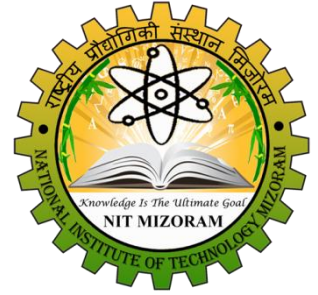


THE COMPENDIUM

The Quarterly Bulletin of NIT Mizoram



In This Issue

This is the second issue of the first volume of the Institute Bulletin. This issue includes various events which were conducted from 1st October – 31st December, 2017 such as Cultural and Sports Fests, various workshops and programmes, competitions, Observation of Vigilance Awareness Week, activities of NSS and RAA units of the Institute, Celebration of Rashtriya Ekta Diwas and Constitution Day. This issue also highlights on achievements of students. It also mirrors the progress of research in the Institute through publications and sponsored projects.

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Events @ NIT Mizoram

Annual Sports Fest SHAURYA 2K17: The much-awaited Sports Day

“SHAURYA



2K17" was held from 20th to 22nd October. The fantastic turnout from the teachers and the pleasant weather were the perfect boost for the students on their very first sports day at NIT Mizoram. The students entered into the spirit of the occasion in a grand way with the oath

being administered by Dr. Vinay Singh (Sports in Charge) and Mr. Pragati Singh (Asst. Sports in Charge). The National Anthem and an energizing exercise set the tone for the rest of the event. Once the races began, the air was filled with cheering and tones of encouragement for the young athletes. Students of different branches competed in events including outdoor games like football, volleyball, races and indoor games like badminton, table tennis, carrom, chess etc. The fun time in presence of the faculties added to the enjoyment. This event was jointly dominated by



the students of Electrical and Electronics Engineering and Civil Engineering department as they were declared the winners and department of Computer Science & Engineering and Mechanical Engineering were declared as 1st and 2nd runner-up respectively. The day ended with congratulating the winners with medals and certificates by Prof. Rajat Gupta, Director of the Institute.

Celebrating Dipawali by Organizing Rangoli Competition: On the occasion of Dipawali festival, a Rangoli Competition was organized in all three hostels on 19th of October 2017. Students participated in this competition with great zeal. Three best groups were selected for 1st, 2nd and 3rd prizes, whereas three groups got consolation prizes.



Organizing a GIAN course on Advance Thermal Systems: Energy, Exergy and Economic Approach: This was the first GIAN course organized by the Department of Mechanical Engineering and was held between 20th – 26th of October 2017 at the Virtual



Class Room, Academic Block-III of the Institute. The program had overwhelming and enthusiastic participation from external Institutes like BIT Mesra and



students from Mechanical Department as well as other departments of the Institute. The program started with the lighting of the lamp on the opening day where the course coordinator Dr. Abhijit Sinha welcomed the course faculty Prof. Bale V. Reddy of University of Ontario Institute of Technology (UOIT), Canada and the participants. The valedictory program held on the closing day of the GIAN course was attended by students and faculty members. In his speech, the Director, Prof. Rajat Gupta discussed on how the host Institute could take advantage of the opportunities provided through GIAN for enhancing the research environment.

Organizing One Day Workshop on Start-up's & Innovations: Innovation club of

the Institute organized one day workshop on “Startup and Innovation” on 28th October 2017. Dr. Sanjeev Majumdar, Deputy Manager, NRDC India and Mr. Lalbiakzuala Ralte, President awardee and local entrepreneur were present in the workshop as speaker and chief speaker respectively. The program was initiated with a



welcome speech given by the Director of the Institute. This workshop was intended as the first step which focussed on “**Startup and Innovation**”. The lecture on “**Startup India**” was delivered by Dr. Sanjeev Majumdar. Startup India is a campaign launched by the Government of India to encourage startups of India and pushes youths towards entrepreneurship by supporting them through bank financing for more jobs created in India. Mr. Ralte, who invented Round Agarbatti Stick Making Machine, Dough making machine, also shared his views on startup and fired up the students to come with new initiatives. This session gave the students a framework for constructing a plan to pursue their dreams on innovation. This programme was sponsored by TEQIP III.

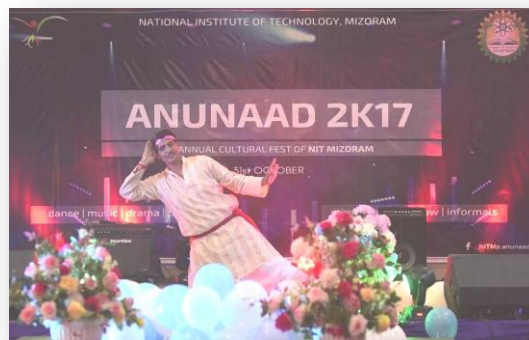


The Cultural Fest ANNUNAAD 2K17: NIT Mizoram celebrated its cultural fest “ANUNAAD 2K17”, fourth of its kind on 31st of October 2017. The President of cultural society alongwith Dr. Alok Shukla, Faculty in-charge (Academics), lightened the lamp in the presence of other distinguished faculty members. Students sang the National Anthem and Mrs. Krishnarti De started the



event with her welcome speech followed by the speech of Suraj Gupta (Vice President) and Ajmera Dheeraj (Secretary) of cultural society.

At the onset students of the first year blew the fire with their splendid classical dance which was dedicated to Lord Ganesha. The students also expressed their talent with modern traditional dance forms.



In addition, the atmosphere was filled with an echo of guitar and Cheraw, the traditional dance of Mizoram. Various societal issues were also presented through drama and street play. Engineers on the ramp showed their confident walk and exhibited their fashion skills. Later, the event was concluded by dancing on the DJ floor.

A celebration of Vigilance Awareness Week: A week-long programme and activities on the occasion of Vigilance Awareness Week – 2017 was conducted in the Institute during 30th October – 4th November 2017. The theme of this year's Vigilance Week was **"My Vision – Corruption Free India"**. Regarding this a one-day seminar on **"Corruption in India. Issues and Challenges"** was held in the Virtual Classroom, Academic Block – III, NIT Mizoram. Prof. Pradip Kumar Ray, Department of Industrial and Systems Engineering, Indian Institute of Technology (IIT) Kharagpur, was the Chief Guest of the seminar. The Director of the Institute, Prof. Rajat Gupta and Chief Vigilance Officer (CVO) of the Institute, Dr. K. Gyanendra Singh, AP (HSS) also delivered talks on the issues of Corruption in India and challenges we face and what is the way forward in making India, a corruption free nation.

A celebration of Sardar Vallabhbhai Patel Birth Anniversary as Rashtriya Ekta Diwas: Institute commemorated the birth anniversary of Sardar Vallabhbhai Patel as Rashtriya Ekta Diwas on 31st of October 2017. Students, as well as faculty members, participated in Run for Unity. On this occasion an Essay Writing competition was organized on the topic, **"Relevance and Importance of Sardar Patel in Today's India"** and Mr. Amit Pandey (B.Tech. 3rd semester) student of Electrical and Electronics Engineering branch won the first prize.

Conducting a Three Days Induction Programme for 1st Semester Students:



This Induction Program for first year B. Tech. students was conducted from 1st-3rd November 2017 in the virtual classroom of Academic Block-III, NIT Mizoram. Mr. Anumoy Ghosh (AP,ECE) and Dr. Surender Ontela (AP,Mathematics) delivered lectures on Human Values on 1st November 2017. In the second half, the students had given presentations on given topics. On 2nd November Dr. K. Gyanendra Singh(AP,HSS) and Mr. Anagha Bhattacharya(AP, EEE) delivered lectures on human values followed by a poster presentation competition in which cash prizes of 3000/-, 2000/- and 1000/- were awarded to the top 3 participants. On 3rd November Dr. H. Lalhmingsanga took the first year students for a local visit at Science Centre, Berawtlang and the students enjoyed the local outing. This programme was sponsored by TEQIP III.

One-day Programme on Faculty and Staff Motivation and release of Institute Bulletin (The Compendium):

One Day programme on faculty and staff motivation was held on 23rd November and this initiative was taken by the Director of the Institute. Some faculty members and non-teaching staff delivered talks on various aspects of motivation and general development of NIT Mizoram. The Director delivered the last talk



where he emphasized on maintaining harmony inside the campus and striving for continuous advancement of the Institute. This programme was sponsored by TEQIP III.

In the same event, the first issue of the Institute Bulletin “The Compendium” was released. The Bulletin is the brain-child of The Director. It highlights the events organized in NIT Mizoram and the achievements of faculty, staff, and students of the Institute. It acts as a mirror which reflects the steady progress of the Institute.

A celebration of 126th Birth Anniversary of Dr. B. R. Ambedkar as Constitution Day: Constitution Day was observed on 27th of November, 2017. On this occasion, faculty, staff and students gathered in the administrative block to take the oath on the **Preamble and Fundamental Duties**. Everyone took part in full strength in this ceremony.

Organizing Teacher Training under Rashtriya Avishkar Abhiyan (RAA):



The **RAA** cell of the Institute in collaboration with Rashtriya Madhyamik Shiksha Abhiyan (RMSA), School Education Department, Govt of Mizoram organized an In-Service Training of Existing High School Teachers (Aizawl District) during 12th – 15th December 2017 and coordinated by Dr. P. Ajmal Koya (Coordinator, RAA). Lectures on Philosophical Foundations of Teaching

Science and Adolescence Mental Health were presented by Dr. Lalchawimawii Ngente, Asst. Prof., IASE and Ms. Lalremruati, Asst. Prof., Govt. Aizawl West College, respectively. Inclusive Education for Disabled at Secondary Stage, IEDSS was offered by Ms. Lalthankimi, Special Educator, RMSA, while topics on practical issues in Physics and Chemistry were delivered by Mr. Zairemmawwia Renthlei,



Asst. Prof., IASE. Dr. Alok Shukla, Asst. Prof. (Physics) and Dr. P. Ajmal Koya, Asst. Prof. (Chemistry) of NIT Mizoram served as the resource persons for Physics and Chemistry respectively, in the program.

One-day Programme on Outcome Based Education and Accreditation: It was held on 15th December, 2017 at Virtual Class Room, Academic Block-III of NIT Mizoram. The objective



of the programme was to create awareness among the staff and scholars about the accreditation process.

Prof. Rajat Gupta, the Director of the Institute presented an overview on the need, importance, prerequisites and related advantages of accreditation through NBA (National Board of Accreditation). He stressed on the quality of education which can be measured, based on the outcomes in terms of knowledge, skills, and attitude. Dr. K. Gyanendra Singh, Assistant Professor, Department of Humanities

and Social Sciences spoke on the new e-technology based programs and credit transfers through several online courses like GIAN, NPTEL, etc. in his presentation on ‘Academic Reforms’. This programme was attended by all the staff and PG students of the Institute. The presentations were followed by discussions on the issues and challenges which were relevant to NIT Mizoram. This programme was sponsored by TEQIP III.



National Service Scheme (NSS) Activities

Organising Cleanliness Week: On the event of the inauguration of cleanliness week, 30 NSS volunteers of the Institute participated in the function to work in Lammual Ground premises on 2nd October 2017, which was organized by Urban Development



and Poverty



Alleviation Department, Govt. of Mizoram.

volunteers (10 girls and 50 boys) participated for the whole day.

Field Survey at Lengpui Village: In collaboration with Unnat Bharat Abhiyan (UBA) cell of the Institute, the NSS unit carried out a field survey at Lengpui village on 2nd October, 2017 where 60 student

Expert Talks by External Members

- ❖ Dr. Amitabh Chatterjee, Associate Professor, IIT Guwahati, India, delivered a lecturer on “**IC Technology**” for M.Tech students of ECE department from 11th – 15th October 2017.
- ❖ Dr. Gaurav Trivedi, Asst. Professor, IIT Guwahati delivered aguestlectureon the topic “**Analog VLSI Circuits**” for M.Techstudents of ECEdepartment from 9th - 12th November 2017.
- ❖ Dr. Pradip Kumar Ray, Professor, and Former Head, Department of Industrial and Systems Engineering, IIT Kharagpur delivered an expert lecture on the topic “**Contemporary Study and Research Issues of Quality Engineering**” for all students and faculty of the Institute on 3rd November 2017.

Representing NIT Mizoram

- ❖ **Ek Bharat Shrestha Bharat (EBSB)** scheme was launched by MHRD, Govt. of India and a total of 18 students of NIT Mizoram under the guidance of Dr. K. Gyanendra Singh, AP (HSS), Nodal Officer, EBSB, NIT Mizoram visited NIT Agartala during 26th – 28th October 2017. The students of the Institute performed the famous Mizo traditional dance known as **Cheraw or Bamboo Dance**. Students also participated in a number of activities such as Essay Competition and Debate Competition and NIT Mizoram won 1st Prize in Debate Competition and 2nd



Prize in Essay Writing Competition.

- ❖ A team of two members Mr. Rajiv Ranjan Thakur (M. Tech 2nd Year, ECE) and Mr. Abhishek Kumar Singh (B. Tech, 4th Year, ECE) participated in the Synopsys India 2017 Custom Design Contest held at Synopsis India. Pvt. Ltd., Bangalore during 23rd – 25th October 2017 under the Guidance of Mr. Pragati Singh, Asst. Professor ECE and Faculty Advisor of Synopsys Team.
- ❖ A team of five members Mr. S. S. Kiran (M. Tech 2nd Year, ECE), Mr. A. Kumar (B.Tech, 3rd Year, ECE), Mr. S. Swaraj (B. Tech, 3rd Year, ECE), Mr. S. K. Singh (B.Tech, 3rd Year, ECE) and Mr. K. K. Bhargav (B. Tech, 3rd Year, ECE) participated in the 5 days workshop on VLSI Design using Cadence at NIT Silchar during 1st – 5th November, 2017.



- ❖ Football, Yoga and Kho-Kho teams of the Institute were



accompanied by Mr. Pragati Singh, Asst. Sports Incharge, and participated in Inter NIT Football, Kho-Kho and Yoga meet held at NIT Agartala during 26th – 28th October 2017.



Conferences/ Workshops/ Training Programme

- ❖ Dr. P. Ajmal Koya, AP, Basic Sciences, attended a programme on “Nano Mission School on Nanoscience & Nanotechnology” held at Centre for Nano and Soft Matter Sciences, Jalahalli, Bangalore, 23rd October – 3rd November 2017.
- ❖ Dr. Surender Ontela, AP, Basic Sciences, attended the GIAN Course on “Introduction to Mathematical Theory of Complex Fluids” held at Dept. of Mathematics, NIT Kurukshetra, November 17th – 22nd, 2017.
- ❖ Dr. H. Lalhmingsanga, NSS Programme Officer attended a training programme “Training for untrained NSS Programme Officer” at Indian Institute of Entrepreneurship (IIE), Guwahati during 8th – 14th October 2017.
- ❖ Amarnath Pathak (JRF & Ph.D. Scholar, Dept. of CSE) and Amika Achom (Ph.D. Scholar, Dept. of CSE) attended the GIAN Course on “Neural Machine Translation” held at IIT Patna, December 4th – 10th, 2017.
- ❖ Narayana Reddy (3rd Year B. Tech Student) attended “Google Developer Days” held at Bangalore, from December 1st–2nd, 2017. It is a global event organized by Google to showcase their latest products and platforms for the users and developers.
- ❖ Dr. Chaitali Koley, AP, ECE, attended the GIAN course on “Microwave and THz Imaging of the Stratified Media for Industrial and Biomedical Applications” held at IIT Kanpur, from December 5th – 9th, 2017.
- ❖ Dr. Chaitali Koley, AP, ECE attended “Professional Development Training” held at IIM Raipur, from December 14th – 18th, 2017.
- ❖ Mr. Anagha Bhattacharya, AP, EEE, attended the GIAN course on “Emerging Cutting-Edge Technologies in Advanced Electrical Machines and Drives” held at Delhi Technological University, November 6th–10th, 2017.
- ❖ Dr. Basil Kuriachen, AP, ME, attended ASME's programme on “International Mechanical Engineering Congress and Exposition 2017” held at Tampa, USA, from November 3rd – 9th, 2017.
- ❖ Dr. Basil Kuriachen, AP, ME, attended a workshop on “Laser: fundamentals and applications” held at IIT Kanpur, November 13th – 17th, 2017.

Achievements

- ❖ Saurav Saha, a student of 8th-semester Computer Science & Engineering department bagged a package of 17.30 LPA and placed in BPCL, a Govt. of India undertaking maharatna PSU.
- ❖ B.Tech 6th semester students Shantanu Acharya (BT15CS012) and Rakhee (BT15CS007), of the Department of Computer Science and Engineering, were selected for the MITACS Globalink Scholarship Program for pursuing a Summer Internship at Canada, (Summer, 2018).

Research Grants @ NIT Mizoram

- ❖ Project entitled **“Special Manpower Development Programme for Chips to System Design (SMDP-C2SD)”** is ongoing in the Department of Electronics and Communication Engineering and Dr. Chaitali Koley and Mr. Pragati Singh are acting as Principal Investigator and Co-Investigator respectively. It is funded by Ministry of Electronics and Information Technology (MeitY), New Delhi, India for the period of 5 years with the sanctioned amount of Rs. 17,25,000.
- ❖ The project entitled **“Analysis, Design and Control of Active Magnetic Bearing for High Speed Application”** is ongoing in the department of Electrical and Electronics Engineering and Dr. Pabitra Kr. Biswas is acting as Principal Investigator. It is funded by Science and Engineering Research Board of Department of Science & Technology (DST SERB), New Delhi, India for the period of 3 years with the sanctioned amount of Rs. 15,72,800.
- ❖ The project entitled **“An Application of Textual Entailment and Semantic Similarity in Scientific Document Retrieval System”** is ongoing in the Department of Computer Science & Engineering and Dr. Partha Pakray is acting as Principal Investigator. It is funded by Science and Engineering Research Board of Department of Science & Technology (DST SERB), New Delhi, India for the period of 3 years with the sanctioned amount of Rs. 18,31,000.
- ❖ The project entitled **“Textual Instructions to Virtual Actions”** is ongoing in the Department of Computer Science & Engineering and Dr. Partha Pakray and Prof. Rainer Malaka are acting as Principal Investigator and Co-Investigator respectively. It is funded by the Department of Science & Technology (DST), New Delhi, India and Deutscher Akademischer Austauschdienst German Academic Exchange Service (DAAD), Germany for the period of 2 years with the sanctioned amount of Rs. 18,90,000.
- ❖ The project entitled **“Development of Bi-based Nano Sized Electronic Materials for Multiferroic Applications”** is ongoing in the Department of Physics and Dr. Alok Shukla is acting as Principal Investigator. It is funded by the Science and Engineering Research Board of Department of Science & Technology (DST SERB), New Delhi, India for the period of 3 years with the sanctioned amount of Rs. 38,82,560.
- ❖ The project entitled **“Design, Synthesis, and In-Vitro DNA Binding Studies of Novel Peptide Derivatives and their Metal Complexes”** is ongoing in the Department of Chemistry and Dr. A. Jamsheera is acting as Principal Investigator. It is funded by the Science and Engineering Research

Board of Department of Science & Technology (DST SERB), New Delhi, India for the period of 3 years with the sanctioned amount of Rs. 32,65,560.

- ❖ The project entitled **“Numerical Modeling, Simulations and Experimental Investigations to improve the Surface Tribological properties of Ti-6Al-4V through Developing wire electrical discharge alloying Scheme. ECR”** is ongoing in the Department of Mechanical Engineering and Dr. Basil Kuriachen and Dr. Jose Mathew are acting as Principal Investigator and Co-Investigator respectively. It is funded by the Science and Engineering Research Board of Department of Science & Technology (DST SERB), New Delhi, India for the period of 3 years with the sanctioned amount of Rs. 22,94,600.

Research Publications

- ❖ A. R. Sengupta, A. Biswas, and R. Gupta, “The aerodynamics of high solidity unsymmetrical and symmetrical blade H-Darrieus rotors in low wind speed conditions”, *Journal of Renewable and Sustainable Energy*, Vol. 9, Issue 4, pp. 043307 (1-11), 2017.
- ❖ A. R. Sengupta, A. Biswas, and R. Gupta, “Investigations of H-Darrieus rotors for different blade parameters at low wind speeds”, *Wind and Structures, An International Journal*, Vol. 25, No. 6, pp. 551-567, 2017
- ❖ Anumoy Ghosh, Amartya Banerjee, Santanu Das. “Dual-Band Notched Wide-Slot UWB Antenna for Low-Cost RFID Applications”, *IEEE Conference on Information and Communication Technology*, IIIT Gwalior, November 2017.
- ❖ Anumoy Ghosh, SK. Nurul Islam, Gobinda Sen, Mukesh Kumar, Santanu Das. “Dual Polarized Dual Band CPW Fed Antenna for Bluetooth and WLAN Applications”, *IEEE CALCON*, Kolkata, December 2017.
- ❖ Lalthanpui Khiangte, Rudra Sankar Dhar. “Double Strained Si Channel Heterostructure on Insulator MOSFET in sub-100nm regime”. 2nd International Conference on MAMI 2017, CVRCE, Bhubaneswar, India, December, 2017.
- ❖ Lalthanpui Khiangte, Rudra Sankar Dhar. “Development of Double Strained Si Channel for Heterostructure on Insulator MOSFET”. 2nd International Conference on MAMI 2017, CVRCE, Bhubaneswar, India, December 2017.
- ❖ Rudra Sankar Dhar, Lalthanpui Khiangte. “Doubly Infused Strain in sub-50 nm three layered channel Heterostructure on Insulator MOSFET”, *ICN:3I-2017 Conference*, IIT Roorkee, India, December 2017.
- ❖ Jackson Gurung, Pulikkal Ajmal Koya. “Effects of Cationic Surfactants on Clouding Action of the Drug Amitriptyline Hydrochloride in Ethylene Glycol-Water and Glycerol-Water Mixed Media”, *ChemistrySelect* 2, p. 9193– 9200, October 2017.
- ❖ K. Gyanendra Singh. “Conservation Vs Livelihood: Stakeholder Preference over the Improved Conservation of Loktak Lake in Manipur”, *The Ninth Biennial Conference of the Indian Society for*

Ecological Economics titled Sustainability, Institutions, Incentives: Voices, Policies, and Commitments at the Kerala Institute of Local Administration, Thrissur, Kerala, November 2017.

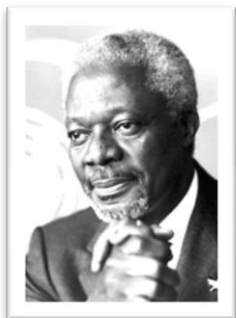
- ❖ Alok Shukla. "Design and Development of Bismuth Ferrite based Environmentally Friendly Multiferroic Material for Devices", Ideas, Innovations & Initiatives -2017 (ICN:3I-2017), Indian Institute of Technology Roorkee-247667 (Uttarakhand) Dec. 06-08, 2017.
- ❖ Sriparna Saha, Ranjita Das, Partha Pakray. "Aggregation of multi-objective fuzzy symmetry-based clustering techniques for improving gene and cancer classification", Soft Computing, ISSN 1433-7479, DOI 10.1007/s00500-017-2865-3, pp. 1-20, 29/10/2017, 2017.
- ❖ Somnath Banerjee, Partha Pakray, Riyanka Manna, Dipankar Das. "NITMZ-JU at IJCNLP-2017 Task 4: Customer Feedback Analysis", Proceedings of the 8th International Joint Conference on Natural Language Processing (IJCNLP), Shared Tasks, p. 180-183, Taipei, Taiwan, November 27 - December 1, 2017.
- ❖ Sandip Sarkar, Dipankar Das, Partha Pakray. "JU NITM at IJCNLP-2017 Task 5: A Classification Approach for Answer Selection in Multi-choice Question Answering System", Proceedings of the 8th International Joint Conference on Natural Language Processing, Shared Tasks, p. 213-216, Taipei, Taiwan, November 27 - December 1, 2017.
- ❖ Amarnath Pathak, Partha Pakray. "An Improved and Intelligent Boolean Model for Scientific Text Information Retrieval", International Conference on Social Transformation - Digital Way (CSI 2017), 52nd Annual Convention of Computer Society of India (CSI 2017), Science City, Kolkata, January 2018. (Accepted).
- ❖ Goutam Majumder, Partha Pakray, David Pinto. "Interpretable Semantic Textual Similarity using Lexical Semantic Similarity and Word2Vec Model", International Conference on Social Transformation - Digital Way (CSI 2017), 52nd Annual Convention of Computer Society of India (CSI 2017), Science City, Kolkata, January 2018. (Accepted).
- ❖ Partha Pakray, Goutam Majumder and Amarnath Pathak. "An HMM based POSTagger for POS tagging of Code-Mixed Indian Social Media Text", International Conference on Social Transformation - Digital Way (CSI 2017), 52nd Annual Convention of Computer Society of India (CSI 2017), Science City, Kolkata, January 2018. (Accepted).
- ❖ Jonathan Laldingliana, Pabitra Kumar Biswas, Sukanta Debnath "Magnetic Analysis of Single-Axis Active Magnetic Bearing using ANSYS base Environment", International Journal of Engineering Technology Science and Research, Volume 4, Issue 11, p. 169-174, November 2017.
- ❖ Chiranjit Sain, Sanjeevi Kumar Padmanaban, Atanu Banerjee, Pabitra Kumar Biswas. "An Efficient Flux Weakening Control Strategy of a Speed Controlled Permanent Magnet Synchronous Motor Drive for Light Electric Vehicle Applications", IEEE CALCON, Kolkata, December 2017.
- ❖ Suman Jana, Pabitra Kumar Biswas, Upama Das, "A Comparative study of two-level and five-level inverter to convert Super capacitive Energy for PMSM Load". IEEE CALCON, Kolkata, December 2017.
- ❖ Sukanta Debnath, Pabitra Kumar Biswas, Jonathan Laldingliana. "Analysis and Simulation of PWM Based Power Amplifier for Single Axis Active Magnetic Bearing (AMB)". IEEE International Transportation Electrification Conference, December 2017.

- ❖ Suman Jana, Pabitra Kumar Biswas, Upama Das. "Integration of Supercapacitive storage in Renewable Energy system to compare the response of two level and five level inverter with RL type Load", International Conference on Electrical, Electronics, Materials and Applied Science, Secunderabad, Telangana, India, December 2017.
- ❖ Krishnarti De, Suman Majumder, Praveen Kumar, Ramesh Rayudu. "Effect of an electrical bus network on Guwahati grid", IEEE PES ISGT ASIA 2017, University of Auckland, Auckland, New Zealand, December 2017.
- ❖ R. V. Castelino, S. Jana, R. Kumar, N.K. Singh, "Optimization and development of Solar power system under diffused sunlight condition in rural areas with Supercapacitor integration", International Conference on electrical, electronics, materials and applied science, Swami Vivekananda Institute of Technology, Telangana, Hyderabad, 22-23 December, 2017.
- ❖ R. V. Castelino, S. Jana, R. Kumar "Analytical and experimental study of Parafoil Kite force with different angle of attack in ANSYS environment for wind energy generation", International Conference on New Frontiers of Engineering, Science, Management and Humanities, Institution of Electronics and Telecommunication Engineers, Chandigarh, 9th December, 2017.
- ❖ R. V. Castelino, S. Jana, R. Kumar "Analytical and experimental study of Parafoil Kite force with different angle of attack in ANSYS environment for wind energy generation", International Journal of Electronics, Electrical and Computational System, Vol. 6, Issue 12, pp. 33-38, 2017.



"The end product of education should be a free-creative man, who can battle against historical circumstances and adversities of nature."

-----Dr. S. Radhakrishnan



"Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family."

-----Kofi Annan