



# NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

AMHARA, BIHTA, PATNA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Circular

Date: 22/12/2023

All the faculties of Electrical & Electronics engineering department are hereby requested that to submit their area of interest & specialization to the Head of Department on or before 05/01/2024 towards the faculty supervisor (Project Guide) for final year students.

HOD,EEE

**Head of Department**  
Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology

Copy to:

1. Office of the Director
2. Dean
3. Department Notice Board

**Director**  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801108



# NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

AMHARA, BIHTA, PATNA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

## Circular

Date: 10/01/2024

All the VII semester students are hereby informed that the Minor Project topic selection group formation & choice of guide format is attached here with & should be positively submitted in the following format latest by 16/01/2024, after this schedule date acceptance of above mentioned subjects will not be considered in any circumstances & students will liable for this.

Note: -

1. A group will be minimum formation of 3 students & once the group is formed it cannot be change in any circumstances. The same group will be valid for major project also.
2. Once the topic is selected with the concern of allotted guide, it cannot be changed in any circumstances.

HOD,EEE

Head of Department  
Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology

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# NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

AMHARA, BIHTA, PATNA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

## Notice

Date: 17/01/2024

All the VII semester students are hereby informed that the Minor Project synopsis should be strictly submitted in the following format or areas latest by 19<sup>th</sup> Jan 2024. No late submission will be entertained.

### **For Minor Project**

Synopsis, preferably, should be of about 3-4 pages. The content should be as brief as is sufficient enough to explain the objective and implementation of the project that the candidate is going to take up. The write up must adhere to the guidelines and should include the following.

- The project thesis shall be computer typed (English- British, Font-Times Roman New. Size- 12 point) and printed on A4 size paper.
- The Thesis for minor project shall be typed on one side only with double space with a margin 3.5 cm on the left, 2.5 cm on the top. and 1.25 cm on the right and at bottom. Line space should be 1.5.


1. Name/Title of the Project
2. Statement about the Problem
3. Why is the particular topic chosen?
4. Objective and scope of the project
5. Methodology (including a summary of the project)
6. Hardware & Software to be used
7. Testing Technologies used
8. What contribution would the project make?

HOD,EEE

Head of Department

Copy to: Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology


1. Office of the Director
2. Dean
3. Department Notice Board

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

## Format for B.Tech Project Synopsis

### SPECIFICATIONS/GUIDELINES FOR SYNOPSIS

1. The synopsis shall be computer typed (English British, Font Times Roman New, Size-12 point) and printed on A4 size paper.
2. The Synopsis shall be typed on one side only with double space with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom. Line space should be 1.5
3. In the synopsis, the title page (Refer sample sheet (inner cover)) should be given first. This should be followed by index, notations/nomenclature.
4. The diagrams should be printed on a light/white background; Tabular matter should be clearly arranged. Decimal point may be indicated by full stop (.). The caption for Figure must be given at the BOTTOM of the Fig. and Caption for the Table must be given at the TOP of the Table.
5. A student is required to prepare 3 (three) neatly typed copies of his minor project report as per the format. The all 3 (Three) copies should be in dark red Maroon colour binding.
6. Following sequence should be followed for preparing synopsis
  - A. Title page: Title page should have the following details as per the format given in annexure 1
  - B. Project Introduction form with guide's approval as per format given (Certificate)
  - C. Acknowledgement
  - D. Abstract

  
17/11/24

Head of Department

Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology



Director

Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801108





# NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

APPROVED BY AICTE, NEW DELHI AND DEPT OF SCIENCE & TECHNOLOGY, GOVT. OF BIHAR  
AFFILIATED TO BIHAR ENGINEERING UNIVERSITY, PATNA  
AMHARA, BIHTA, PATNA-801106

Ref. NSIT/PO/2024/007

Date: 01-03-2024

It is here by informed to all **B.Tech 7<sup>th</sup> Semester** students that their project related activities will be performed as per the following schedule.

Sl. No.	Activity	Date
1	Project Presentation	March 07, 2024
2	Draft Project Report Submission	March 14, 2024
3	Internship Presentation	

*J Dalei*  
*1/3/24*

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

Copy to:

1. Notice Board
2. Central File
3. Department HODs



*J. S. Ph*  
**Director**  
Netaji Subhas Institute of Techno.  
Amhara, Bihta, Patna, Bihar  
PIN-801106

# **SMART SOLAR POWER MONITORING SYSTEM**

## **A Major Project Report**

Submitted in partial fulfilment of the requirement for the award of the degree of

### **BACHELOR OF TECHNOLOGY**

### **ELECTRICAL & ELECTRONICS ENGINEERING**

To



### **BIHAR ENGINEERING UNIVERSITY**

Submitted by-

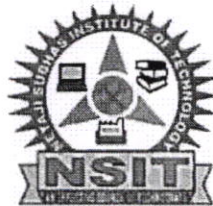
<b>NAME</b>	<b>ROLL No.</b>	<b>REG. No.</b>
KHUSHI	204001	20110103002
RAJA KUMAR	204004	20110103007
ANUP KUMAR	204006	20110103004
TARA KANT MANI	204009	20110103001
ABHISHEK KR YADAV	204012	20110103008

UNDER THE SUPERVISION OF

*Dr. Jyotirmayee Dalei*

Associate Professor, EEE dept.

NSIT, Bihta, Patna



**NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA, PATNA**

**JULY 2024**

*S. Singh*

**Director**

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

## CANDIDATE'S DECLARATION

We **Khushi (204001), Raja Kumar (204004), Anup Kumar (204006), Tara Kant Mani (204009), Abhishek Kumar Yadav (204012)**, students of Bachelor of Technology (Electrical and Electronics Engineering) at **Netaji Subhas Institute of Technology, Bihta, Patna** declare that the work presented in this major project titled "**SMART SOLAR POWER MONITORING SYSTEM**", submitted to **Bihar Engineering University** during academic year (2020-2024) for the award of Bachelor of Technology degree in Electrical and Electronics Engineering, is my original work. All work done in this major project is entirely my own except for the reference quoted. To the best of my knowledge this work has not been submitted to any other university or institution for award of any degree.

NAME	ROLL No.	Sign.
KHUSHI	204001	<i>khushi.</i>
RAJA KUMAR	204004	<i>Raja</i>
ANUP KUMAR	204006	<i>Anup</i>
TARA KANT MANI	204009	<i>Tarakantmani</i>
ABHISHEK KR YADAV	204012	<i>Abhishek Kumar yadav</i>

Date: 16/08/2024

Place: NSIT, Bihta

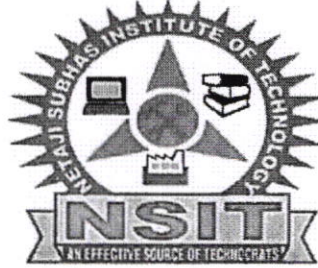
*S. Singh*  
Director  
Netaji Subhas Institute of Techno  
Amhara, Bihta, Patna, Bihar  
PIN-801108



# CERTIFICATE

## NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to BEU, Patna (Bihar)



This is to certify that **Anup Kumar, Abhishek Kumar Yadav, Raja Kumar, Khushi, Tara Kant Mani**, Students of Final Year in **Electrical & Electronics Engineering** branch successfully completed the project work entitled “**SMART SOLAR POWER MONITORING SYSTEM**”. This technical project is hereby approved for submission towards partial fulfilment for the bachelor degree in **Electrical & Electronics Engineering** from **Bihar Engineering University, Patna, Bihar**.

*J Dalei*  
*16/8/24*

Project Guide

**Dr. Jyotirmayee Dalei**

Associate Professor

Dept. of EEE

NSIT, Bihta, Patna

*Nishant Kumar*  
*16/08/24*

Head of Department

**Mr. Nishant Kumar**

Assistant Professor

Dept. of EEE

NSIT, Bihta, Patna

**Head of Department**

Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology

*J. Subhas*

Director

Netaji Subhas Institute of Techno  
Arihara, Bihta, Patna, Bi  
PIN-801108



SMART GSM BASED HOME  
AUTOMATION SYSTEM USING  
AURDINO

**A Major Project Report**

Submitted in partial fulfilment of the requirement for the award of the degree of

**BACHELOR OF TECHNOLOGY  
ELECTRICAL & ELECTRONICS ENGINEERING**

TO



**BIHAR ENGINEERING UNIVERSITY**

Submitted by:-

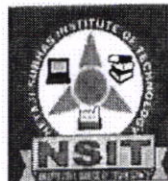
<b>NAME</b>	<b>ROLL No.</b>	<b>REG. No.</b>
UDIT RAJ	204011	20110103003
ASHISH RAJ	204010	20110103006
PRIYA KUMARI	204008	20110103009
VICKY KUMAR	194015	19110103010

UNDER THE SUPERVISION OF

*Dr. jyotirmayee dalei*

Associate professor, EEE dept.

NSIT, Bihta, patna



**NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA, PATNA**

**JULY 2024**

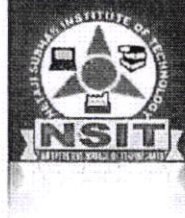
  
**Director**

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

CERTIFICATE

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to BEU, Patna (Bihar)



This is to certify that **Udit raj, Ashish raj, Priya kumari, Vicky Kumar** Students of Final Year in **Electrical & Electronics Engineering** branch has successfully completed the project work Entitled "**Smart GSM Based Home Automation System Using Arduino**". This Hardware Project is hereby approved for submission towards partial fulfilment for the Bachelor degree in **ELECTRICAL & ELECTRONICS ENGINEERING** from **BIHAR ENGINEERING UNIVERSITY, PATNA, BIHAR.**

*J Dalei*  
Project Guide *16/8/24*  
**Dr. Jyotirmayee Dalei**  
Associate professor  
Dept. of EEE  
NSIT, Bihta, Patna

*Nishant Kumar*  
*16-08-24*  
Head of Department  
**Mr. Nishant Kumar**  
Associate Professor  
Dept. of EEE  
NSIT, Bihta, Patna

**Head of Department**  
Department of Electrical & Electronics Engineering  
Netaji Subhas Institute of Technology

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

## CANDIDATE'S DECLARATION

We **Udit raj (204011)**, **Ashish raj (204010)**, **Priya Kumari (204008)**, **Vicky Kumar(194015)**, Students of Bachelor of Technology (Electrical & Electronics Engineering) at **Netaji Subhas Institute Of Technology, Bihta, Patna**, declare that work presented in this major project titled "**Smart GSM Based Home Automation System Using Arduino**", submitted to **Bihar Engineering University, Patna** during academic year (2020-2024) for the award of Bachelor of Technology degree in Electrical & Electronics Engineering, is our original work. All work done in this major project is entirely our own except for the reference quoted. To the best of our knowledge this work has not been submitted to any other university or institution for award of any degree.

<b>NAME</b>	<b>ROLL No.</b>	<b>Sign.</b>
Udit raj	204011	<i>Uditraj</i>
Ashish raj	204010	<i>Ashish Raj</i>
Priya kumari	204008	<i>Priya</i>
Vicky Kumar	194015	<i>Vicky-kumar</i>

Date: 16/08/2024

Place: NSIT, Bihta

*S. Singh*  
**Director**  
Netaji Subhas Institute of Technology  
Amhara, Bihta, Patna, Bihar  
PIN-801108