



**BABU BANARASI DAS**

**INSTITUTE OF  
TECHNOLOGY & MANAGEMENT**

**WE**

**ARE**

**HERE**

**TO GET YOU UPDATED**

DEPARTMENT OF

**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**E-MAGAZINE**

**NO RESISTANCE CAN DROP OUR POTENTIAL**

**VOLUME 1**

**(2019-20)**



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# CHERISHING FOUNDERS



**LATE BABU BANARASI DAS JI**  
(1912 - 1985)  
**EX.CHIEF MINISTER**  
**UTTAR PRADESH**

**“TO PROVIDE AN OPEN OPPORTUNITY TO THE YOUNG GENERATIONS FOR EVOLVING THEIR CORE COMPETENCIES AND TO BUILD THEIR CAREER AS WORLD CLASS PROFESSIONALS WITH BROAD BASED FOUNDATION, IN-DEPTH KNOWLEDGE AND VERSATILE PERSONALITY TO MEET THE CHALLENGES OF GLOBAL ECONOMY.”**

**~BABUJI’S VISION**

**BABU JI WAS A FREEDOM FIGHTER. LATER HE JOINED JANATA PARTY AND WENT ON TO BECOME THE CHIEF MINISTER OF UTTAR PRADESH. BABUJI ALWAYS SET EXAMPLES THROUGH HIS ACTION AND INSPIRED PEOPLE TO NOT GIVEUP IN THE FACE OF ADVERSITY.**





**Late Dr. Akhilesh Das Gupta**  
Founder BBD-Educational Group  
EX-MEMBER OF PARLIAMENT  
(RAJYA SABHA)  
EX-MAYOR LUCKNOW

**“WE NOT ONLY MAKE TECHNOCRATS AT BBD, WE CHUM  
OUT CITIZENS OF THE WORLD, PERFECT IN ALL RESPECTS,  
BE IT LEADERSHIP, COMPETENCE, CONFIDENCE, COMMUNI-  
CATION, MORAL OR KNOWLEDGE”**

**-AKHILESH DAS GUPTA JI'S VISION**

**Mrs. Alka Das**

**Chancellor , BBDU , Lucknow  
Co-founder BBD GROUP OF EDUCATION  
ADVOCATE and SOCIAL WORKER**



**MRS. ALKA DAS HAS BEEN THE DRIVING FORCE BEHIND HER HUSBAND  
DR.AKHILESH DAS GUPTA. SHE IS A DETERMINED AND PASSIONATE  
LADY. HER FATHER, LATE JUSTICE D.P GUPTA , HELD HIGH POSITIONS IN  
THE STATE OF RAJASTHAN AS ITS GOVERNOR AND CHIEF JUSTICE. SHE  
IS A LEGAL LUMINARY WHO STANDS UP FOR SOCIAL JUSTICE AND WOMEN  
EMPOWERMENT. AS A CO-FOUNDER OF BBD GROUP OF EDUCATIONAL  
INSTITUTIONS, MRS.ALKA DAS LEAVES NO STONE UNTURNED TO NUR-  
TURE STUDENTS INTO BECOMING THE BEST VERSION OF THEMSELVES .**



**MR. VIRAJ SAGAR DAS**  
**PRESIDENT , BBD GROUP**  
PRESIDENT , UP BADMINTON ASSOCIATION  
VICE PRESIDENT , INDIA BADMINTON ASSOCIATION



**MS. SONAKSHI DAS**  
VICE-PRESIDENT , BBD GROUP

Babu Banarasi Das University  
Lucknow



# MESSAGE FROM THE DESK

## DIRECTOR'S MESSAGE

Dear Readers,

It gives sheer pleasure to see that inaugural issue of Electronics & Communication Engineering departmental Magazine. This departmental magazine provides platform to showcase department's major activities, achievements, and contributions to their stakeholders including students, parents and outside world.



**Prof.(Dr.) BHAVESH KUMAR CHAUHAN  
DIRECTOR, BBDITM**

On this occasion, I congratulate all department faculty, staff and students for their efforts, initiatives and activities undertaken by them in previous semesters. I also congratulate HoD Dr. Shailendra Tahilayani for leading the initiative in this regard for this initiative of departmental Magazine to highlight their achievements and major activities during session 2019-20.

I would also congratulate to editorial team of this magazine for their excellent team work. I am confident Editor Prof. Pankaj Verma and associated Students of Editorial team will also come out with another issue in future.

Jai Hind

Prof (Dr.) Bhavesh Kumar Chauhan  
DIRECTOR  
BBDITM

# MESSAGE FROM THE DESK

## HOD'S MESSAGE

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT IS COMMITTED IN PROVIDING AN OUTCOME BASED EDUCATION TO HAVE AN ENVIRONMENT FOR DEVELOPING CRITICAL THINKING AND PROBLEM-SOLVING SKILLS. THE PRIMARY MISSION OF OUR DEPARTMENT IS TO PREPARE THE STUDENTS FOR A SUCCESSFUL PROFESSIONAL CAREER, TO PROPERLY FOLLOW THE CURRICULUM WHICH IS STRUCTURED TO PROVIDE EACH STUDENT WITH A SOUND BACKGROUND IN ENGINEERING SCIENCE AND PROVIDE A THOROUGH FOUNDATION FOR THE ANALYSIS AND DESIGN OF ELECTRONICS, COMPUTER AND DIGITAL SYSTEMS.



Prof.(Dr.)SHAIENDRA TAHILYANI  
HOD (ECE)

“TO SUCCEED IN LIFE AND ACHIEVE RESULTS, YOU MUST UNDERSTAND AND MASTER THREE MIGHTY FORCES - DESIRE, BELIEF, AND EXPECTATION.” – DR. A. P. J. ABDUL KALAM

I FEEL EXTREMELY ELATED ABOUT THE CONCEPTUALIZATION OF DEPARTMENTAL MAGAZINE WHICH SHALL PROVIDE A PROPER GLIMPSE OF THE EVENTS AND ACTIVITIES UNDERTAKEN THE DEPARTMENTS IN THIS SESSION.

I, ON BEHALF OF THE DEPARTMENT, EXTEND MY BEST WISHES TO FOR FIRST ISSUE OF EC DEPARTMENT MAGAZINE.

MAY GOD BLESS YOU ALL

PROF (DR.) SHAIENDRA TAHILYANI  
HOD (EC)  
BBDITM



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Department of electronics and communication was established in 1998. The department emphasizes on proactive learning to abreast the student with the modern technological world. Strong emphasis is on industrial exposure so that the student can adapt and get aware of the working environment.

## CORE VALUES

1. Integrity: The imparting of knowledge has to be done in a free and honest environment, adhering the standards of ethics in all its activities.

2. Excellence: The commitment to excel in all spheres of activities, by continuous internal and external introspection for betterment.

## INSTITUTION VISION

“To become a leading institute of providing professionally competent and socially responsive technocrats with high moral values”

## INSTITUTE MISSION

M1. To create an eco-system for the dissemination of technical knowledge, to achieve academic excellence.

M2. To develop technocrats with creative skills and leadership qualities, to solve local and global challenges.

M3. To impart human values and ethics in students, to make them socially and Eco-friendly responsible.

## Department of ECE Vision

To nurture successful engineers who are well-versed not only in technical engineering skills, but also in soft skills such as communications, ethics, entrepreneurial thinking, Innovation and professionalism

## DEPARTMENT OF ECE MISSION

M1: Continuous synchronization with latest techniques to attain global heights of excellence.

M2: To adopt the best pedagogical method in order to enhance understanding of theoretical concepts in practical scenario.

M3: Inculcate professional ethics self learning capability, entrepreneurial skills and leadership qualities for overall professional success.

## Program Educational Objectives

PEO 1: Graduate of the program shall have an academic environment to make him aware of advanced technological growth leading to lifelong learning and up gradation of his skills needed for a successful professional career, leadership qualities and technical excellence for serving the society.

PEO 2: Graduate of the program shall have sound knowledge of the fundamental and advanced concepts of electronics and communication engineering to analyze, design, develop and implement the concepts.

PEO 3: To inculcate in students professional and ethical attitude with a strong character and to uphold the spiritual and cultural values, effective communication skills, team work skills, multidisciplinary approach and to develop an ability to relate engineering issues to broader social context.



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## FACULTY OF ECE

**Dr. Shailendra Tahilyani**

B.E, M. Tech, PhD-

(Electronics and Communication Engg.)

Professor & Head – Department of Electronics and Communication Engineering

Experience: 21 Years+

Area Of Interest: Analog/Digital Circuits, Data Communication and Networking, Cognitive Radio, Genetic Algorithm, Big data Analytics, Cyber security, Robotics, Wireless Communications.



### Additional Assignments:

1. Member Admission Committee BBD Group, Lucknow having an overall strength of 20000+ students since 2009- till date.
2. Chief Coordinator (Admin.), BBD Group, Lucknow from August, 2011 till June, 2017.
3. Member Purchase Committee at BBD Group, Lucknow have established Labs in the campus from year Nov,1999 till Nov,2015 covering more than 70 labs of different streams of Engineering.
4. Coordinator in various programs organized in the Campus including Workshops, Faculty Development Programs and student activities.
5. Coordinator in various inspections of AICTE and UGC.

### Achievements:

- ☒ Author of 4 books in the field of Engineering & Technology.
- ☒ 10 International/National papers published in journals.
- ☒ Member of IEEE
- ☒ IBM certified E-Commerce professional.
- ☒ Attended Four (4) National Level Faculty Development Programs.
- ☒ Completed E&ICT Online Certifications.
- ☒ Appointed as a jury member in state level science exhibition organized by government of Uttar Pradesh.
- ☒ Recorded lectures at Dr. A P J Abdul Kalam Technical University to be tele-casted on Swayamprabha channel.

### Consultancy:

- ☒ Worked as consultant UP Police in their modernization Project.
- ☒ Worked as consultant in Army Cantonment Board, Lucknow for Academic Guidance.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## FACULTY OF ECE

**Prof. Amit Kumar Singh**

**B. Tech, M. Tech**

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow



- ☒ B.Tech and M.Tech from Dr. APJAKTU.
- ☒ Associated with BBD Educational Group since 2008.
- ☒ More than 12 Years of Teaching Experience in teaching.
- ☒ Area of Interest- Basic Electronics, Network Analysis And Synthesis , Digital Logic Design, Analog Communication, Digital Signal Processing, Control System

### Achievements –

- ☒ Awarded with Best Faculty Award from BBDNITM in 2019 on the occasion of Teacher's day celebration at Dr. Akhilesh Das Gupta Auditorium.
- ☒ Online certification course on "Working With OP-AMP" by E & ICT Academy, IIT Kanpur.
- ☒ NPTEL-AICTE online FDP certification course in Accreditation and Outcome based Learning with a score of 80%
- ☒ Attended many Faculty Development Programme (FDP), Seminars, webinars and Short Term Course.



**Prof. Rajeev Singh**

**B. Tech, M. Tech**

Prof. Rajeev Singh B. Tech, M. Tech  
Assistant Professor & DI, Department of Electronics & Communication Engineering, BBDITM Lucknow

- ☒ B.Tech (ECE) from AKTU, Lucknow
- ☒ M.Tech (Systems Engineering) from IIT-BHU, Varanasi.
- ☒ Associated with ECE Department of BBDNITM since 01Aug 2009 and more than 11 years of teaching experience.
- Area of interest – Integrated Circuits, Communication Systems

### Achievements –

- ☒ 1. GATE qualified in 2006 and 2007.
- ☒ 2. E & ICT Online certification in Operational Amplifier.
- ☒ 3. Completed online course with certification from NPTEL in Accreditation and Outcome Based Learning
- ☒ 4. Student Representative of Student's Council of Banaras Hindu University for session 2008-09.
- ☒ International conference – 2
- ☒ FDP attended – 03



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## Prof. Kalyan Krishna Awasthi

**B.Tech, M. Tech**

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow



- ☒ B.Tech (ECE) from BBDNITM, Lucknow
- ☒ M.Tech (Digital Communication) from AKTU
- ☒ Total Teaching Experience of 12 Years
- ☒ Area of interest – Digital Communication, Network Analysis and Synthesis

### Achievements –

- ☒ E & ICT Online certification in Operational Amplifier, Antenna and Python.
- ☒ Completed online course with certification from NPTEL in Accreditation and Outcome Based Learning
- ☒ Appointed as a jury member in State Level Science Exhibition organized by the Government of Uttar Pradesh
- ☒ Appointed as an expert in the interview panel for the JE recruitment in UPPCL
- ☒ Started a YouTube channel for teaching students during Lockdown.
- ☒ International publications – 4
- ☒ Workshop – 2
- ☒ FDP – 10
- ☒ Recorded my lecture in Dr. A P J Abdul Kalam Technical University to telecast on Swayam-prabha channel.



## Prof. Rupali Agarwal

**B. Tech, M. Tech, Ph.D (submitted)**

Associate Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow

- ☒ B.Tech (ECE) from IPEC, Ghaziabad
- ☒ M.Tech (Electronics) from H.B.T.I, Kanpur
- ☒ Submitted Ph.D. thesis at Dr. APJ AKTU, Lucknow.
- ☒ Girls' hostel Provost in BBD campus.
- ☒ Total 15 years of Industrial and academic experience.
- ☒ Life time member of IEOM international society, Singapore

### Achievements –

- ☒ Expertise in various software tools like MATLAB, Simulink, OPL Studio and Cadence CAD tools.
- ☒ Area of specialization: Analog Electronics and Digital Electronics, Wireless communication with main emphasis on wireless MIMO, Cognitive Radio and Co-operative communication.
- ☒ Along with one book, more than 15 research papers published in International journals and conferences, most of them are SCI, Scopus and ESCI indexed. Two more papers recently communicated in SCI journals.
- ☒ Reviewer in- International Journal of Communications Systems, Wiley Publications, IEEE Internet of Things Journal & International Journal of Electronics (Taylor & Francis).
- ☒ Along with three on campus FDPs in prestigious institutes like IIM, IET, BBD and short term course organized by NITTR, also attended 45 webinars, 10 online quizzes, 8 online faculty development programs and 2 online workshops in session 2019-20. Completed 8 weeks course on “Accreditation and Outcome based Learning” conducted by NPTEL-AICTE and three online certification course from E&ICT, IIT Kanpur.



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## Prof. Navneet Kumar Pandey

**B. Tech, M. Tech**

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow



☒ B.Tech (ECE) from GBTU (now Dr. APJAKTU) Lucknow

☒ M.Tech (Electronics Engineering) from Dr. A. P. J. Abdul Kalam Technical University.

☒ Area of interest – Basic Electronics, Microprocessor & Microcontroller, Data Structure and Digital Electronics

Achievements –

☒ GATE qualified in 2011.

☒ E & ICT Online certification in Basic Electronics, Operational Amplifier, Microprocessor & Microcontroller and Python Programming

☒ Completed online course with certification from NPTEL in Accreditation and Outcome Based Learning

☒ International publications – 3

☒ International conference – 1

☒ Workshop – 1

☒ FDP – 8

☒ Providing online video lecture through social networking sites (YouTube) so that each and every topic must understand by each student.

☒ Recorded my lecture in Dr. A P J Abdul Kalam Technical University to telecast on Swayam-prabha channel so as in lockdown period student acquired fruitful knowledge.



## Prof. Yamini Yadav

**B. Tech, M. Tech**

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow

☒ B. Tech (Electronics & Communication Engineering) From UPTU Lucknow.

☒ M. Tech (Laser Technology) From IIT Kanpur.

☒ Associated with BBD Educational Group since 2009.

☒ Associated with Department of Electronics & Communication Engineering, BBDITM Lucknow since 2014.

Achievements –

☒ Published various Research Papers in prestigious Journals and conferences including One in IEEE Transactions on Medical Imaging.

☒ Successfully completed various MOOCs courses from Electronics and ICT Academy - IIT Kanpur and become one of the Topper for the Course “Working with OP-Amp”.

☒ Certified as the Elite Silver for the NPTEL course “Accreditation and Outcome Based Learning” in 2019-20.

☒ Guided various UG Projects.

☒ Continuously participating in various Faculty Development Programme (FDP), Workshops, Short Term Training Programme (STTPs), Seminars and Conferences for the Academic and Professional Upgradation.



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## Prof. Ravi Shankar B. Tech, M. Tech

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow



- ☒ B. Tech (Electronics & Communication Engineering) From UPTU Lucknow.
- ☒ M. Tech (Nano Technology) From IIT Roorkee.
- ☒ Associated with Department of Electronics & Communication Engineering, BBDITM Lucknow since 2014.
- ☒ More than 10 Years of Teaching Experience in AICTE Affiliated Engineering Institutes.
- ☒ Research Area is Micro- and Nano- scale MOSFET Devices.
- ☒ Expertise in: Embedded System, Electronic Devices & Circuits and Optical Communication
- Achievements –**
- ☒ Published Research Papers including One in IEEE Transactions.
- ☒ Successfully completed various MOOCs courses from Electronics and ICT Academy - IIT Kanpur and Become Top Ranker for the Course “Microprocessor and Microcontroller”.
- ☒ Certified as the Elite Gold Topper for the NPTEL course “Accreditation and Outcome Based Learning” in 2019-20.
- ☒ Guided various UG Projects as well as one Unique Project for Smart India Hackathon (SIH)-2020.
- ☒ Continuously enhancing and upgrading Academic as well as Research skills through active participation in various Faculty Development Programme (FDP), Workshops, Short Term Training Programme (STTPs), Seminars and Conferences in Online as well as in Offline modes.



## Prof. Diwakar Singh B.Tech, M. Tech

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow

- ☒ B.Tech (ECE) from GBTU (now Dr. APJAKTU) Lucknow
- ☒ M.Tech (Digital Systems) from MMMEC (now MMMUT) Gorakhpur.
- ☒ Associated with ECE department of BBDNITM since September 2014 and more than 5 years of teaching experience.
- ☒ Area of interest – Basic Electronics, Communication Systems

### **Achievements –**

- ☒ GATE qualified in 2011.
- ☒ E & ICT Online certification in Basic Electronics, Operational Amplifier and Control Systems.
- ☒ Completed online course with certification from NPTEL in Accreditation and Outcome Based Learning
- ☒ International publications – 6
- ☒ International conference – 1
- ☒ Workshop attended – 2
- ☒ FDP attended- 10

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## Prof. Pankaj Verma B. Tech, M. Tech

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow

- ☒ B. Tech (Electronics & Communication Engineering) from IET, Lucknow.
- ☒ M. Tech (Digital Electronics & Systems) From KNIT, Sulatanpur.
- ☒ Associated with BBD Educational Group since 2008.
- ☒ More than 14.5 Years of Experience in teaching.
- ☒ Research Area is Ultra low power circuit design for Digital Circuits.
- ☒ Membership of International Association of Engineers.
- ☒ Expertise in: Communication Engineering and Optical Fiber Communication.

### Achievements –

- ☒ Published 6 Research Papers in International Journals/National Journals and Conferences.
- ☒ Successfully completed 3 MOOCs courses from Electronics and ICT Academy - IIT Kanpur.
- ☒ Guided various UG Projects.
- ☒ AICTE recognized FDP attended = 08
- ☒ Regularly attending in various Faculty Development Programme (FDP), Workshops, Short Term Course, Seminars and Conferences for the Academic and Professional growth



## Dr. Abhimanyu Kumar Yadav B. Tech, M. Tech, Ph.D

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow

- ☒ BE in Electronics and Communication Engineering, Anna University
- ☒ PhD (Solar Photovoltaic Engineering) from PDP University
- ☒ Association with Professional body- Member-IEEE(to be renewed), IEANG
- ☒ Joined BBDITM in August 2019
- ☒ Number of UG Projects Guided: 05

### Achievement:

- ☒ Certification of appreciation for One District One Project (ODOP) by Director, BBDITM
- ☒ Patent: Automatic Vehicle Speed Control System, Appl.No-201721007292-2018
- ☒ FDP Attended on Machine learning organised by BBDNITM CSI Chapter on 27th & 28th May 2020.
- ☒ IIC eSessions online sessions attended (17-sessions).

- ☒ NPTEL/Other Certifications:
  1. Introduction to Internet of Things.
  2. Design of photovoltaic systems.
  3. Machine Learning with Python-IBM Initiative

☒Publication : 02



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## Prof. Keerti Mishra B. Tech, M. Tech

Assistant Professor, Department of Electronics & Communication Engineering, BBDITM Lucknow

- ☒ B. Tech from BBDNITM, Lucknow in Electronics and Communication Engineering.
- ☒ M. Tech from AIET, Lucknow in Electronics Instrumentation and Control.
- ☒ Ph.D Pursuing from BBDU in Electronics Engineering.
- ☒ More than 10 Years of Experience in teaching.
- ☒ Working as an Assistant Professor since July 2019.



### Achievements –

- ☒ Attended 7 Faculty Development Program, 50 webinars & 7 online quizzes.
- ☒ Certified as the Elite Silver for the NPTEL course “Accreditation and Outcome Based Learning” in 2019-20.
- ☒ International Journals – 03
- ☒ National Conference attended- 01

## STAFF MEMBERS OF ECE DEPARTMENT

1. Mr. Ghatotakach Tripathi - Lab Assistant
2. Mr. Sanjay Kumar- Lab Assistant
3. Mr. Santosh Kumar- Lab Technician
4. Mr. Om Prakash Maurya- Lab Technician
5. Mr. Devendra Kumar - Lab Technician
6. Mr. Sabha Jeet Verma - Lab Demonstrator
7. Mr. Alok Kumar Maurya - Lab Demonstrator
8. Mr. Satya Prakash Shukla - Lab Demonstrator

# INTERNAL SMART INDIA HACKATHON

Institution's Innovation Council (IICs) is established to systematically foster the culture of Innovation in all Higher Education Institutions (HEIs) by Ministry of Human Resource Development (MHRD), Govt. of India on November 21, 2018 at AICTE HQ

New Delhi. With this objective, the department conducted the Internal Smart India Hackathon (SIH2020) on January 3, 2020 and the teams were judged by the internal jury panel comprising of department faculties



S.NO	SIH2020 Problem statements	Mentor
1	Landslide monitoring through drone	Mr.Diwakar Singh
2	Water quality Measuring device	Ms.Keerti Mishra
3	Classroom attendance display	Mr.Amit Kumar Singh
4	Smart building energy management system using machine learning	Mr.Rajeev Singh
5	IOT based solutions for monitoring of pollution through pesticides in fresh fruits and vegetables	Mr.Kalyan Krishna Awasthi
6	Smart management of street light for energy conservation	Mr.Abhimanyu Kumar Yadav
7	IOT based sensors can be used to determine the microcontroller runtime	Ms.Yamini Yadav
8	Classroom attendance display	Mr.Ravi Shankar
9	Artificial intelligence enabled robotic trash boat to drive & harvest floating trash from urban drain	Ms.Rupali Agarwal
10	Smart traffic monitoring and controlling	Mr.Pankaj Verma



# VISIT OF PROF.(DR.)KOREAN TO BBDNITM CAMPUS

Prof.(Dr.) Koren is currently a Professor of Electrical and Computer Engineering at the University of Massachusetts, Amherst. He is a visiting professor at the Instituto De Informatica, Universidade Federal do Rio Grande do Sul (UFRGS), Brazil. His current research interests are fault-Tolerant Systems, VLSI Yield and Reliability, secure cryptographic systems and computer Arithmetic. He publishes extensively and he is an Associate Editor of the Sustainable Computing Informatics and Systems Journal. Dr. Koren is a Fellow of the IEEE and a Master of the DeTao Masters Academy, China. He has been a Co-Guest Editor for several IEEE Transactions on Computers special issues on Fault Diagnosis and Tolerance in Cryptography,

Sept. 2006, on Computer Arithmetic, July 2000, and on High Yield VLSI Systems, April 1989. Previously he held positions with the Technion - Israel Institute of Technology, Haifa, the University of California at Berkeley, the University of Southern California, Los Angeles and the University of California, Santa Barbara.



He has been a consultant to several companies including Analog Devices, AMD, Digital Equipment Corp., IBM, Intel, National Semiconductor and Tolerant Systems. He also served as General Chair, Program Chair and Program Committee member for numerous conferences.

Prof.(Dr.) Koren visited the BBDNITM Campus on 3rd Feb, 2020. He was welcomed & felicitated by Dr. Bhavesh Kumar Chauhan Director, BBDNITM, Lucknow. Prof.(Dr.) Koren interacted with faculty fraternity of the Electronics and Communication departments. Later in the day, a presentation on the topic Defect and fault tolerance Multi-core systems was given by him in the Dr. Akhilesh Das Gupta Auditorium to the whole faculty fraternity and students of BBDNITM.





# UTKARSH 2K20

## SPORTS ZONE

Students of Electronics & Communication Engineering showed exuberant sports spirit and brought laurels when they won gold and silver medals at state and zonal level sports tournaments like those of Cricket Tournament at IIT Kanpur, IIT BHU and AKTU Sports Fest 2019.

Aman Gupta (EC, 3rd year), Sanjay Yadav (EC, 3rd year), Samarth Saxena (EC, 2nd year), Himanshu Yadav (EC, 3rd year), AdarshPratap Singh EC, (2nd year) and Ratul Pandey (EC, 4th year) took active participation in Sports Fest 2019.

AdarshPratap Singh EC, (2nd year) and Ratul Pandey (EC, 4th year) won Gold medal in Dr. A.P.J. Abdul Kalam Sports Fest – 2019 on 22nd October and 23rd October, 2019 at BBDNITM, Lucknow

**Ratul Pandey (EC, 4th year) won Gold medal in Dr. A.P.J. Abdul Kalam Sports Fest – 2019 on 22nd October and 23rd October, 2019 at BBDNITM, Lucknow**





# UTKARSH 2K20

## STUDENT OF THE YEAR AWARD



Ratul Pandey Receiving Award from our honorable founders

Before you can achieve anything in life, you have to know what you want. You have to decide that whatever you're doing is important to you, that it's worth it. And if it isn't, it's time to set new, more meaningful goals.

If you're passionate about it, about really living out your purpose, you'll be more likely to commit—to buckle down and set powerful goals. MR.Ratul Pandey of ECE department won this award





# EFFORTS OF DEPARTMENT DURING COVID-19

The department of Electronics and Communication Engineering, BBDNITM, LUCKNOW strives to be active and supportive in this COVID-19 pandemic crisis. The faculty members of ECE Department under the guidance of Prof.(Dr.) Shailendra Tahilyani (Head of Department) is leaving no stone unturned in ensuring running of Academics smoothly and getting every students satisfied.

The faculties of the Department are adopting the innovative Teaching and Learning methodologies in approaching the current semester students. Scheduled time table is strictly being followed by faculties of the department during this period and every effort is being take so as the syllabus is completed in stipulated time. The faculties of the department are reaching out to students with their complete Hand-written notes, PPTs, PDFs and every other materials (Audio and Video clippings etc.) required by them. Simultaneously the students are being assessed and evaluated from time to time for their progress in learning. The interactive sessions on various platforms such as ZOOM and Google Classroom is being taken up on regular scheduled basis. Apart from all this, the faculties along with Head of the Department are motivating students to participate in online internal completions being held within the institute.

Faculties along with these efforts are also ensuring in updating themselves with the state of the art teaching and learning methodologies by exploring various teaching platforms, improving the pedagogy and equipping themselves with advance technical skills by attending the technical and non technical webinars. Apart from this, the faculties have donated an amount of Rs. One thousand per faculty to government relief fund and also have registered in Aarogya Setu App for being aware and supportive to the society.



Overall, the department is providing a very positive and nurturing environment to the students during this pandemic crisis in increasing their subjective knowledge and preparing them for future exams and competitions ahead.

## AWARENESS MESSAGE

Students of (2nd year) the department enthusiastically participated in creating awareness in the society regarding the pandemic COVID-19 by creating Poster, videos on 21st April, 2020 and 27th April respectively. They also participated in events/competitions conducted by other departments of BBDNITM, Lucknow. The awareness poster about COVID- 19 is designed by 2nd year students. Garima Tiwary and Manas Nigam created the COVID-





# EFFORTS OF DEPARTMENT DURING COVID-19

## DEPARTMENT'S MESSAGE

Corona virus disease (COVID-19) is an infectious disease caused by a newly discovered Corona virus. Most people infected with the COVID-19 virus will experience mild to moderate respiratory illness and recover without requiring special treatment. Older people, and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness. The best way to prevent and slow down transmission is be well informed about the COVID-19 virus, the disease it causes and how it spreads. Protect yourself and others from infection by washing your hands or using an alcohol based rub frequently and not touching your face. The COVID-19 virus

spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes, so it's important that you also practice respiratory etiquette (for example, by coughing into a flexed elbow). At this time, there are no specific vaccines or treatments for COVID-19. However, there are many ongoing clinical trials evaluating potential treatments.

'WE ALL STAND TOGETHER IN THIS FIGHT'....

The faculties teaching methodology and their adoptions to various Teaching and Learning tools are described in the following ways:

The education system in the country came to a halt with the spread of Corona Virus epidemic, it became necessary to avoid physical presence in academic institutions, the students and faculty were made to go home in order to stop the further spread of this deadly virus. In view of this scenario it became necessary to switch to online modes of operation.



## INTERACTIVE GOOGLE CLASSROOM AND LMS FOR STUDENTS

The faculties of the department completed the syllabus on time and prepared the students for the upcoming end semester exam. The interactive back to back Zoom classes /Google meet sessions were rigorously taken by the faculties on scheduled time table basis and record of the same is prepared. The submission of the assignments and Quizzes by the students and sharing of Unit-wise notes by the faculties after every chapter is done through Google classroom platform.

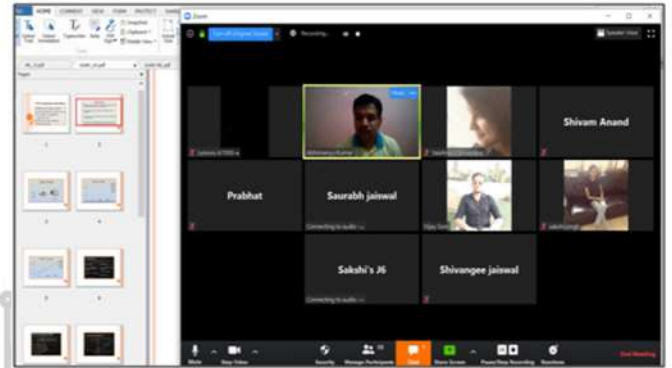




# EFFORTS OF DEPARTMENT DURING COVID-19

The department of Electronics and Communication Engineering took an initiative in order to provide proper education to the students in time of crises; various measures were taken in order to maintain the quality of education. Some initiatives taken are mentioned as under:

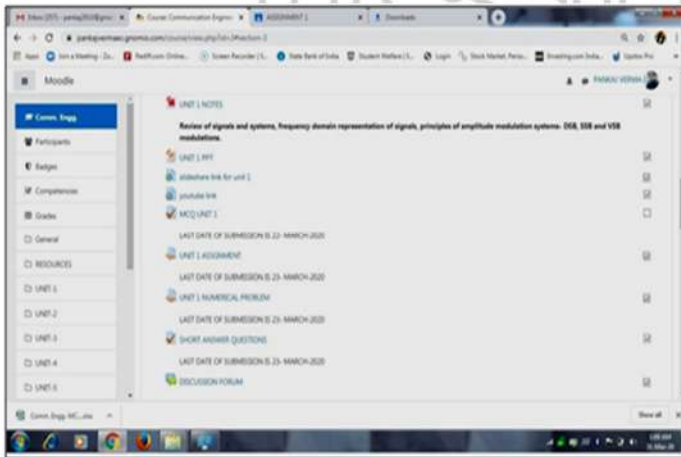
**Initiative 1: Communication Channels between Students and Faculty members were re-modeled, efforts were made by the faculty and staff members to establish a good communication channel with the students in order to share notes, lectures and right information so that no confusion should prevail. Example- Whatsapp groups were utilized for this purpose and each and every information/query was shared and resolved.**



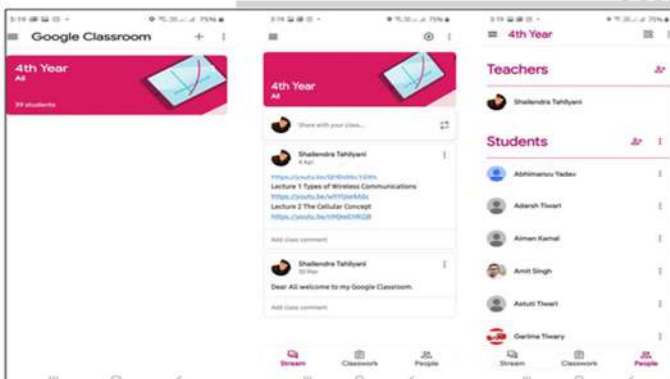
**Initiative 2: Regular meeting were conducted among the faculty and staff members in order to maintain proper communication and strategy making in terms of classes, online schedules, content sharing and to keep a proper track of all online activities to be conducted for the benefit of the students**

**Initiative 3: The teaching learning process was categorized into three methods of teaching mentioned as under:**

**a. Interactive classes- Interactive classes are duplex mode of communication between faculty and students. Zoom classes were conducted and proper interaction with the students was established.**



**b. Study Material Sharing: Google classrooms and LMS were used to share notes, quizzes and conduct test online. Evaluation and assessment was also conducted**



**Initiative 4 FDP and Webinars Attended- Self improvement and updating becomes very necessary during the times of crises like COVID 19. ECE faculty properly updated themselves with the scenario by attending webinars and online FDPs that play an important role in the knowledge enrichment.**



# EFFORTS OF DEPARTMENT DURING COVID-19

## Initiative 5

**Feedback System:** A feedback system was also developed using Google Forms to keep the track on progress of the Faculty, Staff and Students during the COVID 19 Crises.

## Interdisciplinary Engineering Lectures on Youtube

<https://youtu.be/zMLm9B6WIOQ>



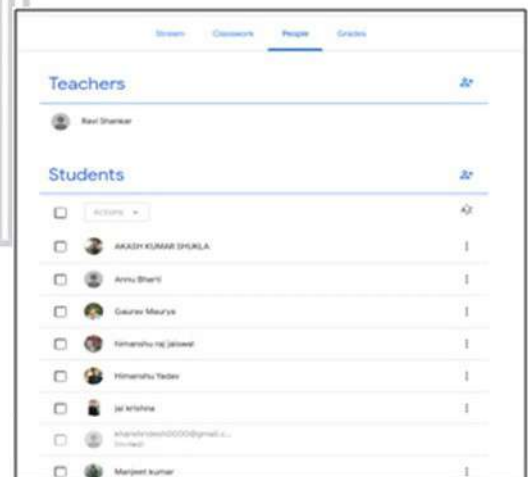
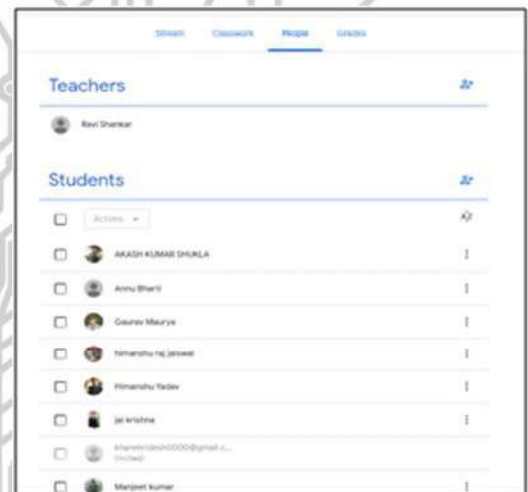
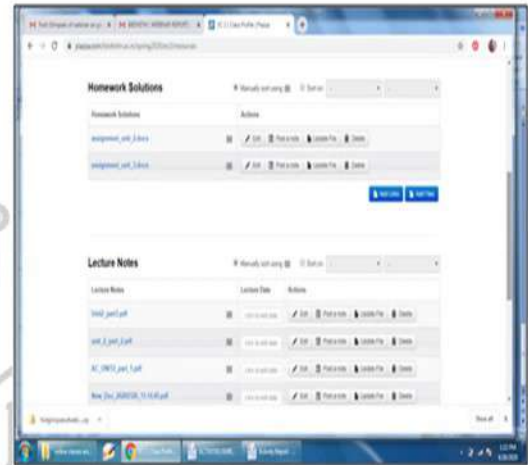
<https://youtu.be/0FF6ky1sEmw>



<https://youtu.be/AuDTriZ26p4>



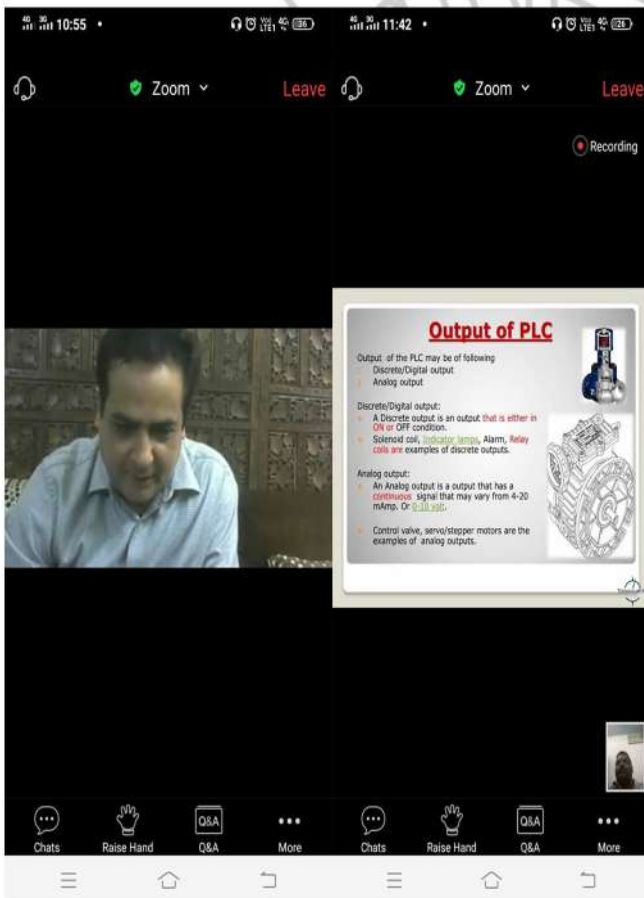
<https://youtu.be/3uAU1rL1u7s>



# EFFORTS OF DEPARTMENT DURING COVID-19

## WEBINAR ORGANIZED BY ECE DEPARTMENT

Department of Electronics & Communication, BBDNITM Lucknow organized a webinar on the topic “Industrial Automation” on 6th June 2020 in association with “Teknavigator Pvt. Ltd”. The inauguration of the webinar was done with the welcome of Director, BBDNITM Prof. Dr. Bhavesh Kumar Chauhan. Mr. Kuldeep Mishra, MATLAB expert and BDM, Teknavigator Pvt Ltd, Lucknow was the speaker of webinar. The event was open for all the students and faculty members of different institutes and departments with no registration fee. A certificate of participation was provided to all the attendees .



**BABU BANARSI DAS**  
NATIONAL INSTITUTE OF TECHNOLOGY & MANAGEMENT  
(Recognized by AICTE, Govt. of India, affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow) AKTU College Code - 054

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PRESENTS

# WEBINAR ON INDUSTRIAL AUTOMATION

**OUR SPEAKER**

**KULDEEP MISHRA**  
MATLAB EXPERT & BDM  
TEKNAVIGATOR PVT. LTD.  
LUCKNOW

CONVENER  
DR. SHAILENDRA TAHILYANI  
HOD (ECE DEPARTMENT)  
BBDNITM

FACULTY CO-ORDINATOR  
MS. RUPALI AGARWAL  
DEPARTMENT OF ECE

STUDENT CO-ORDINATORS  
HARSHIT SINHA (9653043939)  
SAMARTH SAXENA (8630658617)

**POWERED BY :-**  
**BABU BANARASI DAS UNIVERSITY, LUCKNOW**

PATRON  
DR. BHAVESH KUMAR CHAUHAN  
DIRECTOR BBDNITM, LUCKNOW

PARTICIPANTS WILL GET AN E-CERTIFICATE

**LIMITED SEATS !!!**

CATCH US LIVE  
**6 JUNE**  
11:00 AM - 12:00 NOON  
ON

SCAN TO REGISTER

The main topics covered in webinar were:

**MATLAB :** Introduction, History , Role of MATLAB, Basics, SIMULINK , Signal Processing Toolbox, Image Processing Toolbox , Examples

**INDUSTRIAL AUTOMATION :** What is Automation, Benefits of Industrial Automation , Use of Industrial Automation, Manual Control, Electronic Control using Logic Gates, Block dia gram of PLC, Basic parts of PLC, Input to PLC, Output to PLC, Various brands of PLC, SCADA, Role of Engineers In Industrial Automation, Job prospects for Engineers.

Convenor: Dr. Shailendra Tahilyani (HoD, Dept of ECE, BBDNITM, Lucknow)

Faculty Co-ordinator: Ms. Rupali Agarwal (Asso. Professor, Dept of ECE, BBDNITM, Lucknow)



# EFFORTS OF DEPARTMENT DURING COVID-19

## WEBINAR ON AN INTRODUCTION TO LYAPUNOV STABILITY FOR DISCRETE SYSTEMS

Department of Electronics & Communication Engineering, BBDITM Lucknow organized a webinar on the topic “An Introduction to Lyapunov Stability for Discrete Systems” on 30 June 2020. The inauguration of the webinar was done with the welcome of Director, BBDITM Prof. (Dr.) Bhavesh Kumar Chauhan. Prof. (Dr.) Vipin Chandra Pal, Faculty in Electronics and Instrumentation Engineering, NIT, Silchar was the speaker of webinar. The event was open for all the students and faculty/staff members of different institutes and departments with no registration fee. Total registrations for the event were 144 and all the participants participated actively throughout the session. A certificate of participation was provided to all the attendees.

### About Webinar

In this Webinar the description about the discrete control system is given. Further, the significance of discrete systems has been represented by its major role playing in modern technological developments. The numerous advantages of digital systems are explained. Moreover the stability issues has also been discussed on the basis of external and internal behaviour of systems.

The Asymptotic and bounded input and bounded output (BIBO) stability criteria has been explained in detail.

The application of Lyapunov theorem is given and different theorems for stability in sense of Lyapunov are introduced.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
PRESENTS  
**WEBINAR**  
ON  
**AN INTRODUCTION TO LYAPUNOV STABILITY FOR DISCRETE SYSTEMS**

**OUR SPEAKER**  
  
**DR. VIPIN CHANDRA PAL**  
ELECTRONICS AND INSTRUMENTATION ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

**PATRON**  
**DR. BHAVESH KUMAR CHAUHAN**  
DIRECTOR, BBDITM

**CONVENER**  
**DR. SHAILENDRA TAHILYANI**  
(HOD), DEPT. OF ECE

**FACULTY COORDINATOR**  
**MRS. KEERTI MISHRA**  
DEPT. OF ECE

**EVENT COORDINATOR**  
**MRS. RUPALI AGARWAL**  
DEPT. OF ECE

**STUDENT COORDINATORS**  
**VAIBHAV DWIVEDI**    **HARSHIT SINHA**    **SAMARTH SAXENA**

**SCAN TO REGISTER**  
  
<https://forms.gle/6v9UVVDR2mY5h0b>

**CATCH US LIVE**  
**30TH JUNE**  
11:00 AM - 1:00 PM  
ON

Finally MATLAB study for stability of linear system is shown which are based on Lyapunov Stability Theorem.

Convenor: Prof.(Dr.)ShailendraTahilyani (HoD, Dept of ECE, BBDITM, Lucknow)

Faculty Coordinator: Ms. Keerti Mishra (Asst. Professor, Dept of ECE, BBDITM, Lucknow)

Event Co-ordinator: Ms. RupaliAgarwal (Asso. Professor, Dept of ECE, BBDITM, Lucknow)

Student Coordinator: Harshit Sinha, Vaibhav Dwivedi, Samarth Saxena





# EFFORTS OF DEPARTMENT DURING COVID-19

## WEBINAR ON OPENCV WITH PYTHON PROGRAMMING

Department of Electronics & Communication Engineering, BBDITM Lucknow organized a webinar on the topic "OPENCV WITH PYTHON PROGRAMMING" on 1st July 2020. The inauguration of the webinar was done with the welcome of Mr. Ganesh Attarde, Founder, GB Softronics Solutions being speaker of webinar.

The event was open for all the students and faculty/staff members of different institutes and departments with no registration fee. In the conclusion part, the Director, BBDITM Prof. (Dr.) Bhavesh Kumar Chauhan joined and shared his views of the session. Total registrations for the event were 136 and the participants actively participated throughout the session. A certificate of participation was provided to all the attendees. The main topics covered in webinar were: Introduction to OPENCV, Window and Linux installations, how computers see images, Image Vs Matrix, Image reading and pre-processing, Video process in colour conversion- Colour to Grey.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
PRESENTS  
**WEBINAR**  
ON  
**OPEN CV WITH PYTHON PROGRAMMING**

**OUR SPEAKER**  
  
**MR. GANESH ATTARDE**  
FOUNDER  
GB SOFTRONICS SOLUTIONS

**PATRON**  
**DR. BHAVESH KUMAR CHAUHAN**  
DIRECTOR, BBDITM

**CONVENER**  
**DR. SHAILENDRA TAHILYANI**  
(HOD), DEPT. OF ECE

**SCAN TO REGISTER**

**CATCH US LIVE**  
**1st JULY**  
02:00 PM - 03:00 PM  
ON

**FACULTY CO-ORDINATOR**  
**DR. ABHIMANYU YADAV**  
DEPT. OF ECE

**EVENT CO-ORDINATOR**  
**MRS. RUPALI AGARWAL**  
DEPT. OF ECE

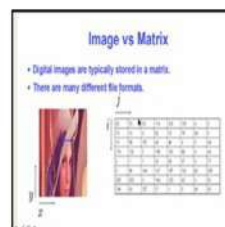
**STUDENT CO-ORDINATORS**  
**HARSH KHARE HARSHIT SINHA MANAS NIGAM**

**Convenor: Prof.(Dr.) Shailendra Tahilyani (HoD, Dept of ECE, BBDITM, Lucknow)**

**Faculty Coordinator: Dr. Abhimanyu Kumar Yadav (Asst. Professor, Dept of ECE, BBDITM, Lucknow)**

**Event Co-ordinator: Ms. Rupali Agarwal (Asso. Professor, Dept of ECE, BBDITM, Lucknow)**

**Student Coordinator: Harshit Sinha, Manas Nigam, Harsh Khare, Nandini Raj**





# EFFORTS OF DEPARTMENT DURING COVID-19

## WEBINAR ON SOLAR ENERGY – OPPORTUNITIES AND CHALLENGES

Department of Electronics & Communication Engineering, BBDITM Lucknow organized a webinar on the topic “Solar Energy-Opportunities and Challenges” on 2nd July 2020. The inauguration of the webinar was done with the welcome of Director, BBDITM Prof. (Dr.) Bhavesh Kumar Chauhan. Mr. Aashutosh Sharma, Project head, VOLTRANS ENERGY was the speaker of webinar. The event was open for all the students and faculty/staff members of different institutes and departments with no registration fee. Total registrations for the event were 426 and all the participants participated actively throughout the session. A certificate of participation was provided to all the attendees. The main topics covered in webinar were:

Why renewable energy, India’s contribution to international solar alliance, models of installation of solar power plant, steps of installation, advantages and disadvantages of solar power plant.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
PRESENTS  
**WEBINAR**  
ON  
**SOLAR ENERGY- OPPORTUNITIES & CHALLENGES**

**OUR SPEAKER**  
  
**AASHUTOSH SHARMA**  
Voltrans Energy Project Head

**PATRON**  
DR. BHAVESH KUMAR CHAUHAN  
DIRECTOR, BBDITM

**CONVENER**  
DR. SHAILENDRA TAHILYANI  
(HOD), DEPT. OF ECE

**SCAN TO REGISTER**  
  
HTTPS://FORMS.OLX/V/m3c6K6DFVKh7

**CATCH US LIVE**  
**2ND JULY**  
11:00 AM - 1:00 PM  
ON

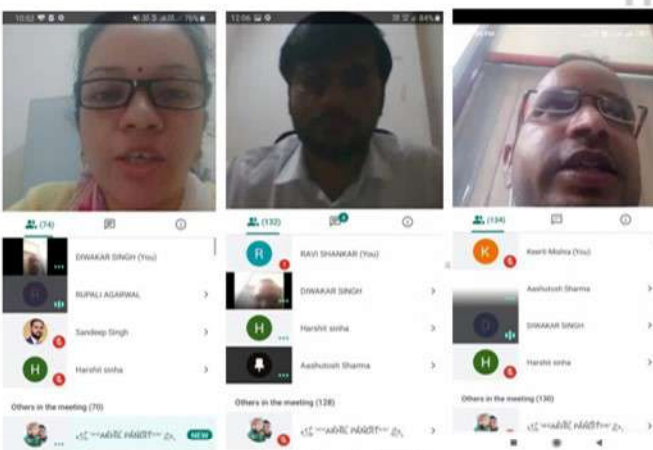
**STUDENT COORDINATORS**  
HARSHIT SINHA    MANAS NIGAM    SAMARTH SAXENA

**Convenor:** Prof.(Dr.) Shailendra Tahilyani (HoD, Dept of ECE, BBDITM, Lucknow)

**Faculty Coordinator:** Mr. Diwakar Singh (Asst. Professor, Dept of ECE, BBDITM, Lucknow)

**Event Co-ordinator:** Ms. Rupali Agarwal (Asso. Professor, Dept of ECE, BBDITM, Lucknow)

**Student Coordinator:** Harshit Sinha, Manas Nigam, Samarth Saxena





# ACHIEVEMENTS

## FACULTY ACHIEVEMENTS

### Lectures at AKTU Campus Studio

Considering the prevailing COVID-19 situation in the country, an initiative from Dr. A.P.J Kalam Technical University, Lucknow to reach the students and to have them in touch of their studies was taken up. Prof. Vinay Kumar Pathak, Vice-Chancellor, AKTU, Lucknow took up prime initiative to reach students so as to develop solutions to the community's most daunting challenges and in this pandemic crisis through online lectures. His vision was to compensate students' study loss during the lockdown period by providing them with video lectures which the faculties from various institutes get recorded at AKTU Campus Recording Studio. Prof.(Dr.) Shailendra Tahilyani (HoD-ECE) and three faculties from the Electronics & Communication department recorded 14 video lectures at AKTU.



#### Details of the Lecture Contents at AKTU Campus Studio:

Sr. No	Name of Faculty	Lecture Topics
1	Prof (Dr.) Shailendra Tahilyani	1..Operational Amplifier Concepts 2.Operational Amplifiers Applications
2	Prof. Kalyan Krishna Awasthi	1.Measure of Information 2.Concept of Entropy 3.Source Coding, Shannon Fano Coding 4.Huffman Coding, Shannon's Theorem 5.Review of Digital Modulation Techniques
3	Prof. Navneet Kumar Pandey	1. Introduction – 8051 & MSP430 Micro-Controller Along With Architecture & Register Classification. 2. MSP430 –Instruction Set, Addressing Mode, UCS, Peripheral Device – Timer & Watchdog Timer. 3. MSP430 Peripheral Device – DMA (Direct Memory Access, UART (Universal Asynchronous Receiver Transmitter), 4.MSP430 – SPI (Serial Peripheral Interface) I2C (Inter Integrated Circuit)
4	Dr. Abhimanyu Kumar Yadav	1.Genetic Algorithm 2.Introduction of KNN Algorithm 3.Heuristic search & Learnable evolution Model





# ACHIEVEMENTS

## MHRD'S INNOVATION CELL

Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs) across the country. This initiative has helped in nurturing young minds to fulfil their curiosity with the innovation in different areas and getting recognised by the institute as well as government organisation. Some of the major platform for innovative ideas for solving issues given by IIC are Smart India Hackathon, Singapore India Hackathon, NISP policy for start-ups of students and faculties, etc.

Mass level Participation of students and faculties along with staff members has shown how enthusiastic and committed we are towards the innovative activities



Due to the difficulty faced by IIC-Institutes to complete the IIC calendar activities for Quarter 3(Q3) and Quarter 4(Q4) for the IIC calendar year 2019- 20, IIC-MIC organized 17 e-sessions as e-activities on various themes of Innovation, IPR, Entrepreneurship and Start-up which would replace the physical activities of Q3 and Q4, from April 28 – May 22, 2020. These e- sessions covered various topics related to innovation and start-up policies

strategies and governance for promoting entrepreneurship such as norms for students and faculty driven start-ups, Incubation and pre- incubation support, Incentives and rewards for students and faculty pursuing innovation and start- ups, IP ownership and equity / revenue sharing mechanisms

### Online Sessions

Sr.No	Event Date	Topic of Event	Speakers of the Event	Faculty Name
1	28/04/2020	National Innovation and Startup Policy for Students and Faculty 2019 -A Guiding Framework for HEIs for Implementation.	Mr.Dipan Sahu	All faculty members of the department have participated in All - 17 IIC-MHRD'S ONLINE ACTIVITIES
2	29/04/2020	Role and Importance of Pre-Incubators, Incubators & Accelerators in HEIs - Harnessing Innovation and Entrepreneurial Potential of Student & Faculty at an Early Stage.	Mr.Muthu Singaram	
3	30/04/2020	Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE.	Ms. Vandana Thakur, Mr.Amit Sanjay Lokhande	
4	01/05/2020	Role of Network Enablers in driving I&E in HEIs - A Case of TiE, India.	Ms.Geetika Dayal	
5	04/05/2020	Hangout with Successful Startup Founder and Learn on Design thinking Approach for Hardware Innovation.	Dr.Pankaj Parasar	
6	05/05/2020	Entrepreneurial Motivation and Business Idea.	Dr.Sunil Shukla, Dr.Amit Dwivedi, Mr.Mayank Patel	

7	06/05/2020	How to Identify Right Problem and Solution using the Double. Diamond Approach in Design.	Prajakta Kulkarni, Sanket Inamdar	
8	07/05/2020	Intellectual Property (IP) Management at Early Stage of Innovation & Startups	Dr.Sanjeeva Kumar Majumdar	
9	08/05/2020	Understanding Angel and Venture Capital Funding - What is There for Early Stage Innovator & Entrepreneurs?	Mr.Sushanto Mitra	
10	12/05/2020	Legal and Ethical steps - Productive Entrepreneurship and Startup.	Mr.Harit Mohan	
11	13/05/2020	Innovating Self-screen and Identify Right Opportunities.	Prof.Sanjay Inamdar	
12	14/05/2020	Understanding Role & Application of Marketing Research at Idea to Startup Stage.	Dr. Preet Deep Singh	
13	15/05/2020	Innovation Risk Diagnostic-product Innovation Rubric.	Dr.Laksmi Meera	
14	19/05/2020	Idea, Business Model and Business Plan.	Dr.Satya Acharya Dr.Amit Dwivedi	
15	20/05/2020	Use of Market Data, Application of Market Research Tools & Methodology.	Dr. Preet Deep Singh	
16	21/05/2020	Frugal Innovations & Social Entrepreneurship.	Dr.Raman Gujral	
17	22/05/2020	Interaction with Students Innovators and Entrepreneurs from Smart India Hackathon.	Pilkit Jain, Lokesh Goswami, Arpit Nandi	



# ACHIEVEMENTS

## FACULTY ACHIEVEMENTS

### BOOKS AUTHORED

• Dr. Shailendra Tahilyani,  
HOD, (ECE) ,has authored the following books :

1. Foundations of Information Technology-  
ISSN/ISBN:8175154292, 2004
2. Fundamentals of Computer Communication  
System- ISSN/ISBN: 8185749221, 2005
3. Fundamentals of Software Engineering-  
ISSN/ISBN: 8188458562, 2006
4. Operating System - ISSN/ISBN: 8188114383,  
2007



### Best Faculty Award

Prof.Amit Kumar Singh  
of ECE Department received Best Faculty Award  
(dated September 05, 2019) on the occasion of  
Birth anniversary of Dr. Sarvepalli Radhakrishnan  
at Dr. Akhilesh Das Gupta Auditorium, BBD Edu-  
cational Group  
Lucknow.





# ACHIEVEMENTS

## PLACEMENT IN FIRMS (2019-20)

This year we have achieved placements in some leading firms like TCS, Infosys, Capgemini etc. This has been possible due our placement and training department co-ordinator Mr. Navneet Kumar Pandey who has inducted students to the path of success.

### Babu Banarasi Das

Institute of Technology & Management, Lucknow

**ELECTRONICS & COMMUNICATION ENGINEERING**

Placed Student List session 2019-2020

S. No.	Name of Student	Univ. Roll. No.	Company Name	On campus / Off campus
1	Dhirendra Pratap Singh	1605431022	TCS	Off Campus
2	Prabhat Mishra	1605431042	TCS	Off Campus
3	Shivendra Singh	1605431065	TechiNest Pvt. Ltd	On Campus
4	Dhirendra Pratap Singh	1605431022	ExtraMarks	On Campus
5	Nitin Roy	1605431040	CEDCOSS	On Campus
6	Aakash Kr. Yadav	1605431001	Borze Heager	On Campus
7	Ajeet Kr. Pandey	1605431007	Borze Heager	On Campus
8	Durgest Kr. Chaudhary	1605431023	Borze Heager	On Campus
9	Adarsh Tiwary	1605431004	Borze Heager	On Campus
10	Prabhat Mishra	1605431042	Infosys	Off Campus
11	Garima Tiwary	1605431024	Infosys	Off Campus
12	Amisha Singh	1605431010	Tech Mahindra	Off Campus
13	Shivendra Singh	1605431065	Morling Global	On Campus
14	Astuti Tiwari	1605431020	Morling Global	On Campus
15	Syed Fahad Ghyas Rizwi	1605431073	BYJUS	Off Campus
16	Dhirendra Pratap Singh	1605431022	Wipro	Off Campus
17	Samiksha Sahu	1605431057	Capgemini	On Campus
18	Mahi Yadav	1605431029	Capgemini	On Campus
19	Aiman Kamal	1605431006	Capgemini	On Campus
20	Dhirendra Pratap Singh	1605431022	Capgemini	On Campus
21	Vaishnavi Srivastawa	1605431075	Capgemini	On Campus
22	Syed Fahad Ghyas Rizwi	1605431073	Genpect	On Campus

# ACHIEVEMENTS

## MERITORIOUS STUDENTS OF DEPARTMENT

1. Smita Gupta (4th yr/ 8th sem), student got GOLD medal at AKTU convocation in 2012. She scored 86.45%. She is currently working in TCS as Front End Developers.



2. Ms. Tanya Singh student (4th yr/ 8th sem) got Silver medal in AKTU convocation in 2017. She scored 87.24% and currently pursuing her MBA from Indian Institute of Management, Ahmadabad.

Mr. Shrut Kirti Somavanshi has secured AIR 157 in Union Public Services commission Exam.





# ACHIEVEMENTS

## STUDENT'S ACHEIVEMENT

Ratul Pandey (EC, 4th year) won Gold medal in Football at Dr. A.P.J. Abdul Kalam Sports Fest – 2019 on 22nd October and 23rd October, 2019 at BBDNITM, Lucknow



Harshit Sinha (EC , 3rd year) was the coordinator in Kabir Festival , lucknow , Kabir festival is a renowned cultural festival of lucknow, it is an attempt to re-calibrate the society' s focus towards the values of Humanity, and bonds of Friendship among the people.this year Bollywood actor, Ashish Vidyarthi performed his play “Dayashankar ki Diary” on the second day of Kabir festival





# ACHIEVEMENTS

## STUDENT'S ACHEIVEMENT

Pallavi Kumari, (ECE-3rd year) achieved First prize in “essay competition” organised by Department of Electronics & Communication of BBDNITM held on 14th October 2019 as the part of innovation activity during innovation week the given topic for essay writing was “science and technology -boon or bane”.

She was also awarded First prize in

“essay competition” of cultivating creativity organized by Department of Information Technology BBDNITM held during 08-09th may, 2020 on the topic for writing ‘Future of India after COVID-19’ and Third prize in “Technical Quiz” of cultivating creativity organised by Department of Information Technology, BBDNITM held during 08-09th May,2020 during the Nationwide lockdown.



Dastak Youth festival is a district level competition platform in which students from several college of lucknow participated in .

Harshit Sinha (EC , 3rd year was the cordinator in Dastak Youth Festival , lucknow , this event was organised by Dastak manch and 2020 witnessed the 11th season of this festival





# ACHIEVEMENTS

## STUDENT ACHIEVEMENT



Shubham Singh of ECE-3rd year won Third prize in the essay competition in the event “Innovation Activity” conducted by Electronics and Communication Department.

Swati Verma (EC 2nd year) awarded 1st position in events Mime and Skit in Utkarash 2019 held from March 29 - 31, 2019. UTKARSH is an annual Fest of BBD Educational Group. It includes various events like Cultural, Technical, Literary, Fine Arts and Sports etc.





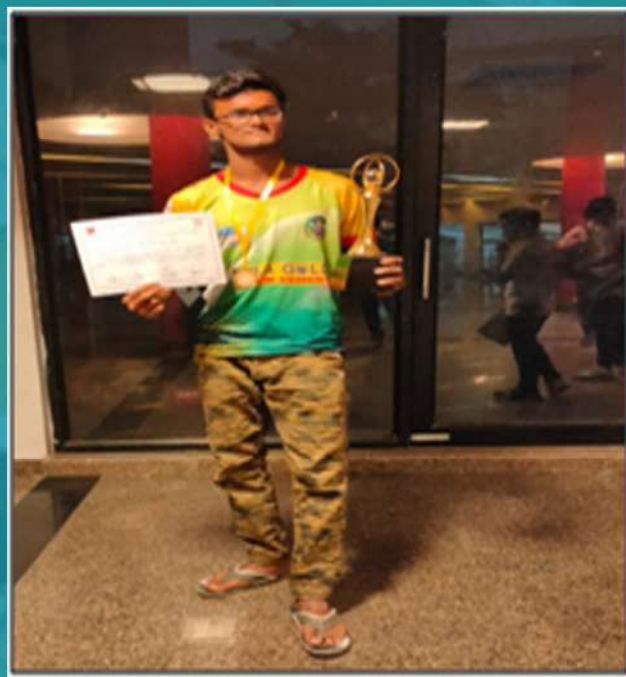
# ACHIEVEMENTS

## STUDENT ACHIEVEMENT



Harshit Sinha of EC 3rd year was in the organizing team of Akhil Jyot 2019 , he and his team went to Chhabi shanti Dham old age home and made an effort to put a smile on their faces by performing skit , dance and singing . Apart from that he had also been in the organizing team of Ganesh Utsav 2019 , Utkarsh 2020 as assistant coordinator ,Aktu sports fest 2019 and E-cell IIT kanpur 2019

Adarsh Pratap Singh, (EC 2nd year) won Gold medal in Kabaddi at Dr. A.P.J. Abdul Kalam Sports Fest – 2019 on 22nd October and 23rd October, 2019 at BBDNITM, Lucknow.





# ACHIEVEMENTS

## STUDENT ACHIEVMENT

### RESEARCH PAPER PUBLISHED BY FINAL YEAR STUDENTS - (SESSION 2019-20)

S. No.	University Roll No.	Name of Student	Project Guide	Title of Paper	Status	Journal/ Conf.
1	1605431006	Aiman Kamal	Prof. Yamini Yadav	CELLPHONE DETECTOR WITH SIGNAL JAMMER	Published	JETIR June 2020, Volume 7, Issue 6; (ISSN-2349-5162)
2	1605431020	Astuti Tiwari				
3	1605431054	Sakshi Katiyar				
4	1605431018	ARYAN SINGH	Prof. Pankaj Verma	Green House Weather Station Monitoring System	Accepted	VSRD INTERNATIONAL JOURNALS VSRDIJEECE-52
5	1605431030	MANISH KUMAR KHARE				
6	1605431031	MANISHA				
7	1605431039	NISHANT SINGH				
8	1605431022	DHIRENDRA PRATAP SINGH	Prof. RAVI SHANKAR	Water Pollution Monitoring RC Boat	Accepted	International Journal of Emerging Technologies and Innovative Research (JETIR)
9	1605431034	MOHD. AHMAD KHAN				
10	1605431041	PARICHAY SINGH				
11	1605431042	PRABHAT MISHRA				
12	1605431037	Neha	Dr. Abhimanyu Yadav	Home automation using Arduino with android application	Accepted	International Journal of Advanced Research,Ideas and Innovations in Technology (IJARIIT)
13	1605431078	Vijay Kumar Soni				
14	1605431033	Mohammad Ashraf				
15	1605431050	RATUL PANDEY	Prof. DIWAKAR SINGH	AUTOMATING IRRIGATION PROCESS BY ENLARGING SOIL AND WEATHER CONDITIONS	ACCEPTED	VSRD INTERNATIONAL JOURNALS VSRDIJEECE
16	1605431055	SALMAN SIDDIQUE				
17	1605431068	SHRISTI MISHRA				
18	1605431075	VAISHNAVI				
19	1605431001	AAKASH KUMAR YADAV	Prof. RAVI SHANKAR	Smart Electronic System for Waste Segregation	Communicated	VSRD INTERNATIONAL JOURNALS
20	1605431023	DURGESH KUMAR CHAUDHARY				
21	1605431025	GAUTAM KUMAR				
22	1605431036	NAVEEN KUMAR				
23	1405431008	AKSHAY KUMAR	Prof. DIWAKAR SINGH	POTHOLE REPORTING APP	ACCEPTED	VSRD INTERNATIONAL JOURNALS VSRDIJEECE
24	1605431008	AKRIST SINGH				
25	1605431040	NITIN ROY				
26	1605431013	Anshika Goel	Prof. Keerti Mishra	Smart Hand Gloves for blind and Dumb People	Published	Interntional Research Journal of Engineering and Technology (IRJET)
27	1605431043	Pragati Mishra				
28	1605431057	Samiksha Sahu				
29	1605431063	Shivangee Jaiswal				



# WORDS FROM ALUMNI

## OUR ALUMNI



**Mr. Saif Ali (2016 Passout Batch)**

**Director**

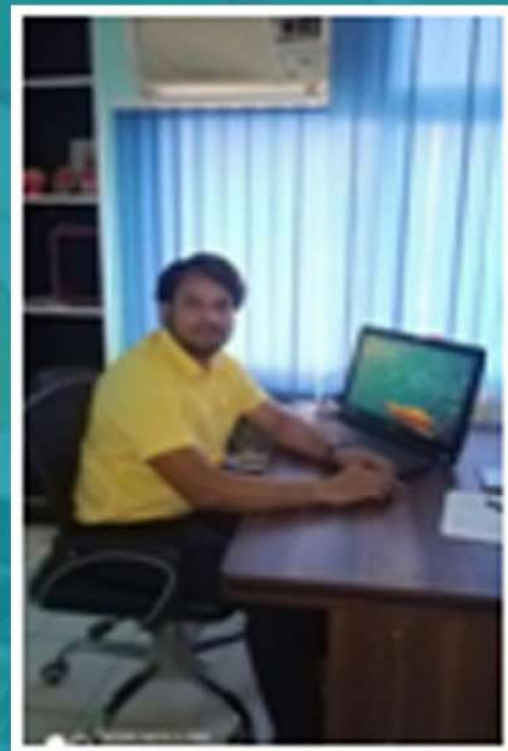
**Witonomy Online Studios (OPC) Private  
Limited**

The overall experience of the college has been fruitful with scope of personality and technological development provided hand in hand. Groups, communities and infrastructure had been a major bliss in the college. The ECE department had been very supportive in student endeavours.

**Mr. Ajay Kumar Prajapati  
(2017 Passout Batch)**

**Assistant Manager  
Singhania University,  
Lucknow Office**

I thank the institute and the faculty for all the efforts put in by them, along with the perseverance and right moves have paid off finally. All my batch mates are doing well in their respective jobs which reflect the quality of the students the institute has produced. An Amazing institution that teaches you self discipline, confidence and problem solving essential traits to start your journey.



# WORDS FROM ALUMNI

## OUR ALUMNI



Mr. Abhishek Srivastava (2014 Passout Batch)

IT Analyst

Tata Consultancy services Chennai

Boasting of a great infrastructure and experienced faculty, our college will help you to enhance your technical abilities as per current industrial demands. Other than curricular, one can indulge in co-curricular and extracurricular activities through which he/she can develop their interpersonal and leadership skills, much needed for success in the outside world, thereby shaping one's personality. On the whole, it's a good place to kick start your Engineering career.



# EDITORIAL BOARD

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## WORD OF THANKS

Gratitude allows us to see the best in those around us, and" how they help us to do and be better. It unlocks the fullness of life

What we need is more than just a commitment to keep pushing ahead

We are highly thankful to each and every member for their dedication and hard work. It is the team work that made this magazine possible. We would also like to express our gratitude towards our readers

# THANK YOU