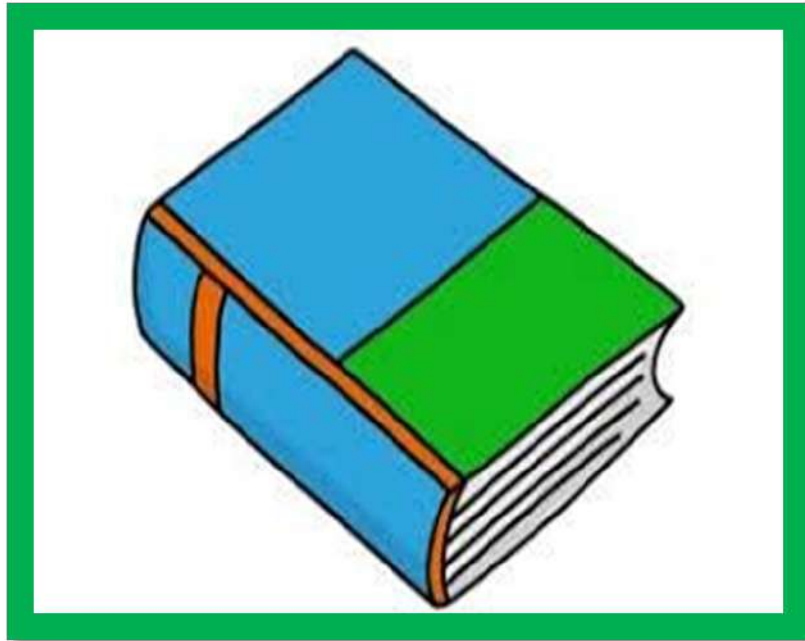


ELECTRICAL ENGINEERING



SESSION
JUNE-DEC
2021

ELECTRICAL ENGINEERING

TIME FOR SISTEC RATIBAD, EE TO SHINE GLOBALLY

Department of Electrical Engineering SISTec-E, Ratibad campus is extending heartfelt congratulations to the HOD, Prof Ashish Kumar Singhal for getting Invitation as Session chair -IEEE ICONAT 2022. The International Conference for Advancement in Technology (ICONAT) 2022 is Technically Co-sponsored by IEEE Bombay section in Fortune Miramar, Goa, India.

REC R Raghav Rathi is presenting

Checkpoint Chain

Chain checkpointing refers to compressing a particular segment of the blockchain into a single block. This process helps in reducing the length of the blockchain while preserving the security aspects of the blockchain.

Splitter Block: It is used to connect the blockchain to the checkpoint chain.
Checkpoint Block: It is a single block replacement for a particular segment of the blockchain.

9:21 AM | fuv-gqkv-yps

Participants: jayashree rankhambe, Fatema Tauze Zohora Sai..., Kartikey Mishra, Raghav Rathi, 8 others, You

REC J Jayasree J S is presenting

2022 International Conference for Advancement in Technology (ICONAT 2022) IEEE BOMBAY SECTION

PROPOSED SYSTEM

9:45 AM | fuv-gqkv-yps

Participants: Jayasree J S, jayashree rankhambe, Kartikey Mishra, Fatema Tauze Zohora Sai..., 6 others, You

ELECTRICAL ENGINEERING

🚩 Session chair of International conference organized by IEEE Bombay Section

Heartiest congratulations to Prof. Ashish Singhal, HOD Department of EE for being session chair of International conference organized by IEEE Bombay Section and ABV-IIITM. The 3rd IEEE Bombay Section Signature Conference (IBSSC-2021), is an international conference organized by IEEE Bombay Section and ABV-IIITM Gwalior. The inaugural event of IBSSC-2021 was graced by presence of IEEE BOMBAY Section Chairman Mr. Satyanarayana Bheesette and Ex UPSC Chairman Dr. D.P. Agrawal.



🚩 Inauguration of New Network Analysis Lab

Department of Electrical Engineering, SISTec-E Ratibad campus is happy to share beautiful moment of inauguration of New Network Analysis Lab by honorable Director Dr. Jyoti Deshmukh madam in the dignified presence of Principals of both campuses Dr. Manish Billore sir and Dr. Keshavendra Choudhary sir. The Network Analysis Lab was updated by kits made under minor project's learning and implementing by 58 students of 3rd year comprising 5 students in a batch that was mentored by faculty members of the department. The overall kits received is 14 whose total budget is approximately Rs. 35000/- which is very less when compared to actual cost from market. This activity was planned in the line of finding possibilities of Start-up by the department and it has surely shown the light to lead in this direction.

ELECTRICAL ENGINEERING



🚩 International Power Innovation Conclave " (IPIC-2022)

Department of Electrical Engineering SISTec Ratibad Campus successfully organized "International Power Innovation Conclave " (IPIC-2022) on 19th January 2022.

The IPIC-20'22 was a panel discussion-based event with themes of Renewable Energy, Robot & Drones Technologies. There were 2 sessions of this event:

The distinguished guests and keynote speaker :-

Eminent Professor Dr. Tripta Thakur, Director General, NPTI, and the apex body of Ministry of Power, Government of India and Dr. G S Tomar, Chairman IEEE, MP sub section.

Speakers of the Day

1. Dr. Chandra Shekhar Malvi (PhD, LEADS, UK)
2. Dr. Shailendra Rajput (Research Associate, Ariel University, Israel)
3. Dr. Shriram Vasudevan (Project Manager, L&T)
4. Dr. Abhishek Sharma (Research Scientist, Ariel University, Israel)
5. Mr. Ankit Muley (Co-Founder, Infinity Research)

Session 01:- <https://youtu.be/bxcGyHqsDik>

Session 02:- <https://youtu.be/h-Q61LhB8EY>

ELECTRICAL ENGINEERING



Department of Electrical Engineering

International Power Innovation Conclave

on
Renewable Energy, Drone & Robot Technologies

19th January 2022
Organized under
RGPV, Bhopal



Session - I

Expert



Dr. G. S. Tomar
Chairman, IEEE MP Sub-Section

Expert



Dr. Chandra Shekhar Malvi
Professor, MITS, Gwalior

Expert



Dr. Shailendra Rajput
Research Associate, Ariel University, Israel

Session - II

Expert



Dr. Shiram Vasudevan
Project Manager, Larsen & Toubro

Expert



Dr. Abhishek Sharma
Research Scientist, Ariel University, Israel

Expert



Mr. Ankit Muley
Co-Founder, Infinity Research

Dr. Manish Billore
Principal, SISTec-Ratibad



Prof. Ashish Singhal
HOD, EE, SISTec-E

In Collaboration with:



Dr. Aayush Shrivastava
Coordinator





Join Telegram Group of IPEC 2022 by Scanning this QR Code!

Mob.: 9870692311, Email : aayushshrivastava@sistec.ac.in



ELECTRICAL ENGINEERING

Department of Electrical Engineering

International Power Innovation Conclave
on
Renewable Energy, Drone & Robot Technologies

19th January 2022
Organized under
RGPV, Bhopal

Prof. Subinoy Roy, Prof. Pankaj Sharma, Dr. Aayush Shrivastava, abhishek sharma, Ankit Muley, Dr. Shriram KV, Prof. Ashish Singhal (HOD E...)

Sagar Group of Institutions – SISTec Ratibad | International Power Innovation Co

Expert Session on "Innovative Applications of Drone Technology

We are happy to announce that the Dept. of Electrical Engineering under the banner of Institutional Innovation Cell at Sagar Institute of Science Technology & Engineering (SISTec-E) IIC SISTec-E is successfully organized a Expert Session on "Innovative Applications of Drone Technology in Competitive Market" by Expert Speaker: Lt.Cdr.Abhishek Tiwari, Indian Institute of Drones,Bhopal.

INSTITUTION'S INNOVATION COUNCIL
MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)
SISTec-E

Expert Lecture on
Innovative Applications of
DRONE TECHNOLOGY
in Competitive Market

23rd Oct 2021
Time: 1:10 PM

Expert :-
Lt. Cdr. Abhishek Tiwari
Indian Institute of Drones
Bhopal

Organised by :
Sagar Institute of Science, Technology & Engineering, Bhopal

ELECTRICAL ENGINEERING

NPTEL CERTIFICATIONS

National Programme on Technology Enhanced Learning, NPTEL is an ambitious project of MHRD initiated by 7 IITs along with the IISc Bangalore.

Department of Electrical Engineering, SISTec-Ratibad Campus has successfully earned prestigious NPTEL Certification for its 5th semester students in INTRODUCTION TO SEMICONDUCTOR DEVICES conducted by IIT Hyderabad and we feel very happy to share that our students: -Amit, Ragni Gupta & Mohit Saket got successfully certified and they marked their valuable presence in the list of 60 Qualified candidates nationwide out of 2952 Enrolled candidates for this course. Students were guided to study the 12 weeks course of video lectures, class room deliveries, notes under the mentorship of Prof. Pankaj Sharma, AP, EE Department.



SAGAR GROUP OF INSTITUTIONS®
SAGAR INSTITUTE OF SCIENCE TECHNOLOGY & ENGINEERING
Ratibad Campus, Bhopal

SISTec-E™

Congratulations

Amit
V Sem, EE | Score - 48%

Ragni Gupta
V Sem, EE | Score - 56%

Mohit Saket
V Sem, EE | Score - 50%


has certified in **NPTEL®**

Mentor Name -
Prof. Pankaj Sharma
Assistant Professor,
Department of EE.

Title of Topic:-
INTRODUCTION TO SEMICONDUCTOR DEVICES.

Organizing Institute:- IIT Hyderabad
By Prof. Naresh Kumar Emani.

You are an inspiration to us

 Department of Electrical Engineering, SISTec-E, Ratibad has successfully achieved prestigious NPTEL Certification for its students in Control Engineering conducted by IIT Madras and we are very happy to share that our final year student of EE- Samvida Gupta certified and awarded Elite Certificate and she is in the list of 59 qualified candidates in the entire country out of 4403 enrolled candidates for this course. Students were guided to go through the 12 weeks course of video lectures, assignment based on video lectures and finally a written examination on GATE pattern to consolidate certification. Credit Transfer. As per the AICTE and RGPV, the Credit Framework will be transferred to the Academic record.

ELECTRICAL ENGINEERING



Department of Electrical Engineering Congratulates
for successfully completing the NPTEL Course on
"CONTROL ENGINEERING"

Learners Enrolled: **4403** | Total Certified: **59**

Type of Certificate: **ELITE**

Score
63%
Samvida Gupta | VII SEM-EE



MENTOR
Prof. Ramkrishna Pansumarthy
IIT- Madras

FACULTY COORDINATOR
Prof. Kavita Kushwah
SISTec-E, Ratibad, Bhopal

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DEPARTMENT OF
ELECTRICAL ENGINEERING

SKILLED BASED TRAININGS

54 hrs Skill Based Training Program on "PLC Programming"

Department of Electrical Engineering, SISTec Ratibad Campus successfully concluded 54 hrs Skill Based Training Program on "PLC Programming" From 6th Oct- 19th Oct' 21 in collaboration with MSME(Govt. of India),Bhopal.

A PLC(programmable logic controller) is an industrial computer that has been ruggedized and adapted for the control of manufacturing processes, such as assembly lines, machines, robotic devices and process fault diagnosis.

The following objectives were accomplished during the programme-

- Introduction to PLC Programming
- Basic Electrical Concept & Software of PLC
- Programming on NO/NC latching
- Basic Concept of Relays & Contactors
- Application of Memory Bits
- Timer function
- Counter, Flasher & Application of software

ELECTRICAL ENGINEERING

SKILL BASED TRAINING PROGRAM ON

PLC PROGRAMMING

starting from
6th Oct '21

In Collaboration with
MSME(GOVT. OF INDIA)



Course Contents

- Introduction To PLC Programming
- Basic Electrical Concept & Software of PLC
- Programming On NO/NC, Latching
- Basic Concept Of Relays & Contactors & Application Of Memory Bits
- Timer Function
- Counter, Flasher & Application Of Software



Organized by
Department of **Electrical Engineering**
SISTec-E, Ratibad, Bhopal



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ELECTRICAL ENGINEERING



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CERTIFIED SOLAR PV TRAINING PROGRAM

This training program will cover introductory part of renewable power energy scenario, solar panel and their calculation, discussion on #standalone system and their requirements, rooftop solar water heater, solar application for water pumping system, problems due to solar PV power integration and their solutions.

SOLAR PV TRAINING MODULE PROGRAM

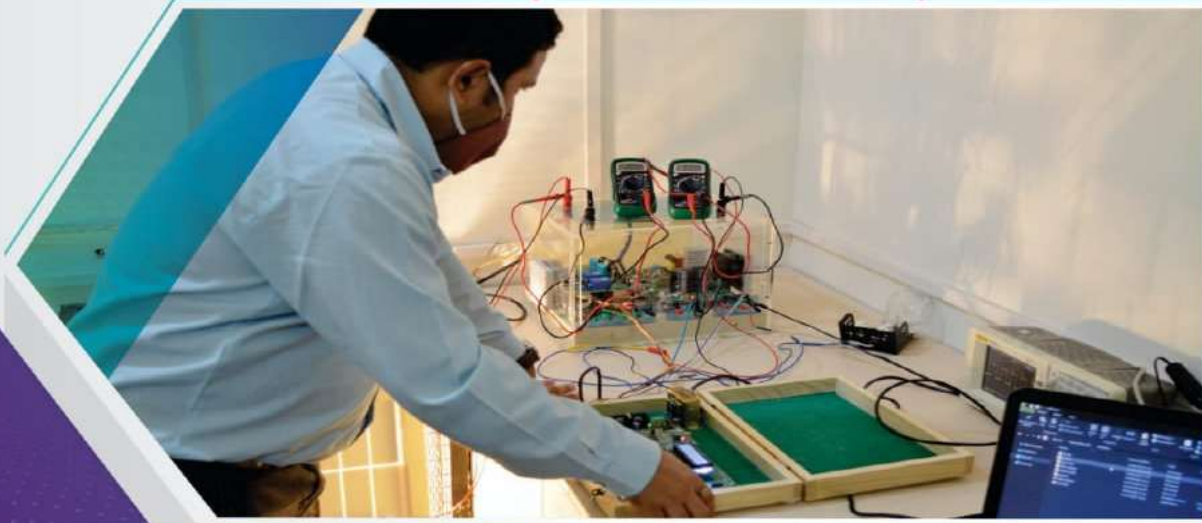
Certified Solar PV training program

starting from
06 Oct 2021

Course Content:

- 1) Introduction of renewable power energy scenario
- 2) Introduction of Solar panel and their calculation
- 3) Discussion on standalone system and their requirements
- 4) Rooftop Solar water heater
- 6) Solar Application for Water pumping system
- 7) Problems due to solar PV power grid integration and their Solutions

Program Coordinator: Dr Aayush Shrivastava



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ELECTRICAL ENGINEERING

SEMESTER BREAK TRAINING ON POWER DISTRIBUTION TECHNOLOGIES

By Dr. Ayush Shrivastava and Prof. Pankaj Sharma.

A wide range of topics were discussed as:-

Overview knowledge of bills, types of meter used, solution for defective meters Load Calculation and transformer overview & an overview of 220kV/132kV/33kV distribution system.



ELECTRICAL ENGINEERING

SEMESTER BREAK TRAINING ON ENERGY DISTRIBUTION TECHNOLOGIES

Course Content of the session will be as follows:

- 👉 Overview knowledge of bills, types of meter used, solution for defective meters
- 👉 Load Calculation and transformer overview
- 👉 An overview of 220kV/132kV/33kV distribution system
- 👉 H.T metering and rooftop solar power generation and solar calculation
- 👉 Detection of faults in the transformer
- 👉 Discussion of switchgear and protection schemes
- 👉 SISTec (R,E) transformer section and their feeder assembly
- 👉 House wiring, staircase wiring with the help of two way and three-way switches
- 👉 Overview of MATLAB Simulink model
- 👉 Study of transformer oil testing and electrical machine fault



**SKILL BASED
TRAINING
PROGRAM**

Department of Electrical Engineering
III Semester

3rd JANUARY 2022

Training Program

Program Coordinator :
Miss Kavita Kushwah

at
PDTC Centre



- Overview knowledge of bills, types of meter used, solution for defective meters
- Load Calculation and transformer overview
- Introduction to operation & maintenance of 220kV/132kV/33kV distribution system
- H.T metering and rooftop solar power generation and solar calculation
- Revenue Management
- Detection of faults in the transformer
- Discussion of switchgear and protection schemes
- Hands on session Small Transformer repairing Unit (STRU)
- Study of transformer oil testing and electrical machine faults

ELECTRICAL ENGINEERING



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🚩 Python Fundamental Training Program

Department of Electrical Engineering, SISTec-E, Ratibad has successfully concluded 4 days Python fundamental training program 2021. In this program students have learned about the fundamentals of python. training provides the fundamental knowledge of python programming to students. On the last day of training, Quiz and feedback from students was taken. This program was conducted by expert Dr. Aayush Shrivastava.



ELECTRICAL ENGINEERING

INDUSTRIAL VISITS

EE Department of SISTec Ratibad Campus successfully organized Industrial Training in Satpura Thermal Power Station, Sarni on 27 Nov 2021. Students of Electrical Engineering Department completed industrial Training at STPS, Sarni. Purpose of this industrial visit was to give a platform where students can realize similarities between class learning and industrial applications. Students gained knowledge about thermal power station, Control panel, 400 KV Substation and working of different machines. After an industrial tour, students upgraded their knowledge at a very great level. It was a good learning experience. In every department /section, students got some of the other new ideas and new thinking which was necessary for development.



ELECTRICAL ENGINEERING

EE Department of SISTec Ratibad Campus successfully organized One Day Industrial Training/visit in Electric Loco Shed, Itarsi on 30 Oct 2021.

Students of Electrical Engineering Department completed a one-day industrial Training/ Visit at Electric Loco Shed, Itarsi. Purpose of this industrial visit was to give a platform where students can realize similarities between class learning and industrial applications. Students gained knowledge about electric locomotive engine and all locomotive parts and simulation procedure of loco pilot. After an industrial tour, students upgraded their knowledge at a very great level. It was a good learning experience. In every department /section, students got some of the other new ideas and new thinking which was necessary for development. As students shared their experience about this educational trip “it was a wonderful experience to see real engineering and experience why engineers are the backbone of our society”.



ELECTRICAL ENGINEERING



Link :- <https://fb.watch/aLyQDsJj-J/>

PROJECT EXHIBITION @ ELECTRICAL ENGINEERING DEPARTMENT

Department of electrical engineering organized project exhibition of Minor Projects for 5th semester students. Teams shown and explained project hardware models to juries. There were three steps of project exhibition ,such as PPT presentation, Poster presentation and Hardware model demonstration.



ELECTRICAL ENGINEERING



✚ **Department of electrical engineering organized a skill based in-house training** for III semesters students from 25th Oct 2021 to 30th Oct 2021. Several activities were planned exclusively as per Students need. The program was coordinated by Prof. Prasant kumar, under overall mentorship of Prof. Ashish Singhal (HoD,EE).

✚ **MOU with Indian Institute of Drone**

Department Of Electrical Engineering SISTec Ratibad signed a Memorandum of Understanding with the Indian Institute of Drone, Bhopal on the occasion of Engineers day. It is a proud moment that our department and institution is the only one in Bhopal to get collaborated with such an organization that provides training in the most demanding technology, i.e Drone Technology.

The objective of this MoU:

- ✚ To impart excellence in Drone Technology.
- ✚ To produce the most competent drone pilots.
- ✚ To ingrain the highest flight safety standards in the Drone community.
- ✚ To teach how to protect life, property, nature, and self with Drone Technology.



ELECTRICAL ENGINEERING

CHHATRA VISHWAKARMA AWARD PARTICIPATION CERTIFICATE DISTRIBUTION CEREMONY

Electrical Engineering Department of SISTec-E, Ratibad has Organised Certificate Distribution Ceremony for AICTE Chhatra Vishvakarma Award-2020.



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