

The buzzzzing electron

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Vision ECE

To impart latest knowledge and skills so as to kindle innovation & creativity among students, to develop and sustain a culture of research while promoting values, ethics and professionalism, leading to a progressive career in industry & academia globally.

Mission ECE

To engage modern education aids, laboratories and competent faculty ensuring effective teaching learning process to meet the ever growing and changing industrial and business environment.

To continuously challenge the young minds with ideas so as to carry out innovative research through interaction with the research organizations & industry and to provide them avenues for recognition by participation in challenging platforms.

To develop responsible citizens and professional leaders with high ethical and moral values, who contribute in dissemination of universal science and technology.

Lead Story Headline

The Electronics sector in India is expected to be an USD 29 Billion consumer market by 2020. The demand projected by 2015 is USD 94.2 Billion. The industry growth rate between 2011 and 2015 is 9.88%. As per the above data, you must have realized the huge demand for skilled manpower in this sector.

The discipline deals with electronic devices and software interfaces. The applications are far reaching, right from the indoors of the house to industries. The tasks of the Electronics and Communication engineers are to direct, control and test produce processes as well as to ensure safety, installation and functioning of the various mechanisms. This branch is combined with other branches like civil, structural and electrical engineering. One of the basic work



that are involved by the engineers include research and development of satellite, design, cable systems, radio waves, mobile phones, internet, etc.

The engineers also work on cross functional engineering branch projects to utilize the facets of electronics and

communication engineering. The basic tasks of the ECE engineers include developing new systems, circuits and devices or develop existing technology.

For More Information Visit: <https://engineering.careers360.com/electronics-and-communication-engineering-0>

Success Story

Bank Bazaar.com was founded in 2008 by a group of young engineers, who had worked in some of the leading companies in the United States like Deloitte, Amazon.com, Capital One and

Microsoft. The founders Adhil Shetty were alumni of some of the most reputed universities in India and United States Guindy Engineering College, REC-Trichy, BITS-Pilani, Columbia University, Georgia Tech and Virginia Tech – decided to make life easier for people who faced

delays in getting loans sanctioned from banks. From disbursing loans to the tune of Rs 200 crore (Rs 2 billion) in the first year, today, after four years, annual disbursals have touched Rs 3,000 crore (Rs 30 billion).

For More Information Visit: <http://www.rediff.com/business>

Program Educational Objectives (PEOs) of B.Tech Program in ECE are:

PEO 1: To prepare Graduates with sound foundation in fundamentals of basic sciences and to assist them exhibit strong, independent learning, analytical & problem solving skills in Electronics and Communication Engineering domain.

PEO 2: To facilitate learning in the core field of Electronics and Communication Engineering so as to integrate technological progression and software & firmware skills to produce high impact, energy efficient and futuristic solutions.

PEO 3: To prepare Graduates to effectively use modern equipment and programming tools to solve real life multi-disciplinary problems that are technically sound, economically feasible and socially acceptable.

PEO 4: To assist and enable individuals acquire skills to imbibe life-long learning in the field of Electronics and Communication, related research & innovation so as to have progressive careers as Managers or Entrepreneurs.

PEO 5: To inculcate professional and ethical attitude, team spirit, leadership qualities and effective communication skills in Graduates and to make them aware of their social responsibilities.

National & International Tie-ups for Hands on Training



Futuristic Collaborations



To Set CoE / HANA (Huawei Authorized Network Academy)

Remote / Physical access to Huawei Lab on IP, Telecomm, Transmission & Cloud Computing PDP Program, Corporate Seminars, TTT, LMS.



Mindteck is a global IT company, specializing in corporate IT Services, IoT services, Mobility solutions, Healthcare and Medical devices, Semiconductor, Energy etc. Will collaborate with Mindteck for Industry oriented curriculum design (ECE with IOT program) and Student live projects.



To Set NI LabVIEW Academy wherein Certification courses can be designed to validate skills acquired at professional level.

To Set Centre of Excellence for Robotics
To Set Antenna Design and Measurement Lab
To Set PCB Design & Fabrication Lab



Has been accredited twice by NBA; Applied for NBA again, NAAC Accredited; QS Star rated: 5* in Teaching, Learning, and Social Responsibility, 4* for Employability.

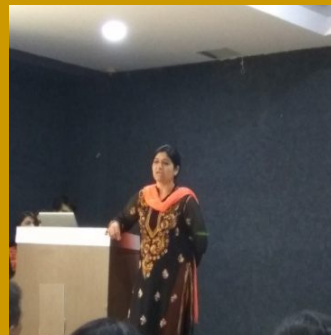
Tie ups with Organizations of National & International repute : (INTEL – IOT Centre, Reliance Jio, SAP, Microchip, Cogenda, Edgate Texas Instruments, Huawei Telecommunications-Learning services)

Our Major Recruiters



Snippets of Expert Lecture

Accendre group conducted a talk for all students and faculty mentors of 3rd semester who were introduced to the subject ITR to give a brief about the work expected from them .The talk was conducted on 9th August 2016.



Expert talk by Connexun on 28th September 2016 for the students of 5th Semester Electronics and Communication



Expert lecture was given by Mr. K.K.S Yadav Asst Director (Telecom) and Mr.Anil Kumar, Asst.General Manager from BSNL on 27th Sept 2016 on Advances in Satellite Communication



Expert talk on Entrepreneurship program and placement opportunities in core areas like VLSI, Embedded System & Robotics, MATLAB, Software Development by Mr. Rakesh Gupta from 3ST technologies on 24th October 2016.



Expert talk by Reliance JIO team “Learn while you earn” on 13th October 2016by Mr Bala Iyer, Vice President, Reliance Jio, Mr Manu Chanana, DGM-Head Training, Reliance Jio & Mr. Shrikant, Sr. Vice President, Reliance Jio.



Expert talk by Mr. Kiran from Investment Management Systems | Fidelity Business Service India Pvt. Ltd on 5th October 2016 on Education – Industry Gap in Engineering Domain.

Snippets of Workshop/Quiz/Paper



SAP (ABAP) training of first batch was concluded by Ritz Consultant Services (Tech. Alliance) from 27th July 2016 to 29th July 2016.



Trending News in ECE" under club "Electro folks-the zeal for Engineering" was organized on 1st Sept 2016.



Workshop on "Line follower Robot Autronics" by Infotech Pvt. Ltd was organized for 3rd & 1st Sem Students on 29th Sept 2016



Manav Rachna Innovation and Incubation Centre in Association with Intel organized a one day workshop on INTEL IOT workshop on 26 th Sept 2016.



Technical paper presentation in association with Institution of Engineers was organized by department for one on 27th Oct 2016



A 3D printing workshop organized by Manav Rachna Innovation and Incubation Centre for 1 day on 5th Oct 2016.



A "Quiz competition" was organized by the deptt in association with Institution of Engineers - 3rd -4th Nov



A Seminar on Recent Trends in Engineering by Dr.Binay Anand, a faculty from Houston University, US on 11th Nov. 2016



A Seminar on Recent Trends in Engineering: by Dr.Maged Elkashlan, faculty from Queen Mary University , London on 8th Nov 2016.

Our Major Recruiters

IFB

Capital IQ
A Standard & Poor's Business

L&T Infotech

HCL

CEASE FIRE

NIIT Technologies
"Trust us to find the way"

AVERY INDIA LIMITED
Accuracy. The Active Trade

SYNTEL
"Consider IT Done"

Nokia Siemens Networks

connexun

t
tringapps

Faculty Outreach

Qualities of an IAS officer” by our Hon’ble Vice Chancellor, MRIU, Dr. N.C. Wadhwa in Enrichment Lecture Series Programme attended by Ms.Varsha on 9th Aug 2016.

"How to stay Healthy & Young" The Speaker for the session was Dr. P.S. Ahuja, Director Preventive Health at Asian Hospital, Faridabad attended by Ms.Vibha, Ms.Monika & Ms.Darshana on 20th Aug 2016.

Workshop on Bone Marrow Donor Registration Campaign, Manav Rachna under the aegis of Dr. O. P. Bhalla Foundation, Manav Rachna National Service Scheme and Jeevandayini Social Foundation in technical collaboration with Datri, India's largest Stem Cell Donor Registry attended by Ms. Pooja & Ms. Monika on 29th Aug 2016.

Role of Students And Youth In Making The Dream Of India by Dr. Unnat Pandit attended by Ms. Darshana Kundu on 30 Aug 2016.

Workshop on SAKSHAM conducted by Microsoft attended by Ms.Priyanka, Ms.Ila, Ms.Sunanda, Ms.Pooja, Ms.Jyoti, Ms.Pratima from 2nd -3rd Sept 2016.

Developing a Quality Research Proposal for a Funding Agency by Dr. Sanjeev Mittal, Dean, University School of Management, GGSIPU, Improving Quality of Doctoral Supervision by Prof. DPS Verma, Former Professor, Delhi School of Economics Research Oriented Teaching by Prof. DVS Verma, Former Professor, NIT, Kurukshetra How to Write a Quality Research Paper by Prof. SC Kundu, Professor, Haryana school of business, GJU attended by Dr.Vimlesh, Ms.Shaveta & Ms.Gagandeep from 16th 17th Sept 2016.

Recent Advances in Microwave Engineering at MITS Gwalior attended by Dr Shruti Vashist , Dr. Vimlesh Singh & 15 Student of ECE from 24th -25th Sept 2016.

Russian Cultural Programme attended by Mr.Deepak Dhingra, Ms.Pooja, Ms.Pratima, Ms.Shaveta & Ms.Darshana on 27th Sept 2016.

Ms.Darshana attended workshop on "Entrepreneurship" from 22nd -23rd Oct 2016.

Mr.Arun & Mr.Anil attended workshop "Office Functioning" on 22nd Oct 2016.

Ms.Priyanka attended One week Training Programme on Advanced Operation Research through ICT in collaboration with National Institute of Technical Teachers Training and Research(NITTTR), Chandigarh from 7th 11th Nov 2016.

Ms. Gagandeep and Ms. Amana attended workshop "Library orientation" on 12th Nov 2016.

Mr. Kapil attended workshop "Library orientation" on 19th Nov 2016.

Dr. Vimlesh and Ms. Savita attended a one day workshop on "Ebesco Research tools" on 22nd Nov 2016.

Mr. Ashish, Ms. Varsha and Ms. Monika attended a one day work shop on "Library orientation" on 3rd Dec 2016.

All ECE faculty attended National Workshop entitled "Role of Groundwater in Smart Cities & Villages", by Eminent scientists, engineers on 17th Dec 2016.

Ms. Darshana attended Short term course on Artificial intelligence in Engineering applications at NSIT Delhi from 26th -30th Dec 2016.

Alumni Desk



"My stay at MRIU taught me to be the fountainhead of new ideas and innovations and continue to engineer service to humanity by means of commitment and technological leadership"

Er. Tushar Mehta
British Telecommunications



"I cherish with days of belongingness at MRIU. It was a journey that enhanced my personality and groomed me at many phases of my life. It is due to the guidance of my faculty members that I am able to turn my dream into reality."

Aditya Aggarwal Software Engineer
Intel Corporation California

Teacher day Celebration



Farewell party



To know your domain

<http://central-library.mriu.edu.in>

<http://www.newelectronics.co.uk>

<https://electronicsforu.com>

Team News Letter

Dr. Dipali Bansal, HOD (ECE)
Dr. Viimlesh Singh,
Associate Professor
Dr. Abhiruchi Passi,
Associate Professor
Ms. Priyanka Bansal,
Assistant Professor
Mr. Anurag Agarwal,
Student
Mr. Himanshu,

One Week FDP on Lab View



A one week workshop on Lab View was organized for ECE Faculty in association with Embedded System solution from 19th-23th Dec 2016.

Syllabus Revision Workshop



A one day workshop on Syllabus revision by BSNL was organized for ECE faculty on 9th Dec 2016.

Research Publication

1. Shaveta Thakral, Dr. Dipali Bansal.S.K.Chakarvarti "Implementation and Analysis of Reversible Logic Based ALU" in TELKOMNIKA Journal, Vol.14,Issue 4,pp.1292-1298, 2016

<http://www.mecs-press.org/ijwmt/ijwmt-v6-n4/IJWMT-V6-N4-4.pdf>

2 Nitin Kathuria and Shruti Vashist"A review of ultrawideband antennas with and without band notched characteristics" in International Journal of Systems, Control and Communications ,Vol.7,No.4,pp.380-394,2016

DOI: 10.11591/eei.v6i2.614(Scopus(Elsevier)

3. Pratima Manhas, Dr.M.k Soni,"Comparison of various channel equalization techniques in OFDM system using different digital modulations" in Indonesian Journal of Electrical , Vol.3,Issue 3, 2016.

<http://dx.doi.org/10.1504/IJBET.2017.10005684>

4. Pratima Manhas, Dr.M.k Soni "Performance evaluation of various Channel Equalization Techniques in terms of BER for OFDM System" in International Journal of Wireless and Mobile Communication for Industrial Systems ,Vol.3,no.2 PP.55-62,2016

www.ijcaonline.org/archives/volume167/number6/kaur-2017-ijca-914316.pdf

5. Kumar Mohit, Vibha Rani Gupta, and S.K. Rout"Two Element Magneto-Dielectric Resonator Antenna for Angle Diversity", in Frequenz, Vol.70,pp.203-210,2016.

<http://www.ijcaonline.org/archives/volume163/number7/27411-2017913633>

6. Kumar Mohit, Vibha Rani Gupta, and S.K. Rout"A CPW-Fed Quad-Directional Stacked Magneto-Dielectric Resonator Antenna For Angle diversity Application" in Microwave and Optical Technology Letters, vol.68,pp.61-64, 2016.

<http://www.mecs-press.org/ijieeb/ijieeb-v9-n1/IJIEEB-V9-N1-6.pdf>

7. Shaveta Thakral, Dr. Dipali Bansal"Design and optimization of Reversible Logic Based ALU using ACO", in International Journal of Information Engineering and Electronic Business, Vol.8,No,6, pp.55-61, 2016.

8.Heena Choudhry,Tejvir Singh,Kunver Arif Ali,Ashish Vats,Pawan Kr.Singh,D.R.Phalswal and Vishant Gahlaut "Design and Analysis of triple band notched microstrio UWB antenna", in Cogent Engineering, Vol.3, 2016.

Glimpse of Departmental Industrial Visit/Educational Tour



An industrial visit was planned for the student of Electronics & Communication Engineering to ALTTC Ghaziabad on 3.10.16 for 3rd and 5th Semester Students.



Workshop on Recent Advances in Microwave Engineering at MITS Gawalior was organized on from 24th -25th Sept 2016. It was attended by Dr Shruti Vashist , Dr. Vimlesh Singh & Vth Semester Students- ECE Department.

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Lead Story Headline

Electronics and Communication

Engineering deals with electronic devices and software interfaces. It has a wide range of applications that helps to make our life comfortable and more convenient. It helps to increase productivity in various industries such as oil, energy, agriculture, telecommunication media including television, radio and computers. The course is also applied in many other important sectors such as steel, petroleum and chemical industry; healthcare industry; and transportation industry. The opportunities are galore for electronics and communication engineers as they are employed in variety of sectors such as



Indian Telephone Industries, Engineering/IT, Power Civil Aviation, Development sector, Hardware Centers in various States, Manufacturing, Home Defense, NPL, A.I.R, Posts Appliances and VLSI and Telegraph Department, design, Television Industry and Research & Development. [NBT]

Success Story

The brilliant mind behind the founding of the Bose Corporation, a name which spells supreme quality in the fields of acoustics and sound systems, Amar Bose was a visionary much ahead of his time. Born and raised in America, he started displaying his astute mind and entrepreneurial skills from

a young age. Electronics intrigued him even as a child and he spent hours dismantling and fixing radio sets. Little did he know how much handy his skills would be during the war times! At the time of World War II, when his father's business was not doing too well, young Amar offered to help his father with his own business venture. Daily after school he would repair

radios and contributed to his family's income. He began his career in teaching and had always been interested in research. Eventually he went on to found the Bose Corporation which became a pioneer in speaker technology and psychoacoustics.

<https://www.thefamouspeople.com/profiles>

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Tie ups with Organizations of National & International repute : (INTEL – IOT Centre, Reliance Jio, SAP, Microchip, Cogenda, Edgate Texas Instruments, Huawei Telecommunications-Learning services)

Snippets of Expert Talk / STC/Seminar

Our Major Recruiters



Mr. Shivender Dahiya from ECE, FET, MRIU Batch [2008 – 2012] gave expert talk on 4th September 2017. Mr. Shivender, is currently working in Rogers Communication in Canada



Expert lecture by Dr. Zahheeruddin ,Prof Jamia Millia Islamia on the topic Fuzzy logic, Fuzzy sets, hedges and use of Linguistic variables in fuzzy logic and its applications. on 25.9.17



One week Training on 'Strategic Management and SWOT Analysis for Institution Excellence' attended by ECE faculty from 21.8.17- 25.8.17.



One week ICT program on Wireless and Mobile Communication organized under the Aegis of NITTTT, Chandigarh from 31.10.17 -3.11.17.



One week ICT program on VLSI Design organized under the Aegis of NITTTT, Chandigarh from 9.10.17- 13.10.17.



Seminar on domain knowledge was organized for student of ECE in "Analog Electronics" on 8.11.17.

Snippets of Workshop/Quiz/Paper Presentation

Trending News in ECE in association with IEI – Competition (Club Event) was organized on 8.9.17.



1st prize winner: Mr. Ritesh Singh & Mr. Abhishek Bhayana ; Topic: Artificial Intelligence

2nd prize winner: Ms. Shreya Suman & Ms. Mahima Devangan; Topic: Haptic Technology

3rd prize winner: Ms. Sradhya & Mr. Mayank Duggal; Topic: Artificial Vision.

1st prize winner: 3rd Semester - Ms. Swati, Ms. Ritika & Ms. Deepanshi ; Topic: Nano particles

1st prize winner: 5th Semester - Mr. Vishesh & Mr. Kush; Topic: Vedic Multiplier

2nd prize winner: 3rd Semester - Ms. Ritu & Ms. Risha Goel; Topic: Fractal Antenna

2nd prize winner: 5th Semester - Ms. Vaishali, Ms. Snigdha & Ms. Harshita;

Topic: Wireless Sensor Networks
3rd prize winner: Ms. Yogita & Mr. Rohan;

Topic: Textile Materials for the design of Wearable Antennas

Technical paper presentation on 27.10.17 for the students of III and V semester.



Technical Quiz Competition was conducted in collaboration with IEI, Faridabad on 6.11.17.



1st prize winner: 1st Semester - Mr. Robin Singh & 7th Semester - Mr. Abhishek & Mr. Aman

2nd prize winner: 1st Semester - Mr. Mayank Chauhan & 7th Semester - Mr. Rahul Dayal

Our Major Recruiters



Faculty Outreach

1.FDP on Nanotechnology and Promotion of Research and Innovation attended by Dr. Deepak, Dr. Abhiruchi, Ms. Priyanka, Ms. Shaveta, Ms. Vibha, Ms. Jyoti, Ms. Gagandeep, Dr. Sunanda, Ms. Amana, Mr. Deepak Dhingra on 4.7.2017.

2.Workshop on Curriculum Quality and Strategy attended by Dr. Geeta and Dr. Deepak on 5.7.2017.

3.How to Manage Stress among students, seminar attended by Ms. Romika, Ms. Perna, Ms. Pratima & Dr. Vimlesh on 7.7.2017.

4.DELNET workshop attended by Ms. Amana and Ms. Gagandeep on 29.7.2017

5.Converting Information Download to Knowledge workshop attended by Ms. Amana on 19.8.2017.

6.Green Initiative Clean Initiative "Humara Campus Swachh Campus" seminar attended by Dr. Shruti Vashist on 24.8.2017.

7.FDP on LTE Overview attended by Dr. Geeta and Dr. Shruti at Huawei,Gurgaon from 3.8.17- 4.8.17.

8.FDP on Digital India, attended by Ms .Perna, Ms. Pratima and Dr. Sunanda on 20.9.17.

9. Workshop on Preparation of Quality Self-

- Learning Support Material for MOOCs attended by Dr. Sunanda and Ms. Shaveta from 28.9.17 – 29.9.17.

10.Gearing Up for New Technologies-a motivational talk by Vice President, Reliance Jio Info comm Limited, attended by Dr. Geeta, Dr. Shruti, Dr. Abhiruchi Ms. Romika & Ms .Pratima on 6.10.17.

11.Workshop on IQAC att ended by Ms. Gagandeep on 7.10.17.

12.FDP on Cyber Security attended by Mr. Ashish, Mr. Kapil, Mr. Deepak, Ms. Jyoti, Ms. Darshna, Ms. Pratima, Ms. Shaveta & Dr. Sunanda on 7.10.17.

13.Advanced Modular Programmable Logic Controller in collaboration with Mitsubishi Electric India attended by Dr. Geeta and Dr. Shruti on 1.11.17.

14.IQAC based Interactive Session on Industrial Consultancy attended by Ms. Amana and Ms. Darshana on 20.11.17

15.Winter School on Educational Quality for Faculty, Seminar attended by Mr.Kapil and Mr.Deepak from 22.11.17 – 24.11.17.

16.IESA event Techtronics 2017 attended by Dr. Abhiruchi Passi on 8.12.17 at India Habitat Centre. Delhi.

Alumni Desk



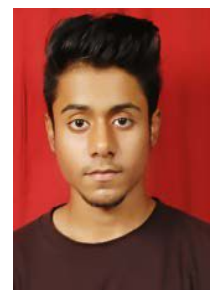
Apart from imparting technical knowhow my college life has taught me how to balance life and how to prioritize my activities so that eventually I enjoy my life. Also for each of my dream to become a reality a sheer hard work and dedication is required. College Life taught me that opportunities just simply do not fall in our lap.

Ms. Sunayana
Scientist E, DRDO

Our Proud Move's



Ms. Diksha Bhati



Mr. Yashu Meel



To investigate research opportunities and project development Dr. Dipali Bansal visited National Brain Research Centre(NBRC),Manesar on 6.9.2.17.

Dr. Vimlesh Singh and Ms. Priyanka Bansal Presented a paper "A study : Wearable Antenna" at International Conference of Soft Computing Theories and Applications - 2017 at Institute of Engineering & Technology, Bundelkhand University, Jhansi from 22.12.17 – 24.12.17. This was adjudged as best paper of the conference under the category of application based technological development.

Our Proud Techno- Buddies



Mr. Devdutt



Mr. Dhruv Sharma



Mr. Ishlok Vashistha



Mr. Sujeet Soni

Research Publication

1. Ms. Savita and Dr. Shruti, "Diversity Techniques in Wireless Body Area Network" International Journal of Engineering and Technology Vol. 9, No. 3, pp. 2141-2148, July 2017.
2. Dr. Dipali Bansal and Dr. Rashima Mahajan "Real time EEG based cognitive brain computer interface for control applications via Arduino interfacing" in Real time EEG based cognitive brain computer interface for control applications via Arduino interfacing at Rajagiri School of Engineering & Technology, Kochi, 22.8.17 to 24.8.17
3. Ms. Jyoti Verma & Dr. Indu Kashyap "Travelling distance estimation based approach to minimize unnecessary handovers" in Recent Advances in Electrical & Electronic Engineering, Bentham Science Publishers, B.V. Netherlands Vol. 10, No. 2, October 2017.
4. Ms. Priyanka Bansal and Dr. Syed Akhtar Imam "A Probabilistic Feature Based SVM Model for English Speech Recognition" in Journal of Engineering Technology, Special Issue on Technology Innovations and Applications, Vol. 6, Special Issue, pp. 35-44, October 2017.
5. Dr. Vimlesh Singh, Ms. Priyanka Bansal, Dr. Abhiruchi Passi "RF Energy Harvesting Antenna" International Journal of Advance Research in Science and Engineering Vol. 6, Issue No. 10, pp. 660-666, October 2017.
6. Ms. Priyanka Bansal & Dr. Syed Akhtar Imam, "Automated Speaker Recognition Methods: A Critical Review" in International Journal of Advance Research in Science and Engineering Vol. 6, Issue No. 10, pp. 519-524, October 2017.
7. Ms. Gagandeep Kaur, Ms. Romika Choudhary, Mr. Ashish Vats "A Wavelet Approach for Medical Image Denoising" International Journal of Advanced Research in Computer Science, Vol. 8, No. 8, pp. 46-49, October 2017.
8. Ms. Priyanka Bansal, Dr. Syed Akhtar Imam & Dr. Vimlesh Singh, "Review : Speaker Recognition Using Automated Systems" AGU International Journal of Engineering & Technology, Vol. 5, pp. 31-39, October 2017.
9. Ms. Bindiya Bhatia, Dr. M.K. Soni, Dr. Parul Tomar "Power Optimized Secure AODV Routing Protocol Based on Mobile Agents" Vol. 12, No. 16, October 2017.
10. Dr. Vimlesh Singh, Ms. Priyanka Bansal, Dr. P.K. Singhal, Dr. Lalit Gupta "A study : Wearable Antenna" presented in Soft Computing Theories and Applications 2017 at Bundelkhand University, Jhansi from 22.12.17 – 24.12.17.
11. Dr. Abhiruchi Passi & Dr. Deepak Batra "Future of Internet of Things in 5G Wireless Networks" presented in International Conference on Recent Trends in Computing at SRM University, Ghaziabad on 14.12.17.
12. Ms. Priyanka Bansal, Dr. Syed Akhtar Imam "Performance Evaluation of Speaker recognition system using Shifted MFCC, DSCC and Fuzzy Techniques" presented in International Conference on Recent Trends in Computing at SRM University, Ghaziabad on 14.12.17.
13. Dr. Vimlesh Singh, Ms. Priyanka Bansal, Dr. P.K. Singhal "Microstrip line Antenna Fabrication Materials" presented in International Conference on Recent Trends in Computing at SRM University, Ghaziabad on 14.12.17.
14. Ms. Priyanka Bansal, Dr. Syed Akhtar Imam "A probabilistic Feature based SVM model for english/hindi Speech Recognition" presented in International Conference on Recent Trends in Computing at SRM University, Ghaziabad on 14.12.17.

Student Chapter News

- Delhi Times– Fresh Face at Manav Rachna was organized on 31.8.17. Many students of 1st sem ECE participated in the event.
- SONY INDIA organized a Feet Tapping Dance battle named ‘Extra Bass Dance Competition’ at MRIU Campus on 29 .8.17 .The event was full of thrill and power as top 10 teams showcased their best move. Mr.Yashu and Ms. Diksha of 5th semester ECE are the winner of the event.
- Mr. Yashu and Ms. Diksha of 5th semester ECE geared up the audiences with some patriotic vibes on 71st Independence Day – AZAADI 71” at Amphitheatre on 11.8.17.
- Anti – Ragging Seminar organized on 9.8.17 for more than 500 included both the fresh minds at the campus and the senior students. Ms. Shubhi Saxena (B.Tech ECE, FET) shared her experience.
- Student & Faculty of ECE department participated in rally on “Humara Bharat, Swachh Bharat” under “Swachta Pakhwada” on 1.9.17. .
- Mr. and Ms. MR held at Manav Rachna Campus by G-Town Society on 5.9.17. Ms.Meenakshi Katoch of III sem ECE bagged for Ms. Delhi award.
- Blood donation camp was held at MREI campus on 15.9.17 for students and on 16.9.17 for faculty and staff members.
- Students participated in the Feed India campaign organized on 8.9.17.
- Students and faculty of Manav Rachna celebrated Christmas eve on 22.12. 17.
- Faculty and students of ECE attended Armed Forces Flag Day on 7.12.17 and honored all the Men of Manav Rachna family who served in Indian Armed Forces..

Fresher’s party 1st year students on 9.8.17.



Students of 5th sem ECE participated in Problem Statement Robotics Escalade Techniche 2017 at IIT Guwahati on 4.9.17 and won first prize.



Orientation day 1st year on 10.7.17



Lab Visit 1st year on 14.7.17



Industrial Visit of 5th semester ECE to Hughes Systique, Gurgaon on 2.9.17



Industrial Visit of 3rd and 5th semester students to NPTI Faridabad on 6.9.17



Team News Letter

Dr. Dipali Bansal, HOD (ECE)
Ms. Priyanka Bansal,
Assistant Professor (ECE)
Dr. Viimlesh Singh,
Associate Professor (ECE)
Dr. Abhiruchi Passi,
Associate Professor (ECE)
Mr. Anurag Agarwal,
Student (ECE)

To know your domain

<http://central-library.mriu.edu.in>
<http://www.newelectronics.co.uk>
<https://electronicsforu.com>

Dr. A.P.J Kalam Thought

Look at the sky. We are not alone. The whole universe is friendly to us and conspires only to give the best to those who dream and work.

The buzzzing electron

INSIDE THIS ISSUE:

- *Vision, Mission & PEO ECE*
- *Leading Story & Success Story*
- *MOUs*
- *Expert Lecture Organized*
- *Our Recruiters*
- *Event Organized*
- *Faculty Outreach*
- *Research Publications*
- *Other Activity*

Vision ECE

To impart latest knowledge and skills so as to kindle innovation & creativity among students, to develop and sustain a culture of research while promoting values, ethics and professionalism, leading to a progressive career in industry & academia globally.

Mission ECE

To engage modern education aids, laboratories and competent faculty ensuring effective teaching learning process to meet the ever growing and changing industrial and business environment.

To continuously challenge the young minds with ideas so as to carry out innovative research through interaction with the research organizations & industry and to provide them avenues for recognition by participation in challenging platforms.

To develop responsible citizens and professional leaders with high ethical and moral values, who contribute in dissemination of universal science and technology.

Lead Story Headline

The Prime Minister of India has given the slogan that we all are free Electrons and are searching for opportunities in Make in India & Digital India campaign of Government of India. "Electronics and Communication Engineering" is one of the fastest growing field of engineering courses. It involves the transmission of information across the channel. The course concept is to focus mainly on the communication part with the knowledge of the electronics field. "Electronics and Communication Engineering deals with the electronic devices and software applications. It is an interface of chip level hardware and information technology". With the recent advancements in



the technology, it is evident that the scope for Electronics and Communication is increasing day by day. From the trending autonomous self-driving cars to Internet of Things (IoT) & Wearable Gadgets, all of this is possible due to the advancement of Electronics &

Communication Engineering. Students doing Electronics & Communication Engineering (ECE) have better scope in future if they utilize their engineering concepts in the right manner and this will help them enhance their chances of employability.

Success Story

19 year old Ritesh Agarwal has quite a story. Internet and technology doesn't care for age and this youngster having found a penchant for how the web works, started

working very early in his life, at a tender age of 13. And by 17, he had started his first company- Oravel. Oravel started as an Airbnb clone but the model has undergone a twist and post receiving a seed round from Venture Nursery, the

company will be out with its new model soon. This youngster has been selected for the "20 under 20" Thiel Fellowship which makes him one of the very few Indians to have been shortlisted. This story can be a source of motivation for our students to turn into budding entrepreneurs.

Program Educational Objectives (PEOs) of B.Tech Program in ECE are:

PEO 1: To prepare Graduates with sound foundation in fundamentals of basic sciences and to assist them exhibit strong, independent learning, analytical & problem solving skills in Electronics and Communication Engineering domain.

PEO 2: To facilitate learning in the core field of Electronics and Communication Engineering so as to integrate technological progression and software & firmware skills to produce high impact, energy efficient and futuristic solutions.

PEO 3: To prepare Graduates to effectively use modern equipment and programming tools to solve real life multi-disciplinary problems that are technically sound, economically feasible and socially acceptable.

PEO 4: To assist and enable individuals acquire skills to imbibe life-long learning in the field of Electronics and Communication, related research & innovation so as to have progressive careers as Managers or Entrepreneurs.

PEO 5: To inculcate professional and ethical attitude, team spirit, leadership qualities and effective communication skills in Graduates and to make them aware of their social responsibilities.

National & International Tie-ups for Hands on Training



Futuristic Collaborations



To Set CoE / HANA (Huawei Authorized Network Academy)

Remote / Physical access to Huawei Lab on IP, Telecomm, Transmission & Cloud Computing PDP Program, Corporate Seminars, TTT, LMS.



Mindteck is a global IT company, specializing in corporate IT Services, IoT services, Mobility solutions, Healthcare and Medical devices, Semiconductor, Energy etc. Will collaborate with Mindteck for Industry oriented curriculum design (ECE with IOT program) and Student live projects.



To Set NI LabVIEW Academy wherein Certification courses can be designed to validate skills acquired at professional level.

To Set Centre of Excellence for Robotics
To Set Antenna Design and Measurement Lab
To Set PCB Design & Fabrication Lab



Has been accredited twice by NBA; Applied for NBA again, NAAC Accredited; QS Star rated: 5* in Teaching, Learning, and Social Responsibility, 4* for Employability.

Tie ups with Organizations of National & International repute : (INTEL – IOT Centre, Reliance Jio, SAP, Microchip, Cogenda, Edgate Texas Instruments, Huawei Telecommunications-Learning services)

Our Major Recruiters



Snippets of Expert Lecture

Expert lecture was given by Dr. Ankur Bansal , ECE NSIT Delhi on 'Power line communication " on 25.1.2017.



Workshop on Vector Network Analyzer by Mr. Chandeeep Singh from Silicom India Pvt. on 22.2.2017.



Workshop on Optical fiber and communication for FTTX Home connect by Reliance JIO Resource person : Mr. Manu Channana and Mr.Kafil from 2.2.2017 to 8.2.2017



Expert talk on Implementation and scope of SAP ERP system by Mr.Shubankar Patnaik, Digital Marketing Head, Asian Subcontinent on 27.3.2017



World Telecommunication and Information Society Day : Theme IOT

It was celebrated in collaboration with IEI Fbd on 17.5.2017.



Expert talk by Dr.Shishur Varma, Prof, IIIT Allahabad on "Configuring Wireless Sensor Network for IOT Applications" on 7.6.2017.

Snippets of Workshop/Quiz/Paper Presentation

Workshop on FPGA was organized by department on 23.1.2017.



Workshop on SAP ERP, SAP HANA Cloud Platform followed by CODE JAM event organized on 22.2.2017



Workshop on Big Data, Cloud Computing and Android for 4th and 6th sem students by IIHT institute from 2.3.2017 to 4.3.2017



Technical Poster Presentation in association with IEI was conducted on 17.3.2017.



SAP Ecosystem awareness contest was organized on 27.3.2017



Workshop on 3D printing by Mr.Vishal, TechB Pvt Ltd. on 3.4.2017.



A Workshop on Robotics was held on 3.4.2017.



Robo Soccer Event was organized on 3.4.2017



Virtual reality workshop by Grey kernel technologies was organized on 3.4.2017.



Our Major Recruiters



Faculty Outreach

NBA workshop conducted by Mr. Nameesh attended by Dr. Dipali, Dr. Geeta, Dr. Shruti, Dr. Vimlesh, Dr. Abhiruchi, Ms. Shaveta Ms. Priyanka, Ms. Romika and Mr. Ashish on 13.1.2017.

"Webinar on Intel's First Smart Building: SRR3 was held. The Webinar focused on Intel's SRR3 which is a 10 storey office laboratory building in Bangalore, India equipped with nearly 10,000 sensors for temperature, occupancy, lighting, energy, water, and air quality monitoring attended by Dr. Dipali Dr. Geeta, Dr. Shruti, Dr. Abhiruchi, Ms. Priyanka, Ms. Gagandeep on 22.2.2107.

Short Term course on Recent Advances in Microwave Engineering at MITS Gwalior attended by Dr. Vimlesh ,Dr. Abhiruchi, Ms. Priyanka from 20.3.2017 to 31.3.2017.

Workshop on IOT, by Chroma Campus attended by Dr. Abhiruchi and Dr. Vimlesh on 29.4.2017.

Workshop on R-Programming under Research Cluster attended by Ms. Ila, Ms. Gagandeep, Ms .Darshana, Ms. Amana, Ms. Pooja on 29.4.2017.

National Conference on Autonomy in Education attended by all ECE faculty from 1.4.2017 to 2.4.2017.

Quality Bench mark for academic excellence attended by Ms. Jyoti and Ms. Vibha from 30.5.2017 to 1.6.2017.

Faculty Awareness Programme on Research Monographs attended by Dr. Deepak Batra & Mr. Kapil Parmar on 7.6.2017.

Faculty Awareness Programme on GST attended by Mr. Kapil Parmar on 7.6.2017.

Alumni Desk



"My stay at my Alma Mater taught me to be the fountainhead of new ideas and innovations and continue to engineer service to humanity by means of commitment and technological leadership"

Dr Nakul Gupta,IIM



"I cherish those days of belongingness with CITM. It was a journey that enhanced my personality and groomed me at many phases of my life. It is due to the guidance of my faculty members that I am able to turn my dream into reality."

**Mr. Dev Vig
CEO -CereBrahm
Innovations**



Dr. Dipali Bansal contributed a chapter titled "Emerging Technologies and ICT Solutions in Healthcare" in September 2016 in the book, "Handbook of Research on Healthcare Administration and Management" published by IGI Global (USA).

Project Carnival INNOSKILL 2017 was conducted on 28.3.2017. The project titled "On Air display and on air Touch system" by Suman Kanti Mandal of 6th sem ECE dept got the first prize.

Student Chapter News

Students and faculty enrolled as volunteer in the Vittiya Saksharta Abhiyan for teaching the concepts of digital economy in January 2017

National Voters day was celebrated on 25th January, 2017

Students and faculty registered themselves for the Swachh Survekshan-2017

Students participated in the Cycle Rally 2017 which was an initiative towards social agenda of Digital India & Beti Bachao Beti Padhao in association with Jamia Milia Islamia on February 14, 2017

MRCFL, in its endeavor to achieve international standards in the field of academics and promote various cultures through fun & interactive experiences, organized Transcendence, an event, which was held on 28 February 2017

Congratulations



Harsh Vardhan Chaturvedi

for

Qualifying GATE-2017

Congratulations



Prashant Tanwar

for

Placement in Mentor Graphics

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Mr. Anurag Agarwal,
Student
Mr. Himanshu,

Research Publication

1. Bindiya Bhatia, Dr. M.K. Soni & Dr. Parul Tomar "Security breaches in trust management scheme in Mobile Ad Hoc Network" International Journal of Advanced Research, U.K, Vol.5 issue 6, June 2017.

<http://www.journalijar.com/current-issue/?mn=06&yr=2017&Ln=upload>

2. Pratima Manhas & Dr. M.K Soni "Optimized OFDM Model Using CMA Channel Equalization for BER Evaluation" Bulletin of Electrical Engineering and Informatics, Indonesia, Vol. 6, No. 2, pp. 133~139, DOI: 10.11591/eei.v6i2.614, June 2017.

DOI: 10.11591/eei.v6i2.614(Scopus(Elsevier))

3. Sunanda Gupta, Naresh Grover & Zaheeruddin "A Novel Approach For Intensity Based Non Rigid Image Registration Using Powell's Algorithm" Int.J Biomedical Engineering and technology, USA, Inderscience Publishers, Vol.24, No.2, pp.103 – 120, June 2017.

<http://dx.doi.org/10.1504/IJBET.2017.10005684>

4. Gagandeep Kaur & Shruti Vashist "A Robust Approach for Medical Image Enhancement using DTCWT" International Journal of Computer Applications, USA, Vol 167, No.6, pp.26-29, June 2017.

www.ijcaonline.org/archives/volume167/number6/kaur-2017-ijca-914316.pdf

5. Bindiya Bhatia, Dr. M.K. Soni & Dr. Parul Tomar "Vulnerability Analysis of Mobile Agents Praxis in Mobile -Ad Hoc Networks" International Journal of Computer Applications, USA, Vol. 163, No 7, April 2017.

<http://www.ijcaonline.org/archives/volume163/number7/27411-2017913633>

5. Ms.Gagandeep and Dr.Shruti Vashist "Comparative Study of Medical Image Contrast Enhancement using Discrete Wavelet Transform and Dual Tree Complex Wavelet Transform" Journal of Biomedical Engg and Medical Imaging, U.K, Vol. 4, Issue 2, pp. 105-114, April 2014.

<http://scholarpublishing.org/index.php/JBEMi/article/view/3109>

6. Pratima Manhas & Dr. M.K Soni "Performance of OFDM System under Different Fading Channels and Coding" Bulletin of Electrical Engineering and Informatics, Indonesia, Vol. 6, Issue 1, pp. 54-61, March 2017.

DOI: 10.11591/eei.v6i1.591

7. Pratima Manhas & Dr. M.K Soni "OFDM Performance Evaluation under Different Fading Channels using Matlab Simulink" Indonesian Journal of Electrical Engineering and computer science, Indonesia, Vol. 5, No. 2, pp. 260-266, February 2017.

DOI: 10.11591/ijeecs.v5.i2

8. Ms.Savita & Dr.Shruti Vashist "Design and Implementation of Wireless Body Area Network using physiological parameters" Journal of Biomedical Engineering and Medical Imaging, UK, Vol. 4 No.1, pp.13-20, February, 2017.

scholarpublishing.org/index.php/JBEMi/article/view/2800

9. Jaya Dagur & Savita Sindhu "BER based performance analysis of 2x1 Alamouti's diversity and 4x4 MIMO diversity with Interleaver and Encoder for BPSK, QPSK and QAM", International Journal of Information Engineering and Electronic Business, Hong Kong, Vol.1, pp.47-55, January 2017.

<http://www.mecspress.org/ijieeb/ijieeb-v9-n1/IJIEEB-V9-N1-6.pdf>

10. Kumar Mohit, Vibha Rani Gupta, and S.K. Rout, "Compact magneto dielectric resonator MIMO antenna for angle diversity" Turkish Journal of Electrical Engineering & Computer Sciences, Turkey, Vol. 25, pp.2066-2073, 2017,