



# MMMUT Chronicles

A Biannual Newsletter of Madan Mohan Malaviya University of Technology, Gorakhpur

(तकनीकी शिक्षा की तपस्थली)

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## Vice Chancellor's Desk

I am pleased to share the various activities of the University through the second volume of University magazine "MMMUT Chronicles", Jan-June 2018. During this period, University achieved many milestones in academics, research and student activities. Some of the highlights are:



- Successfully conducted the selection of faculty for Chemical Engineering and three faculty members joined the department.
- Held two Academic council, two finance committee, two Board of Management and one examination committee meetings.
- Started Malaviya Utkrishi Seva Samman to Staff members to be given on 26<sup>th</sup> January every year and Malaviya Distinguish Lecture series (min one in each semester).
- 10 conferences/Seminars/FDP were organised.
- Summer term and summer internship in University (Mechanical and Electronics & Communication Engg) started. Five students went to Ryukus University Japan for summer internship.
- Counselling for B.Tech. 1st Year (90% seats), B.Tech. IInd year, M.Tech., MBA, MCA of successful candidate of Malaviya Entrance Test (MET) 2018 is started. 10% seats of B.Tech. 1st Year is being filled through JEE Mains merit list and counselling with HBTU Kanpur. 10% supernumerary seats (for outside the UP Domicile) of B.Tech. 1st Year is being filled by University through JEE Mains merit list.
- University bags many sponsored and consultancy projects of India and abroad. Various MoUs are signed with Universities/Institutes of India and Abroad for students/academic exchange, etc.

Our vision is to make M.M.M. University of Technology a name to reckon with in the academic fraternity by giving a strong impetus to creating an environment of knowledge application and holistically inspiring students to become eminent leaders of tomorrow. We are prepared to accept make our University a world-class educational centre of knowledge generation, acquisition and dissemination that will benefit society, and to educate and train people to work in fields where they will be valued both for their specialised knowledge and for their ability to research, communicate and solve problems for the benefit and welfare of the society.

I am confident that this issue of half-yearly newsletter will prove up to the expectations of its readers and act as a literary treasure and source of information for all. I acknowledge and appreciate the efforts of The Editorial Board for timely publication of this issue of University Newsletter.

## Indo-German Project Meeting at Munich Germany

A kick off meeting of Indo-German project on Efficient Energy Management in the System Having Water and Energy Technologies (ECOWET) is held on 13th and 14th June 2018 at Munich Germany. The project partners from India are IIT Gandhinagar, MMMUT Gorakhpur and GIFT City, Ahmadabad, Gujarat whereas from Germany side, the partners are Fortiss, Technical University, Munich and Sonnen Germany.

The project aims at strengthening Indo-German research and innovation in the field of smart-grids and smart batteries. The uniqueness of this project is the energy efficient use of water and energy technologies. The outcome of the two full day meeting is use case development, hardware-software requirement elicitation and work group creation to carry out tasks till the next face to face meeting.



## UKIERI Project Meeting at Edinburgh University, UK

Second Meeting of UK - India Education & Research Initiative (UKIERI) Project meeting on Data Driven Intelligent Energy Management for Environmentally Sustainable Energy Access (D-DIEM) was held during April 26-27, 2018 in Edinburgh University, UK. This is an international collaborative research project between the Universities of Edinburgh and Queen's Belfast from the UK, and the Indian Institute of Technology at Gandhinagar and the MMM University of Technology Gorakhpur from India.



The main project objectives are:

- to review, assess and develop intelligent energy management platforms and key strategies for the successful transition to a low-carbon sustainable society, focusing on data-driven software and technology platforms for intelligent energy management;
- to engage in internal and outreaching exchange and dissemination of skillsets and knowledge

The project also focuses on capacity-building in the form of local training, workshops and targets publications and develops a synergetic framework for long term collaborative research between UK and India.

**Scheme Tab 20-20: First 40 ranked candidates (20 boys and 20 girls) seeking admission in different courses of B.Tech. (I Year) through MET-2018 will be honored with a Tablet to each.**

**MESA: A Scheme to award 15 meritorious students with Malaviya Excellence Student Award (MESA) every year on the occasion of Independence Day.**

### Foreign Visitors

Following experts from outside country, visited M.M.M. University of Technology, Gorakhpur between Jan-June 2018.

- Prof. Tomohisa Wada, Department of Information Engineering, University of the Ryukyus, Japan on Jan 15, 2018.
- Sri Mukul Sharma, Retail Solutions Group, North America, Tata Consultancy Services Greater Chicago Area, USA on February 02, 2018.
- Prof. Vincenzo Piuri, Department of Computer Science, University of Milan, Italy.



### Short Term Course on “Advances in Computing Technology (ACT-2018)”

Department of Computer Science & Engineering organized a one-week short term course on “Advances in Computing Technology (ACT-2018)” during March 12-18, 2018. Eminent speakers from reputed industry/academia delivered talks on various emerging areas such as Image Processing and Computer Vision, Soft Computing, Cognitive Computing, Machine Learning and its applications, Neural Network and Fuzzy Logic, Big Data and its applications, Deep Learning, Natural Language etc. More than 75 delegates from different institutions participated in this course. Prof. G. C. Nandi, IIIT, Allahabad delivered keynote speech while Prof. D. K. Lobiyal, School of Computers and system sciences, JNU, New Delhi; Prof. Rajeev Srivastava, IIT (BHU), Varanasi; Prof. M. M. Gore MNNIT, Allahabad; Prof. A. K. Singh, NIT, Kurukshetra; Prof. Vivek Kumar Singh, BHU, Varanasi; Prof. Rakesh Kumar, MMMUT, Gorakhpur; Dr. S. K. Singh, IIIT, Allahabad; Dr. Ashish Khare J. K. Institute, Allahabad University; Dr. D. K. Yadav MNNIT, Allahabad; Dr. Nagendra Pratap Singh, MMMUT, Gorakhpur; Shri. Sushil Kumar Saroj, MMMUT, Gorakhpur and Sri Rohit Kumar Tiwari, MMMUT, Gorakhpur delivered expert talks on the area mentioned above. Chairman of the program Prof Rakesh Kumar, and coordinators Dr. Divakar Yadav and Dr. Nagendra Pratap Singh congratulated the participants participants and organizing committee for successful organization of the event.



### Short-term course on Strategies for Sustainable Development: Goals & Issues

A short-term course on Strategies for Sustainable Development: Goals & Issues was organized (under TEQIP-III) by the Department of Civil Engineering to provide knowledge and skills about the latest trends in the arena of Civil Engineering. This short-term course held from February 19- 25, 2018 in the Jai Krishna Seminar Hall of Civil Engineering Department. This short-term course was inaugurated with key note lecture by Prof. Devendra Mohan, IIT (BHU), Varanasi. Moreover, many expert lectures were also delivered by invited delegates and dignitaries including Dr. V.P. Singh and Dr. R.K. Srivastava, MNNIT Allahabad and many other delegates on various topics. Dr. Vinay Bhushan Chauhan, Er. Vinay Kumar and Er. Madan Chandra Maurya also delivered lectures in the short-term course and made aware the students with recent advances and developments in the field of civil engineering. From this short-term course, not only the students as well as faculty members of civil engineering department benefitted. This short-term course was organized by the Ms. Shweta Yadav and Mr. Vikas Kumar, Assistant Professor, Civil Engineering Department.



## STC on Computational and Manufacturing Challenges in Mechanical Engineering (CMCME-2018)

The Department of Mechanical Engineering organized one-week TEQIP III sponsored Short-Term Training Programme (STTP) on “Computational and Manufacturing Challenges in Mechanical Engineering (CMCME-2018)” during March 19-25, 2018. The program was inaugurated by Mr. Ajay Kumar Singh, Principal Chief Mechanical Engineer, North Eastern Railway, Gorakhpur. The objective of the STTP was to enrich the knowledge of the participants about the application of computational methods in the Mechanical Engineering and its related areas like Manufacturing, thermal, design etc so that new research opportunities can be identified by the faculty members and research scholars. Faculty members and research scholars from reputed academic institutions like SVNIT Surat, NIT Jalandhar, NIT Kurukshetra, Rajkiya Engineering College, Azamgarh and Rajkiya Engineering College, Ambedkar Nagar participated in the STTP to enrich their



knowledge and update their skills. Eminent speakers with strong international presence from the institute of national importance like IITs and NITs were invited for sharing their experience and knowledge with the participants. Prof. B. N. Singh of IIT Kharagpur, Prof. S. C. Panja from Jadavpur University, Dr. M. Z. Khan of IIT BHU, Dr. Achche Lal from SVNIT Surat and Dr. Vivek Patel of MNNIT Allahabad delivered insightful deliberations during the STTP. The program ended with the certificate distribution to 44 participants in the valedictory function. Convener of the program Prof. S. C. Jayswal and coordinators Dr. Jeeoot Singh and Dr. Sanjay Mishra congratulated the participants and organizing committee for successful organization of the event.

## STC on Advanced Modeling of Microwave and Photonics Devices (AMMPD-2018)

The Department of Electronic & Communication Engineering organized one-week TEQIP III sponsored Short-Term Course (STC) on “Advanced Modeling of Microwave and Photonics Devices (AMMPD-2018)” during March 06-12, 2018. The program was inaugurated by Prof. P. K. Jain, Director, NIT Patna. The Major objective of this one-week Short Term Course (STC) was to generate the platform for bringing out the challenges in the field of microwave and photonic devices. The main focus of this STC has been designed with the objective of imparting retrospective and prospective of device simulation with emphasis on the low-loss microwave & RF devices, filters, antennas and current Photonics Technology with the following aims:

- To aware the researchers and research aspirants about the recent advancement in this area.
- To train the faculty and scholars to build more appropriate model in the field of microwave and photonics devices.
- To learn different techniques of modeling in appealing way.

Faculty members and research scholars from reputed academic institutions like Amity University, UDSC Delhi, Skill Development Center (PMKVY) etc. participated in the STC to enrich their knowledge. Eminent speakers with strong international presence from the institute of national importance like IITs and NITs were invited for sharing their experience and knowledge with the participants. Prof. P. K. Jain Director, NIT Patna, Dr. Y. K. Prajapati MNNIT Allahabad, Dr. Shaswat Pathak Electro Curiotech Private Limited, IIT Patna, Manpreet Singh, GigaSoft India, Dr. Amitesh Kumar, IIT ISM Dhanbad, Prof. Dharmendra Singh IIT Roorkee, Dr. Y. S. Chauhan, IIT Kanpur delivered lectures during the STC. The program ended with the certificate distribution to 43 participants in the valedictory function. Major G. S. Tripathi, Chairman of the programme and Coordinator(s) Er. Rajan Mishra and Dr. Dharmendra Kumar congratulated the participants and organizing committee for the successful organization of the event.



## Workshop on Cloud Computing using Salesforce

Department of Computer Science & Engineering organized a workshop on “Cloud Computing Using Salesforce” on January 20, 2018. A large number of B. Tech., MCA and M. Tech. students participated in the workshop. Salesforce Developer Akash Garg of Bangalore conducted the workshop and shares his knowledge and experience about salesforce and job opportunity in it. He also took hands-on session to develop application using salesforce.

## Workshop on Machine Learning



In this workshop Science & Engineering organized a workshop on ‘Machine Learning’ in Collaboration with TechieNest Pvt Ltd Jaipur on March 27, 2018. A large number of B. Tech., MCA and M. Tech. students participated in the workshop. Er. Mohit Pandey and his team from TechieNest Pvt Ltd conducted the workshop and discussed the importance of machine learning and its various approaches to solve the real-life problems.

## Curriculum development workshop organized by Chemical Engineering

Department of Chemical Engineering organized a ‘Curriculum development workshop’ on January 27, 2018 in presence of Professor (Dr.) P. K. Mishra, and Professor (Dr.) K. K. Srivastava, Department of Chemical Engineering, IIT BHU; Dr Sadhna Sachan, Associate Professor, Department of Chemical Engineering, MNNIT Allahabad and Dr Dhananjay Singh, Associate Professor from Department of Chemical Engineering, IET Lucknow. B. Tech. courses and structure of chemical engineering has been discussed extensively in this workshop.



## Curriculum development workshop organized by Mechanical Engineering

Department of Mechanical Engineering organized a one-day workshop on Curriculum Development at 9<sup>th</sup> February 2018. In this workshop syllabus modification take place according to Model syllabus of AICTE, Indian Engineering services and different Engineering Competitive Examination. In this workshop Professor A. K. Agrawal, I.I.T. BHU, Professor Om Prakash, NIT Patna, Shri Pawan Pandey, Assistant Director (Boiler) and all faculty members of mechanical engineering Department were present. Head of Department Professor S. C. Jaiswal made three groups of all subjects in Thermal Engineering, Design Engineering and Production Engineering. Accordingly, three teams were made for the discussion of their respective subjects. Faculty members discussed their respective problems with expert and suggested for proper correction in their subject. After thorough discussion over all subjects few modifications were proposed and the same were accepted by respective members. Coordinator of this workshop Mr. Sunil Kumar Yadav, Assistant Professor, MED proposed the vote of thanks to all members for successful organization of this Curriculum Development Workshop.

## Day National Conference on Recent Advances in Electrical and Electronics Engineering-2018 (RAEEE-2018)

A two-day National Conference on "Recent Advances in Electrical and Electronics Engineering-2018 (RAEEE-2018)" organized by Electrical Engineering Department of the university was held on 16<sup>th</sup> and 17<sup>th</sup> of March 2018. In the conference 60 papers were submitted, out of which, after the presentation 53 were selected for the publication in the conference proceedings with ISBN number. The conference was inaugurated in the august presence of Professor (Dr.) S. N. Singh, Hon'ble Vice chancellor MMMUT, Gorakhpur and The Key Note speaker Professor (Dr.) Kailash Nath Srivastava, Hon'ble Vice Chancellor, Symbiosis University of Applied Sciences Indore. The other Key note speakers Dr. Gokaraju Ramakrishna, IIT Kanpur and Dr. Sachin Kumar Jain, IIIT Jabalpur, also delivered their valuable talks in



the conference on the second day. The Conference committee mainly comprises of Professor (Dr.) S. K. Srivastava, Chairman RAEEE-2018, Professor (Dr.) A. N. Tiwari, Organizing Secretary RAEEE-2018, Dr. Prabhakar Tiwari and Dr. Awadhesh Kumar, Joint Organizing Secretaries RAEEE-2018. The Conference observed a grand success in which all the faculty members, Research Scholars and PG students of the department enthusiastically participated.

**MOTA: Malaviya Outstanding Teachers Award (MOTA) to faculty on Teacher's day each year, based on their contribution in teaching, research and development, contribution in administrative work, social and commercial related activities etc.**

## Two Day National Conference on Recent Advances in Pure and Applied Mathematics (RAPAM-2018)

Department of Applied Science organized a two-day National Conference on 'Recent Advances in Pure and Applied Mathematics' (RAPAM-2018) during April 12-13, 2018 with sponsorship from TEQIP-III. Professor (Dr.) U. P. Singh, former Vice Chancellor of Purvanchal University, Jaunpur inaugurated the conference in the gracious presence of Hon'ble Vice Chancellor Professor (Dr.) S. N. Singh who presided over the inaugural function. Keynote Speech of the Conference was delivered by Professor (Dr.) R. K. Sharma, IIT Delhi who discussed about the recent applications of algebra in cryptography and information technology. Other speakers of the conference included Professor (Dr.) T.N. Pandey, DDU Gorakhpur University, Gorakhpur; Professor (Dr.) S. K. Upadhyay, IIT BHU, Varanasi; Professor (Dr.) R. C. Mittal, IIT Roorkee; Professor (Dr.) Meena Sahay, Lucknow University, Lucknow; and Professor (Dr.) Vivek Sahay, Lucknow University, Lucknow. The conference included deliberations on Differential equations, Discrete Mathematics, Modelling and Simulations, Algebra, Number Theory, Numerical Methods, Optimization Techniques, Relativity, Cryptography, Computational fluid Dynamics, Differential Geometry, Topology, Fuzzy Mathematics, Operation Research & its Application and Functional Analysis. Participants of the conference included faculty members and students from MMMUT itself as well as other universities/institutions from across India.



## Parent Teacher Meeting

First parent teacher meeting was held on April 07, 2018 in the Department of Civil Engineering. This parent teacher meeting was organized by Mr. Vinay Kumar Singh, Assistant Professor, Civil Engineering Department for all the students of the department (B.Tech 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year and M.Tech 1<sup>st</sup> and 2<sup>nd</sup> year students). All the students along with their parents/guardians were invited to be the part of this meeting. Many parents visited the department along with their ward and interacted with the faculty members. Through this interaction between faculty and guardians of the students, guardians could know the academic performance of their wards.

## SVNIT Surat Faculty Team Visit of MMMUT

A team of 6 members lead by Prof. J.E.M. Mackwan (TEQUIP Co-ordinator, SVNIT Surat) visited the MMMUT, Gorakhpur during March 15 -- 18, 2018 in the department of Civil Engineering. The team also comprise of Dr. Shailendra Kumar, Dr. V. L. Manekar, Dr. K. D. Yadav, Dr. Chetan Patel and Dr. S. Arkatkar, who are the faculty members of SVNIT Surat. This team was warmly welcomed by the Professor (Dr.) Govind Pandey, Head, Civil Engineering Department on their arrival in the university. Hon'ble Vice Chancellor Professor (Dr.) S. N. Singh also interacted with the team and discussed on various academic points like exchange programme for students, collaborative research, joint organization of seminar and conferences. The team interacted with faculty members, students of B. Tech., M. Tech. and research scholars of the Civil Engineering Department.



## Induction Program for B. Tech. students admitted in 2017-2018

When new students enter in an institution, they come with diverse thoughts, backgrounds and preparations. It is important to help them adjust to the new environment and inculcate in them the ethos of the institution with a sense of larger purpose. Therefore, a one-week long induction program for the first year UG students (IPNS 2017-18) entering the university had been conducted during 1st May to 5th May, 2018. Its purpose was to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature. Prof. S. N. Singh, Hon'ble VC of the University, inaugurated the Programme, which commenced with paying floral tribute to Bharat Ratna Pandit Madan Mohan Malviyaji and Goddess Saraswati along with lighting of the lamp and presenting memento to the members on the Dias followed by recitation of Kulgeet at Multipurpose Hall (MPH), M.M.M.U.T. Gorakhpur. Prof. S. N. Singh, the chief guest of this inaugural function, congratulated the students for enrolling into UG Programme of MMMUT, Gorakhpur. He discussed about the importance of planning and timeliness in life. He stressed on the fact that networking, learning, 360-degree overview and relationship with peers and faculty members are of prime importance in real life. Prof. A. N. Tiwari, Dean Student Affairs, M.M.M. University of Technology, Gorakhpur formally welcomed the distinguished guests and students. He briefed the students about the various welfare and cultural activities of the university. Prof. R. K. Chauhan, Dean U.G., stressed on the fact that, induction programme is for familiarizing students with the university. Dr. Sudhanshu Verma, Convener of IPNS 2017-18, gave an overview of the one-week induction programme. He detailed about the various technical sessions of the Induction program. Dr. Abhishek Kr. Gupta, Coordinator of IPNS 2017-18, concluded by proposing a formal vote of thanks.



## Induction program organized by Civil Engineering Department

Induction program of the Association of Civil Engineers (ACE) was organized on 29th March 2018 by the students of Civil Engineering Department. In this program, new entrants of civil engineering were warmly welcomed in the association of civil engineers. Moreover, various responsibilities of this civil engineering society were handed over to third year and second year students by final year students so as to run the activities of association seamlessly and smoothly in the future.



## STUDENT ACTIVITIES:

### ABHIPRERAN

Abhipreran is a yearly event organized by The Social Engineers' Board. It is a career counselling symposium providing an opportunity to the students especially the freshmen of the university to know everything related to their branch and the fields they want to pursue in future. This event is conducted for all the six branches in various slots. This year the event was organized on January 19 and 20 in which around 360 students participated with full enthusiasm and zeal.



### ABHYUDAYA'18

The art, literary and cultural fest of the university, in its amalgamated form, Abhyudaya was held from March 28, 2018 to April 01, 2018. The opulence of the fest encompassed over 30 events and witnessed massive participation from students of MMMUT and other prestigious institutes of northern India. The fest began with inauguration ceremony in Aryabhata hall at ITRC on March 28,



2018. The Chief Guest at the inaugural function Professor (Dr.) S. N. Singh Hon'ble Vice- Chancellor, MMUT, congratulated to the students and office bearers of Council of Students Activities (CSA) for Hosting such a mega event involving participants from different college and universities. During inauguration session Professor Ram K. Shahi from Carlton University Ottawa, Canada graced the occasion as special guest. In his address he added that, besides academics Co-Curricular and Extra-curricular activities play instrumental role in shaping and making overall growth and development of human mind. No doubt, one should primarily focus on academic activities to learn and excel in the scholarly qualities. However, it is extra-curricular activities like sports, games, art and culture etc that provide a good platform for a student to outshine his or her latent potentials to compete with the challenges that come on his or her way.

### **ELECTRA-2018**

The Electrical Engineering Department of Madan Mohan Malaviya University of Technology celebrated its annual technical event Electra, a three-day extravaganza under the Electrical Engineers' Legation (EEL) from 25-27 of January 2018. It started with its grand Inaugural ceremony on 25<sup>th</sup> January. The chief guest of the ceremony, Hon'ble Vice Chancellor Prof. S. N. Singh announced the Electra 2018 open with his hearty best wishes for the participants. He promoted the event and its theme in his speech and asked the respective department to provide all the necessary support so that in coming years such technical events can reach greater heights. The faculty of the Department helped in every possible manner to manage the event successfully.



The first day was covered with sub-events like Symposium, a PowerPoint presentation event in which participants came up with their new technical and social ideas. Abstracts of around 30 teams were selected for presentation. Students were judged on the basis of their presentation skills and their response to the Questionnaire Round and then it proceeded with the first round of Circuitous, a circuit-problem based quiz. The second day came up with next captivating and fun events like Lan gaming featuring NFS, FIFA and Crikwood, a multimedia quizzing event. While three days went with events, parallel an informal event was conducted which attracted the participants to boost them from the hectic schedule. The students came up with a positive participation and won a huge amount of cash prizes and certificates of respective events.

### **The University started PhD program in Chemical Engineering from academic session 2018-19.**

### **ECOKART-2018**

Mechanical Engineering Department students' team had participated in National Level event 'ECOKART-2018' during the March 24-27, 2018 at Gautam Buddha University, Greater Noida, under the supervision of Dheerendra Singh, Assistant Professor of Mechanical Engineering Department. The team had secured AIR 6 among 142 teams in virtual round and qualified for dynamic round. In dynamic round of event, team has secured 5th place out of 28 teams and won 'BEST MARKETING SCOPE' award in National Level event 'ECOKART-2018'.



### **ROBOMANIA 2018**

Carrying forward the legacy of MMMUT, Robotics Club geared up to organize 'Robomania-2018'- A National Level Robotics event from March 16-18, 2018. The three-day event provided the young minds a distinctive opportunity to develop and nurture their level of creativity and technical skills through interactive workshops, Web development classes and technical events. The main allurements of ROBOMANIA was its robotics combat ROBOWARS. It was an event of dare, damage and aggression and participants were filled with great enthusiasm with do or die spirit. Participants showcased awe-striking zest and fascinating enthusiasm during this event and all the other events which include mind tickling events like BOMB DIFFUSION, ELECTRONIC CHESS, ELECTRO TEKKEN, ELECTRO NFS, LASER STRIKE and quizzes like REFLEX, CIRCUIT WIZARD and SHERLOCKED. Prodigious creativity of participants was showcased during the event ELECTONIC ART in which the participant portrayed the beauty of art using electronic components. Online event like TURING and DUBSMASH attracted tremendous participation along with the fun filled informal events like ROADIES and TECH-MATE. All the events are filled with the essence of technical skills and a Really enthusiastic with a pinch of fun and excitement. Every day and every moment the students enriched their skills which also remain pivotal in grooming their personality.



### **INNOWIZION2K18**

Innovation Cell organized an event "Innowizion2K18" during January 27 – 29, 2018. Students of the University as well as students from different engineering colleges participated in the three days event. Hon'ble Vice Chancellor of the University Professor (Dr.) S. N. Singh was the chief guest and Prof. M. M. Gore of MNNIT, Allahabad and Dr. S. K. Singh of IIIT, Allahabad were the guest of honour in the inaugural function of this three days event. Students of MMMUT received 1st prize in Least Cost Innovation Category and Future Compatibility Category while students from BIT, GIDA received 1st prize in Innovation Expertise Category. In I-Quiz, both 1st and 2nd prizes were won by the students of this University. Dr. Manish Kumar was the Faculty Coordinator and Dr. Divakar Yadav was the Faculty-in-Charge of this event.



## SUPRA SAEINDIA 2018

The team Speed Wagon Cruiser from Madan Mohan Malaviya University of Technology, Gorakhpur participated with utmost zeal and enthusiasm in SUPRA SAEINDIA 2018, the national level competition for engineering students with a passion for formula racing cars held at Buddha International Circuit Greater Noida from 11-16 June 2018. The team of 20 members, all from B. Tech, 2nd year, Mechanical Engineering had toiled hard to successfully fabricate formula racing vehicle to participate in the rushful competition. The 6-day event had various tough levels to climb such as Technical Scrutiny, Egress, Tilt test, Noise test and Brake test. There were static events comprising of Design, Cost and Business Presentations which defined the prepared vehicle to the core. The drivers were tested through the challenging course of Skid pad, Autocross and the grand Endurance. Over 120 teams registered for



the competition of which Speed Wagon Cruiser, team no. 20 had the ultimate opportunity to be exposed to the world of tough competition and learn from the experience. The team comprises of Abhinav Srivastava (Captain), Arpit Pandey (Vice Captain), Pranshoo Srivastava, Abhishek Pratap Yadav, Shivam Singh, Abhinav Tiwari, Vineeta Singh, Srijan Bharti, Deepak Singh, Unnati Mishra, Sunanda Rai, Ashu Kumar, Saksham, Mohd Avesh, Satish Gupta, Saurabh Chakrawarti, Neha Gupta, Deeksha Pandey, Sonali Singh, Alok Singh under the advisor ship of Dr. Jeeoot Singh, Associate Professor, Department of Mechanical Engineering, MMMUT.



**A team of five students is on visit to Ryukyus University Japan for one-month long summer internship.**

## SOCIAL ENGINEERING BOARD'S ACTIVITIES

Throughout the academic year 2017-18 The Social Engineers' Board conducted a number of meticulously planned events to fulfil its motto: "Grooming personality". The events were aimed imbibe the social skills as well as give them a sound knowledge about the scope of engineering. The session began with the event Dhishan, progressed with Abhipreran and Cadence and culminated with Paravartan. The details of the events are as follows:

### DHISHAN

The event was held during October 13-15, 2017. The first event of the session witnessed a record breaking participation of 400+ students. The rounds included Situation-Reaction questions, problem solving assessment and group discussion.

### ABHIPRERAN

Abhipreran involves the career counselling session of to introduce, explain and explore the scope and potential of their respective branches to the first-year students. These sessions were held on January 19 – 20, 2018.

### CADENCE

Cadence was an online event held during March 14 -- 20, 2018 which included sub events such as Crossword, Time machine, Opus etc. which involved general question and giving a message through pictures etc.



## PARAVARTAN

This was the session's last and most anticipated event ranging in three rounds organized during March 21-24, 2018. The first was a written round in the second round the students had to give a solution to major social problems afflicting our nation. And the final round was *Rangmanch* where the students had to perform a skit in which they had to enact and give a response from the perspective of an eminent personality in a stipulated time.

**MMMUT Gorakhpur is ranked 6th among Emerging Engineering Institutions in the country by Times Engineering Survey 2018, and Ranked 35th among top Government Engineering colleges and 16th in PG & Research by India today magazine.**

## Invited Talks/ Expert Lectures

- Department of Chemical Engineering organized an Expert Lecture on 'Role of Chemical Engineering in the Society' delivered by Dr. P. K. Choudhary, Professor, Department of Chemical Engineering, IIT BHU on January 27, 2018. In this expert talk importance and involvement of chemical engineering in research for the society was discussed.
- Department of Chemical Engineering organized an Expert Lecture on 'Introduction to Chemical Engineering' delivered by Dr. Jayant Kumar Singh, Professor, Department of Chemical Engineering, IIT Kanpur on February 12, 2018. In this expert talk concept of chemical engineering and its role in the modern society were discussed. Apart from this importance of chemical engineering in Past, Present and Future were discussed.
- Department of Computer Science & Engineering organized an expert lecture on "Artificial Neural Networks and its Applications" delivered by Professor R. K. Srivastava, Dr Shakuntala Mishra National Rehabilitation University Lucknow on Feb 24, 2018.
- Department of Computer Science & Engineering organized an expert lecture on "Mastering Algorithms and Data Structures Puzzle through Exhaustive Approach", delivered by Er. Nihal Srivastava, Platform Engineer, Directi Gurgaon on March 06, 2018.
- Department of Computer Science & Engineering organized an expert lecture on "Digital Disruption: Technology and Career", Er. K. K. Chaudhary, Executive Director, IT & IS, LANCO Group of Companies on March 26, 2018.
- Department of Computer Science & Engineering organized an expert lecture on "Cyber Security and Cyber Forensics" delivered by Mr. Rakshit Tandon, Director Council of Information Security (CIS) on May 01, 2018.
- Department of Electronics and Communication organized a Special lecture on "Random Process" delivered by Dr Ketan Rajawat, IIT Kanpur on 03/02/2018.
- Department of Applied Science organized an invited lecture on 'Human Values' delivered by Professor Shri Prakash Mani Tripathi, Professor of Political Science, DDU Gorakhpur University, Gorakhpur on March 20, 2018 in the gracious presence of Chief Guest Prof. K.G. Upadhyay, Dean (Faculty Affairs) & Officiating Vice Chancellor. The lecture was a part of the series of commemorative lectures to mark the birth centenary year of Pt. Deen Dayal Upadhyay, notable Indian thinker and visionary. The lecture was well attended by students and faculty members from various departments.

## Sport Activities

In the simplest possible term Sports are identified as the physical activity carried out by human beings. The main objective of sports is of course, bodily exercise. A sound mind in a sound body is a well-known statement. Sports are extremely essential for us. It keeps us healthy and fit as well as it also offers us a change from the monotony of daily life. Sports and games improve our efficiency and capability. Sports develop a sense of sociability, cordiality, friendliness, openness, team spirit and quality of leadership.

- Our Teams participated in National Level Sports Tournament TWARAN -- 2018 organized by KNIT Sultanpur during February 22 -- 24th Feb 2018. In this tournament our students secured 07 medals (04 Gold and 03 Bronze) in various Track & Field events and also in Lan-Gaming.



- During March 17-18, 2018 M.M.M.U.T. organized its annual sports meet (ASM-2018) under the guidance of faculty in-charge sports Dr. Brijesh Kumar, Dr. Divakar Yadav (Vice-chairman, CSA), Dr. B. K. Pandey (Vice-chairman, CSA), Prof. Rakesh Kumar (Chairman, CSA) and Sri Arun Kumar Singh (PTI). Professor Kailash Srivastava, Vice Chancellor of Symbiosis University of Applied Sciences, Indore inaugurated the ASM-2018 as Chief Guest of the Event. Professor (Dr) S. N. Singh, Vice Chancellor - MMMUT Gorakhpur presided over the inaugural function. In this meet Sports Sub-Council organized total 32 events for students and 13 events for the University Faculty and Staff members. Mohd. Sohail Khan (CSE, II Year) won the overall





championship. The prizes for the winners were provided by the Hon'ble Vice Chancellor of the university.

- First time in the history of MMMUT Gorakhpur a team of 64 students (44 Boys & 20 Girls) participated in the national level sport event AAHAVAAN-2018 organized by DTU New Delhi during March 23-26, 2018. The team won 7 (Seven) Medals in different events: Gold -- Discus Throw (Girls)- Ms. Sakshi Singh (CSE 3rd Year); Silver- Long Jump (Boys): Mr. Shivam Kumar (CSE 3rd Year); Silver- Shot-put (Girls): Ms. Komal, (CSE 3rd Year); Silver- Triple Jump (Boys) - Mr. Md. Suhail(CSE 2nd Year); Bronze- 1500M (Boys): Mr. Gaurav Rai, ECE 2nd Year; Bronze-800 M (Boys)- Mr. Gaurav Rai (ECE 2nd Year); Bronze- Discuss Throw: Mr. Md. Suhail (CSE 2nd Year).

**From academic year 2018-19, admission against 10% of total B. Tech. first year seats for qualified candidates of UP domicile will be done through merit of JEE (Mains)-2018.**

## Publications:

### Journal(s)

1. Shubham Negi, P. Mittal, and Brijesh Kumar, "Impact of different layers on performance of OLED", *Microsystem Technology*, Vol. 24, pp. 1-9, 2018. (SCI Journal, IF: 1.195).
2. Shweta Varshney, Sarvpal Singh, A Survey on Resource Scheduling Algorithms in Cloud Computing, *International Journal of Applied Engineering Research (IJAER)*, Research India Publications, ISSN 0973-4562 Volume 13, Number 9 (2018) pp. 6839-6845.
3. Aanjoy Mani Tripathi, Sarvpal Singh, PMAMA: Priority based Modified Active Monitoring load balancing Algorithm in Cloud Computing, *Journal of Advanced Research in Dynamical and Control Systems*, ISSN 1943023 Issue:02-Special Issue, Year:2018, pp:809-823. (SJR, UGC listed)
4. Archana Sharma, Bharat Singh Rajpurohit, SN Singh, A Review on Economics of Power Quality: Impact, Assessment and Mitigation, *Renewable & Sustainable Energy Reviews* Vol 88, May 2018, pp. 363–372
5. Mahesh Kumar, S.C. Srivastava, S.N. Singh, and M. Ramamoorthy, Development of a New Control Strategy Based on Two Revolving Field Theory for Single-Phase VCVSI Integrated to DC Microgrid, *International Journal of Electrical Power and Energy Systems*, Vol. 98, No. 5, June 2018, pp. 290-306.
6. Sanjeev K. Mallik, SN Singh and Saikat Chakraborti, An Educational Software for Enhancing Research in Power System State Estimation, *Electric Power Components and Systems* (Accepted).
7. R. K. Chauhan, B. S. Rajpurohit, S.N. Singh and F. M. Gonzalez-Longatt Demand-Side Management System for Autonomous DC Microgrid for Building, *Technology and Economics of Smart Grids and Sustainable Energy*, (accepted).
8. Chauhan, V. B. and Dasaka, S. M. (2018) "Performance of a Rigid Retaining Wall with Relief Shelves", *Journal of Performance of Constructed Facilities*, ASCE (ISSN (print): 0887-3828, (online): 1943-5509). Vol. 32 Issue 3 (pagination not done). (Impact Factor 0.70/2017) (SCImago Journal Rank 0.58/2017).
9. Behera, Sandeep Divyajyoti, Usha Kumari, Ravi Shankar, and Prasenjit Mondal. "Performance analysis of a double-chambered microbial fuel cell employing a low-cost sulfonated polystyrene proton exchange membrane." *Ionics* (2018): 1-18.
10. Bramha P. Pandey, Electronic and Optical Properties of GaAs Armchair Nanoribbons: DFT Approach. *International Journal of Nanoelectronics and Materials*, In Press.
11. Prakash Srivastava and Rakesh Kumar, "An ANN based QoS aware Adaptive Gateway Discovery Approach for MANET and Infrastructures Networks Integration", *Journal of Ad hoc & Sensor Wireless Networks*, (Indexed in SCI-E, DBLP and Scimago) (In press).
12. P K Singh, "AFA: Access Frequency Approach to Manage Write Buffer Cache in NAND Flash Memory" *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 02, pp. 797-808, 2018.
13. Vijay Shanker Chaudhary, Vishal Chaudhary, Dharmendra Kumar "Highly Negative Dispersion Compensating Dual Core Photonic Crystal Fiber" *International Journal of advanced research in Science and Engineering (IJARSE-18)* Vol. No-1, pp. 343-346(2018).
14. Pooja Chaudhary, and Sudhanshu Verma, "A Switchable Monopole UWB Antenna for Cognitive Radio Application", *IJCRT*, Vol 6, Issue 1, March 2018, ISSN: 2320-2882.
15. Dr. D. K. Dwivedi Preparation and characterization of screen printed Sn<sub>0.5</sub>Se<sub>0.5</sub> alloy films *J Mater Sci: Mater Electron*, DOI 10.1007/s10854-017-7979-y, pp.256-273, 2018 (SCI Journal).
16. Dr. D. K. Dwivedi Investigation on physical properties of polycrystalline nickel sulphide films grown by simple & economical screen-printing method *Optik Int. J. Light Electron Optics*, 156 2018 43-48 (SCI Journal).
17. Dr. D. K. Dwivedi Crystallization kinetics and Avrami index of Sb-doped Se-Te-Sn chalcogenide glasses Phase Transitions, DOI: 10.1080/01411594.2018.1431643 2018 (SCI Journal).
18. Dr. D. K. Dwivedi Effect of antimony on glass transition and thermal stability of Se<sub>78-x</sub>Te<sub>18</sub>Sn<sub>2</sub>Sb<sub>x</sub> (x = 0, 2, 4 & 6 at %) multi component glassy alloys *Journal of Thermal Analysis and Calorimetry*, DOI: 10.1007/s10973-018-7309-5, 2018 (SCI Journal).
19. Dr. D. K. Dwivedi Investigation of some Physico-chemical properties in multi-component Se-Te-Sn-Sb (0≤x≤6) quaternary chalcogenide glassy system *Glass Physics and Chemistry*, DOI: 10.1007/s10973-018-7309-5, 2018 (SCI Journal).
20. Dr. D. K. Dwivedi Crystallization Kinetics and Thermal Stability of Se<sub>90</sub>In<sub>10</sub> Chalcogenide Glass *Advanced Science, Engineering and Medicine* 2018 (Accepted, SCI Mago Journal).
21. Dr. D. K. Dwivedi Effect of Annealing on the Structural and Optical Properties of Amorphous Ge–Se–Te Chalcogenide Thin Film *Advanced Science, Engineering and Medicine* 2018 (Accepted, SCI Mago Journal).
22. Dr. D. K. Dwivedi Effect of thermal annealing on structural and optical properties of In doped Ge-Se-Te chalcogenide thin films *Materials Science-Poland* 2018 (Accepted, SCI Journal)

### Conference Proceeding(s)

1. Nitika Nigam and Divakar Yadav, "Lexicon Based Approach for Sentiment Analysis of Tweets Using R Language", *International Conference on Advances in Computing and Data Sciences*, 20-21 April 2018, Uttaranchal University, Dehradun. Proceeding in *Communications in Computer and Information Science (CCIS)*, Springer.
2. Shweta Varshney, Sarvpal Singh, An Optimal Bi-Objective Particle Swarm Optimization Algorithm for Task Scheduling in Cloud Computing, *Proceedings of 2nd International Conference on Trends in Electronics and Informatics (ICOEI, 2018)* ISBN 978-1-5386-3570-4, held at SCAD College of Engineering and Technology, Tamil Nadu, India, May 11-12, 2018, Pages- 781-785.

**From academic year 2018-19, admission against 10% of total B. Tech. first years seats (supernumerary) for qualified candidates having State Code of Eligibility other than Uttar Pradesh will be done through merit of JEE (Mains)-2018.**

3. Arti Jain, Ashutosh Gupta, Nikhil Sharma, Shubham Joshi, Divakar Yadav, "Mining Application on Analyzing Users' Interests from Twitter", 3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2018, March 26-27, 2018, MNIT Jaipur. (indexed in Web of Science, Scopus)
4. Brijesh K. Pandey, Chandra K. Singh; Anjani K. Pandey, "Temperature dependence of thermal pressure for NaCl AIP Conference Proceedings 1953, 130002 (2018); doi: 10.1063/1.5033146.
5. Brijesh K. Pandey, Chandra K. Singh; Anjani K. Pandey, Pressure Dependent Gruneisen Parameter for Semiconductors, AIP Conference Proceedings 1942, 120004 (2018); DOI: 10.1063/1.5029044.
6. Sonam Gupta, Arun Kumar Yadav, Deepak Rai and Divakar Yadav, Customization and Implementation of KOHA in Academic Institutions", 5th International Symposium on Emerging Trends and Technologies in Libraries and Information Services (ETTLIS), 21-23 Feb 2018, Bennet University, Greater Noida. (Indexed in Scopus).
7. Dr. D.K.Dwivedi Structural and optical characterization of NiSe film grown by screen-printing method AIP Conf. Proc. 1953, 2018, 1000111-1000114.
8. Shiksha Singh and Rohit Kumar Tiwari, "Quality of Service in Assets of Smart Parking," in Proceedings of 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2018), 23-24 February, 2018.
9. Pratima Yadav and Nagendra Pratap Singh, "Classification of normal and abnormal retinal image by using feature-based machine learning approach", in International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018), Proceeding published in Springer. 13-15 April, 2018.
10. Shiksha Singh and Nagendra Pratap Singh, "Machine Learning based Classification of Good and Rotten Apple", in International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018), Proceeding published in Springer. 13-15 April 2018.
11. Shweta Varshney and Rakesh Kumar, "Variants of LEACH Routing Protocol in WSN: A Comparative Analysis," Proceedings of 8th IEEE International Conference on Cloud Computing, Data Science & Engineering, Amity University, Noida, India, Jan 11-12, 2018.
12. Rajendra Kumar Dwivedi, Prachi Sharma and Rakesh Kumar, "Detection and Prevention Analysis of Wormhole Attack in Wireless Sensor Network," Proceedings of 8th IEEE International Conference on Cloud Computing, Data Science & Engineering, pp. 727-732, Amity University, Noida, India, , Jan 11-12, 2018.
13. Rajendra Kumar Dwivedi, Sonali Pandey and Rakesh Kumar, "A study on Machine Learning Approaches for Outlier Detection in Wireless Sensor Network Proceedings of 8th IEEE International Conference on Cloud Computing, Data Science & Engineering, pp. 189-192, Amity University, Noida, India, Jan 11-12, 2018.
14. Sonali Pandey and Rakesh Kumar, "Study of Routing Protocol Using Key Management in Wireless Sensor Network," IEEE Proceedings of the Second International Conference on Computing Methodologies and Communication (ICCMC), 2018, pp.662-666.
15. Dr. Shiva Prakash and Vikas Saroj, "A Review of Wireless Charging Nodes in Wireless Sensor Networks", Conference Proceeding will be published in Springer series title Lecture Notes on Data Engineering and Communications Technologies, presented in ACM Women in Research (ISDB-ACM-WIR 2018) International Symposium in Data Science and Big Data Analytics, Indore, India, January 5th -6th, 2018.
16. Dr. Shiva Prakash and Geeta, "Review of Quality of Service based Techniques in Cloud Computing", Conference Proceeding will be published in Springer series title Lecture Notes on Data Engineering and Communications Technologies, presented in ACM Women in Research (ISDB-ACM-WIR 2018) International Symposium in Data Science and Big Data Analytics, Indore, India, January 5th -6th, 2018.
17. Mohini Singh and Shiva Prakash, "Literature Review of Security Enhancement in Software Defined Network", conference proceeding will have published in AISC Series, Springer, presented at International Conference on [Soft Computing in Data Analytics \(SCDA 2018\)](#), Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India on March 10-11, 2018.
18. Sneha Sharma, Dharmendra Kumar, Jitendra Kumar, "Wavelength-tunable ultrashort soliton generation in gas filled kagome hollow core photonic crystal fiber" IEEE International conference on microwave and photonics (ICMAP 2018), February 09-11, 2018, IIT(ISM), Dhanbad
19. Vijay Shanker Chaudhary, Dharmendra Kumar, Sneha Sharma "Design of high birefringence with two zero dispersion wavelength and highly nonlinear hybrid photonic crystal fiber" International Conference on Optical & Wireless Technologies (OWT 2018) held at MNIT Jaipur on February 09-11, 2018
20. Pooja Chaudhary, and Sudhanshu Verma, "A Switchable Frequency Reconfigurable UWB Antenna for Cognitive Radio Application", 2nd IEEE International conference on Electronics, Communication and Aerospace Technology (ICECA 2018)
21. Pooja Chaudhary, and Sudhanshu Verma, "A Monopole Band-Reconfigurable Antenna for Cognitive Radio Application", 2nd International Conference on "Recent Technological Developments in Electronics and Electrical Engineering-2018 (RTDEEE-2018)
22. Sanjay Bharti, and Sudhanshu Verma, "Triple Band Antenna with compact radiator and T-shaped patches for WLAN and Wi-MAX applications", 4th IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS-2018), MANIT, Bhopal, 24-25 Feb 2018
23. Sugandha Tejeswee, and Sudhanshu Verma, "Dual band Circularly Polarized Antenna for Wireless/vehicular/satellite Applications", 4th IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS-2018), MANIT, Bhopal, 24-25 Feb 2018
24. Sugandha Tejeswee, and Sudhanshu Verma, "A new design of dual band antenna for Wireless Applications at 2.4/3.5/5.2/5.5/5.8 GHz," IEEE International Conference on Current trends towards Converging Technologies (ICCTCT 2018), SVS College of Engg, Coimbatore, 1-3 March 2018
25. Sugandha Tejeswee, and Sudhanshu Verma, "Broadband Circularly Polarized antenna U- slot antenna wireless Application" IEEE International Conference on Current trends towards Converging Technologies (ICCTCT 2018), SVS College of Engg, Coimbatore, 1-3 March 2018
26. Sugandha Tejeswee, and Sudhanshu Verma, "Wideband circularly polarized antenna for(5-7GHz) WLAN/WiMAX/Wireless Applications", 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018), RVS Technical Campus, Coimbatore, 29-31 March 2018

27. Sugandha Tejeswee and Sudhanshu Verma, "A Wide Band Circularly Polarized Circular Slot Antenna for WLAN Application", 2nd International Conference on Recent Technological Developments in Electronics and Electrical Engineering-2018 (RTDEEE-2018), JERC Foundation, Jaipur, Rajasthan, 6-7 April 2018
28. Sugandha Tejeswee, and Sudhanshu Verma, "Circular Slot Dual Band Antenna for Wireless Application", 2nd International Conference on Recent Technological Developments in Electronics and Electrical Engineering-2018 (RTDEEE-2018)", JERC Foundation, Jaipur, Rajasthan, 6-7 April 2018.
29. Praveen Kumar Tiwari, and Sudhanshu Verma, "Bandwidth Enhancement of Wide-Slot Printed Antenna with Modified T- shaped Parasitic Patches," IEEE International Conference on Current trends towards Converging Technologies (ICCTCT 2018), SVS College of Engg, Coimbatore, 1-3 March 2018.
30. Praveen Kumar Tiwari, and Sudhanshu Verma, "Dual Band Wide-slot Printed Antenna for Wide Band Applications", 4th IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS-2018), MANIT, Bhopal, 24-25 Feb 2018.
31. Praveen Kumar Tiwari, and Sudhanshu Verma, "Circularly Polarized Wide-slot Printed Antenna for WiMAX and WLAN Applications," 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018), RVS Technical Campus, Coimbatore, 29-31 March 2018.
32. Praveen Kumar Tiwari, and Sudhanshu Verma, "Bandwidth Enhancement of Wide-slot Printed Antenna with Triangular Parasitic Patch using Adjacent Feed", 2nd International Conference on Recent Technological Developments in Electronics and Electrical Engineering-2018 (RTDEEE-2018), JERC Foundation, Jaipur, Rajasthan, 6-7 April 2018.
33. Praveen Kumar Tiwari, and Sudhanshu Verma, "Wide Band L-slot Printed Antenna for Various Wireless Applications", 2nd International Conference on Recent Technological Developments in Electronics and Electrical Engineering-2018 (RTDEEE-2018), JERC Foundation, Jaipur, Rajasthan, 6-7 April 2018.
34. Vishal Chaudhary, Dharmendra Kumar "Design and analysis of Refractive index sensor based on Dual Core Photonic crystal fiber (DC-PCF) with rectangular air hole lattice structure", International Conference on Optical & Wireless Technologies (OWT 2018) held at MNIT Jaipur on February 09-11, 2018
35. Vijay Shanker Chaudhary, Vishal Chaudhary, Dharmendra Kumar, "Highly Negative Dispersion Compensating Dual Core Photonic Crystal Fiber", International Conference on Recent Innovations in Science and Engineering (ICRISE-18) held at Buddha Institute of Technology GIDA, Gorakhpur (India) on 1st - 2nd April 2018.

**University has started course in MSc Physics (specialization in Electronics) from academic year 2018-19 against 30 seats.**

#### Book Chapter(s):

1. Usha Kumari, Ravi Shankar and Prasenjit Mondal, Electrodes for MFCs., Progress and Recent Trends in Microbial Fuel Cells, Elsevier, ISBN: 9780444640178 (In press).
2. Anil Kumar Varma, Ravi Shankar and Prasenjit Mondal, A Review on Pyrolysis of Biomass and the Impacts of Operating Conditions on Product Yield, Quality and Upgrading (Springer), Accepted.
3. Dr. Shiva Prakash, Hybrid Cryptography for Secure Data Communication in Wireless Sensor Networking Springer Singapore March 21, 2018.

#### Invited Talks:

1. Dr Divakar Yadav delivered Invited Talk on "Document Ranking in Information Retrieval" in International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018), held in JK Institute of Applied Physics and Technology, University of Allahabad, Allahabad on April 15, 2018.
2. Dr. B. K. Pandey delivered Invited Talk on "Elements of Crystallography", International Short-term course on Synthesis, Characterization and Applications on Nano Materials (ISTC-SCAN2018), Department of Chemistry, Shri J. N. P. G. College, Lucknow on March 11, 2018.
3. Dr. D. K. Dwivedi, delivered a Talk on New concept for expanding the non-oxide glasses for the development of phase change memories in National Conference on "Soft Matter" NCSM-2018, Department of Physics, D.D.U. Gorakhpur University, Gorakhpur March 27-28, 2018.
4. Dr. D.K. Dwivedi delivered a Talk on Next generation semiconducting non-oxide glasses for optical memory applications in XXII Conference of International Academy of Physical Sciences, on 'Emerging Trends in Physical Sciences' held at R.M.L. Awadh University, Faizabad University, Faizabad, April 13-15, 2018.
5. Dr Rakesh Kumar, Professor delivered Invited Talk on Gateway Discovery for Internet- MANET Integration in Multi-hop Wireless Networks in STC on Advances in Computing Technology (ACT-2018) organized by CSE Department, MMMUT-Gorakhpur on 17-03-2018.
6. Sri Rohit Kumar Tiwari, Assistant Professor delivered Invited Talk on Machine Learning Application to Civil Engineering Problems in STC on Strategies for Sustainable Development: Goals and Issues-2018 organized by Civil Engineering Department, MMMUT-Gorakhpur on 23-02-2018.
7. Sri Rohit Kumar Tiwari, Assistant Professor delivered Invited Talk on Object Detection in Images in STC on Advances in Computing Technology (ACT-2018) organized by CSE Department, MMMUT-Gorakhpur on 15-03-2018.
8. Dr. Nagendra Pratap Singh, Assistant Professor delivered Invited Talk on Retinal Image Segmentation in STC on Advances in Computing Technology (ACT-2018) organized by CSE Department, MMMUT-Gorakhpur on 16-03-2018.
9. Dr. Nagendra Pratap Singh, Assistant Professor delivered Invited Talk on Matched Filter Based Retinal Blood Vessels Segmentation Approach, in International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018), held in JK Institute of Applied Physics and Technology, University of Allahabad, Allahabad on April 13, 2018.
10. Sri Sushil Kumar Saroj, Assistant Professor delivered Invited Talk on Security in Cloud Computing in STC on Advances in Computing Technology (ACT-2018) organized by CSE Department, MMMUT-Gorakhpur on 14-03-2018.

11. Dr B P Pandey, Assistant Professor delivered Invited Talk on Introduction to 2D materials for optoelectronic devices in STC on Advanced Modeling of Microwave and Photonics Devices (AMMPD-2018)", Organized by department of Electronics and Communication Engg. From 6<sup>th</sup>-12<sup>th</sup> March 2018.

**Hon'ble Vice Chancellor laid down the foundation stone for the installation of 11kV/0.4kV new substation and 11 kV underground cables from Khorabar substation to new substation of the University campus with a total cost of 490 Lacs and 250 Lacs respectively on April 04, 2018.**



### General Chair/Chief Guest/Session Chair of International Conferences

1. Prof S. N. Singh was Guest of Honor, 5th International Conference on Signal Processing & Integrated Networks - SPIN 2018, Amity University, Noida, February 22-23, 2018
2. Prof S. N. Singh was Chief Guest, International conference on internet of things: Smart Innovation and Usages (IoT-SIU2018), BIAS Bhimtal, February 23-24, 2018.
3. Prof S. N. Singh was Chief Guest and Keynote Speaker, 6th National Power Engineering Conference, TCE Madurai, March 9-10, 2018.
4. Prof S. N. Singh was Chief Guest and Keynote Speaker, International Conference on Advance Computing, Communication, Energy, Instrumentation and Robotics (ICAC2EIR18), Galgotias College of Engineering and Technology, Greater Noida, India March 23-24, 2018.
5. Prof S. N. Singh was Chief Guest, 3rd International Conference on Recent Innovations in Science and Engineering, BIT Gorakhpur, April 1-2, 2018
6. Prof S. N. Singh was Chief Guest and Keynote Speaker, International Conferences for Convergence Of Technology (I2CT), Pune, April 7-8, 2018.
7. Prof S. N. Singh was Chief Guest, 2018 IEEE 1st International Conference on " Power Energy, Environment and Intelligent Control", organized by GL Bajaj ITM, Greater Noida during April 13-14, 2018.
8. Prof S. N. Singh was Chief Guest and Panelist, Mini-POCO (Panel of Conference Organizer), Vizag, May 20, 2018.
9. Prof S. N. Singh was General Chair, 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU 2018) 24-25 February, 2018 at Birla Institute of Applied Sciences, Bhimtal, Nainital, Uttarakhand, India.
10. Prof S. N. Singh was General Chair, 2018 IEEE International Conference on Power Energy, Environment and Intelligent Control, April 13-14, 2018, GL Bajaj Institute of Technology & Management, Greater Noida.
11. Dr. Divakar Yadav Associate Professor(CSED), chaired a technical session on Advanced Computing of the 2018 2nd International Conference on Advances in Computing and Data Sciences (ICACDS-2018) Organized at Uttaranchal University Dehradun during April 20-21, 2018.
12. Dr. Divakar Yadav Associate Professor(CSED), chaired a technical session Advance Computing Theories and Applications in International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018), held in JK Institute of Applied Physics and Technology, University of Allahabad, Allahabad on April 15, 2018.
13. Dr. Nagendra Pratap Singh Assistant Professor(CSED), chaired a session Machine Learning & Intelligent Applications in International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E-2018), held in JK Institute of Applied Physics and Technology, University of Allahabad, Allahabad on April 13, 2018.

**MMMUT Gorakhpur is selected as mentor for Atal Tinkering Lab Program by MHRD, Government of India New Delhi.**

### Expert Talks Organized Through Industry/Academia

1. Expert Talk on "Mastering Algorithms and Data Structures Puzzle through Exhaustive Approach" delivered by Er. Nihal Srivastava, Platform Engineer, Directi Gurgaon March 06, 2018.
2. Expert Talk on "Digital Disruption: Technology and Career" delivered by Er. K K Chaudhary, Executive Director, IT & IS, LANCO Group of Companies, March 26, 2018.
3. Expert Talk on "Artificial Neural Networks and its Applications" delivered by Prof. R K Srivastava, Dr Shakuntala Mishra National Rehabilitation University Lucknow, Feb 24, 2018

### Research Projects

Title of Project	Name of PI	Funding Agency	Sanctioned Amount (INR)
UWB Antennas for Breast Cancer Detection	Sri Rajan Mishra	UP CST	1209000/-
Modernization of Windows & Unix Lab	Prof. Rakesh Kumar	AICTE	40,000/-
U.S.-India collaborative for smart distribution System with Storage (UI-ASSIST)	Prof. S. N. Singh	US- IUSSTF Forum	50,00,00,000/-

### PhD Degree Awarded

S.N.	Name of Student	Name of Supervisor	Topic of Thesis	Year
1.	Vandita Rao	Dr. D. K. Dwivedi	Crystallization kinetics and hardness studies of some chalcogenide glasses for the development of phase change memories	Awarded March 2018
2.	Chandra Kumar Singh	Dr. B. K. Pandey	Elastic Properties of Crystalline Solids Under High Temperature And Pressure	April 2018

## Awards & Recognitions:

- Prof. S. N. Singh, Hon'ble Vice chancellor MMMUT Gorakhpur was awarded outstanding Research Faculty Award for year 2017-18 for Top 10 knowledge producers in Energy Discipline by CAREER360, New Delhi.
- Prof. S. N. Singh, Hon'ble Vice chancellor MMMUT Gorakhpur was awarded Life Time Achievement Award 2018 by Global Intellect Award -2018 (JSR Laboratory & Asian Society for Scientific Research), Pune for Outstanding Contributions to the power engineering community in Teaching, Training, Research and Industrial Collaboration.
- IEEE UP Section awarded outstanding branch counsellor to Dr. Brijesh Kumar, MMMUT Gorakhpur on January 28, 2018.
- IEEE UP Section awarded largest student branch award to IEEE Student Branch, MMMUT Gorakhpur on January 28, 2018.
- A short film "Manav Bomb" directed and produced by Mrs Vandana Singh, President MMMUT Women's Club Gorakhpur has been selected for presentation in the *8th Pune Short Film Festival 2018*, scheduled from 15-17 June 2018.
- Best paper award by Rashi Srivastava "Forest Fire Prediction Modelling using Fuzzy Logic", International Conference on Recent Innovations in Science and Engineering, 1-2 April 2018, Buddha Institute of Technology, Gorakhpur (UP).
- Dr. Swati Gangwar Assistant Professor, Department of Mechanical Engineering has received Young achiever award for her best paper Optimization of process parameters affecting surface roughness in magnetic abrasive finishing process, *Materials and Manufacturing Processes*, Taylor & Francis, Vol. 32, Issue15, Pages (1723-1729), Impact Factor - 2.274, from Institute for Exploring Advances in Engineering (IEAE) in April 2018.
- Sri K. B. Sahay, Assistant Professor, Department of Electrical Engineering, Madan Mohan Malaviya University of Engineering & Technology, Gorakhpur has been given a rank of Lieutenant from Director General NCC, New Delhi with an additional responsibility of Associate NCC Officer in 1 UP EME COY, NCC, Gorakhpur. He has also completed his military training from Officers Training Academy, Kamptee.
- Sri K. B. Sahay, Assistant Professor, Department of Electrical Engineering, Madan Mohan Malaviya University of Engineering & Technology, Gorakhpur has been awarded by excellence in Teaching award at ITM University, Gwalior for his publishing of more than 50 international research papers & writing 03 international books.
- Astha Singh, B. Tech. 3<sup>rd</sup> Year Electrical Engineering student of Madan Mohan Malaviya University of Engineering & Technology, Gorakhpur has presented his research paper on topic "Short-Term Demand Forecasting by Using ANN Algorithms" at 6<sup>th</sup> International Electrical Engineering Congress (IEECON2018), 7-9 March, 2018, Krabi, Thailand at the age 18 years under supervision of Lt. K.B. Sahay Assistant Professor, Department of Electrical Engineering, Madan Mohan Malaviya University of Engineering & Technology, Gorakhpur and become the youngest girl to present his research work at abroad.
- Six Research Papers were presented by B.Tech. & M.Tech. Students of MMMUT, Gorakhpur at 6th International Electrical Engineering Congress (IEECON2018), 7-9 March, 2018, Krabi, Thailand under the supervision of Lt. K.B. Sahay, Assistant Professor, Department of Electrical Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur
- Dr Divakar Yadav, Associate Professor, department of Computer Science & Engineering has been awarded IEEE Senior Membership for his contribution in research.



## Students' Visit at Ryukus University Japan

A team of five students, Mr Sanjeev Kumar Mall & Ms Manisha Mishra (B. Tech. III Yr, Mechanical Engg.), Mr Shashwat Tripathi (Electrical Engineering), Mr Anand Mohan Gupta (B.Tech. II Year, Electronics & Communication Engg.) and Mr Ashutosh Shukla (B. Tech. III year, Civil Engg.) of MMMUT Gorakhpur went to Ryukyus University Japan for one-month summer internship under the MoU, signed between the two universities. They will work under the supervision of Prof. Tomohisha Wada of the Ryukyus University. Ryukyus University has made the arrangement for their stay.

## Celebration of First Work Anniversary of Hon'ble Vice Chancellor

A cultural evening was organized on 30 April 2018 in the Multi-Purpose Hall by officers' club of the University to celebrate successful completion of one year of Prof. S.N. Singh as Vice Chancellor of MMMUT Gorakhpur. On this occasion Hon'ble Vice Chancellor expressed his thanks to all the faculty members, students, staffs and alumni for their contribution in the development of the University. Hon'ble Vice chancellor honored the retired professor of the University, Prof J.B Singh, Prof. R. P. Mani, Prof. R.D. Pandey, Prof. L.B. Singh and Prof. Narendra Singh. He also honored the alumni of the University Er. P.N. Rai, Er. Ram Kumar Gupta, Er. J.B. Rai and Er. Praveen Arya. The students of the university performed singing, dancing, music etc. on this grand occasion. The ceremony was concluded with the vote of thanks given by Sri D.S. Singh.



## MoU(s)

1. Madan Mohan Malaviya University of Technology Gorakhpur and Warsaw management University, Poland signed MoU for exchange of students, faculty exchange, faculty and staff development on May 04, 2018.
  2. An MoU between Madan Mohan Malaviya University of Technology Gorakhpur and University of Carlos-III, Madrid (Spain) was signed on Jan 22, 2018 for next four years for organization of seminars and symposia, establishment of academic exchange programs, establishment of joint research works and publications, establishment of joint degree programs, organization of summer school programs etc.
  3. An MoU between Madan Mohan Malaviya University of Technology Gorakhpur and The Faculty of Engineering, University of Ryukyus, Japan was signed for exchange of students, exchange of faculty and staff members, exchange of academic materials, publications, and information, jointly hosting of seminars, conferences, and symposia, joint research and other academic exchanges.
  4. An MoU was signed between MMMUT Gorakhpur and CSIR-National Environment Engineering Research Institute Nagpur for exchange/deputation of staff, organizing conferences/workshops/courses, sharing of facilities, project work of students at CSIR etc.
  5. An MoU between Madan Mohan Malaviya University of Technology Gorakhpur and Motilal Nehru National Institute of Technology, Allahabad was signed. The main objective of MoU is development of joint education programmes, exchange of faculty members and students for short duration, joint or collaboration research projects and publications, promoting collaboration in various academic activities, joint organization of technical meetings, international workshops, conferences, seminars, faculty development programs, symposia etc. To encourage bright students of MMMUT to come for higher education and internship at MNNIT., Helping in increasing the placement of students and consultancy projects etc.
  6. Madan Mohan Malaviya University of Technology Gorakhpur and Sardar Vallabhbhai National Institute of Technology, Surat signed MoU for development of joint education programmes, exchange of faculty members and students for short duration, joint research projects and publications, joint organization of technical meetings, international workshops, conferences, seminars, faculty development programs, symposia etc. To encourage bright students of MMMUT to come for higher education and internship at MNNIT., Helping in increasing the placement of students and consultancy projects etc.
- Madan Mohan Malaviya University of Technology Gorakhpur and Advance Technology India Pvt Ltd Chandigarh signed MoU for recognizing the importance of research and development in the area related to engineering as well as imparting industrial training to the engineering students, Appreciating the need for creation of large reservoir of highly qualified manpower in all fields related to engineering and desiring to club their efforts by pooling their expertise and resources.

## Faculty Promotions & Appointment of New Faculty

- (i) Following faculty members got promoted by the selection committee held in December 2018 under the career advance scheme (CAS).

S. No.	Faculty Name	Department	Designation of Promotion
1.	Dr A.K. Daniel	Department of Computer Science & Engineering	Professor
2.	Dr A. K. Sharma	Department of Computer Science & Engineering	Professor
3.	Dr S. P. Singh	Department of Computer Science & Engineering	Professor
4.	Dr Shiv Prakash	Department of Computer Science & Engineering	Professor
5.	Dr U. C. Jaiswal	Department of Computer Science & Engineering	Professor
6.	Sri Muzamil Hasan	Department of Computer Science & Engineering	Assistant Professor AGP: 8000
7.	Sri D. S. Singh	Department of Computer Science & Engineering	Associate Professor
8.	Sri Jay Prakash	Department of Computer Science & Engineering	Assistant Professor AGP: 8000
9.	Dr Sudhir Kumar Srivastava	Department of Electrical Engineering	Professor
10.	Dr A. K. Pandey	Department of Electrical Engineering	Professor
11.	Dr A. N. Tiwari	Department of Electrical Engineering	Professor
12.	Dr R.K. Chauhan	Department of Electronics & Comm. Engineering	Professor
13.	Dr. Arjun Dubey	Department of Applied Sciences	Professor
14.	Dr B. K. Pandey	Department of Applied Sciences	Associate Professor
15.	Dr D. Kandu	Department of Applied Sciences	Associate Professor
16.	Dr. P. P. pandey	Department of Applied Sciences	Assistant Professor AGP: 8000
17.	Dr. S. C. Jaiswal	Department of Mechanical Engineering	Professor

- (ii) Following faculty members were appointed by the selection committee held in December 2018.

S. No.	Faculty Name	Department	Designation of Appointment
1.	Dr S. P. Singh	Department of MCA	Professor
2.	Dr A. N. Tiwari	Department of Electrical Engineering	Professor
3.	Dr R. K. Chauhan	Department of Electronics & Comm. Engineering	Professor
4.	Dr. Govind Pandey	Department of Civil Engineering	Professor
5.	Dr. Sudhir Narayan Singh	Department of Applied Sciences (English)	Associate Professor
6.	Dr Vinod Kumar Misra	Department of Applied Sciences (Math)	Associate Professor
7.	Dr. Rajesh Kumar Yadav	Department of Applied Sciences (Chemistry)	Associate Professor
8.	Sri Vinay Bhushan Chauhan	Department of Civil Engineering	Assistant Professor
9.	Sri Pradeep Mule	Department of Civil Engineering	Assistant Professor



