

A ONE WEEK WORKSHOP
On
MATLAB Based Power Electronics and its Drive

Organized by
Department of Electrical and Electronics Engg
Netaji Subhas Institute of Technology
Approved by AICTE and Affiliated to AKU, Patna



1st Oct to 8th Oct, 2018

Chief Patron

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

Patron

Mr. Krishna Murari, Registrar, NSIT

Convenor

Dr. J. Dalei, HOD,EEE,NSIT

Mr. Rajani Ranjan, HOD,ECE, NSIT

Coordinators

Mr. Ashish Kumar, NSIT Patna

Mr. Amarjeet Kumar, NSIT Patna

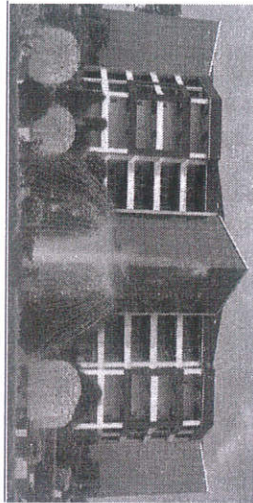
Mr. P. D. Nayak, NSIT Patna

Resource Person

Mathan Kumar M, Director

Power Integrated Solutions, Tamilnadu

ABOUT NSIT BIHITA, PATNA



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. SIT, 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 lushre land at Amhara, Bihta, Patna, Ambience at the campus serene 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 upliftment of rural society.

OBJECTIVE

The course will focus on introduction to various power electronic systems, software tools for the design & implementation of various control methods. The program will also include case studies and will discuss practical aspects needed for the implementation of control of power electronic systems.

WORKSHOP CONTENTS

- ❖ Power Electronic Systems
- ❖ Control of Power Electronic Converter(PEC)
- ❖ Design of Power Electronic Systems
- ❖ Application of Power Electronics in Solar Panel and Wind Power System by Using MATLAB
- ❖ Wireless Power Transfer for Electrical Speed for Vehicle application

Registration Fee

The participation fees Rs 300/- only

Mode of registration :- Spot

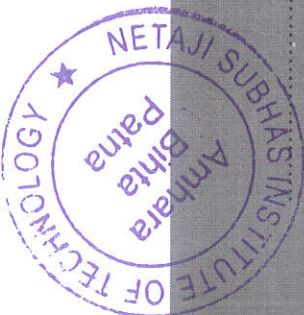
For More Information Contact us on :-

7781020359, 9102403261, 9102403272

Registration Form

Name:.....
Designation:.....
Organization:.....
Gender:.....
Edu. Qualification:.....
Address:.....
Mobile Number:.....
E-Mail:.....

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



2018-19



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: 21-Sep-2018

Notice

It is hereby informed to all students of 3rd, 5th and 7th Semester of Electrical and Electronics Engineering department that a certificate course on “**MATLAB-Based Power Electronics and Drives**” is going to be held in the Department with Power Integrated Solution, Trichy from 01st Oct 2018 to 08th Oct 2018. The registration fee is Rs.300/-.The interested Student should register their name on or before 25th Sep, 2018

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



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

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

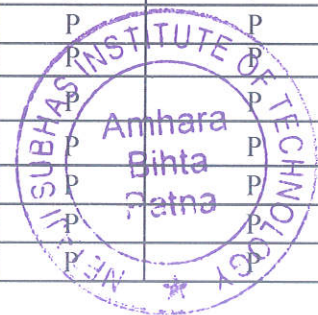
Session 2018-2019

MATLAB-Based Power Electronics and Drives

Workshop Attendance Sheet

Sr.No	Name Of Students	01-Oct	03-Oct	04-Oct	05-Oct	08-Oct
1	MD NAJISH MERAJ	P	P	P	P	P
2	ANKU KUMAR SINGH	P	P	P	P	P
3	KUMAR RISHABH	P	P	P	P	P
4	Saurav Shubham	P	P	P	P	P
5	Manish Kumar Singh	P	P	P	P	P
6	Madhu Kumari	P	P	P	P	P
7	Amrita Chandra	P	P	P	P	P
8	SHUBHAM KUMAR MISHRA	P	P	P	P	P
9	PRATYUSH PARAG	P	P	P	P	P
10	Utsav Bhardwaj	P	P	P	P	P
11	Anish Kumar	P	P	P	P	P
12	Abhishek Kumar	P	P	P	P	P
13	SONAM PRIYA	P	P	P	P	P
14	Mohit Kumar	P	P	P	P	P
15	Sonu Kumar	P	P	P	P	P
16	Pawan Kumar	P	P	P	P	P
17	RAHUL RAJ	P	P	P	P	P
18	RAJEEV RANJAN	P	P	P	P	P
19	ANKIT KUMAR	P	P	P	P	P
20	ADITYA KUMAR	P	P	P	P	P
21	ISHA KUMARI	P	P	P	P	P
22	AMRIT RAJ	P	P	P	P	P
23	RAJIV KUMAR SINGH	P	P	P	P	P
24	ASHISH KUMAR	P	P	P	P	P
25	GOPAL JEE	P	P	P	P	P
26	PRINCE RAJ	P	P	P	P	P
27	RITESH KUMAR SINGH	P	P	P	P	P
28	ALOK KUMAR	P	P	P	P	P
29	ABHISHEK KUMAR	P	P	P	P	P
30	SANDEEP KUMAR SUMAN	P	P	P	P	P
31	SUPRIYA KUMARI	P	P	P	P	P
32	PARABHAT RANJAN	P	P	P	P	P
33	NIKITA KUMARI	P	P	P	P	P
34	SWEETI KUMARI	P	P	P	P	P
35	SHRUTI RAJ	P	P	P	P	P
36	PREMLATA KUMARI	P	P	P	P	P
37	CHANDRAKANTA	P	P	P	P	P
38	AJANAS KUMARI	P	P	P	P	P
39	RAJIV KUMAR	P	P	P	P	P
40	KAUSHAL KUMAR	P	P	P	P	P
41	Gulsan	P	P	P	P	P
42	PUTUL RANI	P	P	P	P	P
43	JEEVAN DEEP	P	P	P	P	P
44	VIJAYA LAKSHMI	P	P	P	P	P
45	OMSHRESTH	P	P	P	P	P

Director
 Netaji Subhas Institute of Technology
 Amhara, Patna, Bihar
 Pin- 801108



46	RAJEEV RANJAN	P	P	P	P	P
47	PRANAV RAJ	P	P	P	P	P
48	Akash Nigam	P	P	P	P	P
49	Prabhat Priyadarshi	P	P	P	P	P

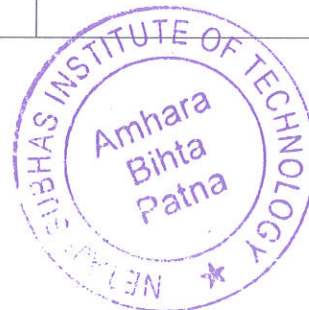



Director
Netaji Subhas Institute of Technology
Amhara, Bihta, Patna, Bihar
PIN-801106

MATLAB-BASED POWER ELECTRONICS AND DRIVES

S.NO	CONTENTS	HOURS
1	<ul style="list-style-type: none"> • Introduction to Matlab • Explaining about how to open Matlab Simulink Library. 	5Hrs
2	<ul style="list-style-type: none"> • AC and DC Functional Source Systems. • Transformer Deisgn. 	4Hrs
3	<ul style="list-style-type: none"> • Solar Panel Construction. Wind Construction. 	4Hrs
4	<ul style="list-style-type: none"> • Boost converter •• Buck converter • Buck-Boost converter • Flyback converter 	6Hrs
5	<ul style="list-style-type: none"> • Single phase Inverter • Three Phase Inverter. • Solar Coupled AC Grid System. 	7Hrs
6	<ul style="list-style-type: none"> • Wireless Power transfer for Electrical speed vehicle application. • Comparison of 5 and 7 level Inverters. • Battery Charging Converter. 	7Hrs
TOTAL HOURS		33Hrs


Director
 Netaji Subhas Institute of Technology
 Amhara, 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.

Isha Kumari

Reg. No. **16110103012**

has successfully completed the one

week workshop/Seminar in "MATLAB Based Power electronics & drive" 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 1st October to 3rd October 2018.

Date: **08-Oct-2018**

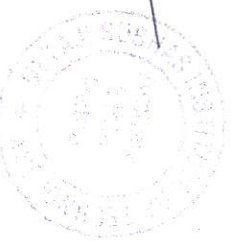
Managing Director
Power Integrated Solutions



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

HOD
EEE, NSIT

J. D. S. K.



Director

J. D. S. K.



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

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

(Affiliated to Aryabhata Knowledge University, Patna)

Amhara, Bihara, Patna - 801118 (Bihar)

Certificate of Participation

I hereby certify that Mr./Ms. **Rajeev Ranjan**

Roll No. **18110103903** has successfully completed the

workshop/Seminar in "MATLAB Based Power electronics & their applications" included by the Department of Electrical & Electronics Engineering.

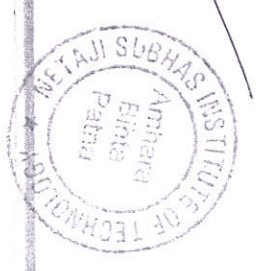
Netaji Subhas Institute of Technology, Bihara Patna in association with **Power Integrated Solutions, Trichy** held from 1st October 2018 to 02nd October 2018.

08-Oct-2018

Managing Director
Power Integrated Solutions
Netaji Subhas Institute of Technology
Amhara, Bihar, Patna, Bihar
PIN-801106

J. Debi

HOD
EEE, NSIT



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