



# Mahant Bachittar Singh

College of Engineering and Technology

(A constituent of Sant Manjit Singh Trust)

(Approved by AICTE, Govt. of J&K and Affiliated to University of Jammu)  
Jammu, J&K State, India

Vol. 3 No. 1&2 (2018)

## News Letter

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### Message from the Chairman



I am really felicitated to release the college News Letter Vol. 3 (2019). Through this overall view of activities performed by our staff and students, like research publications, inviting various recruiting agencies/companies for campus recruitment, curricular and co-curricular activities, conducting seminars, arranging lectures by experts of different fields, about results and positions in university and participation of our students in national and international events who bring laurels to our institution apart from our fest etc are highlighted. My congratulations and good wishes are extended to staff of the editorial board.

Er. (Dr.) Prof. Amar Singh Sudan

Chairman

### Message from the Principal



MBSCET has grown over the years in pursuit of its vision and crossed several milestones of excellence and has been progressing at an exponential rate since its inception. Many notable achievements have been recorded since then. This has become possible only due to continued patronage of the magnanimous management, tireless efforts of its experienced and qualified faculty members, staff members and worthy contributions of its dedicated students and alumni. This News Letter is a medium to bridge the gap between achievements and publicity. Activities published—that too not all—in the News Letter are sufficient to prove our claim. It would be a snapshot of the various activities and advancements for all associated with MBSCET.

Usually we fail to appreciate the good deeds of many people and activities that happen around us. This News Letter will be a medium to provide proper acknowledgement and respect to all of them.

I am happy that MBSCET is bringing out a College News Letter. It will definitely help to display the activities that are happening in the campus. It provides a platform for exposing the merits and academic achievements of students and the faculty members.

Prof. Anjani Kumar  
Principal



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## Vision of Institute

To be globally acclaimed technical institution for aspiring technocrats and continuously striving to explore new vistas of opportunities.

## Mission of Institute

- Providing contemporary and advanced knowledge of engineering & sciences among students in coordinated and integrated manner.
- Developing culture of excellence in teaching, learning and innovation to provide opportunity to the students to become critical thinker and problem solvers.
- Producing competent skilled manpower based on demand of industry, society and corporate world.
- Promoting design & research culture by adopting latest technology and diverse resources for the benefit of society.





# Program Outcomes (PO)

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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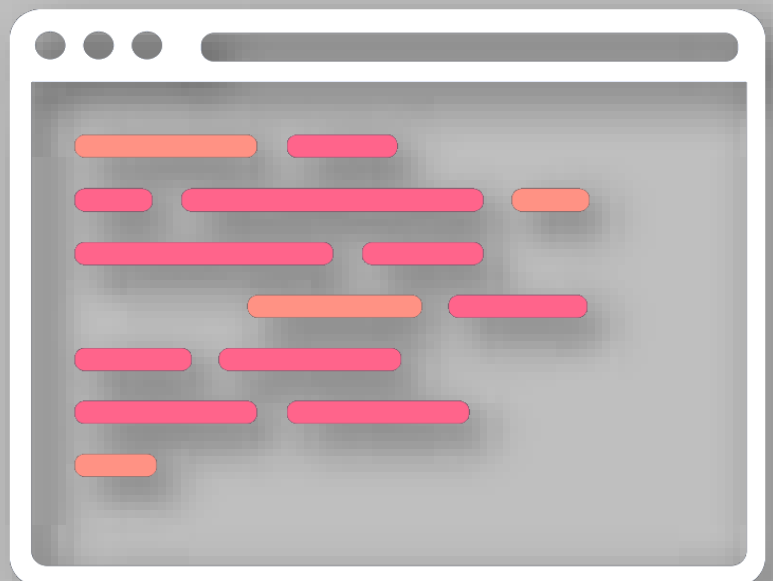
## Department of Computer Science Engineering

### Vision of the Department

To develop competent professionals in the field of Computer Science & Engineering to meet the challenges of Industry & Society.

### Mission of the Department

- Providing contextual and advance knowledge to students in line with industrial trends.
- Promoting effective Teaching and Learning Practices using modern tools and techniques.
- Promoting research and design environment, by providing training in emerging software's and technologies for fostering student's growth.
- Encouraging comprehensive development of the students by inculcating soft skills and ethics in their personality.





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## Program Educational Objectives (PEOs)

- ❖ Our graduates will have professional competency built with strong foundation in Computer Science and Engineering for global acceptance in industries, higher studies and research.
- ❖ Our graduates will develop computing systems, which enables them to analyze, evaluate and provide intelligent elucidation to meet industry challenges.
- ❖ Our graduates will compete with the challenges of social and professional concern by use of modern tools and software's.
- ❖ Our graduates will exhibit leadership quality, ethics, communication and lifelong learning skills.



## PROGRAM SPECIFIC OUTCOME'S (PSO's)

- ❖ To analyze and design hardware / software systems using various architectural / design patterns, standard notations, procedures and algorithms.
- ❖ To design and develop solutions for real world problems by applying computer and communication network technologies





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## Department of Electronics & Communication Engineering

### Vision of Department

To emerge as one of the leading Electronics and Communication Engineering programs in the region committed to achieve excellence consistent with industrial and social demands.

### Mission of Department

- Providing professional competences in the field of Electronics and Communication engineering through modular programs in addition to existing curriculum.
- Offering state of art pedagogy methods to promote multidisciplinary activities for enhancing critical thinking and problem solving capabilities.
- Encouraging students to adapt innovative approach to meet current and future industry and social demands
- Promoting holistic research based approach by providing training in latest technologies through collaboration with industry and engineering professional societies.



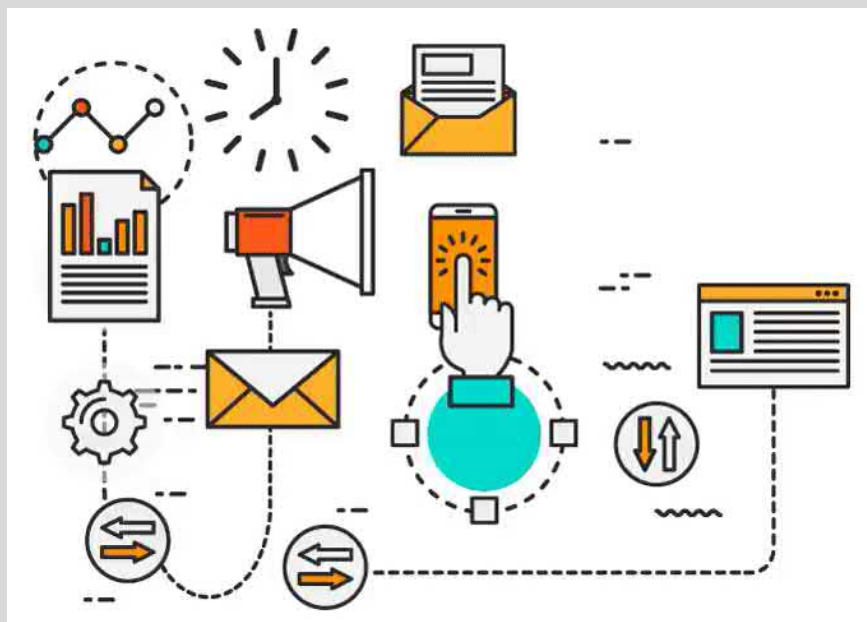
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## Program Educational Objectives (PEOs)

- ❖ The graduate will be able to exhibit professional competency in the field of Electronics and Communication engineering to synthesize optimal and socially acceptable solutions.
- ❖ The graduate will be able to develop innovative ideas and find creative solutions to meet professional challenges.
- ❖ The graduate will be able to pursue post graduate and research based programs to outlive in employment, higher education and industries in allied and diverse fields.
- ❖ The graduate will be able to demonstrate high professional ethics and strive for lifelong learning while working in a team or as an individual.



## PROGRAM SPECIFIC OUTCOME'S (PSO's)

- ❖ Ability to adapt advancement in Electronics & Communication Technology and render appropriate professional services.
- ❖ Quest to upgrade & contribute towards the solution of recent challenges in Electronics & Communication Engineering with the help of modern tools.



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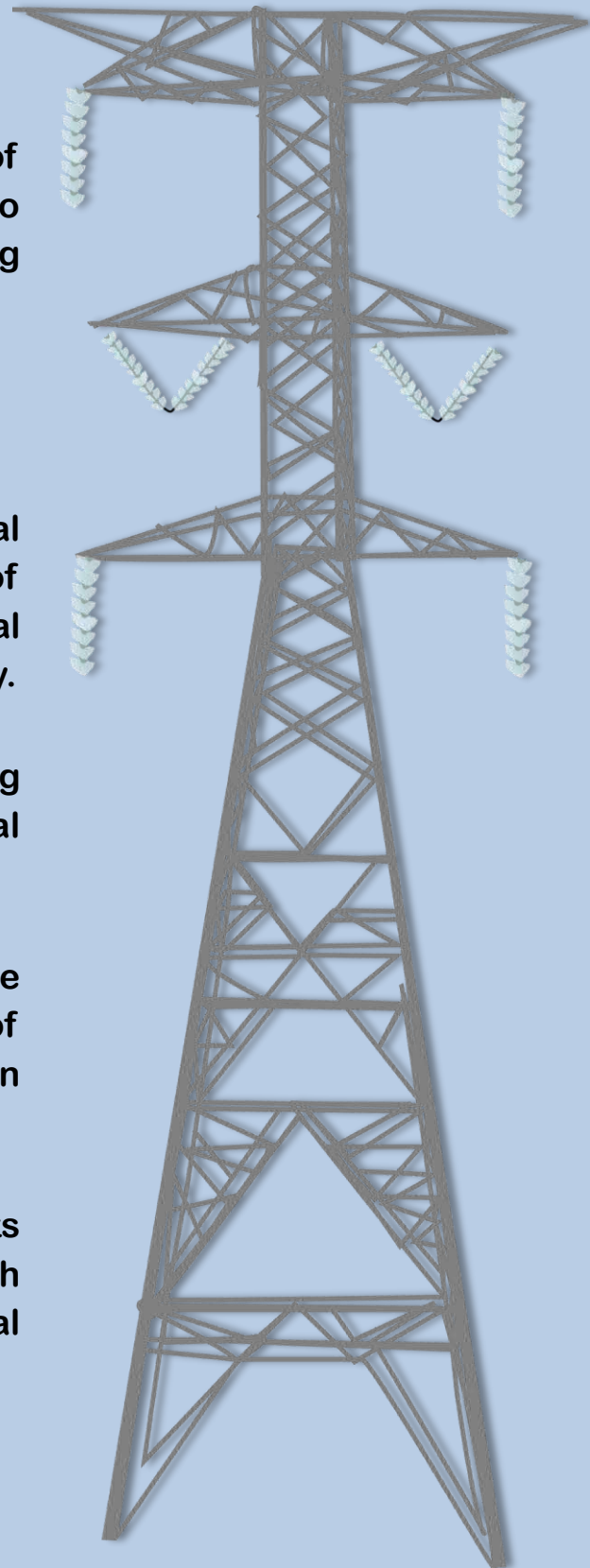
## Department of Electrical Engineering

### Vision of Department

To evolve as a leading program in the field of Electrical Engineering with exposure to contemporary technologies by encouraging ignited minds for future professional challenges.

### Mission of Department

- Providing interface with the industry, educational organizations and alumni in the field of curriculum development, training for empirical social development & changing needs of society.
- Engaging in effective teaching, learning using ICT, modular programs, exposure to virtual simulating environment.
- Enabling sustainable and cost-effective innovations, showcasing the importance of green energy technology with a focus on efficient energy management system.
- Promoting holistic development among students and faculty by engaging in joint ventures with internationally acclaimed academia & industrial organizations.







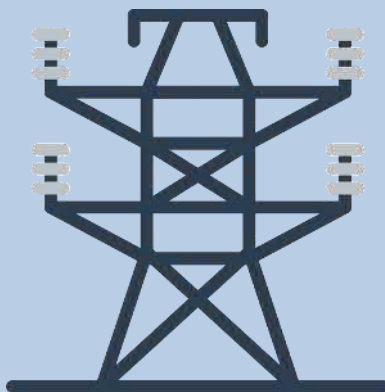
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## Program Educational Objectives (PEOs)

- ❖ Outrival in employment, higher education, globalized technology services and to be competent entrepreneur.
- ❖ Communicate conceptual understanding of core Electrical Engineering courses which enable electrical technocrats to analysis, evaluate, and provide intelligent elucidation to meet professional challenges.
- ❖ Capable to design and implement innovative and cost effective solutions of complex engineering problems in multidisciplinary environment considering societal and environmental contexts.
- ❖ Demonstrate leadership qualities, effective communication skills and strive for lifelong learning for career enhancement and exhibit high professional ethics.



## PROGRAM SPECIFIC OUTCOME'S (PSO's)

- ❖ Equipped with applied knowledge of allied domain to integrate and efficiently manage professionally diverse environment.
- ❖ Quest to upgrade and contribute toward the solution of recent challenges in electrical engineering with the help of modern tools.



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# **Department of Mechanical Engineering**

## **Vision of Department**

**To become a recognized center of excellence for aspiring technocrats  
in Mechanical Engineering.**

## **Mission of Department**



- **Providing contemporary and advanced knowledge of Mechanical Engineering amongst the students through a curriculum consisting of modern laboratories, interdisciplinary subjects and industrial trainings; created by means of industry – institute interactions.**
- **Creating culture of excellence in teaching – learning using hi-tech techniques and collaborating with other institutions along with focus on faculty development programmers.**
- **Promoting design and research environment, incorporating latest software's in mechanical domain with a focus on enabling viable and economical innovations for the benefit of the society at large.**
- **Encouraging comprehensive development of students by adopting lifelong learning and sharing for enhancing employability.**





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## Program Educational Objectives (PEOs)

- ❖ The graduates will have quality education to keep pace with advancement in technologies, hence encouraging them to contribute to the field of education & research, and industry related to mechanical engineering as well as other allied fields.
- ❖ The graduates will attain essential competence in basic sciences and mechanical engineering fundamentals required to formulate, analyze and solve engineering problems that will empower them to have effective career in core mechanical as well as interdisciplinary industries, and as entrepreneurs.
- ❖ The graduates will enhance their knowledge and soft skills, encouraging them to innovate and develop sustainable solutions for a progressive society.
- ❖ The graduates will maintain high ethical standards, establish potential leadership & teamwork abilities, inculcate effective interpersonal skills and engage in lifelong learning for a successful professional career.



## PROGRAM SPECIFIC OUTCOME'S (PSO's)

- ❖ Ability to study and analyze useful and innovative materials and related technology for the benefit of industry and society.
- ❖ Ability to develop proficiency in designing through latest and advanced software tools related to mechanical engineering





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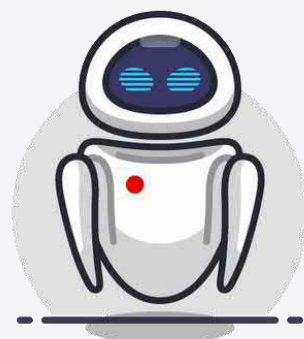
## DEPARTMENT OF INFORMATION TECHNOLOGY

### Vision of the Department

Transforming IT aspirants into technocrats for adapting to rapid technological advancements in Industry and contributing to society.

### Mission of the Department

- Integrate academics and research to address challenges of industry
- Maintain labs with hardware and software where students and faculty can enhance their technological skills.
- Provide IT solutions to problems related to interdisciplinary fields.
- Bringing out graduates with high quality knowledge, innovation, ethical and social responsibilities.





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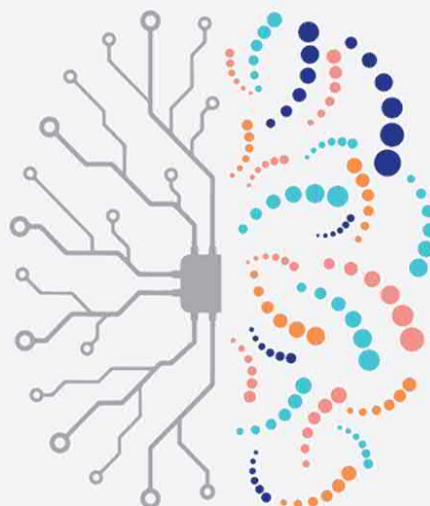
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## Program Educational Objectives (PEOs)

- ❖ Design and develop systems and applications to solve real life problems.
- ❖ Develop professionalism, communication skills, leadership and team work enabling them to adapt the current trends in technology.
- ❖ To inculcate an attitude for life-long learning.
- ❖ To prepare students for higher education.

## PROGRAM SPECIFIC OUTCOME'S (PSO's)

- ❖ To analyze and predict solutions for global society using machine learning tools and techniques.
- ❖ To provide solutions for real world problems by applying latest tools and technologies.



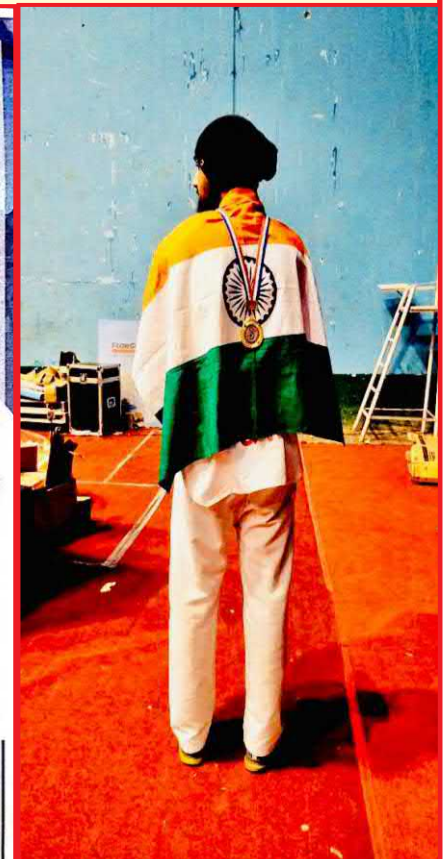
## INTERNATIONAL AND NATIONAL PUBLICATIONS

- Ravinder Kumar, Shivali, Omias Ahmad Matooo, "Automation Of Industrial Reverse Osmosis Desalination Plant using PLC & SCADA" (IJTRD), Vol.5, No.2, March-April 2018, pp. 384-386.ISSN: 2394-9333.
- Ravinder Kumar, Omias Ahmad Matooo, Nidhi Rajput, "Role of Automation Tools in Industry", (IJSRST), Vol. 4, No. 5, March-April 2018, pp.1348-1359. ISSN: 2395-6011.
- Kanika Sharma, Bhanu Gupta, "Phonocardiogram and Temperature Measurement System using PIC Microcontroller", IJSRD, Volume 6.0, Issue 12.0, pp.259-261, 2019, ISSN: 2321-0613
- Palmeet Kaur(Asst. Prof.,MCA Dept) Improvement In Plant Diseases Detection Rate With Enhanced Svd Technique,IJIRSET,vol .7, Issue.1, January2018,ISSN No.23476710,23198753.
- Pooja Sharma(Asst. Prof.,MCA Dept),Vaishal Malhotra(Asst. Prof.,MCA Dept),Randeep Kour (Asst. Prof.,MCA Dept) The Impact of Social Networking Sites With Its Positive and Negative Aspects,IJCSE,Vol No.06,Special Issue No.(05), June 2018,ISSN No.E 2347-2693.
- Preeti Kaul(Asst. Prof.,H.S.S Dept),Jasmine Kaur( Asst. Prof.,H.S.SDept),The Relevance of Information and Communication Technology in Teaching of English Literature for both Pleasure and Education,ICRIC-2018,Vol.06,Issue.03,pp.61-65.
- Palmeet Kaur(Asst. Prof.,MCA Dept)A study of web services and its implications.International Journal of Engg. Sciences March 2018 vol.27,ISSN No.0020-7225.
- Pankaj Malhotra &Sandeep Singh(Asst. Prof.,MCA Dept )Dawn of trust for growing economies in the light of Blockchain Technologyand Cryptocurrency IJARSE,Vol. 07,Special Issue No.04 ,March 2018,ISSN No.(P) 2319-8346.
- Diksha Mahajan(Asst. Prof.,H.S.S Dept),"Improvement in Plant Diseases Detection Rate with Enhanced SVD Technique .",IJIRSET,2018.
- Diksha Mahajan(Asst. Prof.,H.S.S Dept),"A Comparative Study of SOAP Vs REST ",ETACIT-2K18.
- Diksha Mahajan (Asst. Prof.,H.S.S Dept),"Sigma Implementation In India",ICMEAS,2018,SMVDU.
- Dilpreet Kaur(Asst. Prof.,IT Dept),Image steganography: Hiding Secrets in Random LSB Pixels,3rd International Conference on Soft Computing: Theories and Applications(SOCTA18), Dr B.R.Ambedkar National Institute of Technology, Jalandhar, Punjab, 21-23 Dec2018.
- Kanika Sharma, Bhanu Gupta, " Simulation Architecture Design of vLABHMI and VRCCR for Nuclear Power Plant", IJRASET, Volume6.0, Issue 12.0, pp.835-838, 2018, ISSN: 2321-9653
- Kanika Sharma, Randhir Singh, Bhanu Gupta, "Analysis of Iris Recognition on basis of Matrix Matching", IJARIE, Volume 4.0, Issue 6.0, pp.543-551, 2018, ISSN: 2395-4396.
- Taniya Sharma, Satnam Singh Dub, Bhanu Gupta, "Performance Analysis of ANN Based Gait Recognition" IJSRST, Volume 4.0, Issue 11.0, pp.112-125, 2018, ISSN: 2395-6011
- Taniya Sharma, Satnam Singh Dub, Bhanu Gupta, "Neural Network Application of Human Gait Analysis", IJESC, Volume 8.0, Issue 10.0,pp.19044-19046, 2018, ISSN: 2321-3361.
- Urashveen Kour, Satnam Singh Dub, Bhanu Gupta, "Performance Evaluation of Iris Recognition System using Genetic Algorithm Optimization", IJSRED, Volume 2.0, Issue 1.0, pp.86-92, 2019, ISSN:2581-71753. Urashveen Kour, Satnam Singh Dub, Bhanu Gupta,"GeneticAlgorithm based Iris Recognition with Optimized Hamming Distance",IJAREEIE, Volume 8.0, Issue 1.0, pp.1-7, 2019, ISSN: 2320-3765



# Sports Stars of MBSCET

**Chandeep Singh**, students of MBSCET (Electrical Engineering) has won various medals at the International level in Taekwondo, he has the honour of being adjudged as the World fastest skater by US based Golden Book of World Records



Vivasvan Sawhney, a student of MBSCET (CSE) of Young Heroes guided his team to a glorious victory by striking 3 goals against Jammu Sports, beating them 4-0 in the 12<sup>th</sup> Christmas Gold Cup Football Tournament Organised by All J&K Christian welfare association (AJKCWA) at GGM science college held on 8<sup>th</sup> Jan, 19

# PLACEMENT DETAILS

Sr. No	Name of the Company	No. of Students Selected
1	Shri Ram Transport Finance Company	02
2	OMAC Automation LLP Noida	12
3	Posterity Better Solutions Noida	04
4	Telecom Network Solutions Noida	05

5	Translab Innovations Pvt. Ltd. Bangalore	14
6	Tech Aspects Campus Drive 2019 SMVDU	—
7	Mind Infotech, ACET Amritsar	—
8	Wipro NLTH, SMVDU	—
9	Skyach Software Solutions Pvt. Ltd. Chandigarh, Kathua Jammu University Campus	02



**Ramandeep Kour**  
Position – 1<sup>st</sup>  
Roll No: 690/15  
Branch: ECE  
Marks: 888/1000



**Vinayak Sharma**  
Position – 4<sup>th</sup>  
Roll No: 740/15  
Branch: Electrical  
Marks: 865/1000



**Karamdeep Kour**  
Position – 2<sup>nd</sup>  
Roll No: 762/15  
Branch: Electrical  
Marks: 876/1000



**Rikinder Kour**  
Position – 5<sup>th</sup>  
Roll No: 703/15  
Branch: Electrical  
Marks: 861/1000



**Rashleen Kour**  
Position – 5<sup>th</sup>  
Roll No: 640/15  
Branch: CSE  
Marks: 817/1000



Vikram Makkar  
Position - 1st  
Roll No: 5/15  
Branch: ME  
Marks: 866/1000



Anmol Kumar  
Position - 2nd  
Roll No: 9/15  
Branch: ME  
Marks : 857/1000



Dushyant Kesar  
Position - 9th  
Roll No: 48/15  
Branch: ME  
Marks: 801/1000



Harpreet Kour  
Position - 8th  
Roll No: 143/14  
Branch: CSE  
Semester- 8th

Bismat Kour  
Position - 9th  
Roll No: 200/14  
Branch: ME  
Semester- 7th  
Marks : 859/1000

Gurjot Kour  
Position - 10th  
Roll No: 61/15  
Branch: CSE  
Semester- 6th



## RESEARCH PAPERS

Mr. Natish Patyal(Asst. Prof., ME Deptt), “A combined study on lean and green manufacturing system to forecast, simulate and optimize for energy efficient Production” National conference on renewable energy and sustainable environments: Challenges and Remedies, CRESE -2018 SMVDU Katra, 2018

Mr. Satish Kumar Sharma(Asst. Prof., ME Deptt), “Synthesis and characterization of Al-6061/Fly ash/ZrO<sub>2</sub> metal matrix composites (MMCs) processed by stir casting method”, Journal of Emerging Technologies and Innovative Research (JETIR), January 2018, Volume 5, Issue 1.

Mr. Rahul Sethi(Asst. Prof., ME Deptt), “Maintenance Management at TEQIP- III sponsored: A Review”, International conference on Mechanical Engineering and Allied Sciences-2018, SMVDU, Katra, J&K, 14-15 sept, 2018, ISBN:9789386240330.

Mr. Natish Patyal(Asst. Prof., ME Deptt), “Study the properties of Aluminium Metal matrix composites by Varying Sic: A”, . International conference on Mechanical Engineering and Allied Sciences-2018, 14-15 sept, 2018, ISBN:9789386240330.

Mr. Natish Patyal(Asst. Prof., ME Deptt), “Different fabrication techniques for Al Metal Matrix Composites: A review”, International conference on Mechanical Engineering and Allied Sciences-2018, SMVDU, Katra, J&K. 14-15 sept ,2018, ISBN:9789386240330.

Mr. Natish Patyal(Asst. Prof., ME Deptt), “ Study the effect of different reinforcements for Aluminium Matrix composites”, . International conference on Mechanical Engineering and Allied Sciences-2018, SMVDU, Katra, J&K. 14-15 sept ,2018, ISBN:9789386240330.

Mr. Rahul Sethi(Asst. Prof., ME Deptt), “ Synthesis & characterization of Fe-Mo-BaF<sub>2</sub> self-lubricating composites prepared by powder metallurgy”, . International conference on processing & fabrication of advanced materials-XXVII organized by Jonkoping University, School of Engineering, Department of Materials & Manufacturing, Jonkoping, SWEDEN, 2018-19.

# Achiever



Sachin Verma - KAS Officer -Financial Advisor  
in Small Scale Industries



Anisa Nabi - KAS Officer - State Tax Officer



Sourish Sharma - Assistant Manager UFLEX



Suhail Sharma MD VNS - Propacks Private Limited



Mudasir Nabi Shiekh - Entrepreneur - One of the  
principal owners of Skoda , Jammu



Raminder Pal Singh - RAB Enterprise



# Glimpses of Induction Week

A very warm welcome was given to the new entrants to groom and acquaint them about their courses, mentor groups, staff and their new roles so that they can effectively adjust in the new cultural environment.



**Lighting of traditional lamp by dignitaries**



**Ms. Ravinder Pal Kour (Head, MasterPrep & Canam Institute) delivered a lecture to freshers and other students, helping them to pursue higher education abroad.**



**Dr. Garima Gupta (Prof. English Department, University of Jammu) delivered a lecture on Soft Skills**



**One day "Career Path Orientation Workshop" by Sh. Puneet Arora CEO, Ecologic Corporation (H.P.)**



**Motivational lecture by Mr. Rohit Ranjan from Art of living (Founded by Sri Sri Ravi Shankar)**



**Principal Dr. Anjani Kumar addressing the audience**



# Campus Activities



## Two days workshop on Cloud Computing

Two days workshop on "Cloud Computing" was organised by M.B.S College of Engineering and Technology on 2/11/2018. Ms. Jyoti Taylor, software trainer from All Soft Solutions and Services Pvt. Ltd, Business Partner of IBM, Chandigarh and Mr. Sahil Sharma were the resource person, who conducted the workshop for two days which included insight of Cloud Computing technology and practical aspects for building career.



## Seminar held on The Foundation Day of Electronics and Telecommunication Engineers (IETE).

ECE department of MBSCET organised a seminar on the occasion of Foundation Day of Electronics and Telecommunication Engineers (IETE) with their collaboration on the topic "Future Communication System" on 26/10/2018. Dr. Parveen Lehana, Department of Electronics University of Jammu and Chairman IETE, J&K was the main speaker on the occasion.



## Workshop on Future of Nanotechnology in Bio informatics

One day Workshop on "Future of Nanotechnology in Bio informatics" was organised by IETE ( Institute of Electronics and Telecommunication Engineers) Jammu in collaboration with department of IT and ECE, MBSCET, Jammu on 16/01/2019 . The guest lecture was given by Prof. Vijay K. Arora ,Wilkes University, USA. He discussed on amalgamation of Bio Informatics with science and engineering including Nanoculture, Nano Robots, Nano Electronics.

## Workshop on PYTHON by Infologic I.T solutions Pvt. Ltd.

One day workshop on Python Language was conducted in MCA Department of MBSCET by IITS. Students of MCA Department actively participated in this Workshop as focus was on to meet the industry trends in order to compete in the global IT world. S.Balbair Singh Expert from IITS provided hands on experience to every student so that maximum practical work should be performed and more students get benefit from it. On this Occasion Principal Dr.Anjani Kumar appreciated these type of workshops in the college in order to attain knowledge of current IT trends so that Students are able to compete in an efficient manner. Present among others were Prof. Amrik Singh, Prof. Parveen Singh, HOD MCA Department Ms.Pooja Sharma and Other Faculty members





# AAROHAN Techno-Cultural Fest 2018



**Mahant Bachittar Singh**  
College of Engineering and Technology  
Jeevan Nagar Road, Babline, P.O. Miran  
Sahib, Jammu, J&K State 181101

**Patron: Prof. (Dr.) Anjani Kumar**  
**Editorial Board: Ms. Preeti Koul, Ms. Jasmine Kour**  
**Student Coordinators :Rikinder Kour (EE), Sparsh Mahajan (EE)**  
**Aadhishwar Arora (ME)**