



Electrical world of NITTTR Chandigarh



EBUZZ

THIRD EDITION 2017 - 2019

www.nitttrchd.ac.in

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**Electrical Engineering Department
National Institute of technical
Teachers training & Research,
Chandigarh**

Director, NITTTR CHD

It gives me immense pleasure to know that the Department of Electrical Engineering, NITTTR, Chandigarh is releasing the departmental newsletter for the academic year 2017-2019. This newsletter gives the students opportunity not only to provide articles of interest on technical topics but to help keep the readers informed of recent news and upcoming technologies being developed at our institution. The department newsletter provides a platform for exposing the merits and academic achievements of the faculty and students. I hope that this culture of releasing newsletter continues forever and becomes a coated example for others to follow. I congratulate the faculty and the students for their effort to achieve excellence and wish them all the best for their future.



**PROF SHYAM SUNDAR PATRNAIK
DIRECTOR, NITTTR CHD**

Head Of Department, EE NITTTR CHD

We are delighted to launch our third edition of the EE Students' Newsletter. This newsletter is a testament to the department's commitment to imparting quality education in academia. This encompasses the right balance between research & development and teaching & learning and is very much in line with the vision and mission of NITTTR Chandigarh. This newsletter highlights many latest wonderful achievements that have brought laurels to the department both by students and staff. This newsletter will provide a glimpse of our student achievements during the period 2017-19. True education should deepen our insight, widen our horizons and create a meaningful outlook. Equally the students are fortunate enough to have been born in a free nation, with all the facilities to shape their career in such a way, that they should be part of a good and healthy society with a progressive attitude towards divinity.



**DR. LINI MATHEW
HOD EE, NITTTR CHD**

INDUSTRY SUPPORTED CENTRE OF EXCELLENCE

AN MOU WAS SIGNED BETWEEN NITTTR, CHANDIGARH AND TYPHOON HIL LTD, SWITZERLAND UNDER WHICH TYPHOON HIL LTD SPONSORED CENTRE OF EXCELLENCE IN HARDWARE IN LOOP WAS ESTABLISHED.

HIL CENTRE OF EXCELLENCE WITH TYPHOON, SWITZERLAND



ABB INDIA LIMITED, BENGALURU SPONSORED SIMULATION CENTRE OF EXCELLENCE (SCOE) FOR SIMULATION OF ELECTROMECHANICAL SYSTEMS

SIMULATION CENTRE OF EXCELLENCE WITH ABB, INDIA



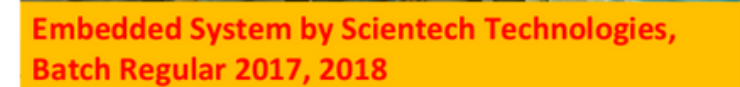
FIELD VISITS ORGANISED



PO 1,
PO3,
PO4, PO5



WORKSHOPS ORGANISED BY INDUSTRY EXPERTS



PO 1,
PO3,
PO4, PO5



Dr. Shimi S L Delivered an expert talk in the Two days workshop on outcome based education organized by Uttarakhand Technical University



1st BID HUB Workshop



Launch of Annual Refresher Programme in Teaching (ARPIT) & Leadership Refresher Academics Program (LEAP)



Expert Talks at various Events By Our Faculty





Dr. Shimi SL delivered an expert lecture on the topic ' Power Electronics for Renewable energy system' on 16th January,2019 in the IE sponsored All India workshop on ' Application of Power Electronics in Electrical Systems'' during 15th and 16th January, 2019 at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India.

Typhoon HIL Writer's Group Meeting



EXPERT TALKS BY DR. SHIMI SL

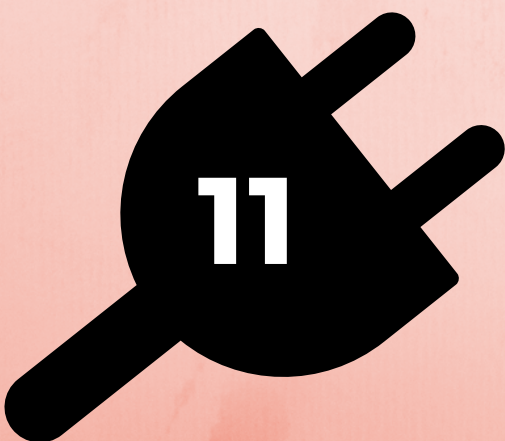
- **Delivered Expert lectures on the topic “Power Electronics - choppers, cyclo-converters, inverters ” during 30-31 March 2017 at Engineering College Bikaner, Rajasthan, India.**
- **Delivered expert lecture on the topic “Aduino and MATLAB Interface ” on 21st July, 2017 at Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur, Yamuna Nagar.**
- **Delivered two expert lectures on the topic “Introduction to Genetic Algorithm ” on 5th October, 2018 and on the topic “Simulation with Arduino” on 6th October, 2017 during the National workshop on Recent Trends in Computer Science and Electrical Engineering at Surendera Group of Institutions, Sri Ganganagar.**
- **Delivered Expert Lecture in STC on Mechatronics and Robotics on 17.07.2018 at PEC, Chandigarh on the topic Intelligent Product Design Using Microcontroller with CC+/MATLAB/Labview.**
- **Delivered an expert lecture on renewable energy systems on 11th October 2018 organized by the Solar Energy Society of India at Punjab Engineering College, Chandigarh .**
- **Delivered an expert lecture on the topic ‘ Power Electronics for Renewable energy system’ on 16th January, 2019 in the IE sponsored All India workshop on ‘ Application of Power Electronics in Electrical Systems” during 15th and 16th January, 2019 at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India.**

Dr. Ritula Thakur was the guest of honors at National Science Day on 28 February, 2017 at Chandigarh Group of Colleges Jhanjeri. Gave a keynote speech and also judged various students for their project with the theme Science & Technology for Differently Abled Persons.



EXTENSION SERVICES BY DR. RITULA THAKUR

- **Dr. Ritula thakur Participated as jury in zonal level competition (Level- I) for Industrial Control Skill- 19 held at Indo-Swiss Training Centre, Sector 30 C, Chandigarh on 11th April, 2018.**
- **Dr. Ritula Thakur Participated as jury in zonal level competition (Level- II) for Poly mechanics and automation module for the World Skills competition held at Indo-Swiss Training Centre, Sector 30 C, Chandigarh on 10th May, 2018.**
- **Dr. Ritula Thakur Delivered expert talk on “Real time simulation of FACTS Devices” in QIP sponsored Faculty Development Program on Energy Conservation and Alternative Sources of Energy at Guru Nanak Dev Engineering College, Ludhiana on 2.2.2019**
- **Dr. Ritula Thakur Coordinated National level Competition on Prototype Development TechSpardha2k19 held during 5-7 September, 2019 at NITTR, Chandigarh.**
- **Dr. Ritula Thakur attended CII-CRIKC Conclave on Industry-Academia Partnership on 7 th uly, 2017 at CII, Sector 31, Chandigarh.**
- **Dr. Ritula Thakur attended one day workshop on EDUMEET on Factory Automation organized jointly by Mitsubishi Electric India and PEC on 19 th January, 2018.**
- **Dr. Ritula Thakur conducted One day Workshop on “PLC” for students of M.E. in Electrical Engineering (Instrumentation & Control) on 26 July, 2017.**



DR. RITULA THAKUR CONDUCTED 3 DAYS WORKSHOP ON BATTERY MANAGEMENT SYSTEM IN COLLABORATION WITH OPAL-RT IN 2018.



DR. RITULA THAKUR CONDUCTED A WORKSHOP ON EMBEDDED SYSTEMS FOR REGULAR BATCH STUDENTS OF 2017 AND 2018 IN COLLABORATION WITH SCIENTECH TECHNOLOGIES IN 2017





1578
Participants



4.7 out of 5



In 2018, NITTTR, Chandigarh was the first one to launch this Course in SWAYAM portal among 75 NRCs in all over India



Completed in October, 2019 with an enrollment of more than 8233 participants

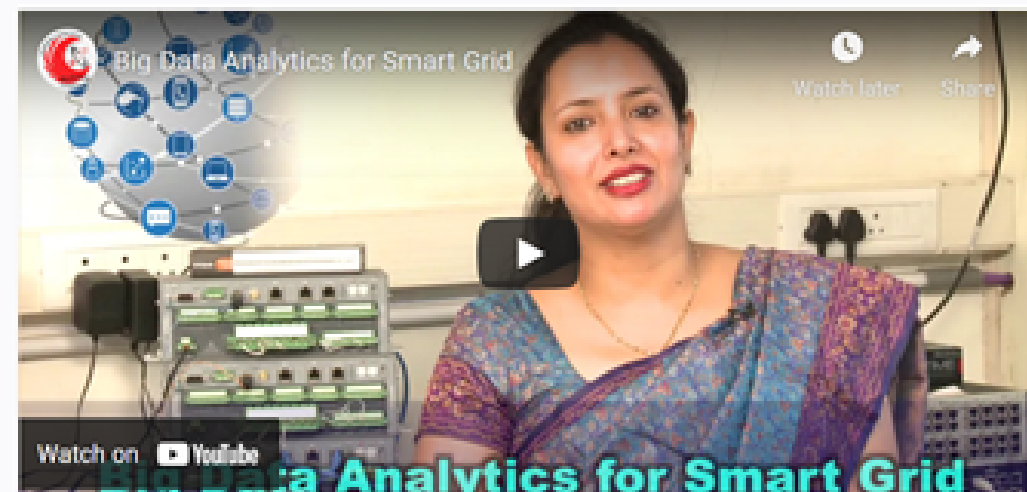


DR. RITULA THAKUR SUCCESSFULLY COORDINATED ARPIT BASED MOOCS COURSE ON “BIG DTAA ANALYTICS FOR SMART GRID” WITH AROUND 8300 ENROLLMENTS IN 2019 AND ALSO SUSCESSFULLY RERUN THE COURSE IN 2020 DUE TO HUGH DEMAND OF THE COURSE.

Big Data Analytics For Smart Grid

By Dr. Ritula Thakur | National Institute of Technical Teachers Training & Research, Chandigarh

Learners enrolled: 1747



Summary

Course Status :	Ongoing
Course Type :	Core
Duration :	8 weeks
Start Date :	01 Dec 2020
End Date :	31 Mar 2021
Exam Date :	10 Apr 2021 IST
Enrollment	31 Dec 2020
Ends :	
Category :	o Annual Refresh

DR. RITULA THAKUR TOOK TWO LECTURES ON “APPLICATIONS OF WAVELETS IN BIOMEDICAL” IN TEQUIP SPONSORED FDP IN UNITED COLLEGE OF ENGINEERING & RESEARCH, ALLAHABAD ON 2ND AND 3RD MAY, 2018.

DR. RITULA THAKUR DELIVERED LECTURE ON “PLC AND INDUSTRIAL AUTOMATION” TO PARTICIPANTS FROM DIFFERENT COUNTRIES IN MANAGEMENT DEVELOPMENT PROGRAM ON “PLC AND INDUSTRIAL AUTOMATION” SPONSORED BY MINISTRY OF EXTERNAL AFFAIRS AT CSIO/ISTC, CHANDIGARH ON 10TH SEPTEMBER, 2018.



DR. RITULA THAKUR & DR. SHIMI S L CONDUCTED 4-DAYS WORKSHOP ON “HANDS ON PRACTICES FOR POWER QUALITY MEASURING INSTRUMENTS” IN COLLABORATION WITH YOKOGAWA INDIA LTD. FOR M.E. ELECTRICAL (I&C) STUDENTS OF BATCH 2017 AND 2018 FROM SEPTEMBER 25- 28, 2018.



DR. RITULA THAKUR AND DR. SHIMI S.L ATTENDED TWO WEEKS TRAINING PROGRAMME ON IOT & A.I AT I.I.T KANPUR IN 2019



PERSONALITY DEVELOPMENT WORKSHOP WAS CONDUCTED FOR BATCH 2016 & 2017 IN COLLABORATION WITH RISE N SHINE



INTERNATIONAL EXPOSURE OF DR. SHIMI SL

- **ATTENDED TFI@10 CONCEIVE-DESIGN-IMPLEMENT-OPERATE (CDIO) FORUM 2017, SPI SINGAPORE.**



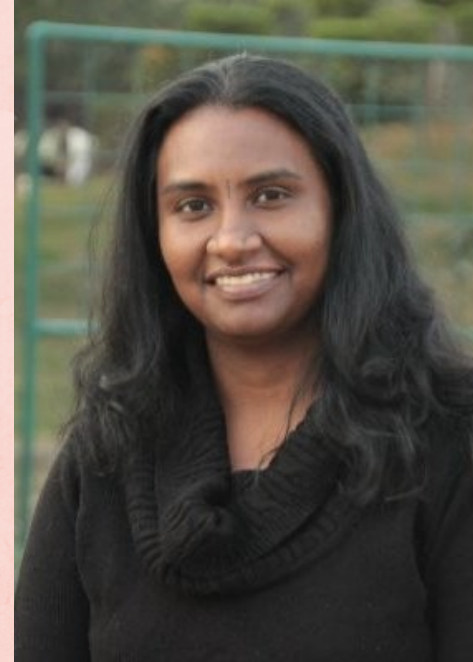
- **PRESENTED A PAPER ON HARDWARE IMPLEMENTATION OF POWER QUALITY IMPROVEMENT IN PHOTO-VOLTAIC FED CASCADED H-BRIDGE MULTILEVEL INVERTER, 27TH IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS HELD IN CAIRNS, QUEENSLAND, 12-15 JUNE 2018**



TEAM

NOTE FROM THE EDITOR

I am very happy to present to you the newsletter of the Electrical Department of NITTTR, E-buzz (2021-2022). This newsletter is a collective effort of the students of our department to bring out to the world the various advancements and achievements. I hope that you like our work and appreciate the efforts done by our students



Sub Editors



PRETTY GUPTA



SUMIT RAI