

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

(A Unit of Sitwanto Devi Mahila Kalyan Sansthan, Jamshedpur)

AMHARA, BIHTA, PATNA - 801106 (BIHAR)

(Approved by AICTE, New Delhi And Dept. of Science & Technology, Govt. of Bihar)

Affiliated to : Bihar Engineering University

Mobile No.: 7781020364, 7781020346, 9102403265

Email: info@nsit.in | www.nsit.in

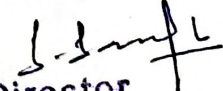


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Date 06-01-2024

Number of ADD ON/Certificate Programs offered During the Session 2021-22

Year	Name of the workshop/ seminar/ conference	Year of Offering	Number of Students enrolled in the year	Number of Students Completing the course in the year	Date From – To	Page No
2021-22	Workshop on AutoCAD	3rd & 4th Year	38	38	23/08/2021 to 28/08/2021	3-8
2021-22	Workshop on Cloud Computing with AWS	3rd & 4th Year	29	29	02/06/2022 to 04/06/2022	9-15
2021-22	Workshop on STAAD-PRO	3rd & 4th Year	42	42	20/06/2022 to 25/06/2022	16-22
2021-22	Workshop Building Information Modeling	4th Year	41	41	1/08/2022 to 6/08/2022	23-28
2021-22	Workshop on PLC & SCADA	2nd & 3rd Year	15	15	22/08/2022 to 25/08/2022	29-39


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

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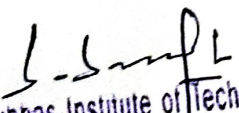


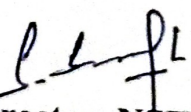
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Date ..06-01-2024

TO WHOM IT MAY CONCERN

It is certifying that the page No....03..... to....39..... in my Concern.


Netaji Subhas Institute of Technology
Amhara Bihta, Patna, Bihar
CERTIFIED DOCUMENT
Page....03.....to....39.....
Director


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



Netaji Subhas Institute of Technology

Approved by AICTE and Affiliated to AKU, Patna



Workshop

ON

"AUTOCAD"

23rd Aug to 28th Aug, 2021

Organized by

Department of Mechanical Engg.

Coordinators

Mr. Ashwini, NSIT Patna

Mr. R.K. Mandal, NSIT Patna

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 lush 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 institutes to enhance the skills and knowledge of the graduates.
- To implant necessary professional skills to serve the industry and the nation.
- To inculcate humanitarian ethical values in graduates through various social-cultural activities.

OBJECTIVE

The primary objective of this workshop is to teach the necessary for professional 2D drawing, design, and completion of this course, the student will:

- Become familiar with the AutoCAD user interface.
- Understand the fundamental concepts and features of AutoCAD.
- Use the precision drafting tools in AutoCAD to create drawings.
- Present drawings in a detailed and visually appealing manner.
- Develop a level of comfort and confidence with AutoCAD on experience.

WORKSHOP CONTENT

- ❖ Introduction to AutoCAD
- ❖ Drawing and Creating Complex Object
- ❖ Preparing to print and Annotation drawing
- ❖ AutoCAD Beyond Basic and Creating Block
- ❖ Advanced Layout and Printing

Registration Fee

The participation fees Rs 500/- only

Mode of registration :- Spot

For More Information Contact us on :-

7781020359, 7781020361, 9102403270

RESOURCE PERSON

Ujjawal Kumar, Centre Head
National Design School, Patna

PATRONS

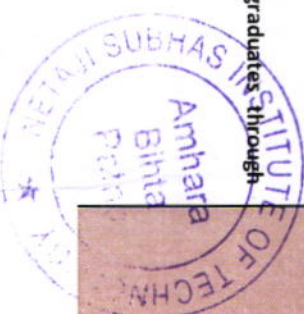
Mr. M. M. Singh, Founder Secretary, NSIT
Mr. Krishna Murari, Registrar, NSIT

EVENT CHAIR

Mr. R. K. Singh, Dean, NSIT

CONVENOR

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





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 2021-2022

Date: 16-08-2021

Notice

This is to inform all 6th & 8th Semester Mechanical and Civil Engineering students that Mechanical Engineering department is organizing a Workshop on "AUTOCAD" from 23rd Aug 2021 to 28th Aug 2021. The details of registration are available on notice board and college website. Therefore interested students should register their name to the coordinator.

HOD, ME, NSIT

Head of Department

Department of Mechanical Engineering
Netaji Subhas Institute of Technology

Copy to:

1. Director, NSIT
2. Dean, NSIT
3. Notice Board
4. College website



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

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AMHARA, BIHTA, PATNA-801118, BIHAR

CONTENT

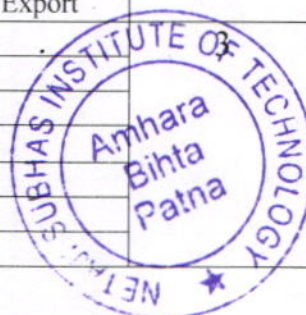
Name of the Workshop: *AutoCAD*

Duration (in Hrs.): 30 Hours

Course Content:

UNIT I :Introduction to AutoCAD			
Day	Topic	Sub Topic	Duration (in Hours)
1	Getting started with AutoCAD	Starting AutoCAD	3
		AutoCAD's screen layout	
		Working with commands	
		Opening an Existing drawing file	
		Saving your work	
		AutoCAD's Toolbars	
1&2	Basic Drawing & Editing Command	Drawing lines	3
		Erasing Objects	
		Drawing lines with Polar tracking	
		Drawing Rectangle , Circle	
		Drawing with SNAP & GRID	
		Polar Tracking setting	
		Move , Copy, Rotate Scale command	
		Mirroring object & Editing object	
		Undoing & redoing actions	
		Object snap Tracking	
		Function key F1 & F12	

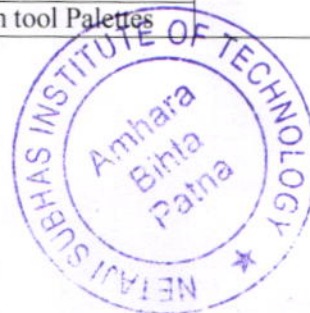
UNIT 2 : Drawing & Creating Complex Object			
Day	Topic	Sub Topic	Duration (in Hours)
2	Organising your Drawing with layer	Creating new drawings with Templates	2
		Layer & Layer state	
		Changing an object layer	
		Creating LAS file with Import & Export	
3	Advance object type , Getting information & Editing commands	Drawing Arcs , Polylines	
		Editing Polyline ,	
		Drawing Polygon & Ellipses	
		Measure Object & Properties	
		Create fillets & Chamfers	
		Offsetting object	
		Creating Array of object	



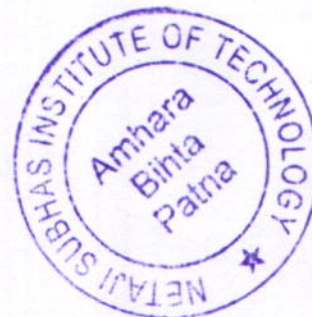
		Inserting Block & Tool Palettes	
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UNIT 3 : AutoCAD - Preparing to Print & Annotation Drawing			
Day	Topic	Sub Topic	Duration (in Hours)
3&4	Setting up Layout & Print	Print Concept	3
		Creating View Ports	
		Setting up Layouts	
		Guide line for Layouts	
		Print Layouts	
		Printing a check Plots	
4	Annotating your Drawing	Work with Annotation	3
		Adding text in Drawing	
		Modifying & Formatting Multiline Text	
		Hatching	
		Adding Linear & Radial Dimension	
		Adding Note to your Drawing	

UNIT 4 : AutoCAD- Beyond Basic & Creating Block			
Day	Topic	Sub Topic	Duration (in Hours)
4	Working Effectively & Accurate Positioning	Setting up the interface	3
		Using keyboard effectively	
		Working in the multiple Drawing	
		Using Grip effectively	
		Additional Layer tool	
		Locating Point & Tracking	
		Constructing Lines & Placing Reference	
5	Creating & organizing Block	Creating Block	3
		Editing Block & removing unwanted thing	
		Adding Block to Tool Palettes	
		Modifying tool properties in tool Palettes	



UNIT 5 : AutoCAD Advanced Layout & Printing & Extra topic			
Day	Topic	Sub Topic	Duration (in Hours)
5&6	Drawing Setup & Utilities	Creating Templates	3
		Controlling units Display	
		Adding standard layouts to Templates	
		Creating Annotation	
		Creating Dimension & Multilayer Style	
6	Advanced Layouts , Printing & Extra	Creating & Using Named View	4
		Creating Additional Viewports	
		Layer overrides in Viewports	
		Additional annotative Scale	
		DWF plotting & Viewing	
		Publishing Drawing set	
		Additional Zoom Command	
		Creating Model Space viewports	
		Advanced objection selection	
		Single line text & additional Dimensioning	
		Creating Boundaries	
		Working with Region	
Total			30hours



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Session 2021-22

Add on Course on "AUTOCAD"

Attendance Sheet

Sr.No	Name of Student	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug
1	KESHAV ADITYA	P	P	P	P	P	P
2	NISHANT SUMAN	P	P	P	P	P	A
3	GULSHAN KUMAR	P	P	P	P	P	P
4	ABHISHEK KUMAR	P	P	P	P	A	P
5	SHUBHAM KISHAN	P	P	P	P	P	P
6	BALMUKUND KUMAR	P	P	P	P	P	P
7	RAJ ARYAN	P	P	P	P	P	P
8	BALMUKUND KUMAR	P	P	P	P	P	P
9	RAJ ARYAN	P	P	P	P	P	P
10	AMAN KUMAR	P	P	P	P	A	P
11	AMIT PRAKASH	P	P	P	P	P	P
12	AHMED FARAZ NASIR	P	A	P	P	P	P
13	SOURAV KUMAR	P	P	P	P	P	P
14	ROSHAN RAMAN	P	P	P	P	P	P
15	MD MANAUR RAHI	A	P	P	P	P	P
16	MD HIDAYAT KARIM	P	P	P	P	P	P
17	RAVISHANKAR PODDAR	P	P	P	P	P	P
18	Monu Kumar	P	P	P	P	P	P
19	Divyam Singh	P	P	P	P	P	P
20	Kaushal Kumar	P	P	P	P	P	P
21	Mannu Kumar	P	P	P	A	P	P
22	UDIT CHANDRA	P	P	P	P	P	P
23	PRATIGYA BHARATI	P	P	P	P	P	P
24	GAVRAV KUMAR	P	P	P	P	P	P
25	NIKHIL SHIVAM	P	P	P	P	P	P
26	MD. SERAJ ALAM	P	A	P	P	P	P
27	SWAPNIL KUMAR	P	P	P	P	P	P
28	SHAHBAZ ALAM	P	P	A	P	P	P
29	NIRAJ KUMAR	P	P	P	P	A	P
30	ARJUN KUMAR	P	P	P	P	P	P
31	MD. SAIF ALAM	P	P	P	P	P	P
32	ASHIF ALAM	P	P	P	P	P	P
33	AAKASH KUMAR	P	P	P	P	P	P
34	PRINCE KUMAR	P	P	P	P	P	P
35	ARBIND KUMAR MISHRA	P	P	P	P	P	P
36	VIKASH KUMAR	P	P	P	P	P	P
37	RAHUL KUMAR RANJAN	P	P	P	P	P	P
38	DHIRAJ KUMAR	P	P	P	P	P	P





Netaji Subhas Institute of Technology

Approved by AICTE and Affiliated to AKU, Patna



Workshop

ON

Cloud Computing with AWS

June 02-04, 2022

Organized by
Department of EEE

Coordinators

Mrs. Kiran Singh, NSIT Patna
Mr. Amarjeet Kumar, NSIT Patna

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. 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 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.

OBJECTIVE

The objective of the workshop is to

- ❖ Make architectural decisions based on AWS architectural principles and best practices
- ❖ Leverage AWS services to make your infrastructure scalable, reliable, and highly available
- ❖ Leverage AWS Managed Services to enable greater flexibility and resiliency in an infrastructure
- ❖ Make an AWS-based infrastructure more efficient to increase performance and reduce costs
- ❖ Use the Well-Architected Framework to improve architectures with AWS solutions

WORKSHOP CONTENTS

Day 1:- Cloud Computing, AWS Lab

Day 2:- Networking Lab, AWS Storage Lab

Day3:- AWS High Auto-Scaling and Load Balancers

Registration Fee

The participation fees Rs 750/- only

Mode of registration :- Spot

For More Information Contact us on :-

7781020349, 7781020361, 9102403261

RESOURCE PERSON

Anand Krishna, Sr. Faculty ,
CDAC Bailey Road, Patna

PATRONS

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

Mr. Krishna Murari, Registrar, NSIT

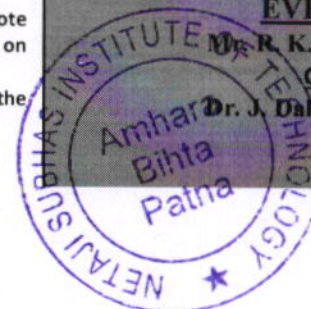
Dr. S. Singh, Director, NSIT

EVENT CHAIR

Mr. R. K. Singh, Dean, NSIT

CONVENOR

Dr. J. Dalei, HOD, EEE, NSIT



To

The HOD

EEE, Dept, NSIT, Bihta

Dear Sir,

The below topics of Cloud Computing with AWS are for your review and approval.

Topic: Cloud Computing with AWS (Amazon Web Services)

- AWS (Amazon Web Services) is a comprehensive, evolving cloud-computing platform provided by Amazon that includes a mixture of Infrastructure as a service (IaaS), platform as a service (PaaS) and software as a service (SaaS) offerings.
- Topic to be covered

Day 1

1. Cloud Computing

- What is Cloud Computing?
- Cloud Applications
- Types of Cloud
- Virtualization
- Cloud Service Providers
- AWS Amazon Web Services
- Regions/Availability Zones/Accounts

2. AWS Lab

- EC2 (Elastic Cloud Compute)
- Creating Instance (virtual machine Linux/Windows)
- Installing webserver on Linux and windows server.
- Attach EBS to Instance
- Create Snapshot of Instance
- Create Image of Instance

Day 2

3. Networking Lab

- Creating VPC
- Subnets (Private/Public)
- IGW (Internet Gateway)
- NAT (Network Address Translation)
- Route Tables



- Security Group

4. AWS Storage Lab

- Creating S3 Bucket
- Upload files and Folders
- Versioning
- Replication Rule
- Life Cycle

Day 3

AWS High Auto-Scaling and Load Balancers

- Auto Scaling Auto Scaling Groups – ASG, Launch configuration OR Launch Template
- Minimum & Maximum capacity, Desired capacity
- Metrics & Health Check
- Load Balancers and its type
- Application Load Balancers
- Network load Balancers
- IAM Identity access and Management Creating Users/Groups/MFA

*****Pre-Requisites: - Create a AWS Free Tier account for hands on lab. *****

From

Anand Krishna

Sr. Faculty, Astric Solutions, CDAC-ATC, Patna

9334903402



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Electrical & Electronics Engineering

Session 2021-22

Date:- 30-05-2022

Notice

The interested students of 6th and 8th Semester Electrical and Electronics Engineering are hereby informed that a “**Workshop Cloud Computing with AWS**” is going to be organized which is commencing from 02th June 2022. Therefore the students are instructed to attend the workshop. The details of registration are available on department notice board. The details of the Workshop are as follows:-

Name: Workshop Cloud Computing with AWS

Date: 02th June to 04 June, 2022

Venue: EEE Lab

Copy to:

1. Director, NSIT
2. Dean, NSIT
3. Notice Board
4. College website



J. Doley
(HOD, EEE) NSIT
Head of Department
Department of Electrical & Electronics Engineering
Netaji Subhas Institute of Technology

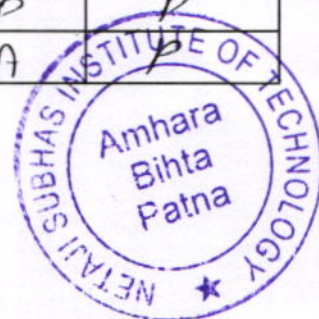
NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Session 2021-2022

Workshop on " Cloud Computing with AWS "

Attendance Sheet

Sr.No	Name of Student	02-Jun	03-Jun	04-Jun
1	ABHISHEK SINGH	P	P	P
2	SURYANSH VERMA	P	P	P
3	GAURAV KUMAR	P	P	P
4	SHIVAM KUMAR	P	P	P
5	HIMANSHU KUMAR	P	P	A
6	KUMARI AKANKSHA	P	P	P
7	MD TAUSIF MALLICK	P	P	P
8	KANIKA KUMARI	P	P	P
9	LAVANYA SINGH	P	P	P
10	ALOK KUMAR DAS	P	P	P
11	RISHI PRAKASH PANDEY	P	P	P
12	RAHUL KUMAR	P	P	P
13	LAKSHMI MINJ	P	P	P
14	NIKHIL TIWARY	P	P	P
15	AISHWARYA KUMARI	P	P	P
16	SHAGUFTA HUSSAIN	P	P	P
17	ABHISHEK RAJ	P	A	P
18	JASON PAUL	A	P	P
19	CHITRASEN PRASAD RAJ	P	P	P
20	ANKIT KUMAR JHA	P	P	P
21	SHARIYA SADAF	P	P	P
22	NIKHIL TIWARY	P	P	P
23	AISHWARYA KUMARI	P	P	P
24	SHAGUFTA HUSSAIN	P	P	P
25	ABHISHEK RAJ	P	P	P
26	JASON PAUL	P	P	P
27	CHITRASEN PRASAD RAJ	P	P	P
28	ANKIT KUMAR JHA	P	P	P
29	SHARIYA SADAF	P	A	P



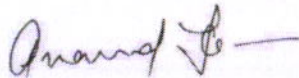
CERTIFICATE OF PARTICIPATION

Enrolment No : COE/21-22/AW39

Certificate No : AWS2022/07

*This certificate is presented to Mr. Md Tausif Mallick for successfully completing
the*

*Three Days' Workshop on **Cloud Computing with AWS** conducted from 02/06/2022 to
04/06/2022 at **NSIT**, Bihta, Bihar 801118.*



Coordinator

Date : 13/06/2022

Place : Patna



Director

Astric Center of Excellence, Khajpura, Bailey Road - Patna 800 014, www.astric.net

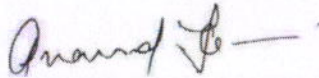
Partner Institute

CERTIFICATE OF PARTICIPATION

Enrolment No : COE/21-22/AW39

Certificate No : AWS2022/22

*This certificate is presented to Mr. Nikhil Tiwary for successfully completing the
Three Days' Workshop on **Cloud Computing with AWS** conducted from 02/06/2022 to
04/06/2022 at **NSIT**, Bihta, Bihar 801118.*



Coordinator

Date : 13/06/2022

Place : Patna



Director

Astric Center of Excellence, Khajpura, Bailey Road - Patna 800 014, www.astric.net

Partner Institute

A ONE WEEK WORKSHOP

On
STAAD-PRO

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



June 20-25, 2022

Cheif Patron

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

Patron

Mr. Krishna Murari, Registrar, NSIT

Convenor

Dr. Babul Kumar Mandal, HOD, CE, NSIT

Coordinators

Mr. Rajeev Kumar, NSIT Patna

Mr. M. K. Jha, NSIT Patna

Resource Person

**Ujjawal Kumar, Centre Head
National Design School, Patna**

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. 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 yaers B.Tech courses in CSE, ECE, EEE, ME and CE.

ABOUT DEPARTMENT OF Civil

The Department of Civil has a team of well qualified, experienced and dedicated faculty members with rich academic, industrial and research background. The department is fully equipped with excellent and advanced equipment and provide all required facilities for advanced research in specific fields of Civil Engineering, like Geotechnical Engineering, Material Testing and Evaluation , Transportation Engineering etc. The laboratories provide enriched practical understanding along with theory that gives opportunity to understand the depth of the subjects and real-time exposure. The Civil has the intake of 120 students and approved by AICTE and affiliated to AKU, Patna

DEPARTMENT VISION

To become a premier Civil Engineering Department offering excellent engineering education in design methods and advanced technologies to the students, to pursue research in thrust areas and to offer professional services to the society.

DEPARTMENT MISSION

The Department is committed to develop competent professionals by offering need based curriculum in Civil Engineering areas, promoting research and innovation to prepare the students for higher study, life-long learning and societal responsibility. The department is also committed to provide good learning environment to develop professional ethics and skills in our students and to provide engineering services to the society.

OBJECTIVE

The objective of the workshop is to increase the aw software tools available for the design and analysis of Structures. . As analysis and design is a very important p Curriculum students have learnt how to prepare a mode different types of loads, analysis and design of multi sto truss for industrial Building.

WORKSHOP CONTENT

- ❖ Introductions to STAAD-PRO layout and Toc
- ❖ Introductions to STAAD entities solving and Structure
- ❖ STAAD Coordinate system 2D and 3D Struct
- ❖ Assigning the properties , Material, Support Seismic loads
- ❖ Introduction and understanding Revit Struc

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:.....



A ONE WEEK WORKSHOP
On
STAAD-PRO

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



June 20-25, 2022

Cheif Patron

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

Patron

Mr. Krishna Murari, Registrar, NSIT

Convenor

Dr. Babul Kumar Mandal, HOD, CE, NSIT

Coordinators

Mr. Rajeev Kumar, NSIT Patna

Mr. M. K. Jha, NSIT Patna

Resource Person

Ujjawal Kumar, Centre Head
National Design School, Patna

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 lustre 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 Civil

The Department of Civil has a team of well qualified, experienced and dedicated faculty members with rich academic, industrial and research background. The department is fully equipped with excellent and advanced equipment and provide all required facilities for advanced research in specific fields of Civil Engineering, like Geotechnical Engineering, Material Testing and Evaluation, Transportation Engineering etc. The laboratories provide enriched practical understanding along with theory that gives opportunity to understand the depth of the subjects and real-time exposure. The Civil has the intake of 120 students and approved by AICTE and affiliated to AKU, Patna

DEPARTMENT VISION

To become a premier Civil Engineering Department offering excellent engineering education in design methods and advanced technologies to the students, to pursue research in thrust areas and to offer professional services to the society.

DEPARTMENT MISSION

The Department is committed to develop competent professionals by offering need based curriculum in Civil Engineering areas, promoting research and innovation to prepare the students for higher study, life-long learning and societal responsibility. The department is also committed to provide good learning environment to develop professional ethics and skills in our students and to provide engineering services to the society.

OBJECTIVE

The objective of the workshop is to increase the awareness regarding various software tools available for the design and analysis of the RCC Structures, Steel Structures. As analysis and design is a very important part of the Civil Engineering Curriculum students have learnt how to prepare a model, assign properties, assign different types of loads, analysis and design of multi storied RCC building and roof truss for Industrial Building.

WORKSHOP CONTENTS

- ❖ Introductions to STAAD-PRO layout and Tool bar
- ❖ Introductions to STAAD entities solving and understanding 2D and 3D Structure
- ❖ STAAD Coordinate system 2D and 3D Structure
- ❖ Assigning the properties, Material, Support, Moving, Wind and Seismic loads
- ❖ Introduction and understanding Revit Structure and Architecture

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:.....

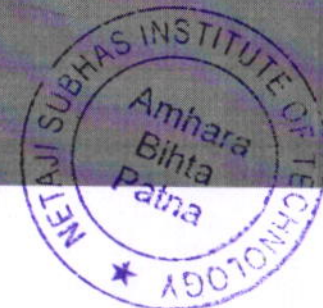
Gender:.....

Edu. Qualification:.....

Address:.....

Mobile Number:.....

E-Mail:.....



Certificate Course on STAAD-PRO

Organized By: Department of Civil Engineering

Participated by: 6th & 8th Semester Students of Civil branch.

Venue: Computer Centre

Duration: 20th June to 25th June, 2022

Event Coordinators: - Mr. Rajeev Kumar, Mr. M. K. Jha

Resource Person: Ujjawal Kumar, National Design School, Patna

Number of Students:- 42

Summary:

Netaji Subhas Institute of Technology, Patna in association with National Design School, at NSIT successfully started a workshop on "STAAD-PRO". The objective is to train students in structural modelling, designing and analysis, integrated design & finite element analysis. The workshop was attended by students from NSIT.



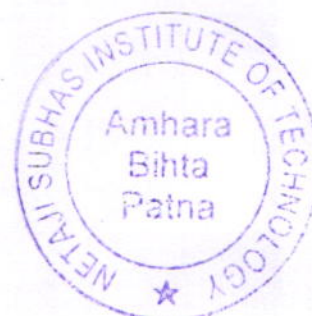
NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Civil Engineering

Session 2021-22

Course on STAAD-PRO

Sr. No	Topic	Time
1	Introduction to STAAD-PRO layout & Tool bar	2 Hours
2	Introduction of STAAD entities solving and understanding 2D Structures	2 Hours
3	Introduction of STAAD entities solving and understanding 3D Structures	2 Hours
4	STAAD Coordinate System 2D Structures	2 Hours
5	STAAD Coordinate System 2D Structures results and errors debugging	3 Hours
6	STAAD Coordinate System 3D Structures	2 Hours
7	STAAD Coordinate System 3D Structures results and errors debugging	3 Hours
8	Assigning the properties, material, support & loads to a beam.	2 Hours
9	Assigning Moving, Wind & Seismic loads.	3 Hours
10	Concrete design, Specification & concrete parameters creating geometry of plane frame using the structure About PCE, Nagpur wizard.	3 Hours
11	Introduction and understanding Revit structure	3 Hours
12	Introduction and understanding Revit Architecture	3 Hours



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Civil Engineering

Session 2021-22

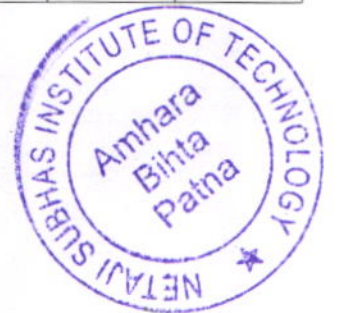
Course on STAAD-PRO

Attendance Sheet

Sr.No	Name of Student	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun
1	MOHIT KUMAR	P	P	P	P	P	P
2	CHANDAN KUMAR	P	P	P	P	P	A
3	MD ARSHAD ALAM	P	P	A	P	P	P
4	SHUBHAM KUMAR	P	P	P	P	A	P
5	PRIYARANJAN KUMAR	P	P	P	P	P	P
6	SATYAM KUMAR	P	P	P	P	P	P
7	ANKIT RAJ	P	P	P	P	P	P
8	VIKASH KUMAR	P	P	P	P	A	P
9	ABHISHEK KUMAR YADAV	P	P	P	P	P	P
10	VISHAL KUMAR	P	P	P	P	P	P
11	MAYANK KISHORE KSHITIZ	P	P	P	A	P	P
12	AMRIT KUMAR	P	P	P	P	P	P
13	UJJAWAL KUMAR	P	P	P	P	P	P
14	RAHUL KUMAR SINGH	A	P	P	P	P	P
15	AMAN KUMAR	P	P	P	P	P	P
16	MANOJ KUMAR	P	P	P	P	P	P
17	SHIVAM KUMAR	P	A	P	P	P	P
18	RAUSHAN SINGH	P	P	P	P	P	P
19	ROHIT KUMAR	P	P	P	P	P	P
20	MD WASIM ALAM	P	P	P	P	P	P
21	ANKESH KUMAR	P	P	P	P	P	P
22	SATYAM KUMAR	P	P	P	P	A	P
23	PRASHANT KUMAR	P	P	P	P	P	P
24	ABHISHEK KUMAR	P	P	A	P	P	P



25	ABHINAV KUMAR	P	P	P	P	P	A
26	LAVKUSH KUMAR	P	P	P	P	P	P
27	FARAZ KHAN	P	P	P	P	P	P
28	NITISH KUMAR	P	P	A	P	P	P
29	ANKITA KUMARI	P	P	P	P	P	P
30	AMAN KUMAR	P	P	P	A	P	P
31	VISHNU ANAND	P	P	P	P	P	P
32	AMIT PRAKASH	P	P	P	P	P	P
33	VISHAL KUMAR	P	P	P	P	A	P
34	RITESH KUMAR	P	P	P	P	P	P
35	BALMUKUND KUMAR	P	P	P	P	P	P
36	ZASEEM AKHTAR ANSARI	P	A	P	P	P	P
37	MOFEEZ JAWED	P	P	A	P	P	P
38	NISHANT SUMAN	P	P	P	P	P	P
39	PIYUSH RANJAN	P	P	P	P	P	P
40	KESHAV ADITYA	P	P	P	P	P	P
41	ASHISH RAJ	P	P	P	P	P	P
42	SHUBHAM KUMAR	P	P	P	P	P	P





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 2021-2022

Date: 16-06-2022

Notice

The interested students of 6th & 8th Semester Civil branches are here by informed that Workshop on “**STAAD-PRO**” is going to be organized by Civil Engineering department. Therefore the students are instructed to attend the workshop.

The details of the Workshop are as follows

Name: STAAD-PRO

Date: June 20-25, 2022

Duration: 30 Hours

Time:

Session 1 10 AM to 12:30 PM

Session 1 1:30 PM to 4 PM

Venue: Computer Centre

Resource Person: Ujjawal Kumar, National Design School, Patna

Copy to:

1. Director, NSIT
2. Dean, NSIT
3. Notice Board
4. College website



Babul
HOD, Civil, NSIT

Head of Department
Department of Civil Engineering
Netaji Subhas Institute of Technology



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 2021-2022

Notice

Date:-22-07-2022

All 8th Semester students of Civil Engineering (CE) Department are hereby informed that a certificate course on “ **Building Information Modeling(BIM)**” is going to be organized by CE Department in association with “**National Design School, PATNA**” from 1st Aug 2022 to 6th Aug 2022. The registration fees is Rs. 500 /-. The interested student should register their name on or before 27th July, 2022.

mithlesh

Mithlesh Kumar Jha
(HOD, CE Department)

Head of Department
Department of Civil Engineering
Netaji Subhas Institute of Technology

Copy to:

1. Principal, NSIT
2. Notice Board



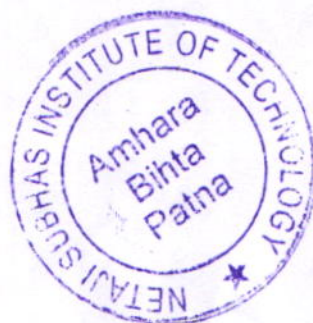
NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Session 2021-22 Workshop on "BIM"

Attendance Sheet

Sr.No	Name of Student	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug
1	SUMAN SAURAV	P	P	P	P	P	P
2	AMIT KUMAR	P	P	P	P	P	P
3	Ramkrishna	P	P	P	P	P	P
4	Kumar sonu	P	P	P	P	A	P
5	RAVI KUMAR SHARMA	P	P	P	P	P	P
6	MOHAMMAD RAHMAT	P	P	P	A	P	P
7	RITESH RANJAN	P	P	P	P	P	P
8	SUMIT KUMAR	P	P	P	P	P	P
9	ABHINAV KUMAR	P	A	P	P	P	P
10	LAVKUSH KUMAR	P	P	P	P	P	P
11	AKHILESH KUMAR SINGH	P	P	P	P	P	A
12	ABHISHEK KUMAR	P	P	P	P	P	P
13	FARAZ KHAN	P	P	P	P	P	P
14	NITISH KUMAR	P	P	P	P	P	P
15	ANKITA KUMARI	P	P	P	P	P	P
16	RANJAN KUMAR	P	P	P	P	P	P
17	AMAN KUMAR	P	P	P	P	P	P
18	ADHYAYAN RAJ	P	P	P	P	P	P
19	VISHNU ANAND	P	P	P	P	P	P
20	AMIT PRAKASH	P	P	P	P	P	P
21	ANSHUMAN KUMAR	P	P	P	P	A	P
22	VISHAL KUMAR	P	P	P	P	P	P
23	SONAM	P	P	P	P	P	P
24	SHUBHAM KISHAN	P	P	P	P	P	P
25	RITESH KUMAR	P	P	P	P	P	P
26	BALMUKUND KUMAR	P	P	P	P	P	P
27	MAUSAM KUMAR	P	P	P	P	P	P
28	RAJ ARYAN	P	P	P	P	P	P
29	ZASEEM AKHTAR ANSARI	P	A	P	P	P	P
30	MD TAHA ASHFAQUE	P	P	P	P	P	P
31	MOFEEZ JAWED	A	P	P	P	P	P
32	NISHANT SUMAN	P	P	P	P	A	P
33	ROHAN KUMAR THAKUR	P	P	P	P	P	P
34	ABHISHEK KUMAR	P	P	P	P	P	P
35	PIYUSH RANJAN	P	P	P	P	P	P
36	GULSHAN KUMAR	P	P	P	A	P	P

37	Keshav Aditya	P	P	P	P	P	P
38	ASHISH RAJ	P	P	P	P	P	P
39	KAUSHAL VARDHAN	P	P	P	A	P	P
40	SHUBHAM KUMAR	P	A	P	P	P	P
41	SUSHMA KUMARI	P	P	P	P	P	P



Building Information Modeling

Overview of seminar

The course is designed for students to learn the essential concepts of BIM, and the basic technical skills to create and manipulate a BIM model. Those skills include how to retrieve information from a BIM model and how to use common modeling tools.

Objective of seminar:-

This course covers Building Information Modeling (BIM), including its use and application for small- and large-scale building construction projects. Students will learn terminology associated with buildings, the theory and evolution of BIM, and how to develop BIM models using Autodesk Revit. As time allows, this course will also cover selected topics on how BIM is used to help prepare or feed into key project items, such as cost estimation, architectural renderings, interference checking, and modeling of energy consumption.

Course Content:-

Sl. No	Content	Time (in Hrs)
1	Introduction to BIM: Overview	5
2	Basics of BIM Modeling	6
3	Advanced BIM Modeling	6
4	Information Management	5
5	BIM Modelling Specialisation	4



The laboratories are equipped with excellent and advanced equipment and provide all required facilities for advanced research in specific fields of Civil Engineering, like Geotechnical Engineering, Material Testing and Evaluation, Transportation Engineering etc.

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. Mithlesh Kumar Jha, NSIT Patna
Mr. B.K. Mandal, NSIT Patna

Organizing Members

Mr. Rajeev Ranjan Kr.

Mr. Akash Singh

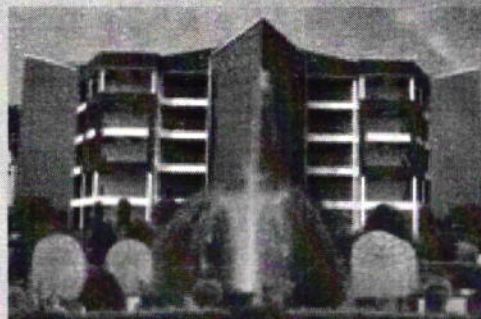
Mr. Satya Prakash

Mr. Ranjeet Kumar

Mr. Anup Kumar

CIVIL ENGG. Department, NSIT BIHTA

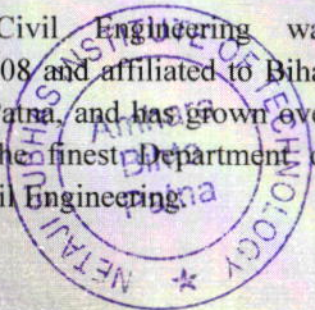
About the Institute



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 kilometers 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 luster 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 Civil Engineering was established in the year 2008 and affiliated to Bihar Engineering University, Patna, and has grown over the years into one of the finest Department of training in the field of Civil Engineering.



One Week-Workshop

on

Application of Building Information Modeling (BIM) in Civil Engineering



Date: 1st Aug to 6th Aug, 2022

**Organized by:
Department of Civil Engineering
NSIT Bihta Patna**



About the Workshop

Course Description: This course covers Building Information Modeling (BIM), including its use and application for small- and large-scale building construction projects. Students will learn terminology associated with buildings, the theory and evolution of BIM, and how to develop BIM models using Autodesk Revit. As time allows, this course will also cover selected topics on how BIM is used to help prepare or feed into key project items, such as cost estimation, architectural renderings, interference checking, and modeling of energy consumption.

COURSE CONTENTS

Lecture Session

- Introduction to/Review of Buildings & Systems
- Introduction to BIM and BIM Concepts
- Autodesk Revit
- Future of BIM

Practical Session

- Making a Topographic map
- Working with Attributes
- Geo-referencing and Digitization
- Case Study on Industrial Project

Vision of Department

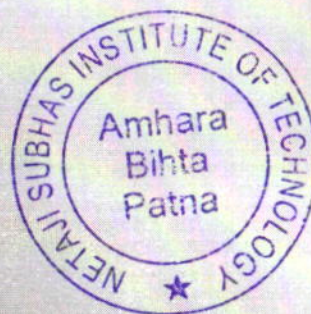
To become a premier Civil Engineering Department offering excellent engineering education in design methods and advanced technologies to the students, to pursue research in thrust areas and to offer professional services to the society.

Mission of Department

The Department is committed to develop competent professionals by offering need based curriculum in Civil Engineering areas, promoting research and innovation to prepare the students for higher study, life-long learning and societal responsibility. The department is also committed to provide good learning environment to develop professional ethics and skills in our students and to provide engineering services to the society.

Resource Persons

Ujjawal Kumar, Centre Head
National Design School, Patna



REGISTRATION

This workshop is open to the faculty members of AICTE/ UGC approved Engineering Institutes/ Universities/ R&D Labs/ Industry person/ Ph.D. scholars/ postgraduate and under graduate students interested to know about the current status, scope, and challenges about advancements in manufacturing.

REGISTRATION FORM

Name: _____

_____ Designation: _____

_____ Organization: _____

Area of Work: _____

_____ Email: _____

_____ Contact no: _____

_____ Address: _____

_____ Date: _____

_____ Signature: _____

A FOUR DAYS WORKSHOP
On
PLC & SCADA

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



August 22-25, 2022

Cheif Patron

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

Patron

Mr. Krishna Murari, Registrar, NSIT

Convenor

Dr. J. Dalei, HOD, EEE, NSIT

Coordinators

Mr. Nishant kumar, NSIT Patna

Mr. Deepak Kumar, NSIT Patna

Resource Person

Md Safdar Jalil, Deputy Manger, MIEPL

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. 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 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.

OBJECTIVE

This is a basic course for designing of PCB using software. PCB (Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.

WORKSHOP CONTENTS

- ❖ Industrial Automation
- ❖ Overview of PLCs
- ❖ Central Processing Unit and I/O System
- ❖ Programming Terminal and Peripherals
- ❖ Ladder Logic and NO/NC Logic
- ❖ Force Instructions and Timers
- ❖ Counters

Registration Fee

The participation fees Rs 350/- only

Mode of registration :- Spot

For More Information Contact us on :-

7781020349, 7781020361, 9102403261

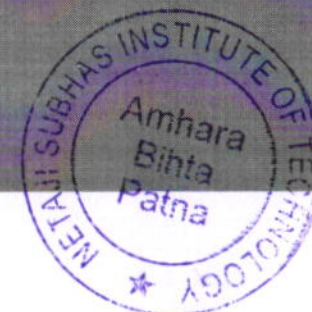
Registration Form

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

Signature of applicant

Date:

Place:



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Electrical & Electronics Engineering

Session 2021-22

Add on Course on "PLC & SCADA"

Course details:

Module 1-Industrial Automation

The objective of this module is to provide an overview of automation concepts and their constituents, as well as discuss the history of automation, its various types in the market, and its advantages and disadvantages.

Learning Outcomes:

Upon completion of this module the participant will be able to:

- Importance of Automation
- Its various modules/aspects
- Need of automation in today market
- Understand the benefits.

Module 2-Overview of PLCs

This module gives a general overview of PLCs and their use in industry, along with their origins and evolution.

The advantages of PLC systems and their main components are outlined and explored. An overview of ladder logic is provided, with an emphasis on practical application of the most common types of PLC signals.

Learning Outcomes:

Upon completion of this module the participant will be able to:

- Describe the purpose of a control panel.
- Define a programmable controller.
- List six factors affecting the original design of programmable controllers.
- Name three advantages of PLCs compared to relay logic systems.
- List the three main components in a PLC system.



- Understand the term ladder logic.
- Describe the application of PLC signals.
- Explain the difference between a bit and a word.

Module 3-Central Processing Unit

The aim of this course is to familiarize participants with the fundamental features of the PLC's central processing unit. The subject matter covered in the course is memory devices and storage, as well as an introduction to data storage and processing.

The course not only covers memory utilization and mapping, but also offers detailed information on CPU types and PLC scan functions.

Learning Outcomes:

Upon completion of this module the participant will be able to:

- Define the term CPU.
- Explain the purpose of the executive program.
- Understand the application of buses in a CPU.
- Explain the advantage of multiprocessing.
- Describe the two general classes of memory devices.
- Name four types of memory.
- Explain the purpose of memory utilization and how it applies to PLC systems.
- Describe the scan function.

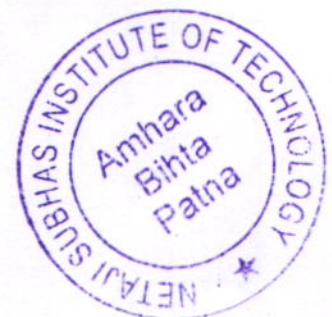
Module 4-I/O System

This course is dedicated to covering all aspects of PLCs' input/output system, which includes discrete, analog, and data I/O. Also included in the course are the principles of remote I/O and an introduction to scaling and resolution of analog devices and signals.

Learning Outcomes:

Upon completion of this module the participant will be able to:

- Explain the purpose of the I/O system
- Describe how I/O addressing is accomplished.
- Define discrete inputs.
- List four tasks performed by an input module.
- Describe the basic operation of a discrete output.
- Explain the purpose of data I/O interfaces.
- Define analog I/O.
- Explain the purpose of remote I/O.



Module 5-Programming Terminals and Peripherals

This course is intended to provide participants with an overview of the wide range of programming terminals currently in use and to outline some of the key differences between them. In addition, the course covers topics such as hand-held programming terminals and computer-based software packages. The operation of host computer-based systems is also covered as well as the application of peripheral devices in a PLC network.

Learning Outcomes:

Upon completion of this module the Participant will be able to

- Define the term programming terminal.
- Describe the application of dedicated programming terminals
- Differentiate between programming software and documentation software.
- Describe the function of a host computer-based PLC system.
- Explain the purpose of peripheral devices.

Module 6- Ladder Logic

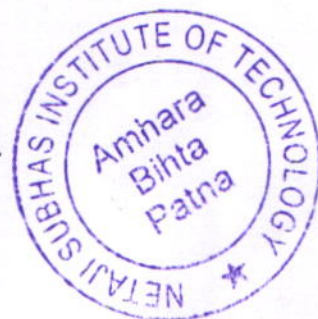
Laboratory simulation software is used to provide an introduction to ladder logic programming techniques in this course.

Through PLC simulation, the participant can write ladder logic programs and simulate their operation through the lab component of the course. The course covers instructions, safety circuitry, programming restrictions, and I/O addressing.

Learning Outcomes:

Upon completion of this module the participant will be able to:

- Define ladder logic.
- Explain the purpose of I/O addresses.
- Describe the function of soft wiring, branches, and rungs.
- Write a ladder logic program.
- Run a ladder logic program 'using lab simulator. Define the terms examine on and examine off
- Explain the purpose of a latching relay instruction.
- Differentiate between an internal output and an actual I/O output
- Describe the operation controller scan.
- Name two programming restrictions.
- Define nesting.
- Explain why safety circuitry is important in ladder logic systems.
- List three types of I/O addressing.



Module 7-NO/NC Logic

This course focuses on logic and its applications in PLC programming and control in a comprehensive manner.

Furthermore, the participant will become skilled in transforming control logic to ladder logic.

Learning Outcomes:

Upon completion of this module the participant will be able to

- Apply NO/NC to troubleshooting
- List five logic gates
- Describe the basic operation of an inverter.
- Explain the purpose of NO/NC diagrams
- Apply logic gate combinations to PLC control.
- Convert digital logic to ladder logic.

Module 8 -FORCE instructions

The aim of this course is to give a general overview of force control techniques.

The use of lab simulation software presents and demonstrates force instructions.

The simulation software also allows the participant to program and observe branching operations.

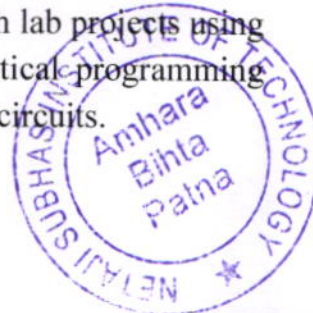
Learning Outcomes:

Upon completion of this module the participant will be able to:

- Describe the purpose of first failure annunciators.
- Explain the advantage of using forcing.
- How to manage output energizing through software.
- Use the FORCE instruction for troubleshooting

Module 9-Timers

This course is intended to provide participants with an overview of PLC timers and their application in industrial control circuits, Timing functions such as TON, TOF, and RTO are discussed in detail and the theory is reinforced through lab projects using lab simulation software. In addition, participants will learn practical programming techniques for timers including cascading and reciprocating timing circuits.



Learning Outcomes:

Upon completion of this module the participant will be able to:

- Name two types of relay logic timers.
- List the four basic types of PLC timers.
- Describe the function of a time-driven circuit.
- Differentiate between an ON-delay and an OFF-delay instruction.
- Write a ladder logic program using timers.
- Describe the operating principle of retentive timers
- Explain the purpose of cascading timers.

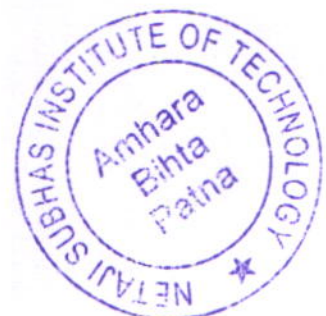
Module 10- Counters

This course provides participants with a broad overview of PLC counters and their application in control systems. Counting functions such as CTU and CTD are presented in detail and the theory is reinforced through lab projects using lab simulation software. In addition, participants will learn practical programming techniques for counters including cascading counters and combining counting and timing circuits.

Learning Outcomes:

Upon completion of this module the participant will be able to:

- Define the two basic types of PLC counters.
- Write a ladder logic program using CTU, CTD, and RES.
- Design an up/down counter.
- Define cascading counters.
- Explain the advantages of combining timers and counters.
- Comparing the counter values.



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Electrical & Electronics Engineering

Session 2021-22

Date:-

Notice

The interested students of 4th and 6th Semester Electrical and Electronics Engineering are hereby informed that a “**Workshop on PLC & SCADA** ” is going to be organized which is commencing from 22th August 2022. Therefore the students are instructed to attend the workshop. The details of the Workshop are as follows

Name: Workshop on PLC & SCADA

Starting Date: 22th August 2022

Duration: 16 Hours

Time:

Session 1 10 AM to 12 PM

Session 1 2 PM to 4 PM

Venue: EEE Lab

Resource Person:


HOD, EEE, NSIT
Head of Department
Department of Electrical & Electronics Engineering
Netaji Subhas Institute of Technology



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Electrical & Electronics Engineering

Session 2021-22

Date:- 22/08/2022

Attendance sheet

Sr.No	Name	Session-1	Session-2
1	TARA KANT MANI	P	P
2	KHUSHI	P	P
3	ANUP KUMAR	P	P
4	ASHISH RAJ	P	P
5	RAJA KUMAR	P	P
6	SURYANSH VERMA	P	P
7	GAURAV KUMAR	P	P
8	SHIVAM KUMAR	P	P
9	HIMANSHU KUMAR	P	P
10	KUMARI AKANKSHA	P	P
11	MD TAUSIF MALLICK	P	P
12	KANIKA KUMARI	P	P
13	LAVANYA SINGH	P	P
14	RISHI PRAKASH PANDEY	P	P
15			



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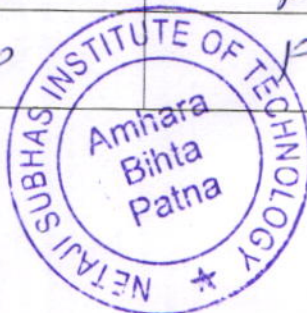
Department of Electrical & Electronics Engineering

Session 2021-22

Date:- 23/08/2022

Attendance sheet

Sr.No	Name	Session-1	Session-2
1	TARA KANT MANI	P	P
2	KHUSHI	P	P
3	ANUP KUMAR	P	P
4	ASHISH RAJ	P	P
5	RAJA KUMAR	P	P
6	SURYANSH VERMA	P	P
7			
8	GAURAV KUMAR	P	P
9	SHIVAM KUMAR	P	P
10	HIMANSHU KUMAR	P	P
11	KUMARI AKANKSHA	P	P
12	MD TAUSIF MALLICK	A	A
13	KANIKA KUMARI	P	P
14	LAVANYA SINGH	P	P
15	RISHI PRAKASH PANDEY	P	P



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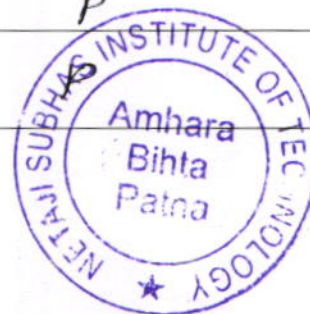
Department of Electrical & Electronics Engineering

Session 2021-22

Date:- 24/08/2022

Attendance sheet

Sr.No	Name	Session-1	Session-2
1	TARA KANT MANI	P	P
2	KHUSHI	P	P
3	ANUP KUMAR	P	P
4	ASHISH RAJ	A	A
5	RAJA KUMAR	P	P
6	SURYANSH VERMA	P	P
7			
8	GAURAV KUMAR	P	P
9	SHIVAM KUMAR	P	P
10	HIMANSHU KUMAR	P	P
11	KUMARI AKANKSHA	P	P
12	MD TAUSIF MALLICK	P	P
13	KANIKA KUMARI	P	P
14	LAVANYA SINGH	P	P
15	RISHI PRAKASH PANDEY	P	



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA

Department of Electrical & Electronics Engineering

Session 2021-22

Date:- 25/08/2022

Attendance sheet

Sr.No	Name	Session-1	Session-2
1	TARA KANT MANI	P	P
2	KHUSHI	P	P
3	ANUP KUMAR	P	P
4	ASHISH RAJ	P	P
5	RAJA KUMAR	P	P
6	SURYANSH VERMA	P	P
7	GAURAV KUMAR	P	P
8	SHIVAM KUMAR	P	P
9	HIMANSHU KUMAR	P	P
10	KUMARI AKANKSHA	P	P
11	MD TAUSIF MALLICK	P	P
12	KANIKA KUMARI	P	P
13	LAVANYA SINGH	P	P
14	RISHI PRAKASH PANDEY	P	P
15			

