

# A ONE WEEK WORKSHOP

On

## Mechatronics and Industrial Drive Automation

Organized by

Department of Mechanical Engg.

### Netaji Subhas Institute of Technology

Approved by AICTE and Affiliated to AKU, Patna



24<sup>th</sup> Oct to 31<sup>st</sup> Oct, 2018

Cheif Patron

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

Patron

Mr. Krishna Murari, Registrar, NSIT

Convener

Mr. P. K. Sinha, HOD, ME, NSIT

Coordinators

Mr. H. N. Sharma, NSIT Patna

Mr. M. K. Patel, NSIT Patna

Resource Person

Mathan Kumar M, Director

Power Integrated Solutions, Trichy

#### ABOUT NSIT BIHTA, 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 lustral land at Amhara, Bihta, 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 ME

Mechanical engineering department is one of the oldest and leading departments of NSIT Patna. Having well-equipped laboratories and highly qualified faculties indeed contributes significantly to the overall learning experience of students. The exposure to well-equipped laboratories provides students with the opportunity to understand the practical aspects of mechanical engineering; helping them bridges the gap between theoretical knowledge and its practical applications. The ME has the intake of 180 students and approved by AICTE and affiliated to AKU, Patna

#### DEPARTMENT VISION

To bring forth quality engineering embodying societal ethical to serve and multinational organization as well as harping on higher studies.

#### DEPARTMENT MISSION

- To create a modern atmosphere focusing on advanced pedagogy and tools for mechanical engineers.

- To collaborate with domain industry and research the skills and knowledge of the graduates.
- To implant necessary professional skills to se nation.
- To inculcate humanitarian ethical values in g social-cultural activities.

#### OBJECTIVE

The recent changes in the industrial scenaric automation an emerging field for students, teachers mechatronics is becoming prominent in industrial control application. The Proposed workshop aims to industry person and students. The program also all technologies and software such as AI, IOT, and Auto

#### WORKSHOP CONTENT

- ❖ INTRODUCTION TO MECHATRONICS
- ❖ SENSORS HANDLING IN MECHATRONICS
- ❖ STUDY OF MOTOR CONTROLLER
- ❖ STUDY OF VARIOUS LEVELS AND TYPES OF AUT
- ❖ STUDY OF SPEED INDICATOR WITH MICROCONT
- ❖ IOT WITH MOTOR CONTROL
- ❖ CONTROL. IOT-BASED HOME AUTOMATION
- ❖ HARDWARE MODELLING

#### Registration Fee

The participation fees Rs 500/- only

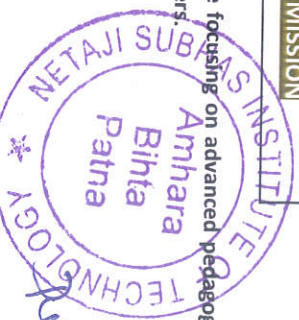
Mode of registration :- Spot

For More Information Contact us on :-

7781020349, 7781020361, 9102403261

#### Registration Form

Name: .....  
Designation: .....  
Organization: .....  
Gender: .....  
Edu. Qualification: .....  
Address: .....  
Mobile Number: .....  
E-Mail: .....  
Director  
Netaji Subhas Institute of Technology  
Bihta, Patna B.  
P.N-801106



*Mathan*



# 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 : 15-10-2018

## Notice

It is hereby informed to all students of 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> Semester of Mechanical Engineering department that a certificate course on “**Mechatronics and Industrial Drive Automation**” is going to be held in the Department with Power Integrated Solution, Trichy from 24<sup>th</sup> Oct 2018 to 31<sup>st</sup> Oct 2018. The registration fee is Rs.500/-.The interested Student should register their name on or before 20<sup>th</sup> Oct, 2018

*Pushpan*

Mr. P. K. Sinha

(HOD, ME Department)

Head of Department

Department of Mechanical Engineering  
Netaji Subhas Institute of Technology

Copy to:

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



*P. K. Sinha*  
Director  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801106

## MECHATRONICS AND AUTOMATION

S.NO	CONTENTS	HOURS
1	<ul style="list-style-type: none"> <li>• INTRODUCTION TO MECHATRONICS.</li> <li>• SENSORS HANDLING IN MECHATRONICS.</li> <li>• CONTROLLER LOOP EXECUTION.</li> </ul>	5Hrs
2	<ul style="list-style-type: none"> <li>• STUDY OF MOTOR CONTROLLER.</li> <li>• CONTROL &amp; CONTROL SYSTEM</li> <li>• AUTOMATION &amp; ITS TYPE</li> <li>• VARIOUS LEVELS OF AUTOMATION</li> </ul>	5Hrs
3	<ul style="list-style-type: none"> <li>• SUBROUTINE ETC. &amp; SENSOR &amp; ACTUATOR</li> <li>• STUDY OF BATTERY MANAGEMENT SYSTEMS.</li> <li>• STUDY OF SPEED INDICATOR WITH MICROCONTROLLERS.</li> </ul>	6Hrs
4	<ul style="list-style-type: none"> <li>• BLUETOOTH-BASED ROBO CONTROL.</li> <li>• IOT WITH MOTOR CONTROL</li> </ul>	5Hrs
5	<ul style="list-style-type: none"> <li>• MOTOR WITH FAULT PROTECTION</li> <li>• CONTROL. IOT-BASED HOME AUTOMATION.</li> </ul>	5Hrs
6	<ul style="list-style-type: none"> <li>• HARDWARE MODELLING.</li> <li>• PROJECTS</li> </ul>	5Hrs
<b>TOTAL HOURS</b>		<b>31Hrs</b>

*J. Singh*

**Director**  
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*Pushpan*

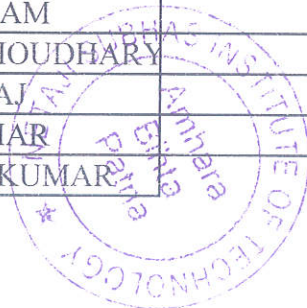
**NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA**


Session 2018-2019

Add on Course on "Mechatronics and Industrial Drive Automation"

**Attendance Sheet**

Sr.No	Name of Student	Sign.
1	Prince Kumar Sinha	Prince Kumar Sinha
2	Md. Irfan ahmad	Md. Irfan Ahmad
3	MD. Seraj Alam	Md. seraj alam
4	Swapnil Kumar	Swapnil Kumar
5	Shahbaz Alam	Shahbaz Alam
6	Niraj Kumar	Niraj Kumar
7	Piyush Kumar	Piyush Kumar
8	Arjun Kumar	Arjun Kumar
9	Amresh Kumar	Amresh Kumar
10	Md. Saqlain Javed	Md. Saqlain Javed
11	Shubham kumar	Shubham Kumar
12	Rahul Kumar	Rahul Kumar
13	Himanshu Bhardwaj	Himanshu
14	Saif Mohammad	Saif Moham
15	Arbind Kumar Mishra	Arbind Kumar Mishra
16	Zaseem Noman	Zaseem Noman
17	Vikash Kumar	Vikash
18	Rahul Kumar Ranjan	Rahul Kumar Ranjan
19	Dhiraj Kumar	Dhiraj Kumar
20	Md Arif	Md Arif
21	DEEPAK KUMAR	Deepak Kumar
22	MD AZMAT ALAM	MD Azmat
23	DILEEP KUMAR SHARMA	Dileep Kumar Sharma
24	MD SHAHBAZ	MD SHAHBAZ
25	MD ABID HUSSAIN	Md. Abid Hussain
26	ABHISHEK ROY	ABHISHEK ROY
27	MD IRFAN	Md Irfan
28	BHAVANI PRATAP SINGH	Bhavani
29	RAJ KUMAR	Raj Kumar
30	AASHISH ANAND	Aashish Anand
31	MD ASHIQUE MALLICK	Md Ashique mallick
32	MD KHALILUR RAHMAN	Mahwish Fatima
33	MAHWISH FATIMA	Mahwish Fatima
34	BHARAT BHUSHAN	Bharat bhushan
35	MD ARIF ALAM	Md. Arif Alam
36	MANISH KUMAR CHOUDHARY	Manish Kumar
37	ABHAY RAJ	Abhay Raj
38	SUNIL KUMAR	Sunil Kumar
39	DHARMENDRA KUMAR	Dharmendra Kumar



  
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Rushpa

40	ANKIT PRAKASH	Ankit Prakash
41	SHUBHAM KUMAR PANDIT	<del>Shubham Kumar Pandit</del>
42	SANDEEP SINHA	Sandeep Sinha
43	RADHE KRISHNA	Radhe Krishna
44	SAURABH KUMAR	Saurabh Kumar
45	HIMALAYA RAJ	Himalaya Raj
46	Md Saif Ali	Saif Ali
47	KUMAR RATNESH BHARTI	Kumar Ratnesh Bharti
48	GAURAV YUVRAJ	Gaurav Yuvraj
49	KUMAR RAHUL	Kumar Rahul
50	RAHUL KUMAR YADAV	Rahul Kumar Yadav
51	AVINAV ANKKU	Avinav Ankku
52	Rajesh Kumar	Rajesh Kumar
53	RAHUL KUMAR RAY	Rahul Kumar Ray
54	ABHISHEK RAJ	Abhishek Raj
55	SHIVAM KUMAR	Shivam
56	RAKESH KUMAR CHAUBEY	Rakesh Kumar Chaubey
57	AYUSH KUMAR	Ayush Kumar
58	RAMANJIT KUMAR	Ranjit Kumar
59	HIMANSHU KUMAR	Himanshu Kumar
60	HARSH KAUSHAL	Harsh Kaushal
61	ANAND KUMAR	Anand Kumar
62	DIVY MANI	Divy Mani
63	RAKESH KUMAR	Rakesh Kumar
64	NILESH KUMAR	Nilesh Kumar
65	MD FIDA HUSSAIN	MD Fida Hussain
66	ASHISH SINHA	Ashish Sinha
67	Aditya Aryan	Aditya
68	SHAHNSHAH KUMAR	Shahnsah Kumar
69	MD ABU TALHA	MD Abu Talha
70	MOHD SHADAB SALIM	Mohd Shadab Salim
71	PRINCE KUMAR	Prince Kumar
72	MD ASIF	MD Asif
73	KUMAR GAURAV	Kumar Gaurav
74	SHAHBAAZ ALI KHAN	Shahbaz Ali Khan
75	VIPIN KUMAR	VIPIN
76	VISHAL MEHRA	Vishal
77	NEYAZ AKHTAR	Neyaz Akhtar
78	KARNESH KUMAR PUJENDU	Karnesh Kumar Pujendu
79	SHUBHENDU KUMAR	Shubham Kumar
80	ABHISHEK KUMAR	Abhishek Kumar
81	ASHWANI KUMAR	Ashwani Kumar
82	DIVAKAR KUMAR	Divakar Kumar
83	ROHIT KUMAR SRIVASHTVA	Rohit Kumar
84	NAND KISHOR KUMAR	Nand Kishor Kumar
85	DEEPAK SOLANKI	Deepak Solanki
86	GAUHAR ALI SARWAR	Gauhar Ali Sarwar
87	HARINARAYAN CHAUDHARY	Harinarayan Chaudhary

Parkaps

Director  
Netaji Subhas Institute of Technology  
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88	RAJEEV RANJAN KUMAR	Rajeev Ranjan Kumar
89	PRASHANT KUMAR	<del>Prashant</del>
90	Rahul Tiwari	Rahul Tiwari
91	Keshav Kumar Karn	Keshav Kumar Karn
92	Md Ezaj Alam	md eazaj alam
93	Gaurav Kumar	Gaurav Kumar
94	Bipeen Kumar	Bipeen Kumar
95	ANIL PATHAK	ANIL PATHAK
96	Sanjay Kumar	Sanjay Kumar
97	ANSHU KUMAR	anshu
98	MD SHOHRAB ALAM	md shohrab Alam
99	Saif Siddiki	Saif Siddiki
100	Mukesh Kumar Pal	muk Pal
101	KUNDAN SINGH	Kundan Singh
102	Vicky Kumar Soni	Vicky Kumar Soni
103	Bachendra Kumar Yadav	
104	Abhijeet Kumar	Abhijeet Kumar
105	MD ARMAAN	MD Armaan
106	Md Saquib Jawed	Md saquib Jawed
107	Keshav Raj	keshav raj
108	Md Shahnawaz Khan	Shahnawaz Khan
109	Abhishek Deshmukh	Abhishek
110	Md Wasif Hussain	md Wasif Hussain
111	Md Darwesh Rashid	md Darwesh Rashid
112	Niraj Kumar	Niraj Kumar
113	Abhisek Kumar	Abhisek Kumar
114	Vikash Kumar	<del>Vikash</del>
115	Sonu Raj	Sonu Raj
116	Akash Kumar	Akash Kumar
117	Tirupati Nand Jee	tirupati nand jee
118	Abhishek Saksena	abhishek Saksena
119	Sumit Kumar	Sumit Kumar
120	Ankit Shahi	Ankit Shahi
121	Nivesh Kumar	Nivesh Kumar
122	Vikas Kumar	Vikas Kumar
123	Md Danish Alam	Danish.
124	Piyush Kumar	Piyush Kumar
125	Jazbi Taufique	Jazbi Taufique
126	Uttam Kumar	Uttam Kumar
127	Kishan Kumar	Kishan Kumar
128	Md Abid	Md Abid
129	Ravi Ranjan Kumar	Ravi Ranjan Kumar
130	Ramadhar	Ramadhar
131	ANJANI KUMAR	Anjani Kumar
132	Md Amirkhsroo Baig	Md Amirkhsroo Baig
133	Md Faizullah	Md Faizullah
134	Dilip Kumar	Dilip Kumar
135	Arun Kumar	Arun Kumar

Director  
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Ranjan

136	Sudarshan Kumar	Sudarshan Kumar
137	Rajeey Ranjan Kumar	Rajeey Ranjan
138	MAHANK SINGH	Mayank Singh
139	Ravi Kumar	Ravi ko.
140	Pawan Kumar	Pawan Kumar
141	Osaid Usmani	Osaid
142	SATISH KUMAR	Satish Kumar
143	Chandra Vibhanshu	chandra vibhanshu
144	Rabbu Kumar	Rabbu Kumar
145	Rumana Appi	Rumana APPI
146	Mohit Kumar	mohit
147	Anand Raj	Anand Raj
148	Rahul Kumar	Rahul Kumar
149	Rohan Raj	Rohan raj
150	Pratik Kumar	Pratik Kumar
151	Ravi Kumar Ranjan	Ravi Kumar Ranjan
152	Kumar Abhijeet	Abhijeet
153	Aditya Kumar	Aditya Kumar
154	Md Waliullah	Md. waliullah
155	Chandramani Kumar Singh	Chandramani Kumar Singh
156	Raushan Kumar	Raushan Kumar
157	Gaurav Kumar Singh	Gaurav Kumar Singh
158	Rohit Kumar	Rohit Kumar
159	Premjeet Kumar	Premjeet Kumar
160	Shubham Kumar Vats	Shubham
161	SHIV KUMAR	Shiv Kumar
162	NISHANT	Nishant
163	NITISH KUMAR	Mitesh Kumar

Pushpan



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

RAJ KUMAR

16102103148

has successfully completed the workshop/seminar in "Mechatronics & Industrial drive Automation" organized by the Department of Mechanical Engineering at Netaji Subhas Institute of Technology, Bihta Patna in association with Power Integrated Solutions, Trichy held from 24<sup>th</sup> October to 31<sup>st</sup> October 2018.

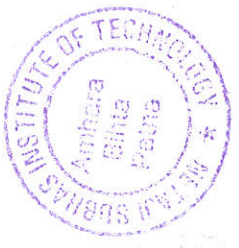
19/11/2018



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

1/03

ME, NSIT



Director

NSIT  
Director



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY (NSIT)

Approved By All India Council for Technical Education (AICTE), New Delhi  
(Affiliated to Aryabhatta Knowledge University, Patna)

Amhara, Bihta, Patna - 801118 (Bihar)

Certificate of Participation

This is to certify that Mr./Ms. **RAHUL TIWARI**

Reg.No. **17102103021**

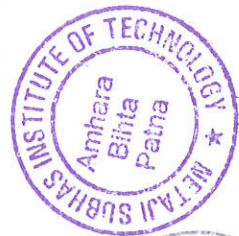
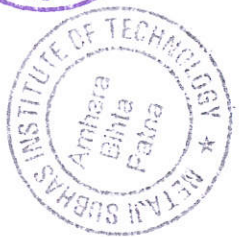
has successfully completed the one week workshop/Seminar in "Mechatronics & Industrial drive Automation" conducted by the Department of Mechanical Engineering at Netaji Subhas Institute of Technology, Bihta Patna in association with Power Integrated Solutions, Trichy held from 24<sup>th</sup> October to 31<sup>st</sup> October 2018.

19/11/2018



Managing Director  
Power Integrated Solutions

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



Director  
NSIT  
Netaji Subhas Institute of Technology  
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