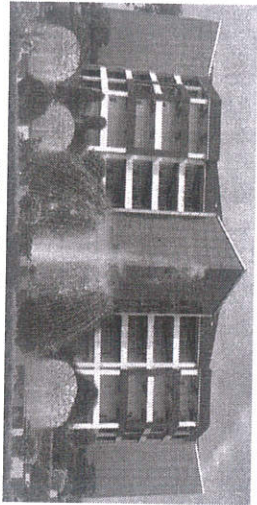




Netaji Subhas Institute of Technology

Approved by AICTE and Affiliated to AKU, Patna



Workshop

ON

Real time Embedded Systems and its Application
March 01-06, 2019

Organized by
Department of EEE

Coordinators

Mr. Ritesh Kumar, NSIT Patna
Mr. Deepak Kumar, NSIT Patna

ABOUT THE COLLEGE

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 Bihata 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. Bihata 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, Bihata, Patna, Ambience at the campus serve and Ashram like. The college offers 4 yaers B.Tech courses in CSE, ECE, EEE, ME and CE.

ABOUT DEPARTMENT OF EEE

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

DEPARTMENT VISION

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

DEPARTMENT MISSION

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.

To develop simple, suitable technologies, this will be helpful in the up-liftment of rural society.

OBJECTIVE

The objective of this workshop is to provide students to learn embedded systems and the devices used to control, monitor or assist the operation of equipment, machinery or plant. "Embedded" reflects the fact that they are an integral part of the system.

WORKSHOP CONTENTS

- ❖ Basic knowledge of Embedded system and its applications
- ❖ Basic knowledge of Microcontroller's system and its applications
- ❖ Hardware development, prototyping, Testing and Commissioning

Registration Fee

The participation fees Rs 1100/-

Mode of registration :- Spot

For More Information Contact us on :-

7781020349, 7781020361, 9102403261

RESOURCE PERSON

Nathan Kumar M, Director

Power Integrated Solutions, Trichy

PATRONS

Mr. M. M. Singh, Founder Secretary, NSIT

Mr. Krishna Murari, Registrar, NSIT

Dr. S. Singh, Director, NSIT

EVENT CHAIR

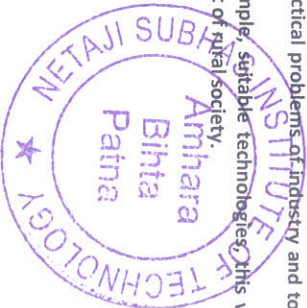
Dr. Aniket Dutt, Dean, NSIT

CONVENOR

Dr. J. Dalei, HOD, EEE, NSIT

Director

Netaji Subhas Institute of Technology
Amhara, Bihata, Patna, Bihar
PIN-801106





NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

APPROVED BY AICTE, NEW DELHI AND DEPT OF SCIENCE & TECHNOLOGY, GOVT. OF BIHAR
AFFILIATED TO ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA
AMHARA, BIHTA, PATNA-801118, BIHAR

Session 2018-2019

Date : 16-02-2019

Notice

It is hereby informed to all students of 4th, 6th and 8th Semester of Electrical and Electronics Engineering department that a certificate course on Real time Embedded Systems and its Application is going to be held in the Department with Power Integrated Solution, Trichy from 1st March 2019 to 6th March 2019. The registration fee is Rs.1100/-. The interested Student should register their name on or before 25th Feb, 2019.

J Dalei

Dr. J. Dalei

(HOD, EEE Department)

Head of Department

Department of Electrical & Electronics Engineering
Netaji Subhas Institute of Technology

Copy to:

1. Director, NSIT
2. Dean, NSIT
3. Notice Board



J S Dalei
Director
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106

EMBEDDED SYSTEMS AND APPLICATIONS SYLLABUS.

| S.NO | CONTENTS | DURATION |
|------|---|----------|
| 1. | <ol style="list-style-type: none"> 1. INTRODUCTION AND BASIC IDEA ABOUT EMBEDDED SYSTEMS. 2. BRIEF THEORY AND APPLICATION FOR EMBEDDED SYSTEMS. 3. INTRODUCTION TO MICRO-CONTROLLERS. 4. ARCHITECTURE OF MICRO-CONTROLLERS. | 4 HOURS |
| 2 | <ol style="list-style-type: none"> 1. THEORY AND PRACTICAL IDEA OF LED WITH MICRO-CONTROLLERS. 2. TRAFFIC LIGHT PROJECT WITH MICRO-CONTROLLERS. | 4 HOURS |
| | <ol style="list-style-type: none"> 1. THEORY AND PRACTICAL IDEA OF LCD APPLICATION WITH MICRO-CONTROLLERS. 2. THEORY AND PRACTICAL IDEA OF MULTILINE LCD APPLICATION WITH MICRO-CONTROLLERS. | 4 HOURS |
| 3. | <ol style="list-style-type: none"> 1. THEORY AND PRACTICAL IDEA FOR MOTOR WITH MICRO-CONTROLLERS. 2. MULTI-LOAD CONTROL WITH MICROCONTROLLERS. | 4 HOURS |
| 4 | <ol style="list-style-type: none"> 1. THEORY AND PRACTICAL IMPLEMENTATION OF IR SENSOR 2. THEORY AND PRACTICAL IMPLEMENTATION OF RAIN SENSOR. | 3 HOURS |
| 5 | <ol style="list-style-type: none"> 1. THEORY AND PRACTICAL IMPLEMENTATION OF GAS SENSOR. 2. THEORY AND PRACTICAL IMPLEMENTATION OF MOISTURE SENSORS. | 3 HOURS |
| 6 | <ol style="list-style-type: none"> 1. THEORY AND PRACTICAL IMPLEMENTATION OF MULTI-SENSORS. | 4 HOURS |
| 7 | <ol style="list-style-type: none"> 1. GSM AND GPS INTERFACE. | 3 HOURS |
| 8 | PROJECT EXPO | 3 HOURS |
| | TOTAL | 32 HOURS |


Director
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 PIN-801108



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

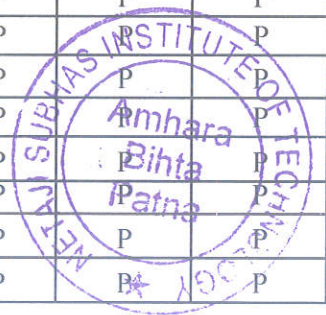
Session 2018-2019

Real time Embedded Systems and its application

Workshop Attendance Sheet

| Sr.No | Name Of Students | 01-Mar | 02-Mar | 03-Mar | 04-Mar | 05-Mar | 06-Mar |
|-------|----------------------|--------|--------|--------|--------|--------|--------|
| 1 | MD NAJISH MERAJ | P | P | P | P | P | P |
| 2 | ANKU KUMAR SINGH | P | P | P | P | P | P |
| 3 | KUMAR RISHABH | P | P | P | P | P | P |
| 4 | Saurav Shubham | P | P | P | P | P | P |
| 5 | Manish Kumar Singh | P | P | P | P | P | P |
| 6 | Madhu Kumari | P | P | P | P | P | P |
| 7 | Amrita Chandra | P | P | P | P | P | P |
| 8 | SHUBHAM KUMAR MISHRA | P | P | P | P | P | P |
| 9 | PRATYUSH PARAG | P | P | P | P | P | P |
| 10 | Utsav Bhardwaj | P | P | P | P | P | P |
| 11 | Anish Kumar | P | P | P | P | P | P |
| 12 | Abhishek Kumar | P | P | P | P | P | P |
| 13 | SONAM PRIYA | P | P | P | P | P | P |
| 14 | Mohit Kumar | P | P | P | P | P | P |
| 15 | Sonu Kumar | P | P | P | P | P | P |
| 16 | Pawan Kumar | P | P | P | P | P | P |
| 17 | RAHUL RAJ | P | P | P | P | P | P |
| 18 | RAJEEV RANJAN | P | P | P | P | P | P |
| 19 | ANKIT KUMAR | P | P | P | P | P | P |
| 20 | ADITYA KUMAR | P | P | P | P | P | P |
| 21 | ISHA KUMARI | P | P | P | P | P | P |
| 22 | AMRIT RAJ | P | P | P | P | P | P |
| 23 | RAJIV KUMAR SINGH | P | P | P | P | P | P |
| 24 | ASHISH KUMAR | P | P | P | P | P | P |
| 25 | GOPAL JEE | P | P | P | P | P | P |
| 26 | PRINCE RAJ | P | P | P | P | P | P |
| 27 | RITESH KUMAR SINGH | P | P | P | P | P | P |
| 28 | ALOK KUMAR | P | P | P | P | P | P |
| 29 | ABHISHEK KUMAR | P | P | P | P | P | P |
| 30 | SANDEEP KUMAR SUMAN | P | P | P | P | P | P |
| 31 | SUPRIYA KUMARI | P | P | P | P | P | P |
| 32 | PALLAVI KUMARI | P | P | P | P | P | P |
| 33 | PARABHAT RANJAN | P | P | P | P | P | P |
| 34 | NIKITA KUMARI | P | P | P | P | P | P |
| 35 | ASHISH KUMAR | P | P | P | P | P | P |
| 36 | SWEETI KUMARI | P | P | P | P | P | P |
| 38 | SHRUTI RAJ | P | P | P | P | P | P |
| 39 | PREMLATA KUMARI | P | P | P | P | P | P |
| 40 | CHANDRAKANTA | P | P | P | P | P | P |
| 41 | AJANAS KUMARI | P | P | P | P | P | P |
| 42 | RAJIV KUMAR | P | P | P | P | P | P |
| 43 | SANJANA KUMARI | P | P | P | P | P | P |
| 44 | KAUSHAL KUMAR | P | P | P | P | P | P |
| 45 | PUTUL RANI | P | P | P | P | P | P |
| 46 | PUTUL RANI | P | P | P | P | P | P |

Director
 Netaji Subhas Institute of Technology, Bihar
 Gulsan, Bihta, Patna, Bihar
 Amhara, PIN-801106



| | | | | | | | |
|----|---------------------|---|---|---|---|---|---|
| 47 | JEEVAN DEEP | P | P | P | P | P | P |
| 48 | VIJAYA LAKSHMI | P | P | P | P | P | P |
| 49 | OMSHRESTH | P | P | P | P | P | P |
| 50 | RAJEEV RANJAN | P | P | P | P | P | P |
| 51 | PRANAV RAJ | P | P | P | P | P | P |
| 52 | Akash Nigam | P | P | P | P | P | P |
| 53 | Prabhat Priyadarshi | P | P | P | P | P | P |




Director
Netaji Subhas Institute of Technology
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PIN-801106

WORKSHOP ON EMBEDDED SYSTEM ORGANIZED BY POWER INTEGRATED SOLUTIONS, TRICHY

DATE- 9/3/19

| SL. NO. | NAME | SEM | ROLL NO. | SIGNATURE |
|---------|------------------|-----|----------|-----------------|
| 1 | Amit Roy | 6th | 164003 | Amit Roy |
| 2 | Rajveer Ranjan | 8th | 161099 | Rajveer Ranjan |
| 3 | Poonamata kumari | 6th | 164035 | Poonamata |
| 4 | Ajanta kumari | 6th | 164045 | Ajanta kumari |
| 5 | Sanjana Kumari | 6th | 164048 | Sanjana Kumari |
| 6 | Supriya Kumari | 6th | 164022 | Supriya Kumari |
| 7 | Shreya | 6th | 162032 | Shreya |
| 8 | Susheeli kumari | 6th | 164033 | Susheeli kumari |
| 9 | Chandrakanta | 6th | 1641044 | Chandrakanta |
| 10 | Vijaya Lakshmi | 6th | 164091 | Vijaya Lakshmi |
| 11 | Nikita Kumari | 6th | 164028 | Nikita Kumari |
| 12 | Amrita Chandra | 4th | 174017 | Amrita Chandra |
| 13 | Ankur Kr. Singh | 4th | 174006 | Ankur Kr. Singh |
| 14 | Mohit Kumar | 4th | 174033 | Mohit Kumar |
| 15 | Abhishek Kr. | 4th | 174027 | Abhishek Kr. |
| 16 | Mukesh Kr. | 6th | 164070 | Mukesh Kr. |
| 17 | Pranav Raj | 6th | 164066 | Pranav Raj |
| 18 | Pranav Raj | 6th | 164101 | Pranav Raj |
| 19 | Rajiv Kumar | 6th | 164047 | Rajiv Kumar |
| 20 | Jeevandeep | 6th | 164090 | Jeevandeep |
| 21 | | | | |



Director

Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106

ATTENDANCE SHEET

WORKSHOP ON EMBEDDED SYSTEM ORGANIZED BY POWER INTEGRATED SOLUTIONS, TRICHY

DATE- 2/3/19

| SL. NO. | NAME | SEM | ROLL NO. | SIGNATURE |
|---------|--------------------|-----|----------|----------------|
| 1 | AMRIT RAJ | 6th | 164003 | Amrit Raj |
| 2 | Poovalakata Kumari | 6th | 164035 | Poovalakata |
| 3 | Ajinas kumari | 6th | 164045 | Ajinas kumari |
| 4 | Shreya | 6th | 162032 | Shreya |
| 5 | Supriya Kumari | 6th | 164022 | Supriya |
| 6 | Sangana Kumari | 6th | 164048 | Sangana Kumari |
| 7 | Sweethi Kumari | 6th | 164033 | Sweethi Kumari |
| 8 | Vijaya Lakshmi | 6th | 164091 | Vijaya Lakshmi |
| 9 | Chandrakanta | 6th | 164044 | Chandrakanta |
| 10 | Nikita Kumari | 6th | 164027 | Nikita |
| 11 | Amrita chandea | 4th | 174017 | Amrita chandea |
| 12 | Anus kr. Singh | 4th | 174006 | Anus kr. Singh |
| 13 | Abhishek kr. | 4th | 174007 | Abhishek kr. |
| 14 | Mohit kumar | 4th | 174033 | Mohit kumar |
| 15 | Mukesh kr | 6th | 164070 | Mukesh kr |
| 16 | Pohmat Pabel | 6th | 164066 | Pohmat Pabel |
| 17 | Pranav Raj | 6th | 164101 | Pranav Raj |
| 18 | Rajiv kumar | 6th | 164047 | Rajiv kr |
| 19 | Jeevan Deep | 6th | 164090 | Jeevan deep |
| 20 | Rajeev Ranjan | 6th | 164099 | Rajeev Ranjan |
| 21 | | | | |

Director

Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106

2/3/19
T/19



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Director

Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-301106

Work-shop Evaluation Form
(EMBEDDED SYSTEM)

1) What is your overall assessment of the event? (1 = insufficient - 5 = excellent)

1 2 3 4 5

2) Which topics or aspects of the workshop did you find most interesting or useful?

- LCD Programming
- Temp. sensor
- LED Blink
- _____
- _____

3) Did the workshop achieve the programme objectives?

Yes No

If no, why?

4) Knowledge and information gained from participation at this event?

Met your expectations Yes No Somehow

Will be useful/applicable in my work Definitely Mostly Somehow Not at all

5) How do you think the workshop could have been made more effective?

If they provided input and output both result at a
simult same time


Director
Nataji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106



Name

Work-shop Evaluation Form (EMBEDDED SYSTEM)

1) What is your overall assessment of the event? (1 = insufficient - 5 = excellent)

1 2 3 4 5

2) Which topics or aspects of the workshop did you find most interesting or useful?

- LED
- LED
- MOTOR ROBO
- Buzzer

3) Did the workshop achieve the programme objectives?

Yes No

If no, why?

4) Knowledge and information gained from participation at this event?

Met your expectations


Yes No Somehow

Will be useful/applicable in my work

Definitely Mostly Somehow Not at all

5) How do you think the workshop could have been made more effective?

FOR THE UPCOMING PROJECT IN COLLEGE AND
SOME OTHER FIELD.


Director
M. S. Subhas Institute of Technology
Amnara, Bihta, Patna, Bihar
PIN-801106

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY (NSIT)

Approved By All India Council for Technical Education (AICTE), New Delhi

(Affiliated to Aryabhata Knowledge University, Patna)

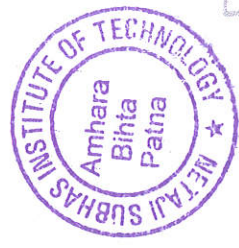
Amhara, Bihta, Patna - 801118 (Bihar)

Certificate of Participation

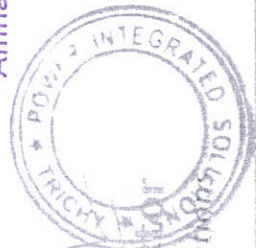
This is to certify that Mr. /Ms. Jeevan Deep has successfully completed the one day workshop/Seminar in "Real Time Embedded Systems and Its Application" conducted by the Department of Electrical & Electronics Engineering at Netaji Subhas Institute of Technology, Bihta Patna in association with **Power Integrated Solutions, Trichy** held from

Reg. No. 164090

March to 6th March 2019
Director
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106



Date: 6/3/19



J. D. Deep

HOD
EEE, NSIT

J. D. Deep
Director

Netaji Subhas Institute of Technology
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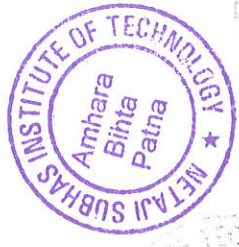
Amhara, Bihta, Patna - 801118 (Bihar)

Certificate of Participation

It is to certify that Mr. /Ms. Anil Kr. Singh has successfully completed the one week workshop/Seminar in "Real Time Embedded Systems and its Application" conducted by the Department of Electrical & Electronics Engineering at Netaji Subhas Institute of Technology, Bihta Patna in association with **Power Integrated Solutions, Trichy** held from 5 March to 6 March 2019.

174006

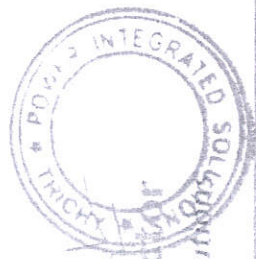
6/3/19



Director
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106

[Signature]
Director

Director
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106



Managing Director
Power Integrated Solutions

HOD
EEE, NSIT