P	
52	Shivam Kumar	Students	ja.	1/2	
53	Asmit Raj	Students	P)	P	
54	4 Abhishek Kumar	Students	10	p	
53	5 Priya Kuamri	Students	to	P	
5	5 Shushant Kumar	Students	15	P	

		District Control of the Control of t	OF TECHNOLOGY	
	SEM	INAR ATTENDA	NCE LIST	
SI. NO.	NAME OF PRTICIPANTS	Academics From	25-04-2024	27-04-2024
1	Dr Jyotirmayee Dalei	Faculty	P	P
2	Babul Kr Mandal	Faculty	P	P
3	Sumant Sandalya	Faculty	12	P
4	Md. Firoz Alam	Faculty	P	P
5	Dr S Hassan Imam Arshi	Faculty	p	P
6	Dr. Shama Bano	Faculty	P	P
7	Shekhar Shrivastava	Faculty	P	P
8	Bikash Kumar	Faculty	P	P
9	Priyaranjan Kumar singh	Faculty	P	P
10	Sneha Kumari	Faculty	P	P
11	Suryansh Verma	Faculty	P	P
12	Azra Batool	Faculty	12	10
13	Dr. reema Dhar	Faculty	p	P
14	Nagma Afshna	Faculty	P	P
15	Satya Prakash	Faculty	P	p
16	Rajani Ranjan	Faculty	p	P
17	Biswajit Rai	Faculty	p	P
18	Kumar Ranjan	Faculty	P	P
19	Devesh Kishor	Faculty	10	P
20	Ritesh Kumar	Faculty	A	P
21	Mithlesh Kumar Jha	Faculty	P	P
22	Sampurnanand	Faculty	P	p
23	Atul Jyoti	Faculty	P	p
24	Vikash Kumar	Faculty	p	P
25	Gautam	Faculty	p	P
26	Rajan Kumar	Faculty	p	P

57	Kishan Kumar	Students	P	P
58	Akshay Kumar	Students	12	P
		THAT >	P= 56	P = 57
		1	+ -02-	A = 01



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Activity Report

Name Of The Event: A seminar on "Importance of IPR and its Protection"

Date: 26/04/2024 & 27/04/2024

Internal Quality Assurance Cell (IQAC) of Netaji Subhas Institute of Technology (NSIT) organized a two-day seminar on "The Importance of Intellectual Property Rights (IPR) and Its Protection" on the 26th and 27th of April 2024. The event aimed to educate students, faculty, and stakeholders about the critical role of IPR in fostering innovation, safeguarding creativity, and contributing to economic growth. With an array of interactive sessions, expert talks, and hands-on workshops, the event was a resounding success.

Day 1: 26th April 2024

1. Inaugural Session

The event began with a ceremonial lamp lighting and a welcome address by Dr. Jyotirmayee Dalei, Dean, Academics & IQAC, Director of NSIT. She emphasized the significance of IPR in the modern era and highlighted NSIT's commitment to fostering awareness about it.

2. Discussion on "IPR in the Digital Age" and "Filing for Patents"

- Deliberated on the challenges and opportunities associated with IPR in the digital domain. Topics discussed included copyright issues in online content, patent trolling, and the role of Artificial Intelligence in intellectual property. Then he provided a step-by-step guide on drafting, filing, and managing patent applications. Participants also learned about common pitfalls to avoid during the filing process.
- The session was interactive, with attendees raising questions about real-life scenarios.

Day 2: 27th April 2024

1. Technical Session: "Protecting Start-Up Innovations"

This session focused on strategies for start-ups to safeguard their innovations.a Gem of Mentor India, NITI Ayog, Incubation Master, Smart City Mission (Chief Technology Consultant), shared insights on the importance of protecting trademarks, trade secrets, and patents to enhance market competitiveness.

2. Case Study Analysis

Attendees were divided into groups and given real-world cases involving IPR disputes. Teams analyzed and presented solutions, which were evaluated by a panel of experts. This activity encouraged critical thinking and practical application of theoretical knowledge.

3. Valedictory Session

- o The event concluded with a summary of the two days, delivered by Dr. Jyotirmayee Dalei. Certificates of participation were distributed to attendees.
- o In her closing remarks, Dr. Dalei thanked the organizing team and participants, reiterating the importance of continuous learning and vigilance in the domain of IPR.

Outcomes:-

- Understanding the basics and categories of IPR, including patents, copyrights, trademarks, and trade secrets.
- Practical insights into the patent filing process and the significance of protecting intellectual assets in the digital age.
- The role of IPR in fostering innovation and its importance for start-ups and businesses.





POWER INTERGRATED SOLUTIONS
IN COLLABORATION WITH
NETAJI SUBHAS INSTITUE OF TECHNOLOGY,
BIHTA

PYTON ON RP2040

Join Workshop



24th June to 28th June, 2024

Organized By
Department of Electrical &
Electronics Engg.

CONVENOR

DR. J. DALEI, DEAN, ACADEMIC, NSIT

COORDINATORS

MRS. NISHANT KUMAR HOD, EEE, NSIT MR. AMARJEET KUMAR, NSIT PATNA MR. DEEPAK KUMAR, NSIT PATNA

PERSONAL PROSON

POWER INTERGRATED SOLUTIONS, TRICHY

REGISTRATION

Mode of Registration: Spot For More Information Contact us on: 9102403271, 7781020349

Director Technology

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Date:-19/06/2024

Notice

All the students of 6th semester B.Tech are here by informed that the department of EEE and IQAC Cell in association with Power Integrated Solutions is organizing a workshop on **Python on RP2040** from 24/06/2024 to 28/06/2024.

Name of the Coordinator:-

- 1. Mr. Nishant Kumar, HOD, Dept of EEE.
- 2. Mr. Amarjeet Kumar, Dept of EEE.
- 3. Mr. Deepak Kumar, Dept of EEE.

Dean Academics (CS)

Subhas Historia, Pa

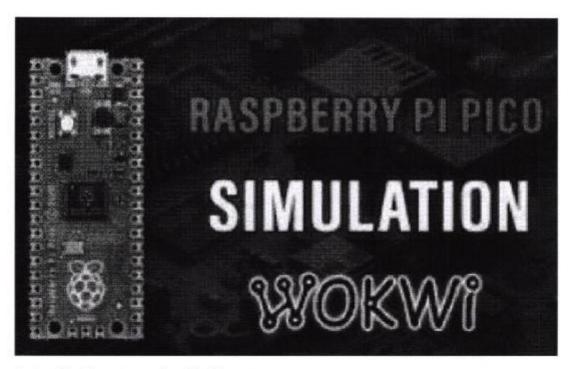
Director

Director

Subhas Institute of Technology

Amhara, Bihta, Patna, Biha

PYTHON TRAINING ON RP2040 PROGRAM SYLLABUS



Introduction to embedded systems

- Learning of PYTHON.
- Introduction to RP2040
- Architecture of RP2040

Hardware & Software

- ROM and RAM memory
- CPU
- · Peripherals
- · Software's and types
- · IDE and ISP
- General purpose I/O
- · Led's/Switches
- ADC/DAC

Netal Subhas Binds of Technology

- Interrupt
- Timer/Counter
- UART
- DC motor
- · Liquid Crystal Display

Sensor Interfacing

- · Temperature Sensor.
- Ultrasonic Sensor.
- OLED Sensor.
- Wireless Protocol Interface.
- Keypad and Joystick Protocol.

SCHEDULE:

Day 1:

- 1. Introduction to Raspberry PI (RP2040).
- 2. Architecture of RP2040.
- 3. PIN Configuration of RP2040.
- 4. Comparison Analysis of Various Controllers in RP2040.
- 5. LED (SINGLE LOOP, FOR LOOP) With RP2040.
- 6. MULTI Interfaced LED Concept.
- 7. Real time Traffic Signal Detection.
- 8. LED with DIP Switch Control Interfaces.

Day 2:

1. Study of Relay control interface With RP2040.

140. Director Technology Bihes Bihia, Patha Bihia, 1106

- 2. Study of Active Buzzer interface with RP2040.
- Study of Multi Buzzer and Relay control interface with RP2040
- 4. Study of Ultrasonic Sensor Interface with RP2040.

Day 3:

- 1. ADC interface with RP2040.
- 2. LM35 Temperature Sensor interface with RP2040.
- 3. LCD Interface with RP2040.

Day 4:

- 1. Servo Motor Control using a Potentiometer.
- 2. LCD Interfacing with Ultrasonic Sensor.
- 3. Burglar Alarm Product.
- 4. Temperature Sensor with Segment Display.

Day 5: (SIMULATION)

- 1. OLED interface with RP2040.
- 2. JOYSTICK BUTTON interfaced with RP2040.
- 3. KEYPAD interfaced with RP2040.
- 4. FALL DETECTION by ACCLEROMETER SENSOR.
- 5. Variable RGB LED by Potentiometer.

Netal Subhas Inta Patria Binar

(Simulation is carried in WOKWI Simulator and Hardware will be experimented).

HARDWARE PROJECTS: (10 PROJECTS)

- TRAFFIC LIGHT DETECTION SYSTEM.
- SANITIZER DISPENSER SYSTEM.
- STREETLIGHT MANAGEMENT SYSTEM.
- COLOUR MONITORING SYSTEM.
- SENSOR-BASED AGRICULTURE MONITORING SYSTEM.
- SOLAR POWER MONITORING SYSTEM.
- DUSTBIN MONITORING ALERT SYSTEM.
- FOREST FIRE SAFETY SYSTEM.
- TOXIC GAS DETECTION SYSTEM.
- LOCATION TRACKING SYSTEM.

QUOTATION:

TRAINING CHARGES FOR 5 DAYS: 1000/- (PER Student).

HARDWARE CHARGES: 1750/- (PER BATCH).

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C	3033 3	
Session	111113-1	4

Workshop on PYTHON ON RP2040								
S.No	Name of Student	Reg. Number	24th June	25th June	26th June	27th June	28th June	
1	NIKHIL RAJ MISHRA	21105103001	12	P	P	P	12	
2	SHIVAM KUMAR	21105103002	12	12	P	P	P	
3	NIKHIL KUMAR	21105103003	12	P	P	P	P	
4	DHANRAJ KUMAR BHAGAT	21105103004	10	P	P	P	P	
5	ADITYA RAJ	21105103005	P	P	P	P	p	
6	SHIVAM KUMAR	21105103007	12	P	P	P	P	
7	ANAND KUMAR	21105103008	P	P	12	p	P	
8	PRANAV AYUSH	21105103013	10	P	P	P	0	
9	VISHAL RANJAN	21105103015	12	P	12	p	P	
10	HARISH VISHWAKARMA	21105103017	12	P	P	P	P	
11	ADITYA RAJ	21105103018	10	P	10	b	10	
12	AYUSHI SINGH	21105103028	10	P	P	P	p	
13	SURBHI SRIVASTAVA	21105103030	10	12	P	P	p	
14	RISHAV BHAKTESH	21105103031	A	10	P	P	10	
15	HARIOM KUMAR	21105103039	P	p	P	P	p	
16	ALOK KUMAR	21105103040	P	P	P	10	0	
17	VISHAL KUMAR	21105103041	P	P	p	10	D	
18	NAVIN KUMAR	21105103042	10	10	p	p	Ol Ol	
19	RICHA KUMARI	22105103902	10	A	P	12	P	
20	KARMJEET SINGH	22105103903	10	P	p	P	P	
21	AJEET KUMAR	22105103904	10	0	A	10	P	
22	AMIT KUMAR	21101103001	10	10	P	0	P	
23	ALOK KUMAR SINGH	21101103002	P	P	p	p	0	
24	AMIT KUMAR RAI	21101103002	P	P	12	10	P	
25	VISHAL KUMAR	21101103003	10	0	12	P	P	
26	SHIVAM KUMAR	21101103011	P	P	12	P	12	
27	RAHUL KUMAR	21101103012	p	P	p	P	10	
28	SUMIT KUMAR	21101103013	P	P	10	-		
29	OMKAR CHAUBEY		/	P		12	P	
30	TIGHT AND THE STATE OF THE STAT	21101103025	12		P	12		
31	SWETA	22101103004	P	P	10	12	P	
	JYOTI NAINA	22101103005	P	P		r	P	
32	ABHISHEK	22101103901		P	P	P	P	
33	UTKARSH KUMAR	22101103902	P	P	P	p	P	
34	AMAN KUMAR	22101103903	P	P	P	A	p	
35	GYAN PRAKASH	22101103904	P	P	P	P	P	
36	PRATIK PRAKASH	22101103905	P		12	p	P	
37	ASHWINI KUMAR	22101103906	P	P	P	12	P	
38	ROHAN ANAND	22101103907	P	P	12	10	P	
39	AMIT KUMAR	22101103908	P	P	p	10	P	
40	ANAND KUMAR	21102103001	P	P	P	P	p	
11	ANIKET KUMAR	21102103004	P	P	12	P	P	
42	NAINA KUMARI	21102103005	10	P	12	P	P	
13	SAURAV KUMAR	21110103001	P	P	P	P	10	
14	ABHISHEK RAJAN	21110103002	A	P	12	10	1 P	
45	ANAND RAJ BHARTI	21110103003	10	P	12 1	p	TP	
46	RASHID MAHBOOB	21110103004	P	P	10-	- Pen	12	
47	SONU KUMAR	21110103006	P	A	12	Jiregio	Technology na, Bings	
48	SURYA KANT	21110103007	P	10	vetau Subha	Bihtal Pal	na. Bihar	

49	SOHANI SHARAN	21110103008	P	P	P	12	P
50	SHUBHAM MISHRA	22110103901	P	P	12	10	10
51	RISHABH KUMAR	21104103002	P	P	10	10	10
52	AMISHA BHARTI	21104103003	P	P	12	10	10
53	RITIKA JHA	21104103004	P	P	P	12	P
54	DIVAKAR KUMAR	21104103005	P	P	A	P	P
55	PRINCE KUMAR	22104103901	P	P	P	P	A
56	TANYA KUMARI	22104103903	10	P	P	P	P
57	ANJALI KUMARI	22104103904	P	P	P	P	P
58	RAUNAK KUMAR	22104103905	P	P	10	10	10

Netall Subhas Birta, Patna, Birta, Pilv. 801106.

Certificate of Participation



Power Integrated Solutions

#10A/3 Radhakrishna Colony, Sastri Road, Thennur, Trichy-17. powerintegratedsolutions@gmail.com



This is to certify that Mr/Ms....SOH AND SHARAN Reg No...21110103008

Has Successfully completed the workshop program on "Python on RP2040"

from 24.06.2024 to 28.06.2024 conducted by IQAC and the Department of Electrical and Electronics Engineering at Netaji Subhas Institute of Technology, Bihta, Patna in association with Power Integrated Solutions, Trichy.



Head of Technology
Netaji Subhas Institute of Technology

DIRECTOR

IQAC Direction

Netaji Subhas Institute Patna, Bithar

Amhara, Bihta, Patna, Bithar

Certificate of Participation



Power Integrated Solutions

#10A/3 Radhakrishna Colony, Sastri Road, Thennur, Trichy-17. powerintegratedsolutions@gmail.com



This is to certify that Mr/Ms...RASHID MAH 8008...Reg No. 2.111.010.3004...

Has Successfully completed the workshop program on "Python on RP2040"

from 24.06.2024 to 28.06.2024 conducted by IQAC and the Department of Electrical and Electronics Enginering at Netaji Subhas Institute of Technology, Bihta, Patna in association with Power Integrated Solutions, Trichy.



Nohant Ruma

Headlon Department

Department of Electronics Engineering

Notali Subman Include of Technology

DIRECTOR
IGAC, Director
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Amhara, Bihta, Patna, Bita