

# दिल्ली प्रौद्योगिकी विश्वविद्यालय Delhi Technological University



वार्षिक प्रतिवेदन २०१७-१८  
Annual Report 2017-18

वार्षिक प्रतिवेदन  
**ANNUAL REPORT**  
2017 – 18

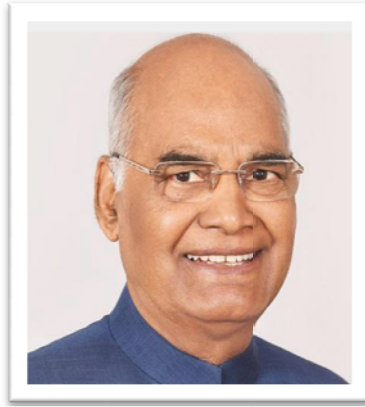
( ०१ अप्रैल २०१७ - ३१ जुलाई २०१८ )  
(01 April 2017 – 31 July 2018)



दिल्ली प्रौद्योगिकी विश्वविद्यालय  
**DELHI TECHNOLOGICAL UNIVERSITY**

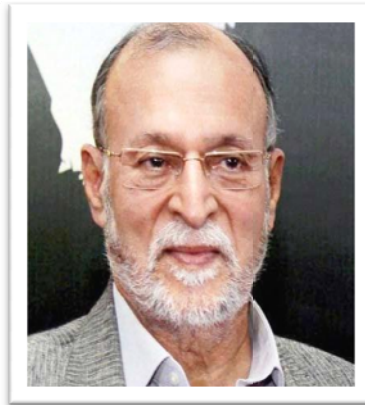
(Formerly Delhi College of Engineering, Govt. of NCT, Delhi)  
Estd. By Govt. of NCT, Delhi vide Act 6 of 2009  
Shahbad Daultapur, Bawana Road Delhi-110042, INDIA





*Visitor*

**His Excellency Shri Ram Nath Kovind  
President of India**

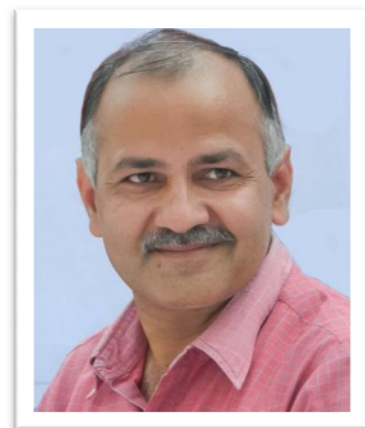


*Chancellor*

**Hon'ble Shri Anil Bajjal  
Lt. Governor, Govt. of NCT, Delhi**



**Shri Arvind Kejriwal  
Hon'ble Chief Minister  
Govt. of NCT, Delhi**



**Shri Manish Sisodia  
Hon'ble Deputy Chief Minister  
and Minister for Training  
& Technical Education  
Govt. of NCT, Delhi**





**Prof. Yogesh Singh**  
**Vice Chancellor**



**Prof. S. K. Garg**  
**Pro-Vice Chancellor - I**



**Prof. Anu Singh Lather**  
**Pro-Vice Chancellor - II**



**Prof. Samsher**  
**Registrar**



**Prof. M.M. Tripathi**  
**Director Internal Quality Assurance Cell**  
**(IQAC)**



## Deans



Prof. H. C. Taneja  
Dean, Academic (PG)



Prof. A. Trivedi  
Dean, Industrial Research Development



Prof. Madhusudan Singh  
Dean, Academics (UG)



Prof. R.S. Mishra  
Dean, Outreach & Extension Activities



Prof. Samsher  
Dean, Student welfare



Prof. Pragati Kumar  
Dean, Continuing Education



Prof. Vishal Verma  
Dean, International Affairs



Prof. Pravir Kumar  
Dean, Alumni Affairs





## Head of Academic Departments



**Prof. Archana Rani**  
Head of Department, Applied Chemistry



**Prof. Sangita Kansal**  
Head of Department, Applied Mathematics



**Prof. Rinku Sharma**  
Head of Department, Applied Physics



**Prof. Jai Gopal Sharma**  
Head of Department, Department of  
Biotechnology



**Prof. Nirendra Dev**  
Head of Department, Civil Engineering



**Prof. Rajni Jindal**  
Head of Department, Computer Science and  
Engineering



**Prof. Rajan Yadav**  
Head of Department, Delhi School of  
Management



**Prof. S. Indu**  
Head of Department, Electronics &  
Communication Engineeringg

## Head of Academic Departments



**Prof. Madhusudan**  
Head of Department, Electrical Engineering



**Prof. S. K. Singh**  
Head of Department, Environmental  
Engineering



**Dr. Nand Kumar**  
Head of Department, Humanities



**Prof. Kapil Sharma**  
Head of Department, Information Technology



**Prof. Vipin**  
Head of Department, Mechanical Engineering



**Prof. Ranganath M. Singari**  
Head of Department, Department of Design



**Prof. Rajesh Rohilla**  
Head of Department, Training & PLakhement



**Sh. Manoj Kumar**  
Head of Department, Computer Centre

## **VISION**

"To be a world class university through education, innovation and research for the service of humanity"

## **MISSION**

- To establish centres of excellence in emerging areas of science, engineering, technology, management and allied areas.
- To foster an ecosystem for incubation, product development, transfer of technology and entrepreneurship.
- To create environment of collaboration, experimentation, imagination and creativity.
- To develop human potential with analytical abilities, ethics and integrity.
- To provide environment friendly, reasonable and sustainable solutions for local & global needs.

## **QUALITY POLICY**

The University is committed to achieving global standards of excellence in the field of Science, Technology, Management and allied areas by disseminating knowledge through research, education and innovation. We adopt best practices to maintain high standards in the core and allied functions through continuous evaluation and improvement of our processes.



## HISTORICAL BACKGROUND

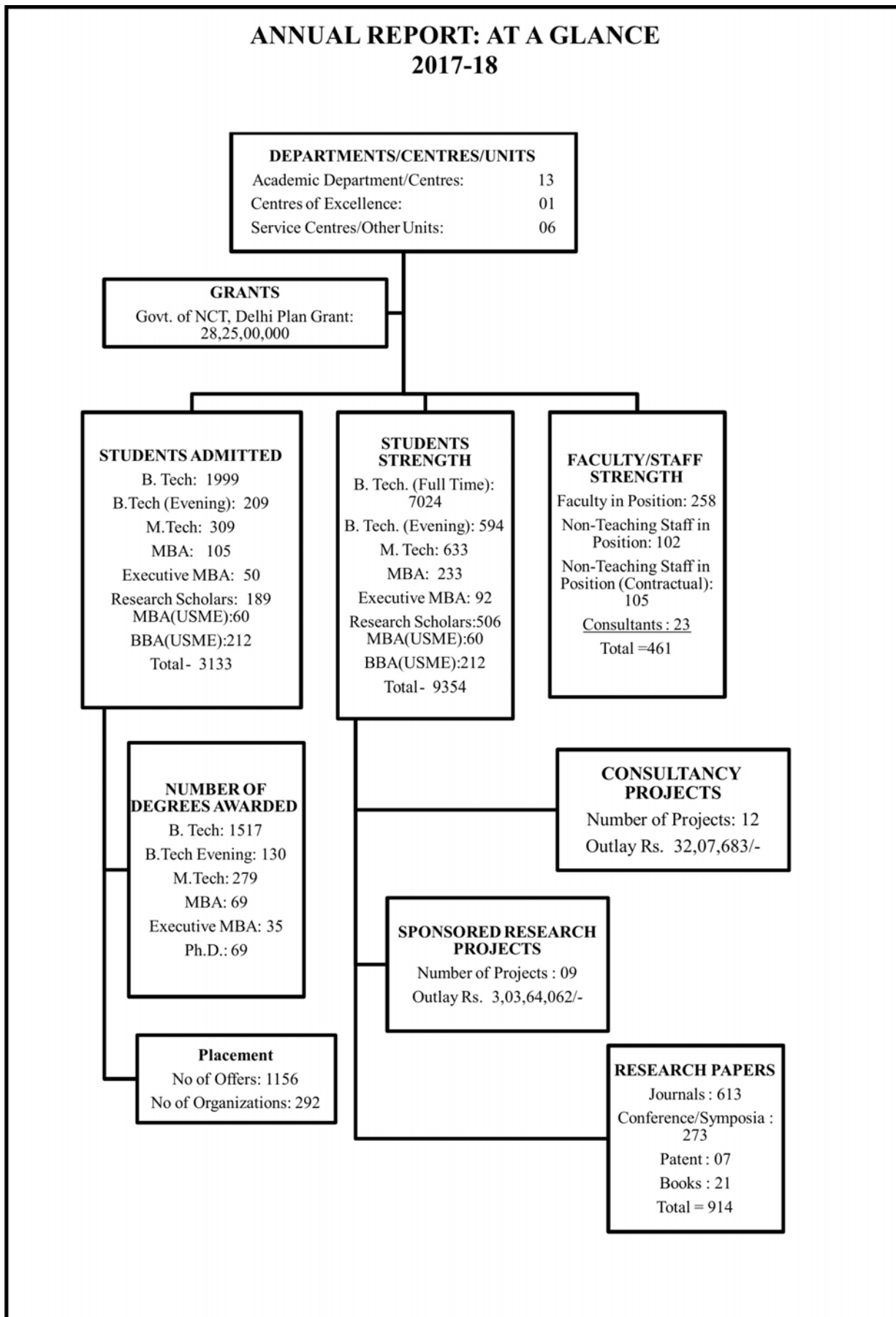
Delhi Technological University (DTU) is a non-affiliating, teaching and research University at Delhi to achieve excellence in science, engineering, technology, management and allied areas and matters connected there with or incidental thereto. The University enables students to face the wide-ranging changes taking place in the fields of science, technology, environment and management. This includes innovation, design, development, construction, production, managerial and entrepreneurial activities. The University lays great emphasis on assisting students in the development of national character, self-confidence, leadership and fostering an ecosystem for creativity and imagination.

This university was initially established with the name of Delhi Polytechnic in the year 1941 and was renamed to Delhi College of Engineering in 1965. In 2009, Delhi Technological University was reconstituted from Delhi College of Engineering by the Government of NCT of Delhi. The University has an illustrious history spanning over 77 years.

The newly established East Delhi Campus of DTU has been functional since the 2017-18 academic session. It is located at Vivek Vihar, Phase II, Delhi. This campus endeavors to provide quality education, research, and innovation in the emerging areas of management relevant to industry and society.

This premier institution is globally well-known for its outstanding education, research, and innovations. The University currently offers various inter-disciplinary and industry relevant programmes in science, technology, management, and allied areas at both the undergraduate and postgraduate level. The University has established a strong academia-industry interface and has collaborations with reputed research organizations, industries, and premier institutions. A great many alumni of the institute have excelled at home and abroad and through their contributions to the profession of engineering they have brought high honour and enhanced the dignity of engineering fraternity being rolled out from institutions in India. In fact, the DTU is a highly preferred choice of the meritorious students in the country. With its illustrious history, strong alumni power worldwide, profound contributions to the growth of quality human capital in engineering and technology and a campus vibrant with technology innovations unleashing the enormous power of creativity of the talented new generation professionals, DTU has earned the reputation of being one of the premier University of Technology in the Country.







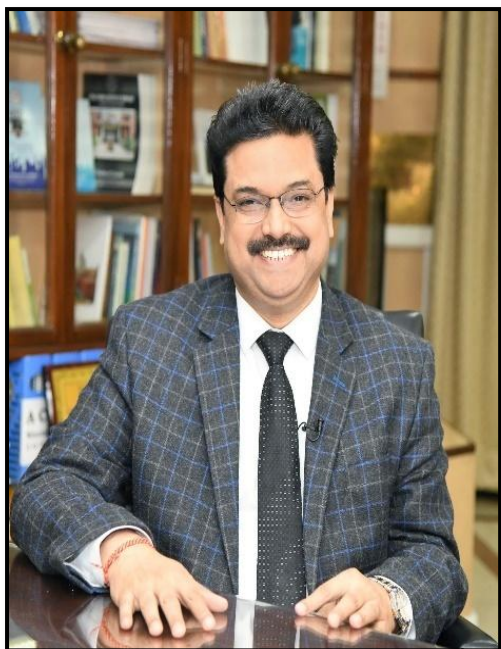


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## VICE CHANCELLOR'S REPORT

Delhi Technological University (Erstwhile Delhi College of Engineering) has a glorious past of more than 77 years and is widely acclaimed for its excellence in education, research & training. DTU's transformation from Delhi Polytechnic to Delhi College of Engineering and then finally to Delhi Technological University has taken an astounding shape and the autonomy granted to it has spurred progress in several uncharted territories. The various transformations have helped us to remain young and energetic in our endeavour for academic excellence.

With a history of over 77 years in providing technical education within modern educational infrastructure, DTU is an institution which defines and continues to update frontiers of Engineering. DTU is fully networked with Industrial, Academic & Scientific community. It has partnerships with leading Universities and Industries in India & abroad. DTU has the alma mater of a highly distinguished pool of World class Engineers and Technologists which includes **Vinod Dham**, the father of the Pentium Chip, **Promod Haque**, the world's most widely acclaimed Venture Capitalist, **Raj Soin**, the Avionics wizards of US & a top ranking Techno Entrepreneur, **Durgadas Agrawal**, the renowned Techno-Entrepreneur based in Houston, to name a few. Delhi Technological University has been the pioneer of Quality Technical Education, Research and Innovation.

Our University has kept the quality of education & research as its main focus of academic and Professional activities, and this has earned us a high reputation in the country and abroad. This is evident from DTU figuring several times among the Top Ten Engineering Institutions in the country, along with the prestigious IITs. Delhi Technological University, has taken several new initiatives in restructuring and strengthening its academic programmes at Postgraduate and Undergraduate levels during the years. Introduction of new programs at the postgraduate level and focus on research and development are crucial factors that have helped in the recognition of DTU as a premier University for higher learning. The University has emerged as the leading Technological University for higher technical education and research in the country. DTU continues to be the one of the most sought-after destination for undergraduate and postgraduate studies and attracts the top performers in national examinations such as JEE (Mains) and GATE.

We are aware of the enhanced expectations of the student community and public at large and strive to live up to our image that has been so persistently built up over the years. We at DTU are committed to achieve our goals to create an environment in which we can nurture our students to be knowledgeable, innovative and trained to work unceasingly to serve the Nation and society. The development of

the Nation depends upon their technical competence and work ethics that they have imbibed during their formative years as students. We are focused to keep pace with the continual progress in the fields of science and technology. The characteristics of the student population at the university are undergoing a significant change in the recent times. The university has responded pragmatically to the large increase in its intake by substantially reorienting itself academically, technologically and administratively and using it as a great opportunity to retain its leadership in engineering education in the country. The undergraduate curriculum for engineering education is designed in such a way that it introduces a new rigor and methodology in undergraduate teaching, laying emphasis on developing analytical skills and challenging the students intellectually.

### **Admissions**

In the year 2017-18, with the initiative of Government of NCT of Delhi, admission to the B.Tech. Programmes at Delhi Technological University was conducted through common counseling, Joint Admission Counseling (JAC), along with three other technical universities/ institutes viz. Indira Gandhi Delhi Technical University for Women (IGDTUW), Netaji Subhas Institute of Technology (NSIT) and Indraprastha Institute of Information Technology Delhi (IIITD). In this way, total 1999 admissions in B. Tech. at DTU were made through common counseling and 209 admissions were made in B. Tech evening. The admission to the category PIO/ FN/ NRI has been conducted through DASA and 92 students were admitted this year. Total of 10 students were admitted under PMSSS in B. Tech. A total of 114 students were admitted in BBA and 95 in BA-Economics (Hons.) in 2017-18. The total 2417 Undergraduate students were admitted in the year 2017-18. A total 309 students were admitted in M. Tech. and 215 students were admitted in various MBA programmes. The total Post graduate admissions in 2017-18 are 524. In 2017-18, about 189 Ph.D. scholars were admitted. All Post graduate and PhD students involved in research given the opportunity to interact with research community at the National and International level by providing funds to attend International/ National Conferences through TEQIP-III. The research scholars are the primary beneficiary of TEQIP-III scheme, however a good number of PG and UG students have also been benefited.

### **Training and Placements of Students**

With the mission of providing leading industries with the brightest minds of country DTU entered the 2017-18 placements seasons with confidence. The process began in June 2018 by sending invitation to companies to visit the University for pre-Placement Talks and provide their job announcements. The talks provided avenue for interaction and familiarization of students with the recruiting organizations and their work profile. In academic year 2017-18, a total of 292 organizations took part in campus placements and offered 1156 jobs to B. Tech. students. Highest salary package offered was 60 Lakhs per annum by Bloomberg. Students from B. Tech., M. Tech, MBA programs in various fields of engineering and technology, also participated in the placement process.

## **New Academic Initiatives**

In 2017-2018, the university had started a new four year course of B. Design and also MBA in Business Analytics. University recruited a total of 75 new faculty members in the year 2017-18 and promoted 56 faculty members under Career Advanced Schemes.

A new **Choice Based Credit System (CBCS)** has been introduced in the curriculum by the University. The choice based credit system features a broad-based, flexible education system and at par with global standards. This system allows the students to select among various courses including Foundation courses, Foundation Elective courses, Departmental Core courses, Allied Engineering courses, Industrial Training and Projects, University Elective courses and Departmental Elective courses.

**Foundation Elective Courses** include Skill & Capability enhancement courses, Personality development courses, Personality development courses, Ethics and values related courses, Foreign & Indian language related courses, Sport related courses.

**Departmental Elective Courses** are offered where students can select course from any department/ discipline or MOOC's from various online platforms such as NPTEL, Coursera, etc.

The University Student Internship Program (USIP) a total of students have been awarded paid internship for academic and administrative support work. The mobile application based online attendance monitoring system has been put in place for better monitoring and engagement of students.

## **Continuing Education and Outreach Programmes**

Continuing Education Programme (CEP), Quality Improvement Programme, Curriculum Development Programme and Faculty Development Programme (FDP) activities continued to attract wide interest from industry, academia and from our own faculty. The CEP courses at DTU, aim at working professionals, and have sustained its significant activities despite the challenging industrial scenario prevailing throughout this period. The FDP programs, sponsored by TEQIP-III at DTU are meant for faculty. These courses are very popular, and a large number of college teachers are benefited from them. With a view of having more interactions between industry professionals and teachers, special attempts have been made to open up the FDP programs to college teachers and industry professionals. This has been found to be a very worthwhile experience for the teachers and the industry personnel. As per the career advancement scheme implemented in this session, numerous promotions have been granted.

The University has established Center of Outreach and Extension activities in 2018 with an aim to organize a variety of activities for promoting public awareness. Several schemes based on social entrepreneurship have been implemented by the University. The schemes will include Digital literacy, E-waste collection, Water filtration units set up, Health camps, Blood donation camps, Organ donation camps,

Cloth donation camps, awareness camps on depression and thalassemia, training workshops for acid attack survivors, skill development for women, recycling of biodegradable waste into useful manure and cleanliness drive.

In addition to it the National Service Scheme (NSS), NSS-DTU provides extended dimension to the higher education system and orient the students towards community service while they are studying in the institution, and to establish a meaningful linkage between the campus and the community.

### **Faculty Centric Policies**

A new Pension Scheme was implemented during 2017-18 for DTU faculty and staff which will be effective from the year 2010. Professional Development Fund Grant was granted to faculty with Initial grant of 2 Lakhs for facility creation and 2 Lakhs grant in every three years for attending conferences, workshops and training programs. Career Advancement Scheme is done on continuous basis. Various awards for Excellence in Teaching was given also Institution of Adjunct Professorship & Professor for lifetime was awarded. Awards for Excellence in Research were also given to the various researchers: Outstanding Research Award (Cash Prize INR 5,00,000/-) & Commendable Research Award (Cash Prize INR 50,000/-) were give to 103 Researchers with 82 SCI Indexed publications have been awarded INR 37 Lakhs in the year 2017-18.

### **Campus Infrastructure Development**

In order to cope with the increased need of the students w.r.t their hostels, a proposal for construction of buildings under 'Phase-II Construction at DTU Campus' at a cost of Rs 291.88 Crore has been submitted to the government which covers construction of one boys and two girl's hostels for 990 students, two academic blocks for 3000 students. Organic Waste to Energy Plant, largest in educational institute of North India has been recently developed with capacity of 1 TPD. A new building is being developed for Delhi School of Management. A Single Storied Block, Multi-purpose Hall (SPS Type), to accommodate 3,000 persons at a time is under construction. Double storied Design Centre, SPS Building, is under construction. Double Storied Faculty Block which will provide 30 number of faculty offices is under construction. Sewerage Treatment Plant (STP) Waste on Bio-Filter having capacity of 1 M.L.D (Million Litre per Day) is under construction. Solar power plant of capacity 432 Kwp has been installed for power generation at DTU Campus and it is best in terms of technological parameters currently available commercially as per MNRE guidelines. The plant is installed at roof top and it covers an area of 7050 Sq mtrs. The plant through LT power feeds to electrical, electronics, mechanical, science and civil blocks of the campus.

### **DTU Studio**

The Television Studio at Delhi Technological University is an example of Innovation and Industry Academia Collaboration. The spacious television studio can

handle Pre-Production, Production and Post-Production activities for various activities like Interview, Panel Discussion, short plays, lectures, etc. DTU Studio comprises of a multi camera setup with lighting grids and a Teleprompter, Production control room with control panels which can handle multiple video and audio sources online and offline, Graphics and special effects generators, video edit suites with a Mac equipped with Final Cut Pro Video Editing software, Motion, Live-Type, EDIUS 9.0 video editing software and Photoshop CS6, etc. Our experienced and competent team of professionals renders these services by making use of ultra-modern technology with quality standards in tandem with exact requirements and necessities as required. The students of Delhi Technological University are engaging in a whole range of In-house and Outdoor production activities.

### **Sports and Gymnasium**

The students of Delhi Technological University are provided with excellent facilities and encouraged to take part in the tournaments held in and around NCR Delhi, particularly, engineering institutions. Delhi Technological University is having 400 m running track, ground for Football, Hockey, Cricket, two courts for Volley Ball, two courts for Basketball, three courts for Tennis and five courts for Badminton, Three Kabaddi courts, Indoor Games facilities are also provided i.e. Table Tennis rooms, Chess rooms, Carom rooms and Gyms are also available in each hostel of the DTU campus. In 2017-18, basketball court, tennis court and volleyball court have been reconstructed. Cricket ground maintenance is done and cricket practice nets have been installed. A new indoor hall for table tennis and badminton has been opened. Total 8 new coaches (Athletics: 01, Cricket: 01, Badminton: 01, Kabbadi: 01, Football: 01 & Volleyball: 03), 1 Gym trainer and two grounds men have been appointed. Sports council of DTU has organised several tournaments during 2017-18 academic sessions through a new sport fest named as AAHVAAAN.

### **Health Centre**

The DTU is having a modest Health Centre managed by well experienced doctors. Services of five medical practitioners are available to the students throughout day and evening. The University health centre is also visited by specialized medical practitioners for ENT, Eye, Dental care etc. for expert advice and treatment. University is also having tie up with nearby leading hospitals for emergency. A large number of hospitals are in the vicinity of the University; some of them are Dr. Bhim Rao Ambedkar Hospital, Saroj Hospital, Mahavir Hospital, Jaipur Golden Hospital, and Satyam Hospital etc. A new sports medicine-cum-physiotherapy centre has been added to provide the necessary expert advice. The following Doctors engaged in the university health centre. New doctors are engaged in the departments of Gynecology: Dr Nishi Jha, Psychiatry: Dr Gaurav Gupta and Clinical Psychology: Dr Neha Golchha. Two qualified new nursing staffs (One Male and One Female) are deputed to provide adequate nursing facility to all the stake holders viz., students, faculty staff etc.



## DTU Innovation and Incubation Foundation

DTU Innovation and Incubation Foundation (DTU IIF) was established, pursuant to subsection (2) of section 7 of the Companies Act, 2013 and rule 8 of the Companies (Incorporation) Rules, 2014. Center of Outreach & Extension Activities was established which aims to organize a variety of activities for promoting public awareness. Currently 12 startups are being incubated in DTU IIF. Recently DTU has adopted five villages in college vicinity under the Unnat Bharat Abhiyan. Center of Human Resource Development has been established which aims to upgrade and enhance the skills and knowledge of faculty at DTU. Students can start their own industry with infrastructural, expert and monetary support from the university. There will be a special pool of experts that will help the enterprise stand on its own feet. Initial seed funding will be provided by the university. Also, students shall be encouraged to float their entrepreneurship career for two years. If they are not satisfied with their enterprise, they are eligible for interviews and placements. The pre-final students can also step into entrepreneurial journey, and come back later to complete their studies. In the year 2017-18 total 11 Start-ups were incubated in DTU IIF.

## National and International Collaborations

The DTU has signed 18 MoU with various universities, institutions and organizations. This year, DTU has signed two new MoUs with University of South Florida, U.S.A and Chaoyang University of Technology, Taiwan for academic interactions, students and faculty exchange, and collaborative R&D work. The MoU with TCS has also being renewed. During the year 2017-18, MOUs with several national and international organizations have been signed.

- University of Houston, Texas, USA
- University of Alcala, Spain
- Chaoyang University of Technology, Taiwan
- Babol Noshirvani University of Technology, Iran
- N + I, Institut Francais, France
- Birmingham University, UK
- University of South Florida, USA
- Tashkent University of Information Technologies, Uzbekistan

## Engagement with Alumni

Recent Activities of Alumni Office included North America DCE-DTU Alumni meet at San Francisco in February 2018, USA, Annual alumni meet 2018, New Delhi in March, 2018, Golden and Silver Jubilee meet, New Delhi in March 2018, Overseas Invited Lecture series by Bio-technology department in March 2018, Alumni get together meet at Florida, USA in June 2018, MoU Agreement for Raj Soin Hall in September 2018 and MoU Agreement with University of Georgia, Athens.

Overseas Alumni has donated in big way in the year 2017-18. Dr. Raj Soin donated Rs. 5 crores for Raj Soin Hall in 2018, Dr. Durga Das Aggarwal donated Rs.

7 Lakhs in 2018 and Rs. 3 Lakhs in 2017, Shri. Vijay Nangia donated Rs. 3.5 Lakhs for medals in 2018 and Shri B. Goswami donated Rs. 21 Lakhs in 2018.

### **TEQIP–III: A World Bank Project**

TEQIP-III Project started in DTU in July 2013 with an overall funding of Rs.12.5 Crore. The main objectives of TEQIP-III project are to strengthen PG education, research and innovation, promote industry partnership in education and research, and build quality faculty capacity. Delhi Technological University has been selected as Mentor Institute for the TEQIP-III Project for Mentee Institute is Madhav Institute of Technology and Science, Gwalior is w.e.f. 01.04.2017 and shall conclude by 30th September, 2020. The institute is covered under Sub-component 1.3: Twinning Arrangements to Build Capacity and Improve Performance.

The main objectives of TEQIP-III Project at DTU are:

- Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS1), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT));
- System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards affiliated institutions;
- Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.

### **Cultural, Sports and Technical Festivals**

The university not only concentrates on academic activities, but also gives emphasis on an all-round development of its students. The Institute has therefore, created excellent infrastructure for a variety of co-curricular and extracurricular activities and various technical societies are functioning in the University under the faculty advisors and mentors. The DTUSA along with its different technical societies of various departments generally plan, organize and manage the various student activities throughout the year. The various societies working in the University are: Computer society of India, DTU Chapter, The Institution of Engineering and Technology, IET, DTU Chapter, Robotics Society, SR-DTU, IEEE, DTU, Society of Manufacturing Engineering, DTU, SAE, DTU Chapter, ASME, DTU Chapter, International Society for Optical Engineering (SPIE), Society for Experimental Mechanics (SEM), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), DTU Chapter, Society of Plastics Engineers (SPE) DTU, American Society of Civil Engineers (ASCE), DTU Chapter and Society for Environmental Engineering, DTU. The various societies have organised their annual function in Jan-Feb, 2018 and later they have also organised the Technical festival from in February, 2018. The cultural spectacle started with inauguration ceremony, a gracious beginning to the highest on energy fest.

## **Techfest'18**

The tech fests of Delhi Technological University were organised from 12-14 February, 2018, to achieve a confluence of knowledge, innovation and nurture the technical abilities and skills of students. Dr. S. Indu was the Faculty Co-ordinator. Various events held during the Techfest by various societies were Asymptotes 2018 by MACS, DTU, AURORA 2017 by the Department of Applied Physics, EXCELSIOR by SR-DTU, Troika by IEEE DTU, RENAISSANCE by IET DTU Student Chapter, TRYST by IGTS DTU, KARYON'17organised by Department of Biotechnology

## **Engifest'18**

The much awaited Engifest 2018 with the theme "Delhi- A City Rekindled" was held on 16-18<sup>th</sup> February. As our vision was to make it bigger than it ever was, preparations were started from November only. The three-day fest was a plethora of activities ranging from electrifying to dance performances to heart wrenching drama. True to its spirits, Engifest 2018 provided a platform to students from all over India to discover their passion and showcase their talent.

## **Aahvaan'18**

Aahvaan 2018 was organised from 23rd-26th of March 2018. It saw participation of over 700 sportspersons. A sports talk was held during the fest, featuring Sheetal Mahajan (sky diver), Naveen Gulia (Para Olympics achiever) and Rajesh Chauhan (former hockey player), the lesser known stars of India. AAHVAAAN took up the issue of discrimination against North-East Indians Performances by the Zakir Khan, Qawwali Night with the Nizami Bandhu, Colour Run and other events were held.

## **E-Summit 2018**

E-Summit 2018 was organised from 31<sup>st</sup> January to 2<sup>nd</sup> February 2018. It saw a participation of over 10,000+ dynamic entrepreneurs and students from across the country. Leadership Lecture Series was organised with speakers such as Didier Rappaport, CEO Happn, Youtuber Amit Bhadana and Comedian Abhishek Upmanyu. Startup Internship Fair was also organised which provided Internships to over 800 students in various Companies and Startups.

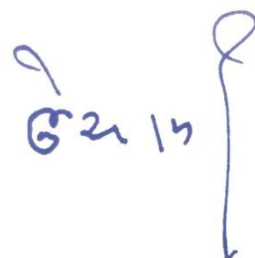
## **DTU Ranking**

According to NIRF Ranking 2018, DTU has been awarded the 41th Rank in Engineering Colleges of India. According to the i3-RC Engineering College Survey 2018, DTU stands at 5th position. As per the Competition Success Review-Global Human Resource Development Centre (CSR-GHEDC) Engineering College Survey, DTU stands on 3<sup>rd</sup> rank. According to the India Today Survey of 2018, DTU was at 7<sup>th</sup> rank among all the Engineering Institution of India.

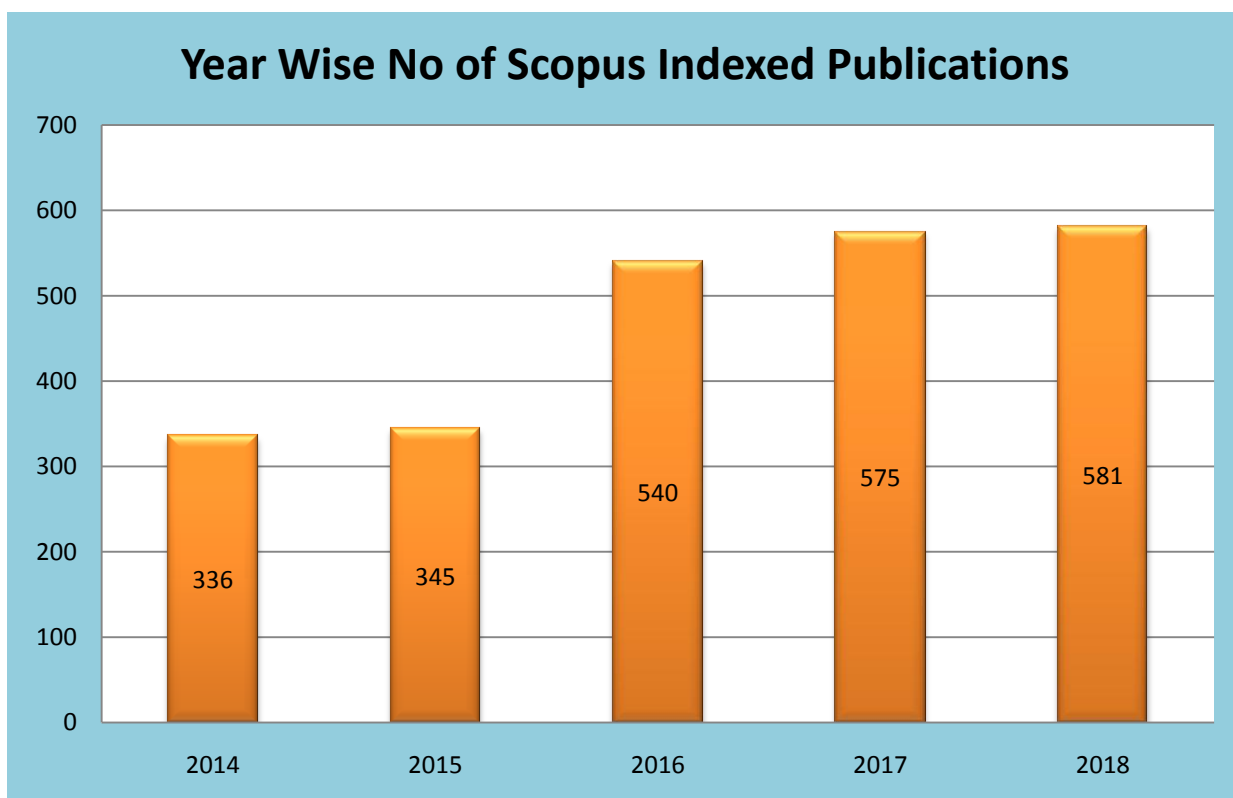
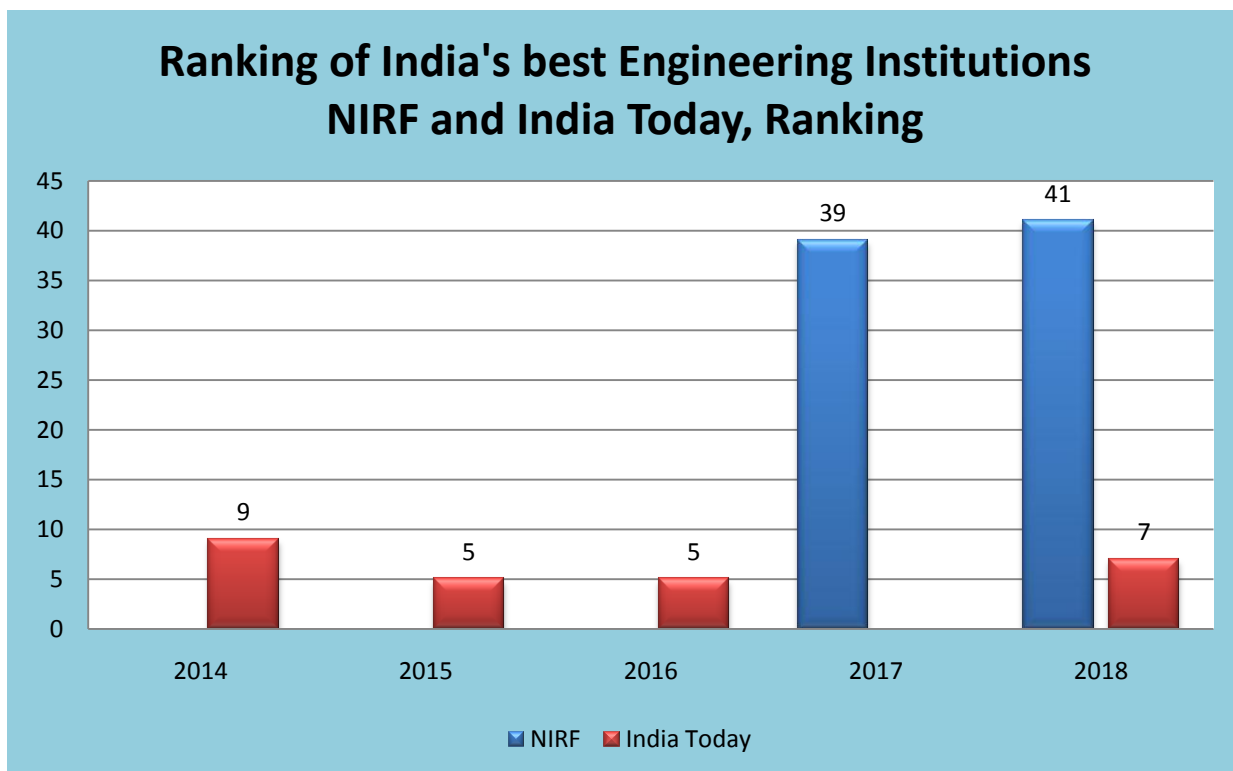
## Acknowledgment

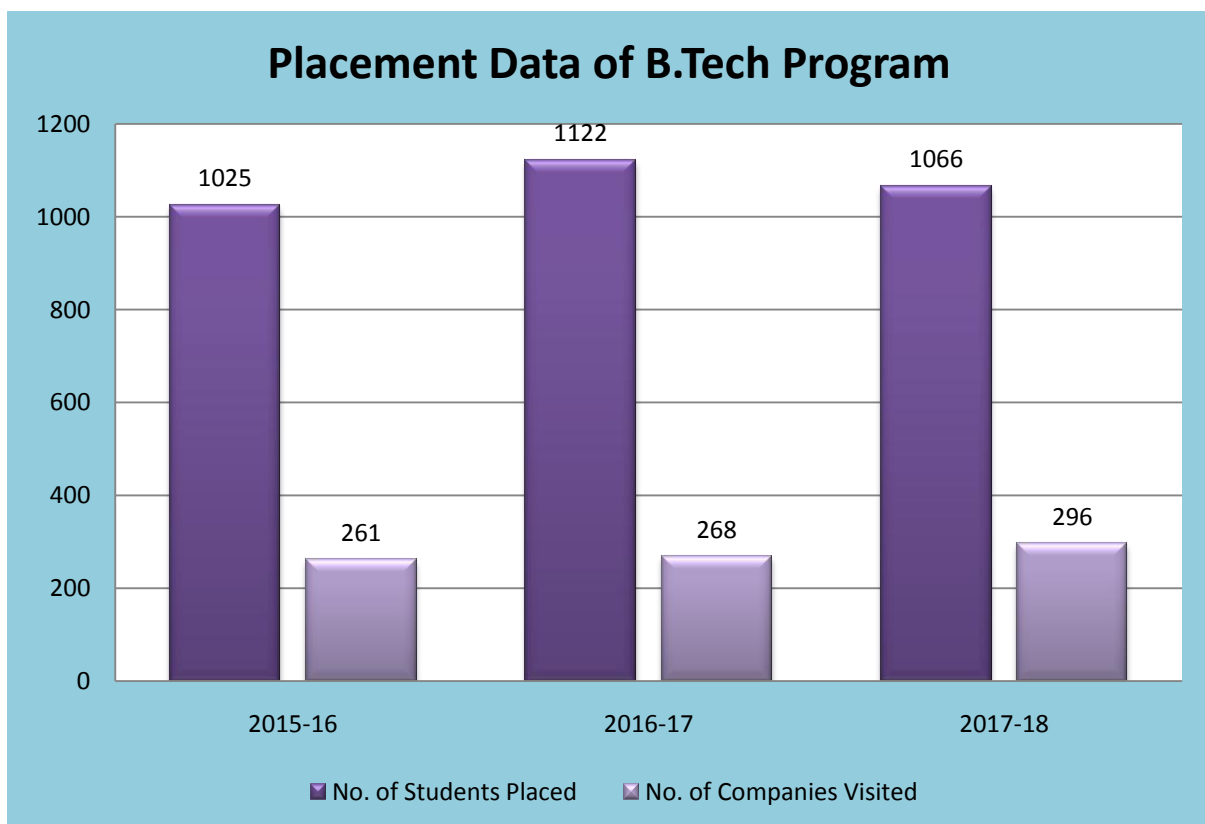
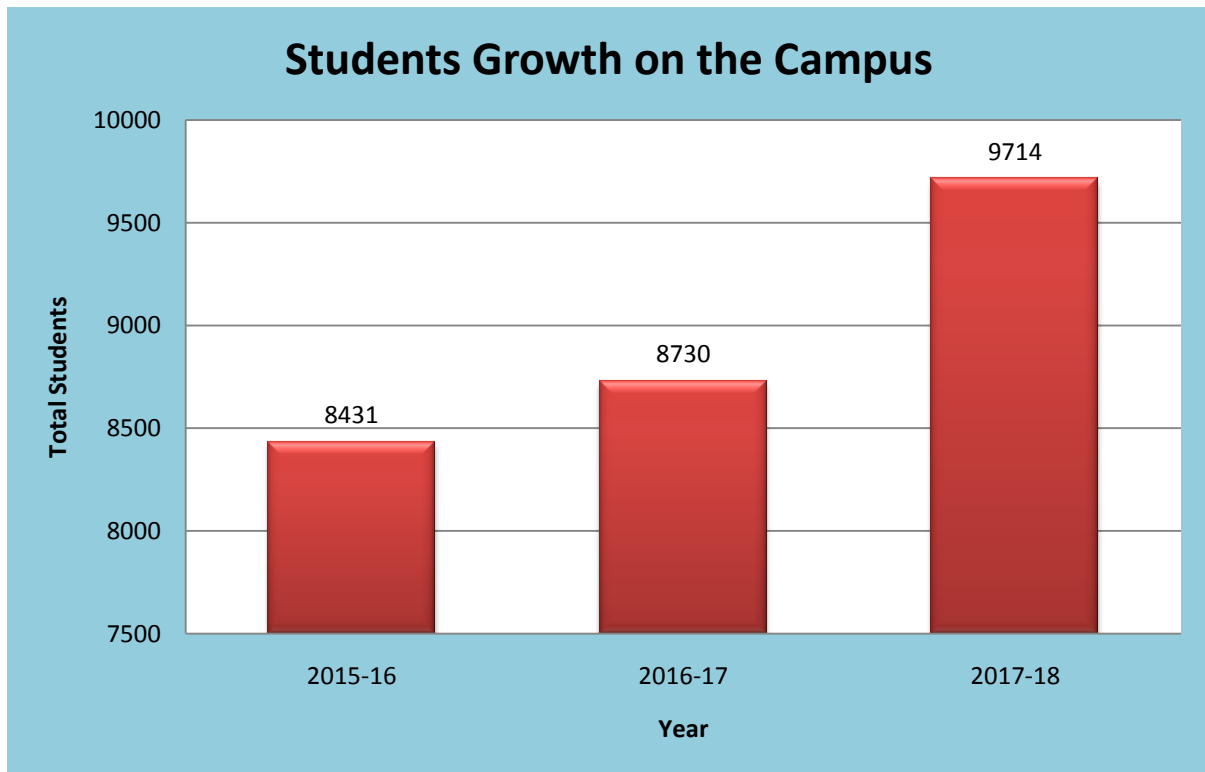
DTU is grateful to the financial support provided by GNCTD, MHRD, DST, AICTE, UGC, CSIR, DBT and DRDO. My sincere thanks to all the faculty members, employees, students and alumni for their devotion and hard work invested in DTU. Over the years, DTU has contributed significantly to the national cause of providing excellent technical education and will continue with this same tradition in the coming years. I am deeply indebted to the Hon'ble Chancellor, Shri Anil Baijal, Lieutenant Governor of NCT of Delhi, Hon'ble Shri Arvind Kejriwal, Chief Minister, Hon'ble Shri Manish Sisodia, Deputy Chief, Minister, and Minister of Higher and Technical Education, for their guidance, support and co-operation which enables DTU to attain its goal. I take this opportunity to thank the Chief Secretary, Principal Secretary (Finance) and Secretary (Higher Education) and Director TTE, for their incessant cooperation by providing grants for the development of DTU. My sincere gratitude to the Members of Board of Management, Finance Committee, Planning Board, Academic Council, Finance Committee and other Committees of DTU for their valuable contribution which enables DTU to achieve its mission. I compliment the Editorial team for their untiring efforts which was invested in compiling this report.

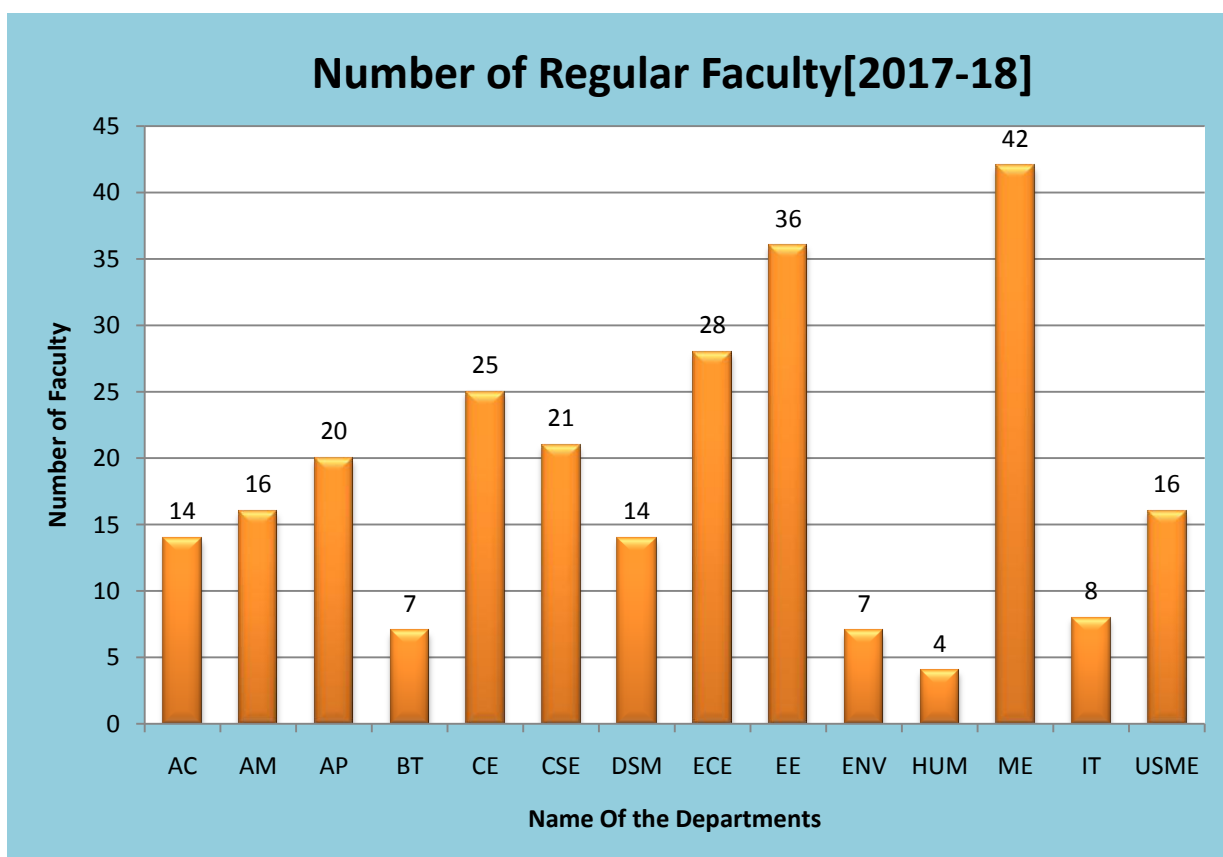
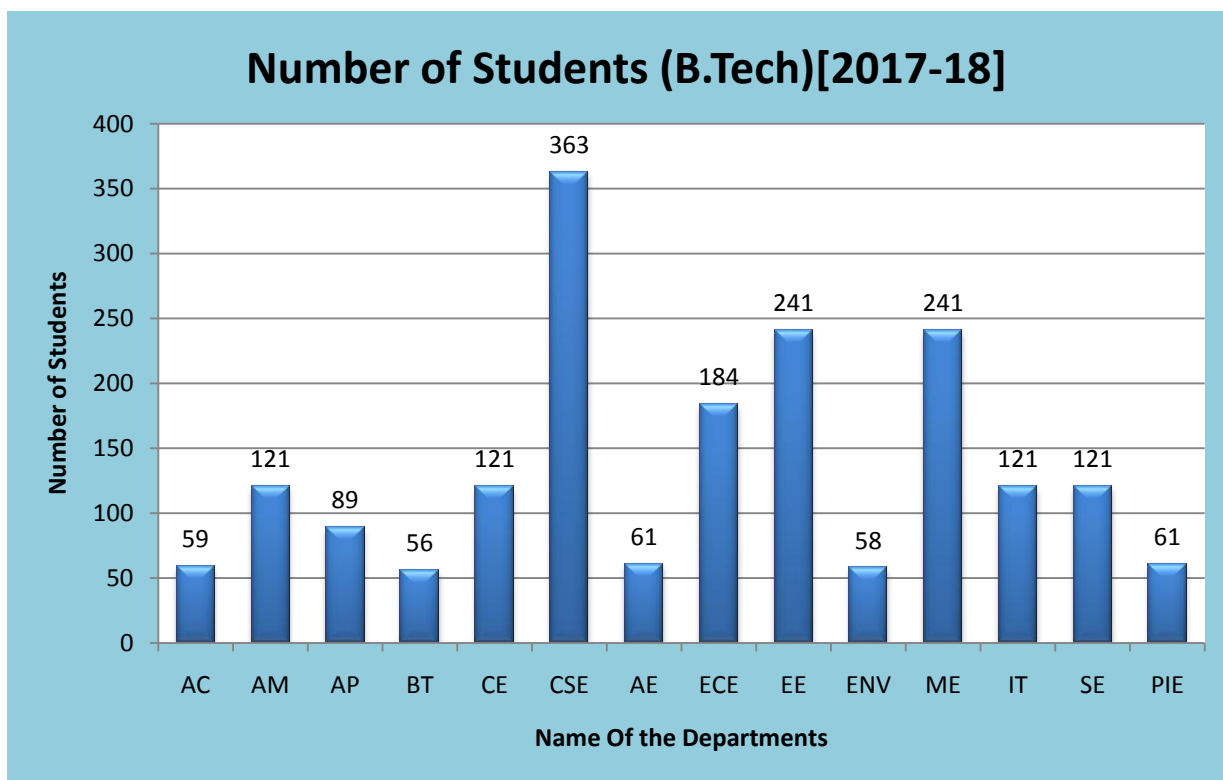
With best wishes,

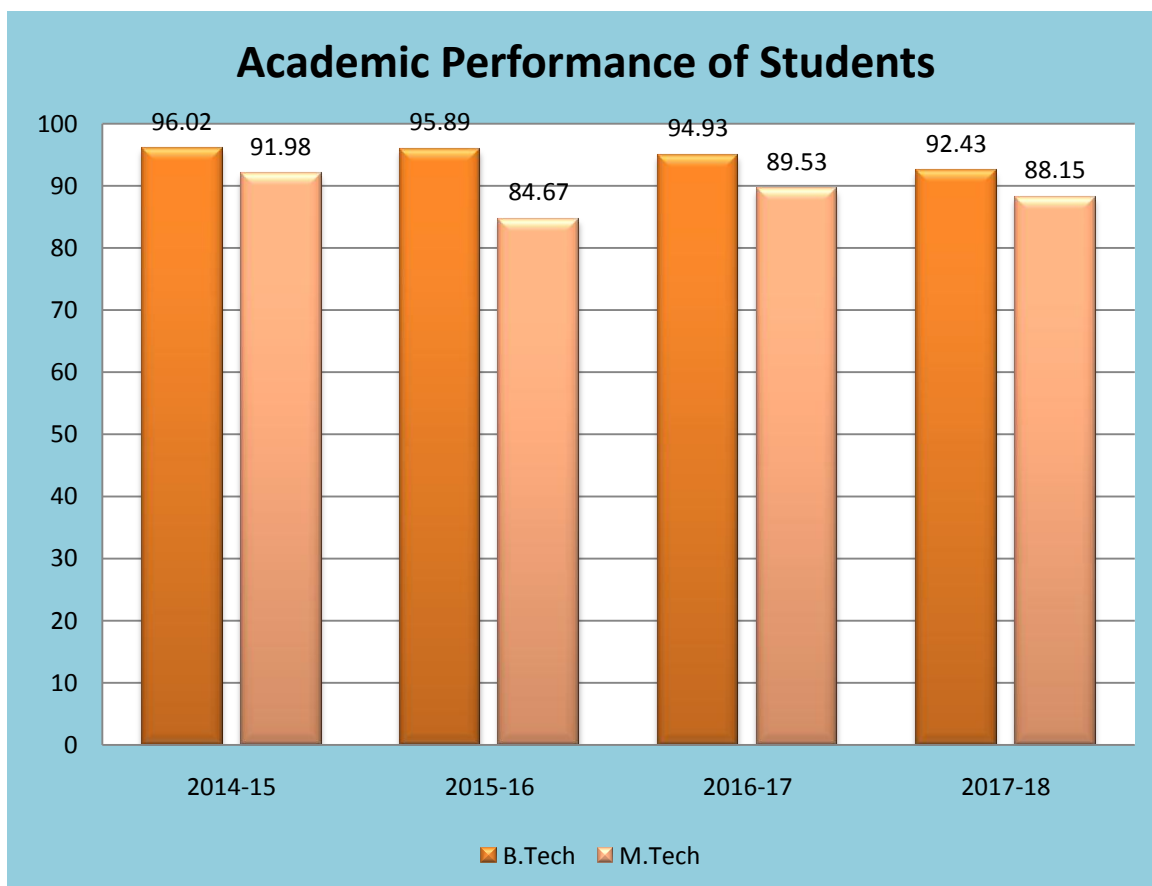
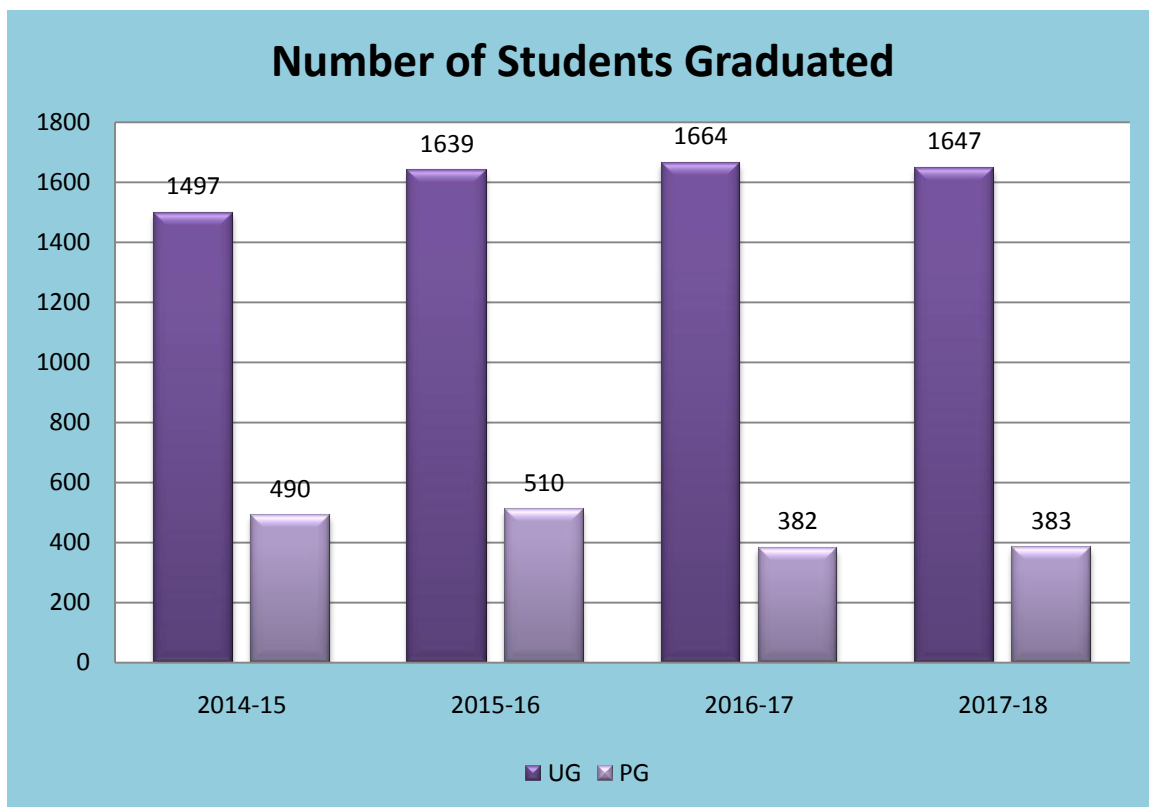


**Prof. Yogesh Singh**  
(Vice Chancellor, DTU)

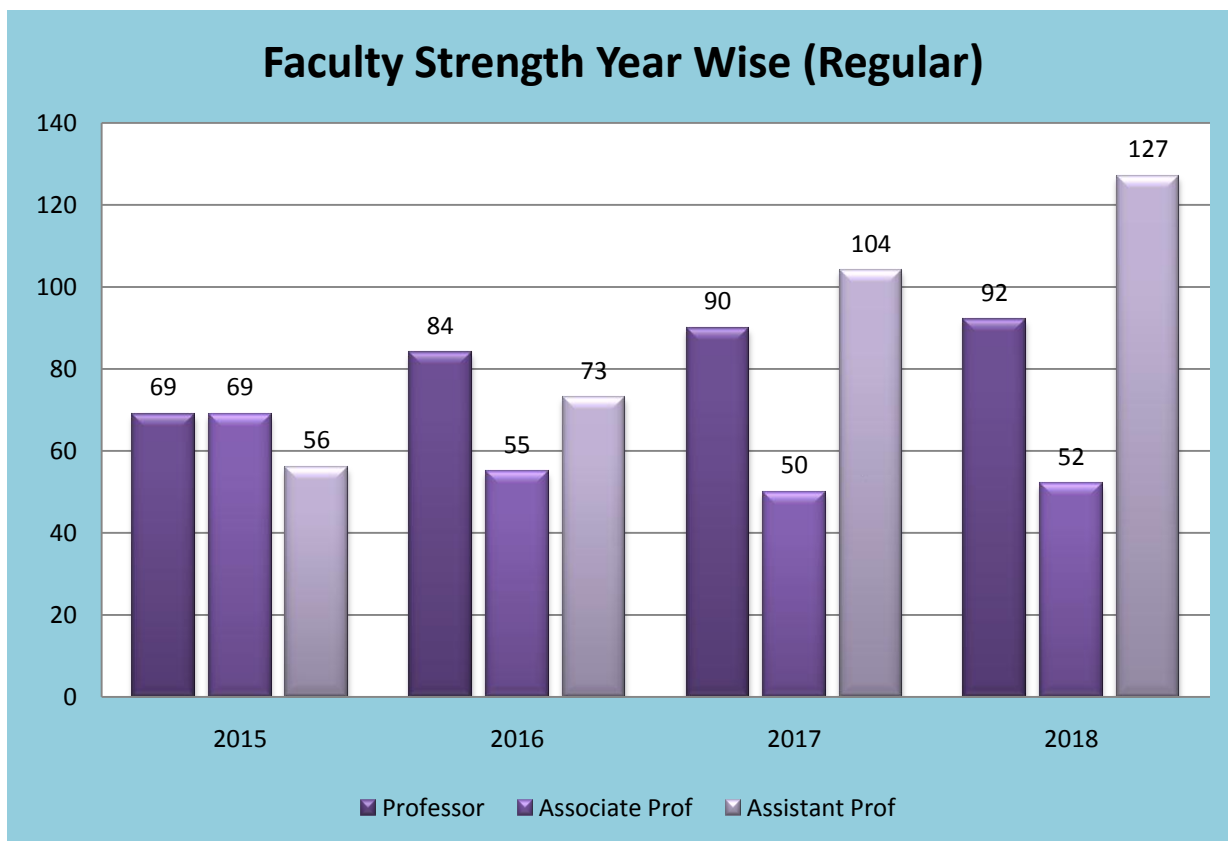
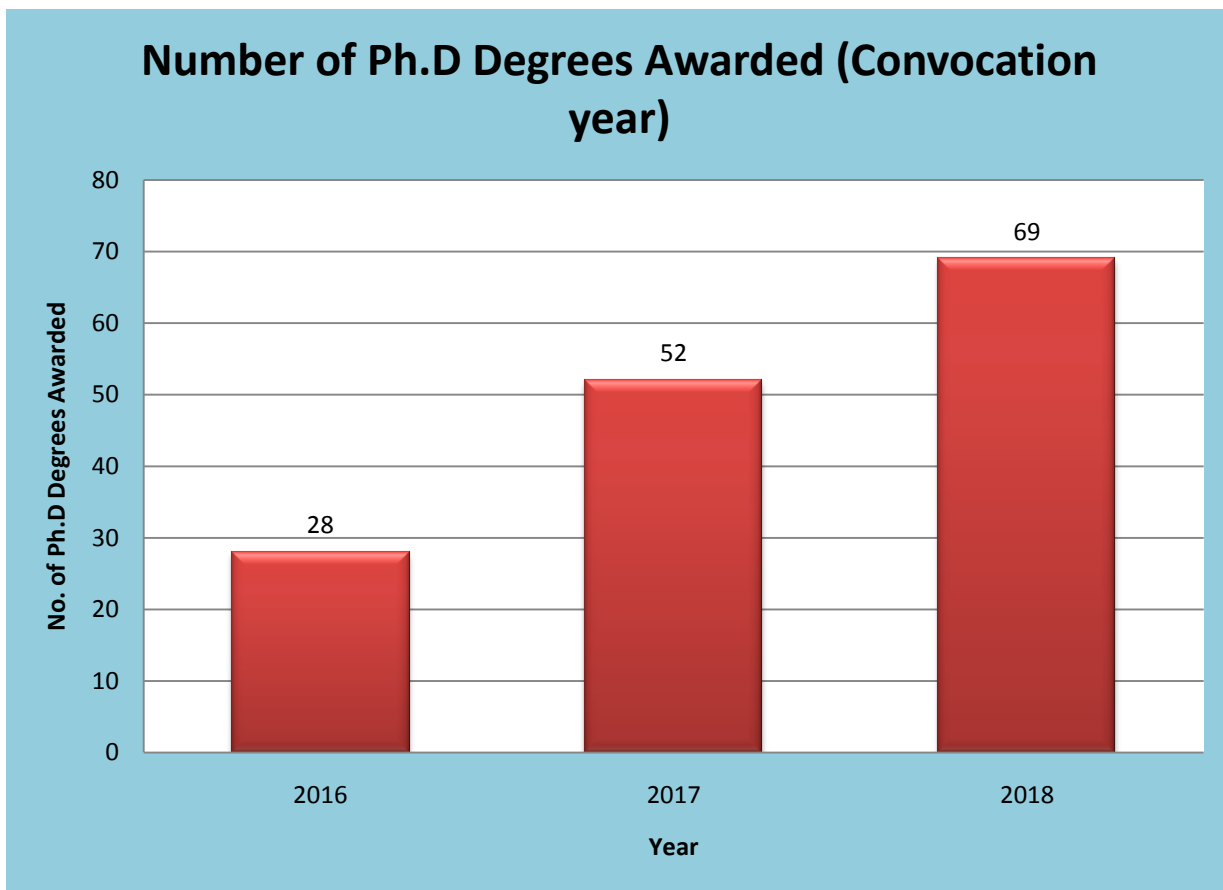














4<sup>th</sup> Convocation 2017



Meeting of Board of Management



**Visit of Ombudsman**



**Faculty Development Programme**

## 1. Organization and Administration

### 1.1 University Court

S. No.	Name	Position in the Court
1.	The Chancellor, DTU, His Excellency Lt. Governor, Govt. of NCT, Delhi,	Chairperson
2.	Vice Chancellor, DTU	Member
3.	Prof. Anil K. Tyagi, VC, GGSIPU	Member
4.	Prof. Saibal Chattodhyay, Director, IIM Kolkata	Member
5.	Prof. M.N. Doja, Head, Computer Engineering Department, Jamia Milia Islamia, Delhi	Member
6.	Prof. Bhim Singh, Department of Electrical Engineering, IIT, Delhi	Member
7.	Prof. Lalit Awasthi, Director, National Institute of Technology, Jalandhar, Punjab	Member
8.	Principal Secretary (Finance) to the Government of NCT of Delhi (ex-officio)	Member
9.	Principal Secretary or Secretary (Higher Education) to the Government of NCT of Delhi (ex-officio)	Member
10.	Principal Secretary or Secretary (Technical Education) to the Government of NCT of Delhi (ex-officio)	Member
11.	A Nominee of UGC	Member
12.	Prof. Rajive Kumar, Advisor-1 P&AP Bureau, AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi 110067 (AICTE Nominee)	Member
13.	Registrar, DTU	Secretary

### 1.2 Board of Management

S. No.	Name	Position in the Board
1.	Vice Chancellor, DTU, (Ex. Officio)	Member
2.	Pro Vice Chancellors, DTU, (Ex. Officio)	Member
3.	Principal. Secretary, Finance, (Ex. Officio)	Member
4.	Principal Secretary, Higher Education, (Ex. Officio)	Member
5.	Principal Secretary, Technical Education, (Ex. Officio)	Member
6.	Prof. Ajay K. Sharma (Eminent Person)	Member
7.	Prof. Khalid Moin, (Eminent Person)	Member
8.	Prof. I. K Bhat, (Eminent Person)	Member
9.	Sh. Sameer Nayyar (representative of an Industry Association)	Member

10.	Dean (IRD), DTU	Member
11.	Dean Academic (UG), DTU	Member
12.	Prof. H.C Taneja, Professor, DTU	Member
13.	Prof. Samsher, Professor, DTU	Member
14.	Registrar, DTU	Member Secretary

### 1.3 Academic Council

S. No.	Name & Designation	Position in the Academic Council
1.	Vice Chancellor, DTU	Chairperson
2.	Pro Vice Chancellors, DTU	Member
3.	Prof. Smriti Srivastava, Prof. of Computer Engineering, Head Division of ICE, NSIT, Delhi	Member
4.	Prof. Tarun Das, Professor of Mathematics & Registrar, University of Delhi, Delhi-110007	Member
5.	Prof. Surendra Yadav, Professor of Management, IIT-Delhi, Hauz Khas, New Delhi	Member
6.	Prof. S. G. Deshmukh, ABIITM, Gwalior (UGC Nominee)	Member
7.	Dr. Bhim Singh, CEA Chair Professor & Head, Deptt. of Electrical Engineering, IIT Delhi (AICTE Nominee)	Member
8.	Mr. Lokesh Mehra, Director Workforce Development, Oracle India Pvt. Ltd., New Delhi (FICCI Nominee)	Member
9.	All Deans of the University	Member
10.	Prof. Rakesh Kumar, Professor, Civil Engineering Deptt.	Member
11.	Prof. Narendra Kumar-I, Professor, Electrical Engineering Deptt.	Member
12.	Prof. Naveen Kumar, Professor, Mechanical Engineering Deptt.	Member
13.	All Heads of the Schools/Departments, DTU	Member
14.	Controller of Examinations, DTU	Member
15.	Sh. N. K. Bhagat, Associate Professor, Electrical Engg. Deptt.	Member
16.	Dr. M. Jayasimhadri, Assistant Professor, Applied Physics Deptt.	Member
17.	Registrar, DTU	Member Secretary

## 1.4 The Planning Board

S. No.	Name	Position in the Board
1.	Prof. Yogesh Singh, Vice Chancellor, DTU	Chairperson
2.	Prof. S. K. Garg, Pro Vice Chancellor (I), DTU	Member
3.	Prof. Anu Singh Lather, Pro Vice Chancellor (II), DTU	Member
4.	Dr. Pritam Singh, Former Director, IIM Lucknow	Member
5.	Prof. Prem Vrat, Pro-Chancellor, NorthCap University	Member
6.	Prof. I. K. Bhat, Professor, MNNIT, Allahabad	Member
7.	Prof. J. P. Saini, Vice Chancellor, NSUT, Delhi	Member
8.	Registrar, DTU	Secretary

## 1.5 Finance Committee

S. No.	Name	Position in the Committee
1.	Prof. Yogesh Singh, Vice Chancellor, DTU	Chairman
2.	Principal Secretary (Finance), GNCT of Delhi, New Delhi	Member
3.	Principal Secretary, Department of Training & Technical Education, GNCT of Delhi, Muni Maya Ram Marg, Pitam Pura, Delhi	Member
4.	Prof. Ajay Kumar Sharma	Member
5.	Prof. S. K. Garg, Pro Vice Chancellor (I), DTU	Member
6.	Registrar, DTU	Member
7.	Shri Nand Kishore, DR (Finance & accounts), DTU	Member Secretary

## 1.6 Internal Quality Assurance Cell (IQAC)

S. No.	Name	Designation
1.	Prof. Yogesh Singh, Vice Chancellor	Chairperson
2.	Prof. S.K Garg, Pro Vice Chancellor (I)	Member
3.	Prof. Anu Singh Lather, Pro Vice Chancellor (II)	Member
4.	Prof. H.C. Taneja, Dean (PG)	Member
5.	Prof. Madhusudan Singh, Dean (UG)	Member
6.	Prof. A. Trivedi, Dean (IRD)	Member
7.	Prof. Nirendra Dev, HoD (Civil Engineering)	Member

S. No.	Name	Designation
8.	Prof. Neeta Pandey, Deptt. of Electronics & Communication Engineering	Member
9.	Prof. V.K. Minocha, Deptt. of Civil Engineering	Member
10.	Prof. Samsher, Registrar	Member
11.	Prof. S.G. Deshmukh, Director, IITM Gwalior	External Expert Member
12.	Sh. Sanjeev Kumar Gupta, Managing Director (Corporate Affairs), Accenture Services pvt. Ltd., Gurgaon	External Expert Member
13.	Sh. Arun Gupta, Alumni, C-10/6, Sector-17, Rohini, Delhi	External Expert Member
14.	Prof. M.M. Tripathi, Dept. of Electrical Engineering, Director (IQAC)	Member Secretary
15.	Dr. Nilam, Associate Director (IQAC)	Special Invite
16.	Dr. Anil K. Haritash, Associate Director (IQAC)	Special Invite
17.	Sh. Rajesh Kr. Yadav, Associate Director (IQAC)	Special Invite
18.	Sh. Kamal Pathak, Controller of Examination	Special Invite
19.	Sh. D.P. Dwivedi, Consultant (Finance & Planning)	Special Invite

## 1.7 Administration

S. No.	Name	Designation
1.	Prof. Yogesh Singh	Vice Chancellor
2.	Prof. S. K. Garg	Pro - Vice Chancellor (I)
3.	Prof. Anu Singh Lather	Pro - Vice Chancellor (II)
4.	Prof. Samsher	Registrar, Controller of Finance & Dean Student Welfare
5.	Prof. Reeta Wattal	Chairperson, Internal Complaints Committee (prevention, prohibition & redressal of sexual harassment of woman and workpLakhe)
6.	Prof. Narendra Kumar (II)	Chief Warden & Chairman BOD
7.	Sh. Kamal Pathak	Controller of Examination
8.	Prof. A.K Gupta	Chief Vigilance Officer
9.	Prof. P.K. Suri	Chairman, Central Purchase Committee
10.	Prof. Nirender Dev	Director, Human Resource Development Centre
11.	Prof. Vikas Rastogi	Coordinator, TEQIP- III
12.	Prof. Rakesh Kumar	Suptd. (Exam)
13.	Prof. S. Indu	Coordinator, NIRF Ranking & Chairperson Cultural Council
14.	Prof. J. Panda	Chairperson, Technical Council
15.	Prof. Rajeshwari Pandey	Associate Dean (Academic - UG)
16.	Prof. Amit Shrivastav	Associate Dean, Outreach and Extension
17.	Prof. Raj Kumar Singh	OIC, Workshop
18.	Prof. R.C. Singh	Chairperson Sports Council
19.	Prof. M.M. Tripathi	Director, IQAC & Coordinator IPR Cell
20.	Prof. R.S. Walia	HOD, T&P
21.	Dr. S.G. Warker	Associate Dean Student Welfare
22.	Prof. Rajesh Rohilla	Officer In-charge, Hostel & Guest House
23.	Prof. Naokant Deo	OIC, B.Tech (Evening) & Chairman, NSS
24.	Prof. A.K. Srivastava	Director, Physical Education
25.	Sh. Rajesh Birok	OIC, Health Centre



S. No.	Name	Designation
26.	Dr. Nitin Puri	Transport Officer, Security Officer
27.	Dr. Anil Singh Parihar	Additional In-charge (Secrecy)
28.	Dr. M. Rizwan	Additional Director International affairs
29.	Dr. Roli Purwar	Assistant Director International affairs and Co-coordinator IPR cell
30.	Dr. Ram Singh	Co-coordinator IPR cell
31.	Dr. Anil K. Haritash	Associate Director (IQAC)
32.	Sh. Rajesh Kr. Yadav	Associate Director (IQAC)
33.	Dr. Nilam	Associate Director (IQAC)
34.	Sh. Anil Kumar	Deputy Registrar (Acad-PG and IRD), Link Officer to PIO
35.	Dr. Ravinder Kaushik	Deputy Registrar, Recruitment, Establishment, Legal & PIO
36.	Sh. Anoop Lather	Public Relations Officer & Coordinator EDUSAT
37.	Sh. Bimal Jain	Chief Project Officer/ Estate Officer
38.	Dr. R.K. Shukla	Librarian & OIC S&P
39.	Sh. Madhukar Cherukari	OSD (Results)
40.	Sh. Vinod Bhandari	Assistant Public Information Officer
41.	Dr. Vivek Tripathi	Assistant Registrar (International Affairs)
42.	Sh. Dipin Arora	AR (General Administration)

## 2 Academic and Non-Academic Staff

### 2.1 Academic Staff

S. No.	Department	Prof.	Assoc. Prof.	Asstt. Prof.	Programmer	Total
1.	Applied Chemistry	04	03	07	00	14
2.	Applied Mathematics	08	02	06	00	16
3.	Applied Physics	04	00	16	00	20
4.	Biotechnology	04	00	03	00	07
5.	Civil Engineering	12	09	04	00	25
6.	Computer Science and Engineering	02	05	12	00	19
7.	Delhi School of Management	03	00	11	00	14
8.	Electronics and Communication Engineering	09	05	14	00	28
9.	Electrical Engineering	16	08	12	00	36
10.	Environmental Engineering	02	00	05	00	07
11.	Humanities	02	01	01	00	04
12.	Information Technology	01	02	05	00	08
13.	Mechanical Engineering	21	07	14	00	42
14.	Computer Centre	00	00	00	02	02
15.	University School of Management & Entrepreneurship (USME)	03	00	13	00	16
	<b>Total</b>	<b>91</b>	<b>42</b>	<b>123</b>	<b>02</b>	<b>258</b>

### 2.2 Non-academic Staff

Administrative Block		Non-Technical		Technical		Total
		Permanent/Deputation	Contract	Permanent/Deputation	Contract	
1.	Sr. Accounts Officer (on Deput.)	01	00	00	00	1
2.	Accounts Officer (on Deput.)	02	00	00	00	2
3.	Assistant Accounts Officer (on Deput.)	03	00	00	00	3
4.	Section Officer (On Deput.)	00	01	00	00	1
5.	Chief Store Keeper	01	00	00	00	1
6.	Assistant Store Keeper	00	02	00	00	2
7.	Draughtsman	01	00	00	00	1
8.	Foreman	08	00	00	00	8
9.	Console Operator	02	00	00	00	2
10.	Sr. Mechanic	00	00	22	03	25

Administrative Block		Non-Technical		Technical		Total
		Permanent/ Deputation	Contract	Permanent/ Deputation	Contract	
11.	Sr. Mechanic GP-I	00	00	00	09	9
12.	Sr. Mechanic GP-II	00	00	00	05	5
13.	Sr. Mechanic GP-III	00	00	00	03	3
14.	Sr. Mechanic GP-V	00	00	00	04	4
15.	Sr. Mechanic GP-VI	00	00	00	01	1
16.	Jr. Mechanic	00	00	15	08	23
17.	Counter Assistant	00	00	03	02	5
18.	Lab Attend.	00	00	00	00	0
19.	Library Attend.	01	00	00	00	1
20.	Assistant Librarian	00	01	00	00	1
21.	PS to VC	00	01	00	00	1
22.	Senior Office Assistant	00	02	00	00	2
23.	Junior Office Assistant	00	36	00	00	36
24.	Office Assistant	00	04	00	00	4
25.	Assistant Programmer	00	03	00	00	3
26.	Network Assistant	00	02	00	00	2
27.	Technical Assistant	00	00	00	05	5
28.	Junior Technical Assistant	00	00	00	21	21
29.	SO to VC	00	01	00	00	1
30.	Contractor	00	01	00	00	1
31.	Documentalist	00	01	00	00	1
32.	Gest. Operator <sup>3</sup>	01	00	00	00	1
33.	Stenographer	00	01	00	00	1
34.	Stenographer Grade - II (On Deput.)	01	00	00	00	1
35.	Multi Tasking Staff	03	00	00	00	3
36.	Messenger	01	00	00	00	1
37.	Daftri	01	00	00	00	1
38.	Chowkidar	04	00	00	00	4
39.	Farash	02	00	00	00	2
40.	Peon	05	00	00	00	5
41.	Mali	01	00	00	00	1
42.	Driver	00	03	00	00	3
43.	Safai Karamchari	12	00	00	00	12
44.	Consultants	00	23	00	00	23
	<b>Total</b>	<b>50</b>	<b>82</b>	<b>40</b>	<b>61</b>	<b>233</b>

### 3. Academic Programmes

#### 3.1 Undergraduate Courses

S. No.	Department	B. Tech. Programme	Duration	Sanctioned. Intake	Total No. Enrolled
1.	Applied Chemistry	Polymer Science & Chemical Technology	4 Years	62	59
2.	Applied Mathematics	Mathematics and Computing	4 Years	122	121
3.	Applied Physics	Engineering Physics	4 Years	95	89
4.	Bio-technology	Bio-technology	4 Years	62	56
5.	Computer Science and Engineering	Computer Engineering	4 Years	362	362
		Software Engineering	4 Years	122	121
6.	Civil Engineering	Civil Engineering	4 Years	122	121
		Civil Engineering (Evening)	4 Years	60	53
7.	Information Technology	Information Technology	4 Years	122	121
8.	Electronics & Communication Engineering	Electronics & Communication Engineering	4 Years	185	184
		Electronics & Communication Engineering(Evening)	4 Years	60	47
9.	Electrical Engineering	Electrical Engineering	4 Years	242	241
		Electrical Engineering(Evening)	4 Years	60	54
10.	Environment Engineering	Environmental Engineering	4 Years	62	58
11.	Mechanical Engineering	Mechanical Engineering	4 Years	242	241
		Production & Industrial Engineering	4 Years	62	61
		Automotive Engineering	4 Years	62	61
		Mechanical Engineering(Evening)	4 Years	60	55
	<b>Total</b>			<b>2037</b>	<b>2106</b>
	Total NRI candidate				92
	Total PMSSS candidates				10
	<b>Grand Total</b>				<b>2208</b>

### 3.2 Other Under Graduate Courses

S. No.	Department	Programme	Duration	Sanctioned. Intake	Total No. Enrolled
1.	University School of Management & Entrepreneurship (USME)	BBA	3 years	120	114
		BA-Economics (Hons.)	3 years	120	95
<b>Total</b>					<b>209</b>

### 3.3 Post Graduate Courses

S. No.	Department	M. Tech. Programme	Duration	Sanctioned annual intake	Total No. Enrolled
1.	Applied Chemistry	Polymer Technology	2 years	25	16
2.	Applied Physics	Nano Science & Technology	2 years	21	03
3.	Biotechnology	Bioinformatics	2 years	25	08
		Bio Medical Engineering	2 years	23	04
		Industrial Biotechnology	2 years	24	05
4.	Computer Science and Engineering	Computer Science & Engg.	2 years	25	21
		Software Engg.	2 years	25	21
5.	Civil Engineering	Geotechnical Engineering	2 years	25	20
		Hydraulic & Water Resources Engineering	2 years	24	16
		Structural Engineering	2 years	25	23
6.	Electronics & Communication Engineering	Signal Processing & Digital Design	2 years	25	20
		Microwave & Optical Communication Engineering*	2 years	25	12
		VLSI Design and Embedded System	2 years	25	20
7.	Electrical Engineering	Control & Instrumentation	2 years	25	21
		Power System	2 years	25	21
8.	Environment Engineering	Environmental Engineering	2 years	25	19
9.	Information Technology	Information System	2 years	25	19

S. No.	Department	M. Tech. Programme	Duration	Sanctioned annual intake	Total No. Enrolled
10.	Mechanical Engineering	Thermal Engineering	2 years	25	21
		Production Engg.	2 years	25	20
		Computational Design	2 years	23	06
<b>Total</b>				<b>490</b>	<b>309</b>
11.	Delhi School of Management	MBA	2years	120	105
		EMBA	2years	60	50
12.	USME	MBA	2 years	60	60
<b>Total</b>				<b>240</b>	<b>215</b>
<b>Grand Total</b>				<b>730</b>	<b>524</b>

\* Jointly run by Applied Physics Department

### 3.4 Ph.D. Programmes

S. No.	Department	Admissions
1.	Applied Chemistry	11
2.	Applied Mathematics	11
3.	Applied Physics	14
4.	Bio-Technology	08
5.	Civil Engineering	27
6.	Computer Science and Engineering	11
7.	Delhi School of Management	09
8.	Electrical Engineering	17
9.	Electronics & Communication Engineering	11
10.	Environmental Engineering	01
11.	Humanities	06
12.	Information Technology	09
13.	Mechanical Engineering	54
<b>Total</b>		<b>189</b>

## 4.0 Academic Departments

### 4.1 Department of Applied Chemistry

**Academic Staff: 15; Students Admitted: UG - 61, PG - 06, Ph.D -12  
Publications: Journals – 62, Book chapters- 08, Conferences-15, Patent -02**

#### 4.1.1 Salient Features

Department of Applied Chemistry was also established as a subsidiary department to cater to the needs of engineering students in 1941 as part of Delhi Polytechnic. It continued as a helping department at old St. Stephens College at Kashmere Gate till 1986 when a new postgraduate course of M.E. Polymer Technology was started in the department after the due approvals of then AICTE and University of Delhi. In 1997, the department of Applied Chemistry was shifted to the new campus of Delhi College of Engineering. In 1998, the department had started a new four year course of B.E. Polymer Science and Chemical Technology. The Department has well established laboratories in Applied Chemistry, Polymer Science and Chemical Technology along with several research laboratories and one CAD lab. The department is actively involved in research in the areas of Chemistry, Polymer Science and Chemical Technology. The department has collaborations with reputed national and international industries, institutes and universities.

#### 4.1.2 Academic Programme

S. No.	Name of academic Program	Intake	Duration
1.	B.Tech. in Polymer Science & Chemical Technology	62	4 years
2.	M.Tech. in Polymer Technology	25	2 years
3.	Ph.D Degree program (Both Full time and Part time)	APR	3 years minimum

#### 4.1.3 Academic Staff

##### Professors: 05

Name	Qualifications
Dr. Archana Rani, Head of the Department	Ph.D Organic Chemistry
Dr. D. Kumar	Ph.D Polymer Science & Technology
Dr. Sudhir Gopalrao Warker	M.Sc. Inorganic Chemistry & Co-ordination Polymers
Dr. R.C. Sharma (Contractual)	Ph.D Electro Solution Chemistry, Molten Electrolytes
Dr. Rajinder K. Gupta (Contractual)	Ph.D (Organic chemistry, DU) & Ph.D (Microbiology, UI, US)

**Assistant Professors: 10**

Name	Qualifications
Dr. Ram Singh	Ph.D Medicinal Chemistry, Neurochemistry, Natural Products and Total Synthesis
Dr. Anil Kumar	Ph.D Bioinorganic Chemistry, Solar Cell, Cell Imaging molecules, Electronic structure calculation using G03 suite program
Dr. Roli Purwar	Ph.D, Biopolymers, Polymeric membranes, wound dressing materials, protective textile materials, Natural Materials and their Application on textiles, Effluent Treatment
Dr. Richa Srivastava	Ph.D Organic Synthesis, Supramolecular Chemistry, Biomimetic Reactions
Dr. Saurabh Mehta	Ph.D Organic synthesis (conventional and combinatorial), Bioorganic and Medicinal chemistry, <i>etc.</i>
Dr. Deenan Santhiya	Ph.D Nano-Biotechnology, Biosynthesis of nanopatterned materials, Environmental Biotechnology, Surface chemistry
Dr. Raminder Kaur	Ph.D Reaction Engineering, Polymer Composites, Bio-based Polymers
Dr. Poonam	Ph.D Materials Chemistry
Dr. Manish Jain	Ph.D Chemical Engineering, Membrane Based Separation Processes, Forward Osmosis, Pressure Retarded Osmosis, Pervaporation, Transport Phenomena,
Dr. C M Pandey, DST-Inspire Faculty	PhD, Specialization: Biosensors, Nanomaterial Synthesis, Microfluidics

**4.1.4 Honors and Awards to Faculty Members:**

- Commendable Research Awards (DTU):
  - Dr. Anil Kumar
  - Dr. Roli Purwar
  - Dr. Deenan Santhiya
  - Dr. Raminder Kaur

**4.1.5 Visit of Faculty Members to Other Institutions:**

- **Dr. Ram Singh**
  - Meerut College, Meerut on 28<sup>th</sup> January 2018
  - Global University, Bikaner on 13<sup>th</sup> October 2017
  - Aditi Mahavidyalaya, University of Delhi on 11<sup>th</sup> October 2017.
- **Dr. Roli Purwar**
  - IIT Delhi, 23-25 March 2017 at Delhi.
  - SVVITT, Indore, 9-10 March 2018 at Indore.
- **Dr. Manish Jain**
  - Guru Nanak Dev Polytechnic, New Delhi in November 2017 and May 2018.



#### 4.1.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Faculty Name	Details of Conference/Seminar/Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Prof. Archana Rani	International conference and workshop on drug design	JNU, New Delhi	07-09 April, 2017
		International Conf.- IUPAC International Conference on Chemistry Education	University of Sydney, Australia	8-15 July, 2018
2.	Prof. Sudhir G Warkar	Presented a paper entitled "Benzyporphodimetheni Polyacrylamide/ CarboxymethylGuargum Hydrogel: Metal Ion Sensor" in International Conference at Munich, Germany	Munich, Germany	30 June to 7 July, 2018
3.	Dr. Anil Kumar	Presented Paper entitled - A2B, Corroles: Photophysical properties and sensing ability, in International Conference at Munich, Germany	Munich, Germany	30 June to 8 July, 2018
4.	Dr. Saurabh Mehta	Poster entitled "Synthesis of Isoindolin-1- ones through BuLi-mediated Iodocyclization of 2-(1-alkynyl) benzamides" at the International Conference on Emerging Trends in Drug Development and Natural Products (ETDDNP-2018).	University of Delhi, Delhi	12-14 Jan., 2018
		Poster entitled "Role of Analytical Techniques in Developing New Methodology for the Synthesis of Isoindolinones" at the International Conference on Advances in Analytical Sciences (ICAAS-2018) Organized by Indian Society of Analytical Scientists (ISAS)-Delhi Chapter & CSIR-Indian Institute of Petroleum Dehradun, Uttaranchal, India.	CSIR-Indian Institute of Petroleum Dehradun	15-17, March 2018
		National Meeting. - American Chemical Society National Meeting Iodocyclization of 2-(1-Alkynyl) benzamides: synthesis of Cyclic Imidates and Isoindalinones	Boston MA, USA	19 -23 Aug. 2018
		International conference and workshop on Drug Design	JNU, New Delhi	7-9 April, 2017
5.	Dr. Roli Purwar	Oral presentation	SVVITT, Indore	March, 2018
		Conf.- Delivered lecture in National Conf. TEXON-2018	SVVV campus, Indore, MP	9-10 March 2018

S. No.	Faculty Name	Details of Conference/Seminar/Symposia / Workshop/Guest Lecture	Venue	Dates
6.	Dr. Ram Singh	10 <sup>th</sup> National conference on Solid State Chemistry and Allied areas	DTU	1-3 July 2017
7.	Dr. Deenan Santhiya	International Conf.- on Nanobiotechnology Paper Title- Effects of transition metal on dopants ion the structural, mechanical and antibacterial properties of Nan bioactive glass	Jamia Millia Islamia, Delhi	05 -06 Feb. 2018
		International Conf.- ICEBN-2018 Paper Title- In situ mineralization of calcium carbonate in pectin based edible hydrogel for protein delivery	JNU, Delhi	14 Sept. 2018
8.	Dr. Raminder Kaur	International Conf.- Emerging Trends in Science & Technology Paper Title- Synthesis of Polyurethane based electrically conducting adhesive	GIET, Sonipat, Haryana	13 April 2018
		Global Congress on Biotechnology, Networking, Energy and Environment	DCRUST	25 April 2018
9.	Dr. Poonam	International conference on Environmental and Biomedical Nanotechnology ICEBN-2018	School of Environmental Sciences, JNU & Indian Nano Biologist Association (INBA)	14-15 Sept. 2018

#### 4.1.7 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Dr. Archana Rani	Residential Training Programme on "Good Governance & Transparency through RTI	Goa	13-17, Nov-2017
		Polymer Analysis and Applications: Current Scenario	DTU	4-8, June 2018
2.	Dr. Ram Singh	Advance Manufacturing and Operations Management	Mechanical Engineering Department at DTU	3-14, July 2017
3.	Dr. Saurabh Mehta	TEQIP-III sponsored one-week Faculty Development Programme on Recent developments in translational medicine (rdtm-2018).	DTU	12-16, March 2018
4.	Dr. Manish Jain	Short Term Course on Recent Advances in Alternative Energy Sources	Department of Mechanical Energy, DTU	29, January 2018

S. No.	Name of Faculty	Name of Courses	Place	Dates
		Advances in Surface Engineering	Department of Mechanical Engineering, DTU	01-05, May 2018
		Teaching Pedagogy	Academic section (UG), DTU	07, April 2018
		Patent Filing Procedure	RGNIIPM at DTU	28, May 2018
		Polymer Analysis and Applications: Current Scenario	Department of Applied Chemistry, DTU	04-08, June 2018
5.	Dr. Roli Purwar	Patent Filing Procedure	DTU	28, May 2018
		Polymer Analysis and Applications: Current Scenario	DTU	4-8, June 2018
6.	Dr. Raminder Kaur	Polymer Analysis and Applications: Current Scenario	DTU	4-8, June 2018
7.	Dr. Anil Kumar	Polymer Analysis and Applications: Current Scenario	DTU	4-8, June 2018
		Polymer Analysis and Applications: Current Scenario	DTU	4-8, June 2018
8.	Dr. Poonam	Workshop on “Recent Advances in Alternating Energy Sources”	Department of Mechanical Engineering, DTU	29 <sup>th</sup> January 2018
		Faculty Development Programme on Advances in Surface Engineering	Department of Mechanical Engineering, DTU	1-5 May 2018

#### 4.1.8 Conference/Seminar/Symposia/Workshops Organized by the Department

- i. Faculty Development Programme on Polymer Analysis and Applications: Current Scenario, 4-8, June 2018)

#### 4.1.9 Continuing Sponsored Research Projects

- i. Development of Environment Friendly Rigid Polyurethane Foam for Multipurpose Use” (December 2015 – Ongoing), funded by Directorate of ER & IPR, Defense Research & Development Organization (DRDO), Ministry of Defense, India, PI: Dr. Raminder Kaur.
- ii. Graphene Based Lab-On-Chip Platforms for Cancer Biomarkers Detection” (February 2016 – Ongoing), funded by Department of Science and Technology (DST), India, PI: Dr. Chandra Mouli Pandey.

#### 4.1.10 Important Professional Affiliations

- Prof. Archana Rani
  - Member, Editorial Board, Rasayan Journal of Chemistry

- Life member Indian society for Technical Education (ISTE)
- Life Member Indian Chemical Society (ICS)
- Annual Membership American Chemical Society (ACS)
- **Prof. S G Warkar**
  - Life member Indian society for Technical Education (ISTE)
- **Dr. Ram Singh**
  - International Science Congress Association, India – Fellow Member (ISCA-FM-99)
  - International Society for Neurochemistry - Full Member, Account Number (14075)
  - New York Academic of Sciences – Professional Member (08/01/2016 - 07/31/2017)
  - The Indian Science Congress Association, Kolkata, India – Life Member (L12816)
  - Indian Academy of Neurosciences - Life Member (LS-182)
  - International Brain Research Organization – Life Member
  - Indian Society of Analytical Scientists – Life Member (LMT2008/18)
  - Association of Chemistry Teachers – Life Member (LM-947)
  - World Association of Young Scientist – Member
  - Scientists Without Borders – Member
  - Vijnana Bharati - Life Member (ID: 1495) (2017)
  - Brilliant Uniflow of Talents and Intelligence (BUTAI): Honorary President
- **Dr. Richa Srivastava**
  - The Indian Science Congress Association, Kolkata, India – Life Member
  - Indian Society of Analytical Scientists – Life Member
  - Research Journal of Biotechnology – Life Member
- **Dr. Saurabh Mehta**
  - Indian Society of Analytical Scientists – Life Member
- **Dr. Roli Purwar**
  - Textile Engineers Society
  - Indian Plastic Institute
  - Elastomer Technology Development Society
  - Indian Rubber Institute
- **Dr. Reminder Kaur**
  - IEChE – Life member
  - The Society for Polymer Science – Life Member
  - APA – Life member

## 4.2 Department of Applied Mathematics

**Academic Staff: 16; Students Admitted: UG - 127, Ph.D -12;  
Publications: Journals – 37; Conferences-09**

### 4.2.1 Salient Features

Mathematics is the base of all engineering as well as technological branches. A sound knowledge of mathematical tools makes a technocrat to excel in his profession. In fact, the “Industrial Mathematics”, a branch of Applied Mathematics, which is relevant for contemporary technological problems, is not only the queen of all sciences but is also the mother of all technologies. The Department of Applied Mathematics offer courses to undergraduate and postgraduate students of various engineering disciplines. The syllabi have been designed in the areas of Applied Mathematics, Computational Techniques and Statistics to impart sound knowledge of various mathematical tools and their applications in the engineering disciplines. Research Activities & Full Time Ph.D Programs The department has the necessary expertise available in the following research areas of current interest: Information theory of its Applications, Graph theory, Numerical Simulation, Relativistic Cosmological Models, Complex Analysis, Algebra and Approximation Theory. A few full time Ph.D scholarships are available in the above fields.

### 4.2.2 Academic Programme

S. No.	Name of academic Program	Intake	Duration
1	B. Tech in Mathematis and Computing	122	4 years
2	Ph.D Degree Program	APR	3 years minimum

### 4.2.3 Academic Staff

#### Professors: 08

Name of the faculty	Qualification
Dr. Sangita Kansal, Head of the Department	Ph.D, Category Theory and Petri nets
Dr. H.C. Taneja	M.Sc, M. Phil, Ph.D, Information Theory
Dr. Anjana Gupta	M.Sc, M. Phil, Ph.D, Optimization Techniques
Dr. L.N. Das	M.Sc, Ph.D Operations Research
Dr. Ramesh Srivastava	M.SC, Ph.D, Numerical Simulation
Dr. Naokant Deo	M.Sc, Ph.D, Approximation Theory
Dr. S. Sivaprasad Kumar	M.Sc, M. Phil, Ph.D, Complex Analysis
Dr. V. P. Kaushik (Contractual)	M.Sc., M.Phil., Ph.D, Theoretical Seismology, Fluid Mechanics

**Associate Professors: 02**

Name of the faculty	Qualification
Dr. Chandra Prakash Singh	M.Sc, Ph.D General Relativity and Cosmology
Dr. Aditya Kaushik	M.Sc., Ph.D, Numerical Analysis and Differential Equations

**Assistant Professors: 06**

Name of the faculty	Qualification
Dr. Vivek Kumar Aggarwal	M.Sc., Ph.D, Numerical Analysis
Dr. Nilam	Ph.D Mathematical Modelling
Dr. Dinesh Udar	M.Sc., PhD
Mr. Rohit Kumar	M.Sc.
Goonjan Jain	B. E, M. Tech, PhD (Pursuing)
Dr. Satyavrata Adhikari	M.Sc., Ph.D Quantum Information Theory

**4.2.4 Visit of Faculty Members to Other Institutions**

S. No.	Name of Faculty	Name of Institute/Organization Visited	Purpose of Visit	Dates
1.	Prof. Sangita Kansal	St. Stephen's college, University of Delhi, Delhi	Delivered a lecture on "Petri Nets: A graphical tool for modeling"	12 Oct., 2017
		JNU, New Delhi	Delivered a talk on "Boolean Petri Nets" in a National Seminar on Applications of Graph & Network in Computational Studies, Bioinformatics, Engineering and its Technical Terminology organized by Commission for Scientific and Technical Terminology, JNU, New Delhi.	12 March, 2018
2.	Prof. H.C. Taneja	Kitakyushu International Conference Center, Kitakyushu, Japan	Invited tutorial and paper presentation	27-28 March, 2018
3.	Prof. S. Sivaprasad Kumar	Delhi University	Expert to assess research proposals for research grants.	11 Oct., 2017

S. No.	Name of Faculty	Name of Institute/Organization Visited	Purpose of Visit	Dates
		Delhi University	Examiner for MPhil. Viva voce Exam	06 April, 2018
		Shyama Prasad Mukherji College for Women, Delhi	As a committee member to give report on retired employees of SPM College related matter	15 April, 2018
4.	Prof. L. N. Das	School of Computational and Integrative Sciences Jawaharlal Nehru university, New Delhi 110067	Presented a Talk on Constrained physical networks A beginner's study at Three days National Seminar on Application of Graph & Network in Computational Studies, Bioinformatics Engineering and its technical terminology	12-14 March, 2018
5.	Dr. C.P. Singh	Deptt. of Physics, IIT, Guwahati	Presented paper entitled "Holographic dark energy models with future event horizon in Bran-Dicke theory" in 29 <sup>th</sup> IAGRG Meeting	18-20 May, 2017
		National Conference on Differential Geometry and General Relativity, Sardar Patel University, Vidyanagar, Gujrat.	Delivered an invited talk on "Exploring the possibility of bulk viscosity as a candidate of dark energy"	28-29 Nov. 2017
6.	Dr. Vivek Kumar Aggarwal	Friedrich-Alexander-Universität Erlangen-Nürnberg	Delivered a talk on "A novel adaptive approach for solving singularly perturbed problems"	20 July, 2017
7.	Dr. S. Adhikari	IIT Kharagpur	Academic Collaboration	02-08 June, 2017
8.	Dr. Nilam	Wolfram Research USA and Scube Scientific Software Solutions, New Delhi	Invited talk in two day Wolfram Technology Conference	01-02 May, 2017

#### 4.2.5 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of Faculty	Details of Conference/Seminar/Symposia/ Workshops/Guest Lecture	Venue	Dates
1.	Prof. S. Sivaprasad Kumar	Participated in the 2 <sup>nd</sup> International Conference on Advanced Production and Industrial Engineering	DTU, Delhi	6 Oct., 2017
2.	Dr. Anjana Gupta	Attended and presented paper entitled "Optimization based consensus model to solve multi-criteria large group decision-making problems" at International Symposium on Operations Research and Game Theory: Modelling and Computation.	ISI, Delhi	9-11 Jan., 2018
3.	Dr. C.P. Singh	Participated TEQIP-III sponsored International seminar on Sustainable Technologies for Environmental management" organized by Department of Environmental Engineering	DTU, Delhi	27-28 March, 2018.
		Attended Indo-South Africa workshop on Gravitation and Cosmology organized by Centre for Theoretical Physics, JMI	Centre for Theoretical Physics, JMI	3-4 March, 2018.
		Attended and presented a research paper in 29th Meeting of Indian Association for General Relativity and Gravitation on The Era: Gravitational Wave at Department of Physics, IIT Guwahati. Title of paper:Holographic dark energy model with future event horizon in Brans-Dicke theory.	IIT Guwahati	18-20 May, 2017.
4.	Dr. Vivek Kumar Aggarwal	VII PDE, optimal design and numerics Conference, Centro de ciencias de Benasque, Spain	Centro de ciencias de Benasque, Spain	20 Aug. 1 Sep. 2017
		ICCS 2017, ETH Zurich	ETH Zurich, Switzerland	12-14 June, 2017.



S. No.	Name of Faculty	Details of Conference/Seminar/Symposia/Workshops/Guest Lecture	Venue	Dates
5.	Dr. Laxminarayan Das	Short term Course, organized by Department of Aerospace Engineering, Indian Institute of Technology, Bombay	IIT Bombay	18-23 June, 2017
6.	Mr. Rohit Kumar	Attended the workshop “E-Resources: A gateway for research, 2017” organized by the central library DTU	DTU, Delhi	4-8 Sept., 2017
		IWM 2017 Conference	IISc. Bangluru	13-17 July, 2017
7.	Ms. Goonjan Jain	International Workshop on Fuzzy Logic Research Applications	IGDTUW Delhi	16 Sept., 2017
		Workshop on Research Trends in Natural Language and Speech Processing	AICTR, Delhi	11-12 Dec, 2017
8.	Dr. S. Adhikari	International Symposium on New Frontiers in Quantum Correlations (ISNFQC18)	S. N. Bose National Centre for Basic Sciences, Kolkata, India	29 Jan. 02 Feb., 2018
		SSC Meeting / Workshop of Quantum Information Science and Technology (QuST)	IISER, Bhopal	21 – 23 April, 2018

#### 4.2.6 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Course	Place	Dates
1.	Dr. D. Udar	Faculty Development program by Mechanical Department, DTU	DTU, Delhi	03-14 July, 2017
		Two Week FDP on "Advanced Manufacturing and Operations Management (AMOM-2017)", organized by CAPIER, DTU	DTU, Delhi	03-14 July, 2017
		One Week FDP on “Mobile App Development” organized by ICT Academy	DTU, Delhi	18-22 Sept., 2017
		TEQIP-III sponsored one-week FDP on “Emerging trends in	DTU, Delhi	12-16 March, 2018

S. No.	Name of Faculty	Name of Course	Place	Dates
		internet of things (IOT) and cyber security in smart grid (EICS-2018)”		
		TEQIP-III sponsored one-week STTP on “Health, Human values, Ethics and Empowerment”	DTU, Delhi	13-18 April, 2018
2.	Prof. Sangita Kansal	Participated in a training program on “Good Governance & Transparency through RTI” organized by National Productivity Council	Goa	13-17 Nov, 2017
3.	Prof. H.C. Taneja	Residential Training Program on Role of ICT in driving Government Performance.	Kanyakumari	12-16 March, 2018
4.	Dr. S. S. P. Kumar	Two Week FDP on "Advanced Manufacturing and Operations Management (AMOM-2017)", organized by CAPIER, DTU	DTU, Delhi	03-14 July, 2017
5.	Dr. R. Srivastava	Two Week FDP on "Advanced Manufacturing and Operations Management (AMOM-2017)", organized by CAPIER, DTU	DTU, Delhi	03-14 July, 2017
6.	Dr. Nilam	Participated in two week TEQIP - III sponsored Faculty Development Program on "Advanced Manufacturing and Operations Management (AMOM 2017)"	DTU, Delhi	3-14 July, 2017
7.	Dr. Laxminarayan Das	Presented Paper Title: Electric energy transmission constraint and congestion fulfilling material in ISCAS-2017	DTU	1-3 July, 2017
		AICTE sponsored one-week QIP Short Term course on Introduction to Space Flight Mechanics.	IIT Bombay	19-23 June, 2017
		AICTE-QIP short term course on "Numerical Techniques for Chemical Process Simulation", organized by the department of Chemical Engineering, IIT Kharagpur.	IIT Kharagpur	20-26 Nov., 2017
8.	Dr. S. Sivaprasad kumar	Two Week FDP on "Advanced Manufacturing and Operations Management (AMOM-2017)", organized by CAPIER, DTU	DTU, Delhi	03-14 July, 2017
9.	Dr. Anjana Gupta	Two Week FDP on "Advanced Manufacturing and Operations	DTU, Delhi	03-14 July, 2017

S. No.	Name of Faculty	Name of Course	Place	Dates
		Management (AMOM-2017)", organized by CAPIER, DTU		
10.	Mr. Rohit Kumar	One Week FDP on "Mobile App Development" organized by ICT Academy	DTU, Delhi	18-22 Sept., 2017
		One Week FDP on "Biostatistics: Theoretical and Practical aspects" organized by Department of Mathematics & Department of Botany, DU	DDU, Delhi University	14-18 March, 2018
11.	Dr. C. P. Singh	Attended TEQIP-III sponsored one-week FDP on "Advances in Surface Engineering"	DTU, Delhi	01-05 May, 2018
		Attended a national workshop on "Recent Advances in Alternative Energy Sources"	DTU, Delhi	29 January, 2018
		Attended TEQIP-III sponsored one-week FDP on "Recent Developments in Translational Medicine"	DTU, Delhi	12-16 March, 2018
		TEQIP-III sponsored one-week FDP on "Emerging trends in internet of things (IOT) and cyber security in smart grid (EICS-2018)"	DTU, Delhi	12-16 March, 2018
		TEQIP-III sponsored one-week STTP on "Health, Human values, Ethics and Empowerment"	DTU, Delhi	13-18 April, 2018

#### 4.2.7 Important Professional Affiliations:

- **Prof. Sangita Kansal**
  - Life member of "Ramanujan Mathematical Society".
  - Life member of "Academy of Discrete Mathematics & Applications".
- **Prof. H. C. Taneja**
  - Member American Mathematical Society.
  - Life member of the Indian Society for Information Theory and its applications.
  - Life member of Indian Society of Technical Education.
  - Member International Association of Engineers (IAENG).
  - Member Society for Industrial and Applied Mathematics (SIAM)
  - Life member of Forum for Interdisciplinary Mathematics.

- **Prof. S. Sivaprasad Kumar**
  - Life Member of Research Group in Mathematical Inequalities and Applications (RGMIA).
  - Life Member of Indian Mathematical Society.
  - Life Member of Society for special functions and its applications.
  
- **Prof. R. Srivastava**
  - Life member of ISMAS
  - Member of SIAM
  
- **Prof. Naokant Deo**
  - Member of American Mathematical Society (AMS), USA.
  - Member of Research Group in Mathematical Inequalities and Applications (RGMIA), Melbourne, AUSTRALIA.
  - Senior member of World Academy of Young Scientists (WAYS), Budapest, HUNGARY.
  - Life member of Indian Mathematical Society (IMS), INDIA.
  
- **Prof. Anjana Gupta**
  - Completed Chartered Management Institute (CMI) Level 5 certificate in Management and Leadership (UKIERI India and AICTE collaboration).
  
- **Dr. C.P. Singh**
  - Life member of Indian Association for General Relativity and Gravitation, IUCAA, Pune.
  - Life member of Astronomical Society of India.
  - Life member of Mathematical Society of India.
  
- **Dr. Vivek Kumar**
  - Member of Society of Applied Mathematics (SIAM).
  - Member of The Indian Society of Industrial and Applied Mathematics (ISIAM).
  
- **Dr. Nilam**
  - Life Member of Indian Science Congress.
  - Member of Society of Applied Mathematics (SIAM).

### 4.3 Department of Applied Physics

**Academic Staff: 21; Students Admitted: UG- 76, PG- 13, Ph.D 16; Publications: Journal Papers- 143, Conference/ Symp. 66; Ongoing Projects: 17; Patent 01**

#### 4.3.1 Salient Features

Applied Physics Department was established to support academic program offered by all engineering departments of Delhi Technological University. Applied Physics Department is a major department of Delhi Technological University providing cutting edge research, innovation and education in the emerging areas of science and technology. The department offers B.Tech. Engineering Physics, M.Tech. Microwave and Optical Communication Engineering (Jointly with Electronics & Communication Engineering Department) and M.Tech. Nanoscience and Technology. Applied Physics Department is known for its academic excellence and quality research & development leading to number of high rated research publications in leading journals.

#### 4.3.2 Academic Programmes

S. No.	Name of academic Program	Intake	Duration
1.	B.Tech in Engineering Physics	95	4 years
2.	M.Tech in Nanoscience and Technology	21	2 years
3.	Ph.D Degree Program	APR	3 years minimum

#### 4.3.3 Academic Staff:

##### Professors: 04

Name of the faculty	Qualification
Dr. Suresh Chand Sharma, Head of the Department	M.Sc, M.Phil, Ph.D, Plasma Physics/Plasma Applications, Nanotechnology, High Power Microwave Devices, Dusty Plasma/Strongly Coupled Dusty Plasma, THz Radiation Emission /Short Pulse lasers
Dr. Ravindra Kumar Sinha (On Lien)	M.Sc, Ph.D, Fibre optics, optical communication, nanophotonics: devices & components based on photonic crystals & meta-materials
Dr. Rinku Sharma	M.Sc, Ph.D
Dr. Allam Srinivasa Rao	Ph.D, Solid state spectroscopy and atmospheric sciences

**Associate Professors: 01**

Name of the faculty	Qualification
Mr. Vinod Singh	M.Sc, Synthesis and characterization of functional nanomaterials and explore their size dependent properties and applications

**Assistant Professors: 16**

Name of the faculty	Qualification
Dr. Rishu Chaujar	Ph.D, Semiconductor device modeling simulation, analysis of mosfets & hemts for RF & wireless applications
Dr. Nitin Kumar Puri	Ph.D, Nanostructured materials & thin films, high energy heavy ion beams induced structure modifications
Dr. Ajeet Kumar	Ph.D, Fiber optics, integrated optics, solar energy
Dr. Amrish Kumar Panwar	M.Sc, Ph.D Energy storage & conversion devices, surface modification, wetting, adhesion, coating, & bio-compatible materials, thermo-electric materials, multi-ferriocmaterials, nanotechnology
Dr. M. Jayasimhadri	Ph.D Optical/fluorescent spectroscopy, solid state physics, material science, nanotechnology
Dr. Yogita Kalra	Ph.D Fiber and integrated optics, nano photonics, photonic crystals and their device applications
Dr. Mohan Singh Mehata	Ph.D Fluorescent spectroscopy, quantum dots, organic leds, thin films
Dr. Pawan Kumar Tyagi	Ph.D Carbon nanotubes: field emitters, graphene synthesis, hpht diamonds, single crystal diamond synthesis
Dr. Bharti Singh	M.Sc, PhD Thin films and Nanostructures deposition techniques, Resistive Memory Devices, 2D layered materials, synthesis using CVD, Piezoelectricity
Mr. Deshraj Meena	M.Sc, PhD
Ms. Renuka Bokolia	M.Sc, Ph. D. Ferroelectric ceramics, Upconversion luminescence, Phosphors, Dielectric materials, Optical temperature sensors
Dr. Sarita Baghel	M.Sc, Ph.D Solar cells, solar energy materials
Mr. Yogendra Kumar Meena	M.Sc
Dr. Richa Sharma	M.Sc., Ph.D, Multiferroic Magnetolectric Composites, Thermoelectric Materials
Dr. Mukhtiyar Singh	M.Sc., Ph.D

Name of the faculty	Qualification
Dr. Bharat Bajaj	B. Tech, MS, Ph.D, Electrospinning, Carbon nonmaterial processing, Biosensors, Gas sensors, Piezoelectric devices, Photocatalysts, Polymeric membranes for water treatment

#### 4.3.4 Honors and Awards to Faculty Members

- **Prof. S C Sharma**
  - Received commendable research award for excellence in Research by Delhi Technological University, Delhi on March 21, 2018.
- **Dr. Rishu Chaujar**
  - Received premier research award for excellence in research, Delhi Technological University, 2018.
  - Received commendable research award for excellence in research, Delhi Technological University, 2018.
  - Fellow- Institution of Electronics & Telecommunication Engineers (IETE), India (2018).
- **Dr. Amrish Panwar**
  - Received Research Excellence Award in commendable research award with highest number of publication in this category for the year 2017.
- **Dr. Ajeet Kumar**
  - Received Outstanding Reviewer by Optik Journal (Elsevier)-2018.
  - External Expert of Defence Research Technical Cadre Assessment Board-2018.
  - External Expert Member of “Critical Design Review Committee” of LASTEC-DRDO project.
  - Member (academic expert) of Project Monitoring and Review Committee (PMRC) of LASTEC-DRDO.
  - Member, National Advisory Committee of International Conference on Advances in Science & Technology (ICAST-2018).
  - Member, Editorial Advisory Board of SKIT Research Journal (ISSN (Print) 2278-2508 ISSN (Online) 2454-9673).
- **Dr. M. Jaya Simhadri**
  - Received Commendable Research Award- Delhi Technological University.

## 4.3.5 Visit of Faculty Members to Other Institutions

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Prof. Suresh C. Sharma	KR Mangalam University	Delivered an invited talk on " Plasma Assisted Growth and Field Emission Properties of 2 D Graphene"	17-18 August, 2017
		Chengdu, China	Delivered invited talk in Applied Physics session titled " Controlled Growth and Field Emission Properties of Plasma Grown Graphene Sheet via Nitrogen Doping"	18-23 September, 2017
		Jaypee Institute of Information Technology, Sector-62, Noida, Uttar Pradesh	Gave brief presentation on the achievements of ongoing SERB-DST project before the PAC.	19 July, 2017
		NITTR Chandigarh	Conference	13-15 April, 2017
2.	Dr. Rishu Chaujar	MAIT, GGSIPU, Delhi	External Examiner	4-5 May, 2018
		BPIT, GGSIPU, Delhi	External Examiner	28 April, 2017
		MAIT, GGSIPU, Delhi	External Examiner	1 – 9 May, 2018
		BPIT, GGSIPU, Delhi	External Examiner	4 May, 2018
		NIEC, GGSIPU, Delhi	External Examiner	3 May, 2018
		Department of Electronic Science, University of Delhi, South Campus, Delhi	External Examiner	June, 2017
		NITTR Chandigarh	Conference	13-15 April, 2017
		MAIT, GGSIPU, Delhi	External Examiner	4-5 May, 2018



S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
3.	Dr. Amrish Panwar	JIIT, Noida	Invited Talk	16 March, 2018
4.	Dr. M Jayasimhadri	CSIR-NPL	Research collaboration	Often
5.	Dr. Mukhtiyar Singh	Technical University of Vienna, Vienna (Austria)	Attended workshop	18-22 Sep, 2017

#### 4.3.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Faculty name	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Prof. S. C. Sharma	International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN3I-2017)	IIT Roorkee, Uttarakhand	06-08 Dec, 2017
		Shodh Shiksha Sameeksha" organized by MHRD & UGC	IUCAA, Pune, India	1 Oct, 2017
		Attended 1st Asia Pacific Conference on Plasma Physics (AAPPS-DPP 2017)	Chengdu, China	18-23 Sept, 2017
		10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017) and Delivered a talk on "Role of Dust grains in beam driven instabilities"	DTU, Delhi	1- 3 July, 2017
2.	Dr. Ajeet Kumar	Invited lecture during "One week short term course on Advances in Photonics and Hybrid Nanomaterials" on "Design and Modelling of specially optical fibre for high power Laser"	Physics Department, NIT, Kurukshetra	24 March, 2018
3.	Dr Rishu Chaujar	International Symposium on Functional Materials	Chandigarh, India.	April, 2018
		Event Coordinator, Popular Lecture on "Low Pressure and Atmospheric Pressure Plasma Interactions with Molten Metals and Liquid Droplets for Materials Processing" by Prof. Mahendra K.Sunkara	DTU, Delhi	6 Feb, 2018.

1		Organizing Committee Member, 10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017)	DTU, Delhi	1-3 July, 2017
		Session Co-Chair, 10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017), held on July 1-3, 2017	DTU, Delhi	1-3 July, 2017
4.	Dr. M. Jayasimhadri	National Conference on Luminescence and its Applications (NCLA-2018) held at CSIR-National Institute for Interdisciplinary Science and Technology (NIIST)	Trivandrum, Kerala	14-16 February, 2018
		10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017)	DTU, Delhi	1-3 July, 2017
5.	Ms. Renuka	10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS 2017)	DTU, Delhi	03-07, July 2017
6.	Dr. Bharti Singh	International conference on Nanoscience and Nanotechnology (ICONSAT-2018)	IISC, Bangalore	21-23 March, 2018
		Organizing Committee Member, 10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017)	DTU, Delhi	1-3 July, 2017
		Session Co-Chair, 10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017), held on July 1-3, 2017	DTU, Delhi	1-3 July, 2017
7.	Dr. Mukhtiyar Singh	Workshop entitled “E-Resources: A Gateway for Research, 2017” organized by Central Library, DTU	DTU, Delhi	04-08 September, 2017
		24 <sup>th</sup> WIEN2k Workshop” organized by TU, Vienna	Austria	18-22 September, 2017
		One-day Workshop on “Raising Awareness on Plagiarism and Copyrights” organized by Department of Electronics & Communications Engineering	DTU, Delhi	20 March, 2018
		In-house Programme on “NAAC-SSR/NBA-SAR Filling & Preparedness for Assessment”	DTU, Delhi	21-23 May, 2018
8.	Dr. Pawan Kumar Tyagi	Convenor, 10 <sup>th</sup> National Conference on ‘Solid State Chemistry and Allied Areas (ISCAS-2017)	DTU, Delhi	1-3 July, 2017

## 4.3.7 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Dr. Rishu Chaujar	Attended One Week TEQIP-III Sponsored FDP on Emerging Trends in Internet of Things (IOT) and Cyber Security Applications in Smart Grid (EICS-2018)	DTU, Delhi	12-16 March, 2018
2.	Dr. M. Jayasimhadri	TEQIP-III sponsored One Week Short Term Training Programme on “Health, Human Values, Ethics and Empowerment	DTU, Delhi	13-18 April, 2018
		TEQIP-III sponsored FDP on “Advances in Image Processing and Computer Vision”	DTU, Delhi	2-6 April, 2018
		TEQIP-III sponsored One Week FDP on “Emerging trends in Internet of Things (IOT) and Cyber Security Applications in Smart Grid (EICS-2018)	DTU, Delhi	12-16 March, 2018
		Two Weeks FDP on “Advance Manufacturing and Operations Management (AMOM-2017)	DTU, Delhi	03-14 July, 2017
3.	Dr. Amrish K. Panwar	FDP on: Health, Human Values, Ethics and Empowerment	DTU, Delhi	12-16 April, 2018
		FDP on: Emerging Trends in Internet (IOT) and cyber Security Applications in Smart Grid (EICS-2018)	DTU, Delhi	12-16 March, 2018
		Workshop on E-Resources: A Gateway for Research, 2017	DTU, Delhi	4-9 Sep, 2017
		FDP on Advanced Manufacturing and Operations Management (AMOM-2017)	DTU, Delhi	1-7 July, 2017
4.	Dr. Mukhtiyar Singh	One Week Short Term Training Programme on “Health, Human Values, Ethics & Empowerment”	DTU, Delhi	13-18 April, 2018
		One Week FDP on “Advances in Surface Engineering”	DTU, Delhi	01-05 May, 2018
		FDP entitled “Game Changer”	DTU, Delhi	04-05 June, 2018
5.	Dr. Bharti Singh	FDP on Health, Human Values, Ethics and Empowerment	DTU, Delhi	12– 16, March 2018
		TEQIP-III sponsored one week FDP on Advances in Surface Engineering	DTU, Delhi	1 - 5 May, 2018

S. No.	Name of Faculty	Name of Courses	Place	Dates
6.	Dr. Bharat Bajaj	FDP on Health, Human Values, Ethics and Empowerment	DTU, Delhi	12-16, April 2018
		TEQIP-III sponsored one-week FDP on Advances in Surface Engineering	DTU, Delhi	1 -5 May, 2018
		FDP on Polymer Analysis and Applications: Current Scenario	DTU, Delhi	4 -8 June, 2018
7.	Mr. Deshraj Meena	FDP on Teaching Pedagogy	DTU, Delhi	7 April, 2018
		E-Resources: A Gateway for Research, 2nd edition (2017)	DTU, Delhi	4 -8, Sept, 2017
8.	Dr. Pawan K. Tyagi	TEQIP-II Sponsored FDP on "Precision Manufacturing: Technology for Better Tomorrow"	DTU	14 July, 2017

#### 4.3.8 Conference/Seminar/Symposia/Workshops Organized by the Department

S.No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	ISCAS 2017	10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas (ISCAS 2017)	B. R Ambedkar Auditorium, DTU	1-3 July, 2017

#### 4.3.9 Visitors to the Department

S. No.	Name	Affiliation	Purpose
1.	Dr. Rim Cherif	University of Carthage, Tunisia	Visit under bilateral DST sponsored TUN-IND project.
2.	Prof. Mourad Zghal	University of Carthage, Tunisia	Visit under bilateral DST sponsored TUN-IND project
3.	Prof. G.P. Zank	Director, Center for Space Plasma and Aeronomic Research (CSPAR), University of Alabama, Huntsville, USA	Delivered a popular lecture on "Faltering Steps into the Galaxy"

#### 4.3.10 Sponsored Research Projects

##### (i) Completed Sponsored Research Projects

S. No.	Principal Investigator	Title of Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees`)
1.	Dr. M. S. Mehata	External Electric field effect on the photoinduced charge transfer dynamics	DAE-BRNS	17.52 Lakhs

**(ii) Continuing Sponsored Research Projects**

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Prof. S. C. Sharma	Role of plasma in the growth and field emission properties of graphene	DST-SERB	18.17 Lakhs
2.	Dr. Rishu Chaujar	Characterization, Simulation and Equivalent Circuit Analysis of Silicon Nanowire Transistors For High Performance Applications in Wireless and RF Technology	DST	18.60 Lakhs
3.	Dr. M. Jayasimhadri	Development of Versatile Alkaline Earth Phosphate Micro and Nanophosphors for Energy Saving near UV-based White LEDs	SERB-DST, Govt. of	26.40 Lakhs
4.	Dr. M. S. Mehta	Ultrafast dynamics of excitons and charge carriers in the white-light-emitting quantum dots produced at low temperature	DST-RFBR	19.75 Lakhs
5.	Dr. M. S. Mehta	Photoinduced Charge Transfer Dynamics of Quantum Dots/Molecules under the Influence of External perturbation	SERB-DST	62.00 Lakhs
6.	Dr. Bharti Singh	Electrical Energy Harvesting using Monolayer MoS <sub>2</sub> and MoS <sub>2</sub> -Graphene Heterostructures for Self Powering Electronic and Bioelectronics Devices	DST-Inspire	35.00 Lakhs

**(iii) New Sponsored Research Projects**

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Prof. S. C. Sharma	Analytical and Numerical Simulation of Growth and Field Emission Properties of CNT-Graphene Composites	DST-SERB	23.94 Lakhs
2.	Dr. Pawan K. Tyagi	Study of the chemical structure and bonding in CuO nanowire by using EXAFS Synchrotron radiation	CSR-IC-BL	

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
3.	Dr. Mukhtiyar Singh	Investigation of Heusler alloys for thermoelectric applications	UGC	1.00 Lakhs
4.	Dr. Nitin Puri	Ultrathin 2D-Nanomaterials for Cancer Diagnostic Application	SERB-DST	49.68 Lakhs
5.	Dr. Bharti Singh	Tapping solar, wind and human energy; a hybrid photovoltaic/piezoelectric device based on 2D materials and their van der Waals heterostructures	UGS-Startup	1.00 Lakhs

#### (iv) Sponsored Consultancy Projects

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1	Prof. A.S. Rao	Studies on Novel Up-Conversion Luminescent Rare-Earth doped Nanophosphors for Bio-Photonic Applications.	DST-SERB	40.00 lakhs

#### 4.3.11 Important Professional Affiliations:

- **Prof. S. C. Sharma**

- Member & designated delegate of Asian African Association for plasma Training (AAAPT)- Jan. 14, 2018.
- Member of the Association of Asia Pacific Physical Societies-Division of Plasma Physics (AAPPS-DPP) (Member ID-2051)-April 25, 2018.
- Member of the American Physical Society (APS), USA [ APS Member ID No.-61244958].
- Member of the National Academy of Sciences (MNASc), India.
- Member of the Institute of Electrical and Electronics Engineers(IEEE), USA (IEEE Member 93626831).
- Member of the International Association of Engineers (IAENG), Hong Kong (Member Number: 161614).
- Life Member – Plasma Science Society of India (PSSI) (Life Membership Number: LM-708).
- Life Member- Indian Science Congress Association(ISCA) (Life Membership Number: L28117).
- Life Member- Indian Society for Technical Education(ISTE), New Delhi (Life Membership Number: LM 106978).

- **Dr. Rishu Chaujar**

- Life Member- Indian Society for Technical Education(ISTE), New Delhi (Life Membership Number: LM 106978).
- Life Member-Indian Society for Technical Education (ISTE), India.
- Life Member-Institution of Electronics & Telecommunication Engineers (IETE), India.
- Life Member- Indian Women Scientists' Association, India.
- Life Member- Indian Science Congress Association, India.
- Life Member- Semiconductor Society of India, India.
- Life Member-Materials Research Society of India.

## 4.4 Department of Biotechnology

**Academic Staff: 07; Students Admitted: UG- 56; PG- 17; Ph.D 08; Publications: Journal Papers- 84, Conference/ Symp. 40; Ongoing Projects: 01;**

### 4.4.1 Salient Features:

Department of Biotechnology under Delhi Technological University was founded in 2004 with a vision to make an impact through research and technology based training, is successfully conducting undergraduate and postgraduate programmes in various disciplines. The Department is running various programmes in Biotechnology, Bioinformatics, Biomedical Engineering and Industrial Biotechnology. Department of Biotechnology is also running research oriented Ph.D programme.

The faculty members of the department are excellent teachers and research scientists, and they have published papers in high impact factor. The department has undertaken sponsored projects funded by ICMR, CSIR, DST, UGC, etc. The department has 10 state-of-the-art laboratories, viz. Nanobioelectronics Laboratory, Stem Cell Biology Laboratory, Functional Genomics and Molecular Nanoscience Laboratory, Environmental Biotechnology Laboratory, Plant Molecular Biology Laboratory, Computational Biology Laboratory, Biochemistry Laboratory, Immuno-therapeutics Laboratory and Genome Informatics Laboratory. Dr. Yasha Hasija is the editor executive of International Journal of Advanced Biotechnology and Bioinformatics”, an open access peer reviewed journal seeks to rapidly publish research that has made a difference to the present scientific scenario. It endeavors to bring forth the best contributions which are being made by scientific community and the biotech industry at large. The department regularly organizes scientific lectures & symposia in which renowned scientists and academicians are invited. The department conducts annual technical festival KARYON in which the students and experts from industry participate in academic deliberations to enhance Industry- University interactions. Such useful interactions help the students for industrial trainings and job placements.

### 4.4.2 Academic Programme

S. No.	Name of academic Program	Intake	Duration
1.	B.Tech in Biotechnology	62	4 years
2.	M.Tech in Bioinformatics	25	2 years
3.	M.Tech in Biomedical Engineering	23	2 years
4.	M.Tech in Industrial Biotechnology	24	2 years
5.	Ph.D Degree Program	APR	3 years minimum



**4.4.3 Academic Staff:****Professors: 04**

Name of the faculty	Qualification
Dr. Devendra Kumar, Head of the Department	Ph.D, Polymer Science & Technology
Dr. B. D. Malhotra	Ph.D, Biosensors, Biomaterials, Bio-molecular Electronics, Conducting Polymers, Cancer Diagnostics, Ordered Molecular Assemblies, Nano-materials
Dr. Pravir Kumar	MS (BHU), Ph.D (Germany), PDF/Faculty (Boston, USA) Molecular Medicine, Neuroscience, Functional Genomics, Drug screening and discovery, Cardiovascular Physiology, Neurooncology
Dr. Jai Gopal Sharma	Ph.D Bioremediation, Water Quality Management, Larviculture, Radiation Biology

**Assistant Professors: 03**

Name of the faculty	Qualification
Dr. Asmita Das	Ph.D Immunodiagnostics and therapeutics
Dr. Navneeta Bhardwaj	Ph.D, Plant biotechnology
Dr. Yasha Hashija	Ph.D Biotechnology, Bioinformatics

**Assistant Professors (Contractual): 04**

- Dr Smita Rastogi Verma
- Dr Kriti Bhandari
- Dr Saurabh Saxena
- Dr Prakash Chandra

**4.4.4 Honors and Awards to Faculty Members:**

- **Prof Jaigopal Sharma**
  - Editorial Board member, Journal of Biotech Research & Biochemistry, USA.
  - Editorial Board member, SF Journal of Nanochemistry and Nanotechnology, USA.
  - Editorial Board member, International Journal of Experimental and Clinical Research, USA.
  - Editorial Board member, Journal of Drug Resistant Pathogen Research, USA.
  - Editorial Board member, BAOJ Aquaculture, USA.
  - Editorial Board member, Biosensors and Bioelectronics, Sweden/ UK.

- Editorial Board member, Annals of Biotechnology, USA.
- Editorial Board member, Advances in Industrial Biotechnology, USA.
- Editorial Board member, International Journal of Amino Acids, USA.
- Editorial Board member, Scientific Journal of Stem Cell Research, USA.
- Editorial Board member, Current Trends in Ergonomics, USA.
  
- **Prof B D Malhotra**
  - Fellow, Indian National Science Academy.
  - Fellow, National Academy of Sciences, India.
  - Academician, Asia Pacific Academy of Materials.
  - Member, Advisory Board, Biotechnology Journal (Wiley).
  
- **Prof Pravir Kumar**
  - Adjunct Faculty, Tufts University School of Medicine, Neurology Department, Boston, MA (USA).
  - Associate Editor, Journal of Alzheimer's disease (JAD).
  - Associate Editor, American Journal of Research Communication.
  - Associate Editor, Advances in Obesity, Weight Management & Control
  - Editor, International Journal of Neurology Research.
  - Editor, International Journal of Advanced Biotechnology and Bioinformatics.
  - Editor, Journal of Clinical Trials and Patenting.
  - Editor, International Journal of Hematology Research.
  - Academic Editor, International journal of Bioinformatics.
  - Member, National Selection committee USIEF-Fulbright program.
  - Faculty expert, e-PG Pathshala (an initiative of UGC and MHRD).
  
- **Dr Yasha Hasija**
  - Awarded Commendable Research Award-2018 for Excellence in Research during the year 2017 by DTU.
  - Awarded Certificate of Outstanding Contribution in Reviewing, 2017, Journal of Biomedical Informatics, Elsevier.
  - Editorial Board Member, Review of Bioinformatics and Biometrics (RBB).
  - Editorial Board Member, Austin Journal of Biotechnology & Bioengineering.
  - Academic Editor / Author Suggested Reviewer, International Journal of Biotechnology Applications.

- **Dr Asmita Das**
  - Edited manuscripts as part of Fellows Editorial Board in National Cancer Institute, NIH, USA.
  - Editorial Board Member of Journal of Biosciences GSTF, Singapore.
  - Editorial Board Member of International Association of Innovation Research.
  - Course on Translational Research in Clinical Oncology conducted by National Cancer Institute (NIH), USA
- **Dr Navneeta Bharadvaja**
  - Member, International Association of plant biotechnology

#### 4.4.5 Visit of Faculty Members to other Institutions

S. No.	Name of faculty	Name of Institute /Organization visited	Purpose of visit	Dates
1.	Prof. B.D. Malhotra	NPL, Delhi	Discussions for collaborative work	March, 2018
2.	Prof. Jai gopal Sharma	The Centre for Professional Development in Higher Education (CPDHE, UGC-HRDC)	<p>Served as resource person and delivered invited lecture on “The Role of Yoga in Stress Management”</p> <p>Served as resource person and delivered invited lecture on “Stress Since Human Origin to 21st Century”</p> <p>Served as resource person and delivered invited lecture on “India’s Higher Education: Assessment and Evaluation”</p> <p>Served as resource person and delivered invited lecture on “Higher Education: Challenge and Opportunities”</p> <p>Served as resource person and delivered invited lecture on “Potential of India as a hub of Higher Education”</p> <p>Served as resource person and delivered invited lecture on “The Journey of Higher education in India from Patliputra to contemporary times”</p>	21 Nov-19 Dec , 2017

S. No.	Name of faculty	Name of Institute /Organization visited	Purpose of visit	Dates
			Served as resource person and delivered invited lecture on “Disaster Mitigation: A lesson from Gujrat earthquake”	13 June , 2017
3.	Prof. Pravir Kumar	AMU	World Neurocongress-2017, An international conference on Neurodegeneration and stem cell therapy	9-10 Dec, 2017
		IILM Greater Noida	Biogenesis V conducted by IILM-CET, Greater Noida, India on “Insights and innovations in biotechnology”	2-3 Aug 2017
		IIT Delhi	CCB group meeting	3 March, 2017
4.	Dr Asmita Das	CSMU, Kanpur	Invited lecture in Popular Lecture Series sponsored by DBT	21 July, 2018
5.	Dr. Yasha Hasija	IIT Hyderabad	Invited Speaker, DFG’s Pre-Lindau Alumni workshop on “Computing in Chemistry, Biology and Medicine”	24-25 Nov., 2017

#### 4.3.6 Participation of Faculty Members in Conference / Seminars / Symposia / Workshops / Guest Lecture.

S. No.	Name of faculty	Details of Conference/Seminars/Symposia /Workshops/Guest lecture	Venue	Dates
1.	Prof B. D. Malhotra	Attended 2017 MRS Fall Meeting (BM-06) Symposium on 2D Nanomaterials in Healthcare as Speaker	Boston, USA	26 Nov-1 Dec, 2017
		Attended the 6 <sup>th</sup> International Symposium on Integrated Functionalities (ISIF) as Session Chair	New Delhi	10-13 Dec, 2017
2.	Prof Jai gopal Sharma	Attended and presented paper in the symposium “18 <sup>th</sup> International Symposium on Fish Nutrition and Feeding (ISFNF)”	Las Palmas de Gran Canaria, Spain	03-07 June, 2018

S. No.	Name of faculty	Details of Conference/Seminars/Symposia /Workshops/Guest lecture	Venue	Dates
		Attended and presented paper in Fish and Shellfish Larviculture Symposium “Larvi 2017” organized by Artemia Reference Centre	Ghent University held at Ghent, Belgium	4-7 September, 2017
		Attended and presented paper in “Asian Pacific – Aquaculture 2017” organized by World Aquaculture Society (WAS, USA)	Kuala Lumpur, Malaysia	24-27 July, 2017
		Attended and participated as Project Investigator in the Meeting of Newton Fund Global Research in Aquaculture funded by BBSRC, UK and DBT, Ministry of Science & Technology, Govt. of India.	Sokoine University of Agriculture (SUA), Tanzania	28 February – 3 March, 2018
3.	Dr Yasha Hasija	Invited Speaker, “Systems Biology and Gene Networks in Human Disorders” International Conference on Biotechnology and Environmental Science	Delhi	18-20 March, 2018
4.	Dr. Asmita Das	Attended 2 days’ workshop on “Alternative Fuels and Engine Tribology”	DTU, Delhi	10-11 July, 2017

#### 4.4.7 Participation of Faculty in Short Term Courses

S. No.	Name of faculty	Name of courses	Place	Dates
1.	Prof Jaigopal Sharma	TEQIP-III sponsored workshop on “Microbial Diversity for Human Welfare”	IIT-Delhi, India	9 -11 April, 2018
		Chairman for the TEQIP-III sponsored FDP on “Recent Developments in Translational Medicine” organized by Dept. of Biotechnology	DTU, Delhi	12-16 March, 2018
2.	Prof Pravir Kumar	MHRD higher education leadership development programme by NIEPA, New Delhi	Aero city, Delhi	26 -28 Feb., 2018
		EQIP-III sponsored one week Faculty Development programme on Recent Developments in translational medicine (RDTM-2018)	DTU, Delhi	12 -16 March, 2018

S. No.	Name of faculty	Name of courses	Place	Dates
3.	Dr. Asmita Das	TEQIP III sponsored One Week Short Term Training Programme on “Health, Human Values, Ethics and Empowerment”	DTU, Delhi	13-18 April, 2018
		TEQIP III sponsored One Week Faculty Development Programme on “Recent Developments in Translational Medicine” organized by Dept. of Biotechnology	DTU, Delhi	12-16 March, 2018
		TEQIP III sponsored One Week Faculty Development Programme on Advances in Surface Engineering organized by Dept. of Mechanical Engineering,	DTU, Delhi	1-5 May, 2018
		Two weeks Faculty Development Programme on “Advanced Manufacturing and Operations Management (AMOM-2017) organized by Centre for Advanced Production and Industrial Engineering Research	DTU, Delhi	3- 14 July, 2017
4.	Dr. Navneeta Bharadwaj	TEQIP-III sponsored STTP on Health, human values, ethics and empowerment,	DTU, Delhi	13 -18 April, 2018
		TEQIP-III sponsored Seminar on Sustainable technologies for environmental management,	DTU, Delhi	27 -28 March, 2018
		TEQIP-III sponsored FDP on Recent Developments in Translational Medicine (RDTM-2018)	DTU, Delhi	12 -16 March, 2018
		Workshop on Recent advances in alternative energy sources,	DTU, Delhi	29 January, 2018

## 4.4.8 Visitors to the Department

S. No.	Name of faculty	Affiliation	Purpose
1.	Prof. Sergei A. Eremin	Department of Chemical Enzymology, Faculty of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia	Immunoassay as Test-Methods for Detection of Organic Chemicals '
2.	Prof. Magnus Willander	Department of Science and Technology, Linkoping University, Sweden	Some Recent Results On Chemical Sensing, Water Cleaning And Energy
3.	Dr. Kriti Taneja	IIT Delhi	Harvesting Including Material Science and Devices'
4.	Prof. Ashok Kumar	Department of Anatomical Sciences and Neurobiology, University of Louisville School of Medicine, Louisville, Kentucky USA	Biotechnology Ignition Grant (Big) Scheme Signaling Mechanisms Regulating Myoblast Fusion
5.	Prof. Anil K. Chauhan	Department of Internal Medicine Division of Hematology, Oncology and Blood and Marrow Transplantation Medical Labs, Iowa City, Iowa	Novel Players In Thrombosis And Stroke
6.	Dr. Manoj Kumar	Department of Biophysics, AIIMS Delhi	Scientist, Bioinformatician
7.	Dr. A. S. Ethyathulla	Assistant Professor AIIMS Delhi	Crystallographer
8.	Ms. Sunita Narang	Delhi (Former employee at Sun Pharmaceutical)	Multifaceted Pharmaceutical Professional With Expertise In Regulatory Affairs
9.	Prof. Alok Ray	All India Institutes of Medical Sciences	Innovation in Healthcare for India: Make in India
10.	Prof. Yogendra Singh	Delhi University	Survival Strategies & Mechanism of Disease Establishment by Mycobacterium Tuberculosis
11.	Dr. Swati Subodh	1M1B	Rethinking Strategies from Bench to Bedside to Co-Crete Healthcare Solutions for The Next Billion

S. No.	Name of faculty	Affiliation	Purpose
12.	Dr. Rajiv Janardhanan, AIPH & Dr. PriyaRanjan, ASET	Amity University Uttar Pradesh, Noida	Ehealth: Exploring Its Potential in Healthcare Delivery
13.	Dr. Neel Sarovar Bhavesh,	International Centre For Genetic Engineering And Biotechnology	NMR And Calorimetry Techniques For Protein Interactions And
14.	Dr. Ganesh Bagler	Indraprastha Institute of Information Technology, Delhi	Computational Gastronomy: The Emerging Data Science of Food Flavors and Health
15.	Dr. Anshu Bhardwaj	Institute of Microbial Technology	Ligand and Target Based Approaches to Identify New Anti Tuberculosis Candidates -
16.	Prof. Pankaj Seth	National Brain Research Centre	What We Know and What We Need to Know About Virus Induced Neurodegeneration
17.	Prof. Andrew Lynn	Jawaharlal Nehru University	Sequence, Structure, Systems And Big Data: The Evolution Of Bioinformatics
18.	Dr. Vinod Scaria	CSIR-Institute of Genomics and Integrative	Personal Genomes to Precision Medicine
19.	Prof. Pawan Dhar	Jawaharlal Nehru University	Synthetic Biology: Fundamental Concepts to The Emergence of a Novel Drug Discovery Platform
20.	Prof. Prashant Mishra	Indian Institute of Technology, Delhi	Recombinant Proteins: Drugs to Molecular Devices
21.	Prof. T.P. Singh	All India Institutes of Medical Sciences	Protein-Antibiotics as The Next Generation Weapon Against Baterial Targets
22.	Prof. G.P.S Raghava	Indraprastha Institute of Information Technology, Delhi	Role Of Genomics In Personalised Medicine
23.	Dr. Rer Nat Shibashish Giri	Deputy Head, Applied Stem Cell Biology and Cell Technology, Biomedical and Biotechnological Center (BBZ), Medical	Stem Cell Research And Therapy In Preclinical Stage And Clinical Setting: Current Challenges And Future Prospects



S. No.	Name of faculty	Affiliation	Purpose
		faculty, university of Leipzig, Germany.	
24.	Dr. Ramgopal Rao S	Academic Manager, Biocon Academy, Bangalore.	Biotech Industry: Career Opportunities
25.	Ms. Kriti Taneja	FITT, IIT, Delhi	To Introduce BIRAC Scheme BIG

#### 4.4.9 Conference / Seminars / Symposia / Workshops Organized by the Department

- Workshop on Proximate analysis of natural products by NIR Absorption Spectrometry, August 14<sup>th</sup> 2018 (by Foss, Denmark).
- TEQIP-III sponsored Faculty Development Programme on “Recent Developments in Translational Medicine (RDTM-2018)” organized by the Department of Biotechnology, Delhi Technological University, Delhi, India. 12<sup>th</sup> – 16<sup>th</sup> March, 2018.
- Workshop on “Biotechnology Ignition Grant (BIG) Scheme for Innovators and Entrepreneurs” on 24<sup>th</sup> January 2018.

#### 4.4.10 Sponsored Research Projects

##### (i) Completed Sponsored Research Projects

S. No.	Principal Investigator	Title of project	Sponsoring Agency	Outlay (Amount in lakhs of Rupees)
1.	Prof B. D Malhotra	Development and Manufacture of Cost Effective Glucose Biosensor for Clinical Diagnostics	ICMR	25.00 Lakhs
2.	Prof Jaigopal Sharma	Engineering of actin filament for the development of next generation diagnostic nano devices	SERB DST	30.00 Lakhs
3.	Dr Asmita Das	Tumor cell induced NK cell receptor modulation	DST-SERB	20.20 Lakhs
4.	Dr Yasha Hasija	Tuberculosis: Genetic Susceptibility and Pharmacogenomics Databases	CSIR-OSDD	15.00 Lakhs

S. No.	Principal Investigator	Title of project	Sponsoring Agency	Outlay (Amount in lakhs of Rupees)
		Role of Human Genetic Variations in Age-Related Disorders	Science and Engineering Research Board (SERB) under OYS Scheme	12.42 Lakhs
5.	Dr Vimal Kishore	Modulation of hematopoietic stem cell homing/ engraftment potential through gene engineering techniques.	DST	19.86 Lakhs

## (ii) Continuing Sponsored Research Projects

S. No.	Principal Investigator	Title of project	Sponsoring Agency	Outlay (Amount in lakhs of)
1.	Prof. Bansi Dhar Malhotra	Development of Nanomaterials based Highly Efficient Biofuel cells	UGC-India	23.00 Lakhs
2.	Prof. Jaigopal Sharma	Development of Alternative Sustainable Fish Feeds to Promote Human Health using Novel Non-Conventional Indigenous Ingredients.	Multi-Country Project- BBSRC (UK) and DBT (India)	26.34 Lakhs
		Nanoenabled Biosensor for detection of Neisseriagonorrhoeae in collaboration with AIIMS	DBT-India	25.00 Lakhs
		Simultaneous degradation of organochlorine pesticides by microbes	UGC-India	35.00 Lakhs
		Development of Pelleted Diet for Labeo rohita and Clarias batrachus Using Achyranthes aspera and	DBT, India	20.00 Lakhs

S. No.	Principal Investigator	Title of project	Sponsoring Agency	Outlay (Amount in lakhs of)
		Evaluation of Its Immunostimulatory Properties in Pond Culture System		
		Toxicity Assessment and Treatment of Pharmaceutical Waste Water by Novel Nano Catalyst Based Advanced Oxidation Method	DST-India	20.00 Lakhs
3.	Dr.Yasha Hasija	Development of a genomic information resource on dermatological disorders	DBT	35.54 Lakhs

#### 4.4.11 Important Professional Affiliations

- **Prof Bansi D. Malhotra**

- Fellow, Indian National Science Academy.
- Fellow, National Academy of Sciences, India.
- Academician, Asia Pacific Academy of Materials.
- Member, Advisory Board, Biotechnology Journal (Wiley).
- Life Member, Materials Research Society of India (MRSI).
- Life Member, Indian Biophysical Society.
- Member, Society for Scientific Values, India.
- Life Member, Biotech Research Society of India.
- Life Member, Asian Polymer Association.

- **Prof Jaigopal Sharma**

- The Society of Aquaculture Professionals (SAP), (Life Member).
- Biotechnology Society of India (Life Member).
- Asian Fisheries Society, Philippines.
- Indian Science Congress Association, India (Life Member).
- World Aquaculture Society, U.S.A.
- Association of Aquaculturists, CIFA, India (Life Member).
- Indian Fisheries Association, CIFE, India (Life Member).
- Marine Biological Association of India, CMFRI (Life Member).
- Electron Microscope Society of India (Life Member).
- Nutrition Society of India (Life Member).
- Indian Society of Remote Sensing (ISRS) (Life Member).

- Indian Immunology Society (Life Member).
  - Indian Society for Radiation Biology (Life Member).
  - Indian Red Cross Society (Life Member).
  - Indian Photobiology Society (Life Member). Affiliated to the Association Internationale de Photobiologie, Switzerland.
  - Coldwater Fisheries Society of India (Life member).
  - Biogas Forum India (A registered Society for the promotion of Biogas technology in India) Centre for Rural Development and Technology, Indian Institute of Technology (I.I.T.), Delhi (Life Member).
- **Prof Pravir Kumar**
    - Society for Neuroscience, Washington, USA.
    - Alzheimer forum, USA.
    - Indian Academic of Neurosciences, (India)-LK92 Life member.
    - Society for Biotechnologist (India)-L494, Life member.
    - Society for Neurochemistry (India); LM-I 265, Life member.
    - Asia Pacific Society for Neuroscience (APSN), 10-4-043-022.
    - International Society for Neurochemistry (ISN).
    - American Society of Neurochemistry (ASN).
  - **Dr Asmita Das**
    - Life member Indian Immunology society.
    - Life member, The Indian Science Congress Association.
  - **Dr Yasha Hasija**
    - Life member, Indian Society of Human Genetics (ISHG).
    - Life member, Society of Biological Chemists (SBC).
    - Life member, The Indian Science Congress Association.
    - Member, International Association of Engineers (IAENG).
  - **Dr Saurabh C Saxena**
    - Member of American Society of Plant Biology, USA.
    - Life Member of Society of Biological Chemists, India.

## 4.5 Department of Civil Engineering

**Academic Staff: 25; Students Admitted: UG- 121; PG- 59; Ph.D 27; Publications: Journal Papers- 18, Conference/ Symp. 11**

### 4.5.1 Salient Features:

Traditionally Civil Engineering has played an important role in improving the civic life of society by harmonizing the natural resources available on earth. Some of the major areas in the field of Civil Engineering are design and construction of various structures like bridges, buildings, roads, tunnels and dams, developing new construction technologies, Design and development of Foundation systems, Geotechnical Engineering, Transportation and Traffic Engineering, Municipal and Sanitary services, surveying, GIS and Remote Sensing, and Hydraulics and Water Resources Engineering. Besides the basic and engineering sciences the curriculum in Civil Engineering covers various professional subjects on structures, foundations, construction, works management and cost, transportation engineering, irrigation engineering, hydraulics, environmental engineering and earthquake technology etc. The Department offers M. Tech. degree level programmes in Hydraulics and Flood Control, Structural Engineering, Environmental Engineering, and Geotechnical Engineering. The M. E. programmes now Called M. Tech. Programmes, for the last 30 years, have contributed significantly to the manpower development in highly relevant areas of national importance. The department also provides opportunity to working engineers for upgrading their qualification under Continuing Education Programme on part time basis, these programmes are: M. Tech. in daytime, and B.Tech. in evening time. The Department is well equipped with laboratories related to Structure, Concrete testing, Soil Mechanics, Highway Engineering, Experimental Stress Analysis, Computational Mechanics, Education Technology, Photogrammetric and GIS facilities, Environmental Engineering and Hydraulics Laboratories. The department undertakes to organize special lectures and discussion by eminent persons from the field and industry. The department of Civil Engineering lays greater emphasis on quality research of industrial design and development. Excellent facilities are available to conduct research for the award of Ph.D degree in the disciplines of Civil Engineering, Structural Engineering, Structural Dynamics, Earthquake Engineering, Water Resources Engineering, Environmental Engineering, Experimental Mechanics, Geotechnical Engineering and other interdisciplinary areas.

### 4.5.2 Academic Programme

S. No.	Name of academic Program	Intake	Duration
1.	B.Tech in Civil Engineering	122	4 years
2.	B.Tech. (Evening) in Civil Engineering	60	4 years
3.	M.Tech in Geotechnical Engineering	25	2 years
4.	M.Tech in Hydraulic and Water Resources Engineering	24	2 years
5.	M.Tech in Structural Engineering	25	2 years
6.	Ph.D Degree Program	APR	3 years minimum

### 4.5.3 Academic Staff

#### Professors 12

Name of the faculty	Qualification
Dr. Nirendra Dev, Head of the Department	B.Tech, M.Sc (Engg.), Ph.D, Structural Engineering
Dr. V.K. Minocha (On Diverted Capacity to CBPCE),	BE, M.Tech, Ph.D Water Resources
Dr. Ashutosh Trivedi	B.Sc (Engg.), M.Tech, Ph.D Geotechnical Engineering
Prof. A. K. Gupta	B.Sc, B.Tech, M.Tech, Ph.D Geotechnical Engineering
Dr. Ashok Kumar Gupta I	B.Tech, MS, Ph.D, Structure Engg
Dr. K.C. Tiwari	ME(CAD), Ph.D Microwave/Optical Remote Sensing, GIS, Expert Systems, Image Processing
Dr. Anil Kumar Sahu	B. Tech, M.Tech., Ph.D
Dr. Rakesh Kumar	M.Tech, Ph.D Fluid Mechanics
Mr. Alok Verma	M.Tech Structural Engg
Dr. Awadhesh Kumar	ME, PhD Specialization: Structural Engineering
Dr. Amit Kumar Shrivastava	M.Tech, Geo-Technical Engg
Mr. Naresh Kumar	ME, Soil Mechanics

#### Associate Professors 09

Name of the faculty	Qualification
Sh. Rakesh Mehrotra	B. Tech, M. Tech Environmental Engineering & Waste Water Engg.
Mr. G.P. Awadhiya	M.Tech Structures
Mr. S. Anbu Kumar	BE, M.Tech, Transportation
Mr. Narad Muni Prasad	BE, ME Specialization: Transportation
Dr. Susheel Kumar	ME Transportation
Dr. Raju Sarkar (On Deputation)	BE, ME, Ph.D in Soil Mechanics
Dr. Munendra Kumar	ME, Ph.D in Fluid Mechanics
Mr. T. Vijaya Kumar	ME, Environment engineering
Mr. A.R. Kongan	BE, ME, Soil Mechanics & Foundation Engg.

#### Assistant Professors 04

Name of the faculty	Qualification
Mr. B. R.G. Robert	BE, Civil Engineering
Dr. Bharat Jhamnani	BE, ME
Dr. Ritu Raj	ME, Ph.D, Structural Engineering, Wind Engineering
Sh. Hrishikesh Dubey	B.E., M.Tech

#### 4.5.4 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture / Visiting Scholar

S. No.	Name of the Faculty	Details of Conference/Seminar/Symposia / Workshop/ Guest Lecture/ Visit	Venue	Dates
1.	Dr. Ritu Raj	International Conference on Advances in Construction Materials and Structures (ACMS-2018)	IIT Roorkee	7-8 March, 2018
		Response of square and plus shaped building on varying loads, Ritu Raj, Akshay Sharma and Siddharth Chauhan, ASCE India Conference,	IIT Delhi	12-14 Dec, 2017
		Guest Lecture on “Wind Loads on Tall Structures” for the Officers of MECON Limited	IIT Roorkee	2018
2.	Prof. A.K. Sahu	“A case study: Sustainable development of ground water in Begamganj block of Bina river basin, Madhya Pradesh”, published in International Conference on 3 <sup>rd</sup> Go Green Summit 2018.	Manila, Philippines	24-25 March, 2018
		“Influence of natural polymer on geotechnical behavior of soil”, published in International Conference on smart cities with focus on environmental challenges.	New Delhi	10-11 April 2018
		“Performance of FAL-G bricks in aggressive chemical environment”, published in International Conference on smart cities with focus on environmental challenges.	New Delhi	10-11 April 2018

#### 4.5.5 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Dr. Ritu Raj	2 Days FDP “Game Changer”	DTU, Delhi	4-5 June, 2018
		One week FDP on “Emerging Trends in Internet of Things and Cyber Security Application in Smart Grid”	DTU, Delhi	12-16 March, 2018

		One week GIAN course on “Emerging Trends in advance control system application in intelligent transport system”	DTU, Delhi	4-8 December, 2017
		One week GIAN course on “Intelligent Transport System”	DTU, Delhi	27 Nov to 1 Dec 2017
2.	Pr. Amit kumar Shrivastava	Attended 3 days’ workshop for faculty mentors on Induction programme for new students.	GSITS, Indore	22 – 24 Sept. 2017

#### 4.5.6 Workshops/Events/Visits organised by Civil Department, DTU

- TEQIP-III sponsored Faculty Development Program on “**Geotechnical Engineering for Urban Infrastructure**”, 11-15 July 2018.
- TEQIP-III sponsored Faculty Development Program on “**Recent Developments in Fluid Mechanics**” 18-22 July 2018.
- TEQIP-III sponsored one day international workshop on Networking of Technology and Education for sustainable Development, 12 Oct, 2018.

#### 4.5.7 Industrial Visit

- The Dept. of Civil Engineering organized industrial visit for 6<sup>th</sup> semester B. Tech. Student at Nainital, Utrakhnad during March, 2018. Dr. Ritu Raj and Dr. S. Anbukumar were Coordinators for the Industrial Visit. A group of 120 students visited the NHPC Tanakpur Hydro Power plant on Sharda River. Students were able to understand the details about hydro structure projects.

#### 4.5.8 Consultancy Projects

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay
1.	Prof. N. Dev	3 <sup>rd</sup> Party Quality Control/Assurance (TPQA) in projects being executed by CPWD under Gwalior project Division	CPWD, GWALIOR	72.76 Lakhs
2.	Mr. B.R.G. Robert	Third Party inspection/quality assurance for “Improvement of corridor between MukarbaChowk to WazirabadChowk. SH: C/o parallel road in Zone F-1 on the outer side of Nallah from Sanjay Gandhi Transport Nagar to WazirabadChowk.”	PWD, Delhi	69.90 Lakhs



S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay
		Third Party inspection/quality assurance for “Comprehensive development of corridor (outer ring road) between MukarkaChowk to WazirabadChowk. SH: C/o Flyovers, Loops, Bridges, across supplementary drain FOBs, Footpath, Cycle track, Widening of road on embankment. Rain Water harvesting scheme, electrical works and other allied works.”	PWD, Delhi	442.00 Crores
		“Construction of 7000 additional classrooms in various existing school. Under Education Zone (M), New Delhi (Priority-I) (SH: C/o main SPS type building i/c internal & external water supply, sanitary installation, development of site etc.)”	PWD, Delhi	800.00 Crores
		Various project undertaken by HSCC under AIIMS, New Delhi- Empanelment of third party quality inspection agency reg.	AIIMS, New Delhi	1500.00 Crores
3.	Pr. Amit Kumar Shrivastava	3 <sup>rd</sup> Party Quality Control/Assurance (TPQA) in Various projects.	CPWD Gwalior division	72.76 Lakhs
4.	Prof. A.K. Sahu	Third party quality assurance for the work of 3 No additional clover leaves at Sarita Vihar fly over i/c slip roads/ approach roads, bridges, footpath, cycle track and under pass (RUB) to connect road No. 13A to road No. 13	DDA, Delhi	50.74 Lakhs

## 4.6 Department of Computer Science and Engineering

**Academic Staff: 21; Students Admitted: UG- 483; PG- 42; Ph.D 11; Publications: Journal Papers- 29, Conference/ Symp. 31**

### 4.6.1 Salient Features:

The Department of Computer Science and Engineering endeavors to provide the thrill of a corporate R&D environment with a planned focus on industrially relevant projects and technology incubation. The curriculum defined, lays greater emphasis on design principles and development of system software for operating systems, Database management systems, data mining, computer graphics and networks. Department has developed state-of-the-art laboratories in the various fields of Computer Engineering-Computer Architecture Lab, Network Lab, Web Designing Lab, Computation and programming Lab, Operating System Lab, Artificial Intelligence Lab and many others. Currently the department offers Doctorate, post-graduate & under-graduate courses in fields of Computer Engineering; Information Technology & Software Engineering & Technology. The department also has an active student chapter of Computer Society of India (CSI) and contributes significantly in professional activities undertaken by IEEE and IET student's chapters.

### 4.6.2 Academic Programme

S. No.	Name of academic Program	Intake	Duration
1.	B.Tech in Computer Engineering	362	4 years
2.	B.Tech in Software Engineering	122	4 years
3.	M.Tech In Computer Science & Engineering	25	2 years
4.	M.Tech In Software Engineering	25	2 years
5.	Ph.D Degree Program	APR	3 years minimum

### 4.6.3 Academic Staff

#### Professors: 02

Name of the faculty	Qualification
Dr. Rajni Jindal, Head of the Department	MCA, ME, Ph.D Database Systems, Data Mining and Operating Systems
Dr. Daya Gupta, Re-employed	M.Sc, Post M.Sc. Diploma (Computers Sc.), Ph.D Software Engineering , Artificial, Intelligence, Data Mining and Security Engineering

**Associate Professors: 07**

<b>Name of the faculty</b>	<b>Qualification</b>
Mr. Vinod Kumar	BE, M.Tech Computer Network
Mr. Manoj Kumar	B.Tech, M.Tech Information Security
Dr. Ruchika Malhotra	Ph. D, Post Doc (Indiana University Purdue University, USA). Machine Learning and Predictive Modeling, Software Testing and Quality, Empirical Software Engineering, Search-based Software Engineering
Dr. Anil Singh Parihar	B.Tech, M.E, P.h.D Pattern Recognition, Computer Vision, Soft Computing, Image Processing, Evolutionary Computing, Biometric Systems, Artificial Intelligence
Dr. Rahul Katarya	B.Tech, M.Tech, P.h.D Big Data Analytics, Social Networks Analysis, Human Behavior, Multimedia Systems, Internet Technologies, Web Mining, Data Mining
Dr. S. K. Saxena (Programmer)	Ph.D, M.E., PGDCA, CPF (I) Computer Graphics & Object Oriented Programming
Mr. Manoj Sethi (Programmer)	M.Sc. (OR), M.E. (CTA), LMCSI Database Management Systems

**Assistant Professors: 12**

<b>Name of the faculty</b>	<b>Qualification</b>
Dr. Akshi Kumar	BE, M.Tech, Ph.D Web Technologies, Text Mining, Sentiment Analysis, Recommender Systems, Social & Semantic Web, User-generated Big-Data, Internet-of-Everything
Mr. Rajesh Kumar Yadav	B.E, M.Tech. ,Mobile Computing, Wireless Sensor Network, Computer Networks, Theory of Computation, PCA
Ms. Divyashikha Sethia	M.Tech. Distributed Systems, Computer Networks, Algorithms, Mobile Computing, Cryptography
Ms. Abhilasha Sharma	B.Tech, M.Tech. Software Engineering, Software Testing, DBMS, Web Technology, Web Security
Mr. Rohit Beniwal	B.Tech, M.Tech. Social Web, Semantic Web, Software Engineering
Ms. Minni Jain	B.Tech, M.Tech. Natural Language Processing, Sentiment Analysis, Information Security
Mr. Nipun Bansal	B.Tech, M.Tech. Information Security, Biometric Security, Network Security
Mr. Sanjay Kumar	B.Tech, M.Tech. Database Systems, Data Science, Information Security and Algorithms
Mr. Sanjay Patidar	BE, ME. Theory of Computation, Operating Systems, Algorithm, Computer Architecture
Ms. Sonika Dahiya	BE, M.Tech. Algorithms and Data Mining, Data Structures, Theory of Computation

Name of the faculty	Qualification
Mr. Prashant Giridhar Shambharkar	BE CSE, M.Tech.CSE LMCSI Data Mining, Real Time Systems, Programming Fundamentals
Mr. Rahul	B. Tech, M.Tech, Database, Data Structure

#### 4.6.4 Honors and Awards to Faculty Members

- **Dr. Rajni Jindal**
  - Session Chair, IEEE' 4<sup>th</sup> annual international conference on Computational Science & Computational Intelligence (CSCI- 2017), 14-16 December, 2017 at Las Vegas, Nevada, USA.
- **Dr. Ruchika Malhotra**
  - Commendable Research Award 2017, Delhi Technological University, March 2018.
  - Program Committee Member, 40<sup>th</sup> International Conference on Software Engineering, Sweden, 27 May- 3 June, 2018.
  - Session Chair, IEEE 6<sup>th</sup> International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2017) (Trends and Future directions), 20-22 September 2017.
- **Dr. Akshi Kumar**
  - Best paper Award on paper titled "Opinion Extraction from Quora using User-Biased Sentiment Analysis" in Fourth International Conference on Information Systems Design and Intelligent Applications, INDIA 2017, Springer Advances in Intelligent Systems and Computing (AISC) Series
  - Best paper Award on paper titled "Empirical Study of Twitter and Tumblr for Sentiment Analysis using Soft Computing Techniques" in International Conference on Soft Computing and Applications (ICSCA 2017), World Congress on Engineering and Computer Science 2017.
  - Best paper Award on paper titled "Multiple Document Summarization & Opinion Mining using Stack Decoder Method and Neural Networks" in International Conference on Data Management, Analytics & Innovations (ICDMAI'18).
  - Session Chair in International Conference of Soft Computing and Applications (ICSCA), World Congress of Engineering & Computer Science, 2017.
- **Dr. Anil Singh Parihar**
  - Excellence Research Award 2017, Delhi Technological University, March 2018.
- **Dr. Daya Gupta**
  - General Chair, SPRINGER **International** Conference on Information, Communication and Computing Technology (ICICCT-2017) held on May 2017 at India International Centre, Delhi.

- Program Committee Member, 40<sup>th</sup> International Conference on Software Engineering, Sweden, 27 May- 3 June, 2018.

#### 4.6.5 Visit of Faculty Members to Other Institutions

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Prof. Rajni Jindal	DRDO	Interaction	March, 2017
2.	Dr. Ruchika Malhotra	Aalto University, Helsinki, Finland	Interaction	April, 2018
		Epita, France	Collaboration	April, 2018
3.	Mr. Manoj Kumar	JSS Academy of Technical Education, Noida	Subject Expert for Faculty Interviews	July, 2017
4.	Ms. Divyashikha Sethia	DST, TIFAC	Interview Board	March 2017- 18

#### 4.6.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of the Faculty	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Ms. Abhilasha Sharma	International Conference on Innovative Computing and Communication	Guru Nanak Institute Of Management, Delhi	May, 2018
2.	Prof. Rajni Jindal	IEEE 4 <sup>th</sup> annual international conference on Computational Science & Computational intelligence (CSCI-2017)	Las Vegas, Nevada, USA	14-16 Dec., 2017
		Unicon: Industry – University Partnership	Bangalore, India	24 Nov., 2017
3.	Dr. Ruchika Malhotra	In Genetic and Evolutionary Computation Conference	Berlin, Germany	15-19 July, 2017
		Unicon: Industry – University Partnership	Bangalore, India	24 Nov., 2017
		International Conference on Information and Communication Technology for Competitive Strategies	Udaipur, India	16-17 Dec, 2017
		GECCO '17 the Genetic and Evolutionary Computation Conference Companion	Berlin, Germany	15-19 July, 2017

S. No.	Name of the Faculty	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
		Workshop on Predictive Modeling in Machine Learning.	DTU, Delhi	4-8 Dec., 2017
4.	Dr. Akshi Kumar	International Conference on Soft Computing and Applications (ICSCA 2017), World Congress on Engineering and Computer Science 2017	San Francisco, USA	October, 2017
		IEEE Comptelix 2017, International Conference on Computer, Communications and Electronics 2017	Jaipur, India	May, 2017
		‘Web Technology’	Doon Valley Institute of Engineering & Technology	22 July, 2017
		‘Role of NLP in Social Media Mining of Sentiments’ at FDP	HCST, Mathura, India	24-29 July, 2017
		‘Research Paper Writing’	BVCOE, New Delhi, India	8 Sep., 2017
5.	Mr. Manoj Kumar	DASA PI Training Module	VNIT, Nagpur	8 July, 2017
6.	Mr. Rajesh Kumar Yadav	One-day workshop on “Raising Awareness on Plagiarism and copyrights”	DTU, Delhi	20 March, 2018
		International conference on recent trends in engineering and Sciences(ICRTEES)-2018	Andhra Pradesh, India	20-21 Feb., 2018
7.	Mr. Manoj Sethi	5 <sup>th</sup> International Conference Indiacom 2018	Delhi	14-16 March, 2018
8.	Mr. Prashant Giridhar Shambharkar	5th International Conference on Research Trends in Engineering, Applied Science and Management (ICRTEESM-2017)	Pune, Maharashtra	23 July, 2017

## 4.6.7 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Mr. Rohit Beniwal	Data Mining: Task, Tools, Techniques and Applications	NSIT, Delhi	27 Nov - 1 Dec., 2017
		E-Resources: A Gateway for Research, 2017	DTU, Delhi	4 - 8 Sept., 2017
2.	Mr. Manoj Sethi	TEQIP III Sponsored One Week FDP On Emerging trends in Internet of Things(IOT) and cyber Security applications in Smart Grid (EICS -2018)	DTU, Delhi	12-16 March, 2018
		TEQIP III Sponsored One Week FDP On Machine learning in Predictive Modeling 2018	DTU, Delhi	23-27 April, 2018
3.	Mr. Sanjay Kumar	TEQIP III Sponsored One Week FDP On Emerging trends in Internet of Things(IOT) and cyber Security applications in Smart Grid (EICS -2018)	DTU, Delhi	12-16 March, 2018
		India UK Design Education Workshop Series	India Design Council Delhi	29-31 Jan, 2018
		GIAN Course on Data Mining Algorithms for Graph, Text and streaming Data	PDPM IIITDM, Jabalpur	19- 27 Dec., 2017
		GIAN Course on Algorithmic Foundations of Wireless Sensor Networks With Applications	NITK, Surathkal	10- 14 Dec., 2017
		Data Mining: Task, Tools, Techniques and Applications	NSIT, Delhi	27 Nov.– 1 Dec., 2017
		E-Resources: A Gateway for Research, 2017	DTU, Delhi	4 - 8 Sept., 2017
4.	Ms. Abhilasha Sharma	TEQIP III Sponsored One Week FDP On Emerging trends in Internet of Things(IOT) and cyber Security applications in Smart	DTU, Delhi	12-16 March, 2018

S. No.	Name of Faculty	Name of Courses	Place	Dates
		Grid (EICS -2018)		
		TEQIP III Sponsored One Week FDP On Machine learning in Predictive Modeling 2018	DTU, Delhi	23-27 April, 2018
5.	Mr. Prashant Giridhar Shambharkar	TEQIP III sponsored FDP on “Emerging trends in Internet of Things (IOT) and Cyber security applications in Smart Grid (EICS-2018)	DTU, Delhi	12-16 March, 2018
6.	Prof. Rajni Jindal	E-Resou: A Gateway for Research, 2017	DTU, Delhi	4-8 Sept., 2017
		India UK Design workshop - Future of Design Education	DTU, Delhi	29-31 Jan., 2018
		Good Governance and Transparency through RTI at Goa	Goa, India	13-17 Nov., 2017
		ISO 9001-2015	IIQM, Jaipur	18-20 Sept., 2017
7.	Dr. Ruchika Malhotra	E-Resources : A Gateway for Research, 2017	DTU, Delhi	4-8 Sept., 2017
		ISO 9001-2015	IIQM, Jaipur	18-20 Sept., 2017.
8.	Ms. Sonika Dahiya	TEQIP III Sponsored One Week FDP on Emerging trends in Internet of Things (IoT) and cyber Security applications in Smart Grid (EICS -2018)	DTU, Delhi	12-16 March, 2018
		TEQIP III Sponsored One Week FDP on Machine learning in Predictive Modeling 2018	DTU, Delhi	23-27 April, 2018
		TEQIP – III sponsored one-week short term training program on “Health, Human Values, Ethics and Empowerment”	DTU, Delhi	13-18 April, 2018



S. No.	Name of Faculty	Name of Courses	Place	Dates
9.	Mr. Rahul	"E-Resources: A Gateway for Research, 2017"	DTU, Delhi	4 -8 Sept., 2017
10.	Ms. Divyashikha Sethia	Emerging trends in Internet of Things(IOT) and cyber Security applications in Smart Grid (EICS -2018)	DTU, Delhi	12-16 March, 2018
11.	Mr. Rajesh Kumar Yadav	TEQIP-III sponsored one week FDP on "Emerging trends in internet of things (IoT) and cyber security applications in smart grid (EICS-2018)"	DTU, Delhi	12-16 March, 2018
		TEQIP-III sponsored International seminar on "Sustainable Technologies for Environmental Management (STEM-2018)	DTU, Delhi	27-28 March, 2018
		Two-Week FDP on "Advanced Manufacturing and Operations Management (AMOM-2017)"	DTU, Delhi	03 -14 July, 2017
12.	Mr. Sanjay Patidar	TEQIP – III sponsored one-week short term training program on "Health, Human Values, Ethics and Empowerment"	DTU, Delhi	13-18 April, 2018
		Emerging trends in Internet of Things(IOT) and cyber Security applications in Smart Grid (EICS -2018)	DTU, Delhi	12- 16 March, 2018
		"E-Resources: A Gateway for Research, 2017"	DTU, Delhi	4- 8 Sept., 2017
		TEQIP III Sponsored One Week Faculty Development Program on Machine learning in Predictive Modeling 2018	DTU, Delhi	23-27 April, 2018
		India UK Design workshop - Future of Design Education	DTU, Delhi	29-31 Jan., 2018

S. No.	Name of Faculty	Name of Courses	Place	Dates
		TEQIP III sponsored FDP on “Advances in Image Processing and Computer Vision”	DTU, Delhi	2-6 April, 2018
		Patent filing procedure	DTU, Delhi	28 May, 2018
13.	Mr. Ram Murti Rawat	A six day technical skill enhancement workshop on SRAM design	Bharti Vidyapeeth College of Engineering	5-10 Oct., 2017
14.	Ms. Kusum Lata	TEQIP-III Sponsored one week FDP on Machine Learning in Predictive Modelling	DTU, Delhi	23-29 April, 2018

#### 4.6.8 Visitors to the Department

S. No.	Name	Affiliation	Purpose	Dates
1.	Mr. Koji Arima	DENSO Software	Collaboration and Interaction	15 Nov., 2017
2.	Prof. Ragvendra	University of Southern California	Collaboration and Interaction	12 March, 2018
3.	Nazima Canda	Epita University, France	Collaboration and Interaction	----
4.	Dr. Vivek Bindra	Founder & CEO- Global Act	Motivational talk on “secret of success”	24 Aug., 2017
5.	Mr. Venkatesh Sarvasiddhi & Mr. Vinod Sharma	Microsoft India	Microsoft Imagine Camp in DTU, Delhi	29 Jan., 2018
6.	Prof. M.N Doja	Jamia Milia Islamia	DRC Member	-
7.	Prof. P.C Jha	University Of Delhi	DRC Member	-
8.	Prof. C.S Rai	USICT, GGSIPU	DRC Member	-
9.	Amitabh Mathur	Truring Softek	Collaboration and Interaction	July, 2017
10.	Rajesh Vij	Truring Softek	Collaboration and Interaction	July, 2017
11.	Sanjiv Kapur	Truring Softek	Collaboration and Interaction	July, 2017

S. No.	Name	Affiliation	Purpose	Dates
12.	Prof. R.K.Garg	DCRUST, Murthal	PhD Registration SRC	June, 2017
13.	Prof. MPS Bhatia	NSIT, Delhi	PhD Registration SRC, M.Tech Thesis Evaluation	July, 2017
14.	Prof. R.K Agarwal	JNU	M.Tech Thesis Evaluation	July, 2017
15.	Prof. Anju Agarwal	DU	M.Tech Thesis Evaluation	July, 2017

#### 4.6.9 Conference/Seminar/Symposia/Workshops Organized by the Department

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Mr. Rohit Beniwal	Seminar on “Secret of Success”	B.R. Ambedkar Auditorium, DTU, Delhi	24 Aug., 2017
		Microsoft Imagine Camp	B.R. Ambedkar Auditorium Building, DTU, Delhi	31 Jan., 2018
2.	Dr. Ruchika Malhotra	Machine Learning in Predictive Modeling	SPS- 13, DTU, Delhi	4-8 Dec., 2017
3.	Mr. Manoj Sethi	Transforming lives with cognitive computing	CSE Deptt. DTU, Delhi	14 Sept., 2017
4.	Mr. R. K. Yadav	SENSEnuts IoT Platform	CSE Deptt. DTU, Delhi	11 Oct., 2017

#### 4.6.10 Important Professional Affiliations:

- Prof. Rajni Jindal, LMCSI, LMISTE, Senior member IEEE
- Prof. Daya Gupta, Senior Member IEEE, LMCSI
- Dr. Ruchika Malhotra, Member, ACM
- Dr. Akshi Kumar, Member ACM, IEEE, IEEE WIE, LMCSI, LMISTE, Member IAENG
- Mr. R K Yadav, Member IEEE, Member IAENG, LMISTE
- Ms. Divyashikha Sethia, Member IEEE, Member ACM
- Mr. Rohit Beniwal, LMCSI, LMISTE, Member IAENG
- Mr. Prashant Giridhar Shambharkar, LMCSI, Member IAENG
- Mr. Manoj Sethi, LMCSI

## 4.7 Delhi School of Management

**Academic Staff: 15; Students Admitted: PG (MBA- 105, EMBA – 50); Ph.D 09; Publications: Journal Papers- 31; Books – 02; Conference/ Symp. - 36**

### 4.7.1 Salient Features

Delhi School of Management (DSM) was established in 2009 with Delhi College of Engineering (DCE) acquiring a University status, being officially renamed as Delhi Technological University (DTU) through a legislature passed by the Delhi State Assembly. DSM envisages at developing distinctive future managers, keeping up with the tradition of DCE (and now DTU) by providing excellent world class education. DSM was established with a vision of inculcating a penchant for innovation, research, and experimentation in the aspiring managers. DSM aims at extending the seven-decade long legacy of DCE by incubating and developing techno-managers, who are adept at identifying pertinent and critical business problems and apply their technical skills and competencies in solving those issues. In order to train its students to face the challenges of an information and knowledge driven work environment, DSM provides them with the Triple E: Education, Experience and Exposure. DSM strives to inculcate in its students the managerial competence through specialized knowledge and skills, while simultaneously empowering their minds through quality teaching, consultancy, and other professional services in order to fulfil its role of a vibrant and model institution capable of imparting quality education in the area of Management Studies. DSM envisions at developing a knowledge society by providing equitable access to the masses and broadening the span of their participation in the areas of higher education.

### 4.7.2 Academic Programme:

S.No.	Name of academic Program	Intake	Duration
1	MBA	120	2 years
2	Executive MBA	60	2 years

### 4.7.3 Academic Staff:

#### **Professors: 03**

Name	Qualification
Dr. Rajan Yadav, Head of the Department	MBA, Ph.D, Services Marketing, Sales and Distribution Management Rural Marketing, Social Marketing, Retail Management,
Dr. Pradeep Kumar Suri	M.Tech, Ph.DE-Governance, Project Management, Quantitative Methods
Dr. Girish Chandra Maheshwari	Ph.D Finance, Accounting and Strategy Area

**Assistant Professors: 12**

<b>Name</b>	<b>Qualification</b>
Dr. Archana Singh	MBA (Finance), Ph.D Corporate Finance, Financial Accounting, Security Analysis, Risk Management, International Business
Dr. Shikha N. Khera	MBA, NET, Ph.D, Organizational Behaviour, Organizational Development,
Dr. Vikas Gupta	MBA, NET, Ph.D, Knowledge Management, Innovation Management, Business Process Re-engineering, Corporate Social Responsibility
Dr. Meha Joshi	MBA, NET, Human Resource Management, Training and Development, Occupational Safety and Health
Dr. Sonal Thukral	MBA, M.Com, NET (JRF), DOEACC 'O and 'A' Level, Ph.D (Finance), Finance, International Business
Ms. Deep Shree	BA (H) Economics, MBA, UGC NET (JRF), Pursuing Ph.D(Marketing), Marketing
Ms. Deepali Malhotra	M.Com, NET/JRF, M.Phil., Pursuing Ph.D Specialisation- Finance, International Business, and Strategy
Mr. Mohit Beniwal	B.E., MBA, Masters in Information Systems, Pursuing Ph.D, Information Systems, Corporate Governance
Mr. Chandan Sharma	B.E., PGDM, Pursuing Ph.D, Project Finance, Risk Management, Corporate Finance, Asset Valuation
Mr. Yashdeep Singh	B.E., MBA, NET, Pursuing Ph.D, Information Technology Management, Data Warehousing
Mr. Dhiraj Kumar Pal	BE (Mech.), MBA (Gen Mgmt), UGC NET – JRF, Production and Operations Management, Supply Chain Management, Entrepreneurship
Mr. Abhinav Chaudhary	B.E., MBA, NET, Pursuing Ph.D Production and Operations Management, Business System Analysis and Design, International Marketing Management

**4.7.4 Honors and Awards to Faculty Members**

<b>Prof. P.K.Suri</b>	<ul style="list-style-type: none"> <li>Member, Governing Council, Global Institute of Flexible Systems Management</li> <li>Member, Managing Committee, Global Journal of Flexible Systems Management.</li> </ul>
<b>Dr. Meha Joshi</b>	<ul style="list-style-type: none"> <li>Certificate of honour awarded in recognition of the outstanding contribution through innovation and inspiration to achieve educational excellence by propagating the concept of Social and Emotional learning, by Lions Club Delhi on 3<sup>rd</sup> September 2017</li> <li>Best Paper Award on Paper entitled “An Empirical Study of Social Intelligence among School Teacher: A Tool to Instil Leadership among Students.” in a National Conference On “Leadership in Organisations: Contemporary Concerns and Key Developments”</li> </ul>

<b>Dr. Shikha N. Khera</b>	<ul style="list-style-type: none"> <li>Best paper Award at National Conference on ‘Digital Interventions for Economic Growth’, organized by Lal Bahadur Shastri Institute of Management, Delhi held on 22-23 March, 2018</li> </ul>
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#### 4.7.5 Visit of Faculty Members to Other Institutions

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Prof. Rajan Yadav	Gitarattan International Business School	Keynote Speaker and Session Chair in National Conference on Global Information and Business Strategies	08-09 Dec., 2017
		Vivekananda Institute of Professional Studies	Chaired a technical session in National Conference on Transforming Nation Through: CSR, Financial Inclusion, Empowerment and Digitization	14-15, March, 2018
		Kurukshetra University	Chaired a Technical Session in National Seminar on Managing Business in the Era of Transformation	08 March, 2018
2.	Dr. Vikas Gupta	Gujarat Technological University	Ph.D Viva External Examiner	06 May, 2017
		University School of Management Studies, GGS IP University	Meeting of Board of Studies	13 March, 2018
		University of Petroleum and Energy Studies	External Examiner for PhD Viva	28 Aug., 2017

#### 4.7.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Faculty	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Dr. Vikas Gupta	Future of Education Summit organized by Business World	Radisson Blu, Noida	7 April, 2017
		“Bridge 2017” organized by The Times of India	The Lalit, Barakhamba Avenue, Delhi	9 June 2017
		Workshop on Future of Workplace, Talent & Jobs organized by Business World	Le Meridian, Delhi	15 June, 2017

S. No.	Faculty	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
2.	Dr. Archana Singh	ICFMCF -2017 International conference organized by VGSOM	IIT Kharagpur	07-08 July, 2017
		GLOGIFT17 International conference organized by GIFT Society and DTU	DTU, Delhi	11-13, Dec 2017
3.	Prof P.K. Suri	National Meeting of Experts on Agriculture Markets, Price Data Visualization and Early Warning System organized by Food and Agriculture Organization of United Nations, India	Hotel Taj Mahal, Mansingh Road, New Delhi	11-12 Sept., 2017
		Conference Chair, Session Chair and Panellist: GLOGIFT 17: 17th Global conference on “Transforming organizations through Flexible Management” organized by GIFT Society and DTU	DTU, Delhi	11-13 Dec., 2017
4.	Dr. Meha Joshi	National conference on solid state Chemistry and allied areas (ISCAS-2017) by Chairman: Prof.S.C. Sharma	DTU, Delhi	1-3 July, 2017
		Seminar on New Age risks organized by FICCI	FICCI, Auditorium	23, June 2017
		Seminar on” Role of Parents in Developing Essential 21 <sup>st</sup> century skills organized by Dr.M.P. Gupta	DTU, Delhi	3 Sept., 2017
		Seminar on Skills for adolescence Lions quest seminar organized by Mr. Inderjit Singh	DTU, Delhi	3 Sept., 2017
		Workshop on ISO9001:2015	DTU, Delhi	18-20 Sept., 2017
5.	Ms. Deepali Malhotra	6 <sup>th</sup> Annual International Commerce Conference organized by Prof. Kavita Sharma	DSE, University of Delhi	11-12 Jan., 2018
6.	Prof. P.K. Suri	“E-Governance and Citizen Charter” organized by National Power Training Institute, Faridabad	NPTI Faridabad	09 January, 2018
		National Seminar on “Managing Business in the Era of Transformation” organized by Kurukshetra University	Department of Commerce, Kurukshetra University	08 March, 2018
		“E-Governance” organized by Rafi Ahmed Kidwai National Postal Academy, Ghaziabad	Rafi Ahmed Kidwai National Postal Academy, Ghaziabad	11 June, 2018

S. No.	Faculty	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
7.	Dr. Shika N. Khera	Session chair for tracks- 'Enterprise Flexibility and Building Sustainable Competencies' & 'Performance Measures in changing Business Ecosystem' in GLOGIFT global conference organized by GIFT Society and DTU	DSM, DTU, Delhi	11-13 Dec., 2017
8.	Dr. Sonal Thukral	6 <sup>th</sup> Annual International Commerce Conference organized by GIFT Society and DTU Department of Commerce, University of Delhi and Academy of Indian Marketing	DSE, University of Delhi	11-12 Jan., 2018
9.	Dr. Archana Singh	ICARI 2108 International conference organized by International Conference of Advance Research and Innovation - 2018	Institution of Engineers, Delhi State Centre	28 January, 2018

#### 4.7.7 Participation of Faculty in Short Term Courses

S.No.	Name of Faculty	Name of Courses	Place	Dates
1.	Dr. Vikas Gupta	AMOM 2017	MPIAE, DTU, Delhi	15-28 May, 2017
		One week, E-Resources: A Gateway for Research, 2nd edition (2017)	DTU, Delhi	4-8 Sept., 2017
		FDP on Advanced Manufacturing and Operations Management organised by Center for Advanced Production AND industrial and Automobile Engineering Research	DTU, Delhi	3-14 July, 2017
2.	Dr. Meha Joshi	One week, E-Resources: A Gateway for Research, 2nd edition (2017)	DTU, Delhi	4-8 Sept., 2017
		Orientation Programme	University of Delhi	21 Nov. - 19 Dec., 2017
3.	Dr. Archana Singh	FDP on Advanced Manufacturing and Operations Management organised by Center FOR Advanced Production AND industrial and Automobile Engineering Research	DTU, Delhi	3-14 July, 2017
		One week, E-Resources: A Gateway for Research, 2nd edition (2017)	DTU, Delhi	4-8 Sept., 2017



**4.7.8 Visitors to the Department**

S. No.	Name	Affiliation	Purpose	Dates
1.	Mr. Ashish Srivastava	VP- HR, Relaxo	Guest lecture on Role of HR in the era of Mergers and acquisitions	24 Aug., 2017
2.	Mr. Amrik Singh	DGM(Transport), Bharat Electronics Limited	Workshop on 5S for Business Excellence	4 Oct., 2017
3.	Charles Willmen	Rector and teaching professor at the International Buddhist College.	Ancient wisdom	22 Feb., 2018
4.	Dr. H K Dangi	Associate Professor, Department of Commerce, DSE University of Delhi	Value Added Lecture on Multi variate data analysis	March, 2018
5.	Ms. Ashima Tyagi	Asst. Director, Steel Authority of India Ltd	Global Value Chains & the position of India	07 Feb., 2018
6.	Mr. Anurag Joshi	DGM (International Sales), Airtel	Innovations & Management in Telecommunication Industry	15 March, 2018

**4.7.9 Conference/Seminar/Symposia/Workshops Organized by the Department**

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Dr. Meha Joshi	Organized XIX Annual International Conference, on the broad theme "Digital Revolution: Inventing Future India" by DSM and DSPSR	DTU, Delhi	5-6 Jan, 2018

**4.7.10 Completed Sponsored Projects**

S. No.	Principal Investigator	Title of Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees`)
1.	Prof. P.K. Suri, Dr. Archana Singh and Dr. Vikas Gupta	Training of Women in Delhi for creating women Entrepreneurs/ Data Entry operators with an exposure to Tally, to promote awareness and to enhance vocational skills of women	NIELIT, Delhi	0.99Lakhs

**4.7.11 Important Professional Affiliations:**

**Dr. P.K.Suri** Life Member, Global Institute of Flexible Systems Management

**Prof. Rajan Yadav** Life Member, Global Institute of Flexible Systems Management

**Dr. Meha Joshi** Member, All India Management Association

**Dr. Archana Singh** Member Indian Finance Association, IIM Kolkata

## 4.8 Department of Electronics and Communication Engineering

**Academic Staff: 27; Students Admitted: UG -184; PG- 52; Ph.D-16; Publications:  
Journal Papers- 125.**

### 4.8.1 Salient Features:

The Department of Electronics and Communication Engineering has seen considerable growth since its inception in 1976. This department offers UG/ PG and Ph.D programmes. Currently the Department has 11 well equipped curriculum laboratories and 4 research laboratories. Frontal areas of the advance level research in the department are Micro strip antenna design, Sensor Networks, Image processing and Analog and digital system design. The Department regularly organizes seminars, workshops and training programs to keep pace with the new developments and recent trends in relevant technologies. The Department plans to have center of excellence in the field of robotics, machine vision, medical electronics and VLSI in collaboration with industry. The department is planning to impart training program in cutting edge technologies for creating a talent hub to meet industrial manpower needs. Department is striving to utilize the power of brilliant minds at DTU and its networked institution/research laboratories for design and development of future electronics.

### 4.8.2 Academic Programme

S.No.	Name of academic Program	Intake	Duration
1.	B.Tech in Electronics & Communication Engineering	185	4 years
2.	B.Tech (Evening) in Electronics & Communication Engineering	60	4 years
3.	M.Tech in Signal Procressing & Digital Design	25	2 years
4.	M.Tech in Microwave & Optical Communication Engineering	25	2 years
5.	M.Tech in VLSI Design & Embedded System	25	2 years
6.	Ph.D	APR	3 years minimum

### 4.8.3 Academic Staff

#### Professors:09

Name	Qualification
Dr. S. Indu, Head of the Department	B. Tech, M. Tech, Ph.D Computer Vision, wireless sensor networks, Image Processing,
Dr. Asok De	B.E., M.E, Ph.D Communication & Microwave
Dr. Rajiv Kapoor (On diverted capacity to AIACT, Delhi),	BE, ME, Ph.D Electronics & Communication,
Dr. O. P. Verma, (On Deputation to GBPEC Delhi)	B.E., M.Tech, Ph.D Image Processing, Signal Processing, Soft Computing, Artificial Intelligence,
Dr. N.S. Raghava	Ph.D Antenna and Propagation, Microwave Engineering,

Name	Qualification
	Digital Communication, Wireless comm., Cloud Computing, Information Security,
Dr. Rajeshwari Pandey	B.Tech, ME Linear Integrated Circuits, Fiber Optical Communication,
Dr. Neeta Pandey	Ph.D Analog Electronics
Dr. D. R. Bhaskar (Re-employed)	B.Tech, M.Tech, Ph.D, Bipolar and CMOS Analogue Integrated Circuits,
Dr. Dinesh Kumar	B.Tech, M.Tech, Ph.D, Image Processing, Clustering
Dr. Jeebananda Panda	ME, Ph.D Applied Electronics,

**Associate Professors: 05**

Name	Qualification
Mr. Rajesh Rohilla	BE, M.Tech Electronics & Communication,
Mr. Mahipal Singh Choudhary	B.Tech, M.Tech Antenna and Propagation,
Mr. Rajesh Birok	B.Tech, M.Tech Bio-medical Instrumentation,
Mr. Alok Kumar Singh	BE, M.Tech Linear Integrated Circuits, Fiber Optical Communication,
Dr. Gurjit Kaur	B.Tech., M.Tech., Ph.D Optical Communication, Wireless Communication, IoT
Dr. Poornima Mittal	BE, M.Tech, Ph.D, Organic Electronics, VLSI Design, Device Modeling

**Assistant Professors: 14**

Name	Qualification
Mr. Deva Nand	B.Tech, M.Tech Micro Electronics, VLSI Design,
Mr. Avinash Ratre (Study leave under QIP)	B.Tech, M.Tech Digital Signal Processing,
Mr. Ajai K. Gautam	B.Tech, M.Tech Electronics & Communications
Ms. N. Jayanthi	M.Tech, Electronics & Communication
Dr. Sudipta Majumdar	B.Tech, M.Tech, Ph.D Electronics & Communications,
Dr. Malti Bansal	B.Tech, M.Tech, Ph.D Electronics & Communications
Dr. Nidhi Taneja (On Lien)	Ph.D Electronics & Communications
Dr. Priyanka Jain	B.Tech, M.Tech, Ph.D Microwave Engineering, Digital Signal Processing,
Dr. Yashna Sharma	B.Tech, M.Tech, Ph.D Electronics & Communications
Mr. Piyush Tiwari	B.Tech, M.Tech, Electronics & Communications.
Mr. Anurag Chauhan	B.Tech, M.Tech, Electronics & Communications.
Mr. Anand	B.Tech, M.Tech, Electronics & Communications
Ms. Kriti Suneja	M.Tech, B.Tech (Hons.), VLSI Design

#### 4.8.4 Honors and Awards to Faculty Members

- **Dr. S. Indu**
  - Member, Editorial board AEU International J. Electronics and Communications.
- **Dr. Neeta Pandey**
  - Member Editorial Board, AEU International Journal of Electronics and Communications (Elsevier).

#### 4.8.5 Visit of Faculty Members to Other Institutions

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Dr. S. Indu	Deenbandhu Chhotu Ram University of Sci. & Tech. Murthal Sonapat, Haryana, India	Expert Talk AICTE Sponsored Two Weeks Faculty Development Programme on “Signal & Image Processing: Issues, Challenges & Techniques”	03 Jan., 2018
		NIELIT, Delhi	Member, Selection Committee for recruitment of Scientist ‘B’	
		ITM GOI, Gwalior	Speaker, National Seminar: Recent Innovation in Signal Processing and Embedded Systems	19 April, 2018
		DRDO, Delhi	Speaker, Cryptology and Information Security (CIS 2018)’	6 August, 2018
		Govt College of Engineering, Bodinayakkanur, Anna University, Chennai	Examiner, Ph.D Viva Voce	16 March, 2018
2.	Dr. Ashok De	Shri Balasaheb Mane Shikshar Prasanak Mandals Ashok Rao Mane Group of Institution	NBA Visit	-
		Siddharthe Institute of Technology	NBA Visit	-
		Gokaraju Rangaraju Engg & Tech Silicon	NBA Visit	

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
		Institute of Technology		
		St. Martins Engg. College, Hyderabad	NBA Visit	
		Vivekanand College , Nammakal, TN	UGC Visit	
		Dr. APJ Abdul Kalam University Jhalaria, MP	AICTE & NAAC Visit	
		RVR and JC College Engg., Guntur MM (DU), Mullana	AICTE & NAAC Visit	
		Maharshi University of Information Technology, Lucknow	AICTE & NAAC Visit	
		Kalasalingam Academy of Research and Higher Education , Tamil Nadu	AICTE & NAAC Visit	
3.	Dr. N.S. Raghava	Indian Institute of Technology, Guwahati	To understand laboratory architecture for setting up a new department of design at DTU, Delhi	30 Nov.– 2 Dec. 2017
		Indian Institute of Technology, Mumbai		12-13 Feb, 2018
		National Institute of Design, Ahmedabad.		
4.	Dr. Dinesh Kumar	DCRUST, Murthal, Sonapat, Haryana	For attending Academic Council (AC) Meeting	18 June, 2018
		DCRUST, Murthal, Sonapat, Haryana	Talk on Outcome Based Education (OBE) in 3- days workshop on “Framework for integration of engineering curriculum with modern modes of content delivery”	04 July, 2018
5.	Dr. Rajeshwari Pandey	ABES Engineering College, Ghaziabad (UP)	Invited lecture in 2 days seminar on Recent trends in VLSI and its applications	11 Nov., 2017
		JSS Academy of Technical Education Noida	Invited lecture on “ Fundamentals of Devices and Circuits”	09 Oct., 17
6	Dr. Neeta Pandey	Bharati Vidyapeeth’s College of Engineering, N. Delhi	SRAM Design (Specs Finalization to Tapeout)	Oct., 2017
		JSS Academy of Technical Education, Noida	Expert Lecture in FDP	25 April 2018

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
		ABES Engineering College, Ghaziabad.	Expert Lecture in FDP	7 June 18
7.	Dr. D.R. Bhaskar	I.T.S. Engineering College, Greater Noida U.P.-201308	To deliver a lecture (F.D.P.)	13 July 18
8.	Mr. Rajesh Birok	NIELIT, Delhi	Member, Selection Committee for recruitment of Scientist 'B'	4-5 Oct. 2017
9.	Dr. N. Jayanthi	DCRUST, Murthal, Haryana	Delivering Expert Lecture	02 Jan 18
10.	Dr. Poornima Mittal	University of Petroleum and Energy Studies, Dehradun	Session Chair for Springer International conference on Intelligent Communication, Control and Devices (ICICCD-2017)	15-16 April, 2017
11.	Dr. J. Panda	HMR Institute of Technology and Management	Session chair in MARC 2018	19 July 2018
		Ministry of skill development and entrepreneurship	Technical Advisory committee meeting	14 Feb 2017
		DPGITM, Gurgaon (Saturday)	Selection for the post of Asst. Professor/ Associate Professor in the department of ECE	28 July 18
12.	Dr Gurjit Kaur	One week FDP on Emerging trends in Antenna Design and Communication Technologies, GCET, Delhi	Delivered an expert lecture on " Research trends in optical communication networks"	20 July 2018
13.	Mr. Piyush Tewari	IIT Kanpur	To attend the Short Term Course on Optimization of 5G Cellular Networks, Compressive Sensing and Data Science	5-8 Oct. 2017

#### 4.8.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of Faculty	Details of Conference/Seminar/Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Dr. S.Indu	International Conference on Advances in Pattern Recognition	ISI, Banglore	27-30 Dec., 2017
		GIAN Course on Intelligent Transportation	DTU, Delhi	27 Nov. 1 Dec. 2017
		TEQIP III sponsored STTP on "Advances in Image Processing and Computer Vision"	DTU, Delhi	2-6 April, 2018
2.	Dr. N.S Raghava	International Conference on Techno-Legal Management TelMISR-2018 on the theme of "Information Security Risks"	VIPS, Delhi	21-22 May, 2018.
3.	Dr. Neeta Pandey	FDP SRAM Design (Specs Finalization to Tapeout)	BVCOE New Delhi	Oct., 2017
		FDP- Signal processing and its applications	JSS Academy of Technical Education, Noida	25 April, 2018
		FDP Recent advances in linear integrated circuits	ABES Engineering College, Ghaziabad.	1 June, 2018
4.	Dr. Dinesh Kumar	Workshop on NAAC-SSR/NBA-SAR filling and preparedness for assessment	DTU, Delhi	21-23 May, 2018
5.	Dr. Sudipta Majumdar	Deliver lecture in FDP "Advance in Image Processing" Electronics Deptt. DTU April 2018.	DTU, Delhi	April, 2018
6.	Mr. Avinash Ratre	Raising Awareness on Plagiarism and Copyrights	DTU, Delhi	20 March, 2018
7.	Mr. Rajesh Rohilla	"NAAC SSR/NBA SAR-Preparedness and Assessment" training program	DTU, Delhi	21-23 May, 2018
8.	Dr. N. Jayanthi	International Conference on Recent Innovation and Trends in Engineering Technology and Research.	Poornima College of Engineering, Jaipur, India	23-24 Dec., 2017
		Deliver lecture in FDP "Advance in Image Processing and computer vision"	DTU, Delhi	April 2018
9.	Dr. Piyanka Jain	One day workshop on "Raising Awareness on Plagiarism and Copyrights"	DTU, Delhi	20 March 2018
		Attended and presented paper in DST sponsored "International	I.T.S College, Greater Noida	7-8 April 2017



S. No.	Name of Faculty	Details of Conference/Seminar/Symposia / Workshop/Guest Lecture	Venue	Dates
		conference in advancement in Energy Driven and Control (ICAEDC2017)”		
10.	Ms. Kriti Suneja	One day joint workshop on Patent Filing Procedure jointly conducted by RGNIPM, Nagpur and DTU	DTU, Delhi	28 May, 2018
		One day workshop on “Raising Awareness on Plagiarism and Copyrights”	DTU, Delhi	20 March, 2018
		One day workshop on Teaching Pedagogy	DTU, Delhi	7 April, 2018
11.	Dr. Poornima Mittal	2 <sup>nd</sup> Springer International Conference on Intelligent Communication, Control and Devices (ICICCD 2017)	University of Petroleum and Energy Studies, Dehradun	15-16 April, 2017
		One day workshop on Teaching Pedagogy	Academic Section, Delhi Technological University, Delhi	07 April, 2018
12.	Dr. J. Panda	5th International conference on New frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2017), IETE	Delhi	17 Sept., 2017
		ICAPAI 2017, 2 <sup>nd</sup> International Conference on Advanced Production & Industrial Engineering	DTU, Delhi	6-7 Oct, 2017
		1 <sup>st</sup> International Conference on New Frontiers in Engineering, Science and Technology (NFEST) 2018	DTU, Delhi	8-12 Jan., 2018
		One day Workshop on “Raising Awareness on Plagiarism & Copyrights”	DTU, Delhi	20 March, 2018
13.	Dr. Gurjit Kaur	One day workshop on Teaching Pedagogy	DTU, Delhi	07 April, 2018
14.	Mr. Deva Nand	International Conference on Materials, Applied Physics & Engineering (ICMAE-2018)	Indore, M.P.	3-4 June, 2018
		Fifth International Conference on "Signal Processing & Integrated Networks", SPIN 2018, IEEE	Amity University, NOIDA	22-23 Feb., 2018

#### 4.8.7 Participation of Faculty in Short Term Courses

S. No.	Name of faculty	Name of course attended	Venue	Date
1.	Mr. Rajesh Rohilla	TEQIP-III sponsored FDP on Advanced Pedagogy and Management Capacity Building training” for Engineering faculty and senior Administrators	Gangtok , Sikkim	21-25 June 2017
		GIAN course on “Intelligent Transportation Systems”	DTU, Delhi	27 Nov. – 1 Dec. 2017
2.	Dr. N. Jayanti	TEQIP-III sponsored Two Weeks Faculty Development Programme on “Advance manufacturing and operations management”	DTU, Delhi	03-14 July, 2017
		GIAN course on “Intelligent Transportation Systems”	DTU, Delhi	27 Nov.-1 Dec., 2017
		GIAN Course on “Emerging Trends in Advance Control System Applications in Intelligent Transport systems”	DTU, Delhi	04 – 08 Dec., 2017
		India UK Design Education Workshop- Future of Design Education	India Habitat Centre, New Delhi	29-31 Jan., 2018
		TEQIP-III sponsored one Week Faculty Development Programme on “Emerging trends in internet of things (IOT) and cyber security applications in smart grid”	DTU, Delhi	12 – 16 March, 2018
		Coordinated and attended one-day workshop on “Raising Awareness on Plagiarism and Copyrights”	DTU, Delhi	20 March, 2018
3.	Mr. Rajesh Birok	Precision Manufacturing and circular economy	DTU, Delhi	04-8 June, 2018
		Advanced manufacturing and operations management [AMOM 2017]	DTU, Delhi	03-14 July, 2017
		GIAN course on “Intelligent Transportation Systems”	DTU, Delhi	27 Nov. - 1 Dec. 2017

S. No.	Name of faculty	Name of course attended	Venue	Date
		Faculty Development programme on “Advances in Image processing and Computer Vision (Sponsored by TEQIP – III)	DTU, Delhi	02-06 April, 2018
4.	Dr. Malti Bansal	As a Co-Coordinator organized and Attended TEQIP-III sponsored one Week Short Term Training Program on “Advances in Image Processing and Computer Vision”	DTU, Delhi	02 – 06 April, 2018
		Raising Awareness on Plagiarism and Copyrights	DTU, Delhi	20 March, 2018
		TEQIP-III sponsored FDP on “Emerging trends in IOT and cyber security applications in Smart Grid”	DTU, Delhi	12-16 March, 2018
5.	Mr. Ajai Kumar Gautam	MHRD sponsored GIAN course on Intelligent Transportation Systems	DTU, Delhi	27 Nov- 1 Dec, 2017
		GIAN Course on “Emerging Trends in Advance Control System Applications in Intelligent Transport systems”	DTU, Delhi	04 – 08 Dec., 2017
6.	Dr. Priyanka Jain	TEQIP-III sponsored FDP on “Advances in Image Processing and Computer Vision”	DTU, Delhi	2-6 April, 2018
		TEQIP-III sponsored FDP on “Emerging trends in IOT and cyber security applications in Smart Grid”	DTU, Delhi	12-16 March, 2018
7.	Kriti Suneja	TEQIP-III sponsored FDP on “Feature Engineering for Pattern Recognition”	DTU, Delhi	1-4 May, 2018
		TEQIP-III sponsored FDP on “Advances in Research Methods and Teaching Pedagogy”	DTU, Delhi	18-29 June, 2018
		TEQIP-III sponsored FDP on “Emerging trends in IOT and cyber security applications in Smart Grid”	DTU, Delhi	12-16 March, 2018
		TEQIP-III sponsored FDP on “Advances in Image Processing and Computer Vision”	DTU, Delhi	2-6 April, 2018
		MHRD sponsored GIAN course on Intelligent Transportation Systems	DTU, Delhi	27 Nov- 1 Dec, 2017

S. No.	Name of faculty	Name of course attended	Venue	Date
		FDP on “GAME CHANGER” by Human Resource Development Centre, DTU	DTU, Delhi	4-5 June, 2018
8.	Sudipta Majumdar	Course on “Advances in Image Processing”	DTU, Delhi	2 - 6 April 2018
		GIAN course on “Intelligent Transportation Systems”	DTU, Delhi	27 Nov -1 Dec., 2017
9.	Mr. Avinash Ratre	TEQIP-III Sponsored FDP on “Emerging trends in Internet of Things (IOT) and Cyber Security applications in Smart Grid (EICS-2018)”	DTU, Delhi	12-16 March, 2018
		TEQIP-III Sponsored FDP on “Advances in Image Processing and Computer Vision”	DTU, Delhi	02-06 April, 2018
		TEQIP-III Sponsored FDP on “Feature Engineering for Pattern Recognition”	DTU, Delhi	01-05 May, 2018
		TEQIP-III Sponsored FDP on “Advances in Research Methods and Teaching Pedagogy”	DTU, Delhi	18-29 June, 2018
10.	Dr. Gurjit Kaur	GIAN course on “Video Surveillance (Sponsored by MHRD)”	DTU, Delhi	30 July – 03 Aug., 2018
11.	Mr. Deva Nand	FDP on “Advanced Manufacturing and Operations Management (AMOM-2017)”	DTU, Delhi	03-14 July, 2017
		GIAN course on “Intelligent Transportation Systems”	DTU, Delhi	27 Nov., - 01 Dec., 2017
		GIAN course on “Emerging Trends in Advance Control System Applications in Intelligent Transport Systems”	DTU, Delhi	4-8 Dec., 2017
		Workshop on “Future of Design Education”	IHC, New Delhi	29-31 Jan., 2018
		GIAN course on “Recent trends in Protection of Microgrids with high DER performance Issues, Challenges and Mitigation”	DTU, Delhi	12-16 Feb., 2018
		FDP course on “Emerging trends in Internet of Things (IOT) and Cyber Security applications in Smart Grid (ECIS-2018)”	DTU, Delhi	12-16 March, 2018
		Workshop on “Raising awareness on Plagiarism and Copyrights”	DTU, Delhi	20 March, 2018

S. No.	Name of faculty	Name of course attended	Venue	Date
		TEQIP-III sponsored FDP on “Feature Engineering for Pattern Recognition”	DTU, Delhi	1– 4 May, 2018
12.	Dr. J. Panda	TEQIP-III sponsored FDP on “Advances in Image Processing and Computer Vision”	DTU, Delhi	2-6 April, 2018
		MHRD sponsored GIAN course on Intelligent Transportation Systems	DTU, Delhi	27 Nov- 1 Dec, 2017
		Faculty Development Programme on Android App Development’	DTU, Delhi	18-22 Sept., 2017
13.	Mr. Piyush Tiwari	GIAN Course on Intelligent Transportation Systems	DTU, Delhi	27 Nov.– 1 Dec. 2017
14.	Anurag Chauhan	GIAN Course on Intelligent Transportation Systems	DTU, Delhi	27 Nov. - 1 Dec. 2017
		GIAN course on Video Surveillance	DTU, Delhi	30 July - 3 Aug., 2018

#### 4.8.8 Visitors to the Department

S. No.	Name	Affiliation	Purpose	Dates
1.	Prof. Manoj Singh Gaur	Director Indian Institute of Technology Jammu	Workshop on “Raising Awareness on Plagiarism and copyright”	20 March, 2018
2.	Prof. Miguel Angel Sotelo	Professor in the Department of Computer Engineering at the University of Alcala, Madrid, Spain	HRD Sponsored GIAN Course on Intelligent Transportation systems	27 Nov. – 01 Dec. 2017
3.	Dr. Animesh Mishra	Intel USA	Artificial intelligence based safety & Design practice in autonomous driving	04 Oct. 2017
4.	Mr. Naveen Kumar		Conduction of World Skills Competition	28 -30 June, 2017
5.	Prof A. K. Verma	University of Delhi	M. Tech Thesis evaluation	June, 2017
6.	Dr. Kamlesh Patel	University of Delhi	M. Tech Thesis evaluation	June, 2017
7.	Prof. Manisha Gupta	NSIT, Delhi	Ph. D. JRF to SRF evaluation.	Sept., 2017

S. No.	Name	Affiliation	Purpose	Dates
8.	Prof. S.D. Joshi	IIT, Delhi	Ph. D. SRC	Nov., 2017
9.	Prof. M. T. Beg	Jamia Milia Islamia University, Delhi	Pre Ph. D. Evaluation	April, 2018

#### 4.8.9 Conference/Seminar/Symposia/Workshops Organized by the Department

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Dr. S. Indu, Dr. N.S. Raghav	GIAN Course on “Intelligent Transportation System”	DTU, Delhi	27 Nov – 1 Dec., 2017
2.	Prof. S. Indu, Mr. Deva Nand, Dr. N. Jayanthi	“Engineering Research Activities – Various challenges and Solutions”	DTU, Delhi	24 April, 2018
3.	Prof. Rajeshwari Pandey	One Day Workshop on Raising Awareness on Plagiarism and Copyrights	DTU, Delhi	20 March, 2018
		Two days workshop on Cadence Virtuoso	DTU, Delhi	4-5 June, 2018
4.	Dr. S. Indu	One day workshop on “Raising Awareness on Plagiarism and copyrights” on 20th March 2018	DTU, Delhi	20 March, 2018

#### 4.8.10 Important Professional Affiliations:

S. No.	Name of Faculty	Professional Society Membership
1.	Dr. S.Indu	Senior Member IEEE 80364919 Life Member ISTE LM 31640 Life Member IETE M150488 Life Member IUPRAI L046
2.	Dr. Rajeshwari Pandey	Member IEEE, USA Life Member IETE Life Member ISTE
3.	Dr. Neeta Pandey	Senior Member IEEE Affinity group member WIE – IEEE Life member ISTE
4.	Dr. Dinesh Kumar	Life Member ISTE, Life Member CSI
5.	Dr. Rajesh Rohilla	Member, IEEE
6.	Dr. Poornima Mittal	Member IEEE Membership No – 92069529. Life Member, IE, Membership No – A5378865 Life Member International Association of Engineers IAENG-115708 Life member, ISTE, LM-51165

## 4.9 Department of Electrical Engineering

**Academic Staff: 36; Students Admitted: UG- 241; PG- 42; Ph.D-17; Publications: Journal Papers- 40, Conference/ Symp. 31**

### 4.9.1 Salient Features:

The Department of Electrical Engineering has grown significantly since its inception in 1941. The year 2016 marked the 75<sup>th</sup> year of Excellence (Platinum Jubilee) for both the university and the department in academic, research and innovation. The goal of the department is to provide quality education at undergraduate and postgraduate levels and to undertake cutting edge research in various areas of Electrical Engineering. The department also aims to develop active collaboration with various industries in the power sector. The department has earned itself a very good reputation in the National Capital Region of Delhi. The graduates of the department are occupying important positions in both government as well as corporate sector with many of them having joined programs of higher studies in India and abroad. At the post graduate level, the department is offering two M. Tech. programmes in Control and Instrumentation and Power Systems. In addition to the above, the department offers regular Ph. D programmes in various areas of specialization in Electrical Engineering. These include Power quality, Renewable Energy Sources, Smart grids, Power System Operation and Control, Power System Dynamics and Stability, Flexible AC Transmission (FACTS), HVDC, Electric Drives, Hybrid Electric Vehicles, Intelligent control and Optimization, the department currently has 17 laboratories equipped with state-of-the art equipment and latest version of different software platforms. The department also organizes National and International Conferences, Faculty Development Programmes, Workshops and Expert Lectures from time to time. The Electrical Engineering programme was accorded NBA Accreditation for 03 years, in April 2017.

### 4.9.2 Academic Programme

S.No.	Name of academic Program	Intake	Duration
1.	B. Tech. in Electrical Engineering	242	4 years
2.	B. Tech. (Evening) in Electrical Engineering	60	4 years
3.	M.Tech. in Control and Instrumentation	25	2 years
4.	M.Tech. in Power System	25	2 years
5.	Ph.D in Electrical Engineering	APR	3 years minimum

### 4.9.3 Academic Staff

#### Professors 16

Name	Qualification
Dr. Madhusudan Singh, Head of the Department	B.Sc (Engg.), ME, Ph.D Control & Instrumentation
Dr. NarendraKumar (I)	B.Sc (Engg.), M.Sc (Engg.), PhD Specialization: Power System & Drives
Dr. Uma Nangia	BE, ME, Ph.D Power Systems
Dr. Pragati Kumar	M.Tech, Ph.D Control & Instrumentation
Dr. Vishal Verma	M.Tech, Ph.D Power Electronics
Dr. Narendra Kumar (II)	BE, ME, Ph.D Instrumentation, Control & Power Electronics Applications,
Dr. Suman Bhowmick	B.E.(Hons.), M.E., Ph.D (Power Systems),
Dr. Bharat Bhushan	Ph.D, M.Tech, Control & Instrumentation,
Dr. Rachna Garg	M.Tech, Ph.D Control & Instrumentation
Dr. S.T. Nagrajan	B.Sc (Engg.), BE, ME, Ph.D Power system, High Voltage Engineering,
Dr. Alka Singh	BE, M. Tech, Ph.D Power System,
Dr. Mukhtiar Singh	Ph.D Electrical Engineering
Dr. Dheeraj Joshi	BE, ME, Ph.D Power Electronics, Electric Drives, Renewable Energy Systems,
Dr. Madan Mohan Tripathi	B. Tech, Ph.D, Restructuring power systems, Artificial Intelligence, Embedded System
Dr. J.N.Rai	M.Tech, Ph.D
Dr. N.K. Jain, (Re-employed)	B.Sc (Engg.), M.Sc (Engg), Ph.D Power Systems,

#### Associate Professors: 08

Name	Qualification
Mr. Neeraj Kumar Bhagat	B.Sc (Engg.), M.Tech Control Systems
Mr. Sudarshan Kumar Babu Valluru	B. Tech, M.Tech Control & Instrumentation
Mr. Ram Bhagat	B.Tech, ME Control & Instrumentation,
Dr. Priya Mahajan,	Ph.D,ME Power System,
Mr. Duli Chand Meena,	B.Tech, M.Tech Power Systems,
Dr. Mini Sreejeth K.,	Ph.D ME Electrical Machines
Dr. Mohammad Rizwan,	B.Tech, M.Tech, Ph.D, PDF Power System
Dr. Vinod Kumar Yadav,	B.Tech, M.Tech, Ph.D, Power System



**Assistant Professors: 12**

Name	Qualification
Mr. Prem Prakash	BE, M. Tech Engg. Systems
Ms. Bhavnesh Jaint	BE, ME Electrical Engg.
Mr. Ashish Rajeshwar Kulkarni	ME Control Systems, Intelligent Transportation Systems, Microcontrollers & Embedded Systems, Robotics,
Mr. Aniruddha Barun Kumar Bhattacharya	BE, M.Tech.
Mr. Ramjee Lal Meena (On Lien under QIP)	BE, M.Tech Power Quality,
Ms. Garima,	BE, M.Tech Analog, VLSI.
Sikandar Ali Khan	B. Tech., M. Tech. Electrical Machines, Electrical Drives, Power System
Himanshu	B.E, M.Tech Power Electronics, Electrical Machines, Electrical Drives, Control System
Kuldeep Singh	B.Tech, M.Tech Power System
Ankita Arora	B.Tech, M. Tech, Renewable Energy Sources, Power Electronics, Electrical Machines, Artificial Intelligence Techniques, Control Systems
Saurabh Mishra	B.E, M.Tech Electrical Drives
Anup Kumar Mandpura	B.Tech, M.Tech Cooperative Communication Systems

**4.9.4 Honors and Awards to Faculty Members**

Name of Faculty	Title
Dr. M. Rizwan	Post doctoral fellowship from Virginia Tech, USA Raman Fellowship
Prof. S. T. Nagrajan	Post Doctoral Fellowship from Washington State University, USA Fullbright scholarship Program
Prof. M. M. Tripathi	Commendable Research Award for Excellence in Research by DTU, Delhi on March 21, 2018
	Expert member of R & D Sectoral Project Appraisal Committee of Ministry of New and Renewal Energy, Govt. of India to evaluate projects on Wind Energy development.
Prof. Mukhtiar Singh	Premier Research Award for Excellence in Research by DTU, Delhi on March 21, 2018

**4.9.5 Visit of Faculty Members to Other Institutions**

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Prof. Narendra Kumar-I	Coal India Ltd. Laxmi Nagar New Delhi	Expert, selection of Management Trainees, Coal India Ltd.	31 Jul. - 5 Aug., 2017
		BVP, New Delhi	Subject Expert for the selection committee of	20 June, 2017

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
		HMR Institute of Technology, GGSIPU, Delhi	faculty	25 July, 2017
		GGSIPU, Delhi	Member, Joint Assessment Committee	06-10 June, 2017
2.	Prof. Rachna Garg	Poornima Univ., Jaipur	Delivered Technical talks at, "Overview of Microgrids: Issues and challenges"	1 April, 2017
		PES General Meeting, Chicago	Participated as a panelist in panel discussion delivered a talk on "Regulating the future of Microgrids: An international perspective"	17 July, 2017
3.	Prof. M. M. Tripathi	FDP on Analog & Embedded Systems at ABES IT, Ghaziabad	Guest Speaker	20 July 2017
		TEQIP-III sponsored FDP on Recent Advances and Challenges in Power System; Energy for Sustainable Growth	Key Note Speaker	Nov. 2017
		FDP on Case Writing and Teaching at GNIOT MBA Institute, Greater Noida	Key Note Speaker	20 March 2018
		IEEE International Conference on Power Energy, Environment & Intelligent Control (PEEIC2018) at GLBajaj Institute of Technology & Management Greater Noida	Session Chair	13 April 2018

#### 4.9.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Prof. S. Bhowmick Mr. Kuldeep Singh	GIAN Course titled "SMART Power-Flow Controller for Smart Grid Applications"	DTU, Delhi	18-23 Dec, 2017

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
2.	Prof. Rachna Garg Dr. PriyaMahajan	GIAN Course titled “Recent Trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation”	DTU, Delhi	12-15 Feb, 2018
3.	Prof. Rachna Garg Dr. Priya Mahajan	GIAN Course titled “Recent Trends in Power System Reliability Evaluation: Models, Statistical Methods and Applications”	DTU, Delhi	9-13 Oct, 2017
4.	Mr. A. R. Kulkarni	GIAN Course titled “Emerging Trends in Advance Control System Applications in Intelligent Transport Systems”	DTU, Delhi	4-8 Dec, 2017
5.	Dr. Mini Sreejeth Prof. Rachana Garg	GIAN Course titled “Emerging Cutting Edge Technologies in Advanced Electrical Machines and Drives: Design & Performance Issues, Fault Diagnosis, Failure Prognosis and Mitigation”	DTU, Delhi	6-10 Nov, 2017
		One day workshop on, “Teaching Pedagogy”	DTU, Delhi	7 April, 2018
6.	Prof. M.M.Tripathi	STTP on “Health, Human Values, Ethics and Empowerment”	DTU, Delhi	13 – 18 April, 2018.
		FDP on “Emerging Trends in Internet Things (IOT) and Cyber Security Applications in Smart Grids (EICS-2018)”	DTU, Delhi	12 –16 March, 2018

#### 4.9.7 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Dr. Mini Sreejeth	GIAN course on " Recent Trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation "	DTU, Delhi	12-15 Feb, 2018

S. No.	Name of Faculty	Name of Courses	Place	Dates
		GIAN course on "Recent Trends in Power System Reliability Evaluation: Models, Statistical Methods and Applications "	DTU, Delhi	9-13 Oct, 2017
		GIAN Course on "Smart Power Flow Controller for Smart Grid Applications"	DTU, Delhi	18-23 Oct, 2017
		One-week TEQIP-III sponsored STTP on "Health, Human Values, Ethics and Empowerment"	DTU, Delhi	13 – 18 April, 2018.
		One-week TEQIP-III sponsored FDP on "Emerging Trends in Internet Things (IOT) and Cyber Security Applications in Smart Grids (EICS-2018)"	DTU, Delhi	12 – 16 March, 2018
2.	Prof. M. M. Tripathi	TEQIP-III sponsored one Week Faculty Development Programme on "Emerging trends in internet of things (IOT) and cyber security applications in smart grid"	DTU, Delhi	12 – 16 March, 2018
		TEQIP-III sponsored one-week STTP on "Health, Human values, Ethics and Empowerment"	DTU, Delhi	13-18 April, 2018
3.	Ms. Ankita Arora	One day workshop on, "Teaching Pedagogy"	DTU, Delhi	7 April, 2018
		One day orientation program for newly joined Assistant Professors	DTU, Delhi	01 Sept., 2017
4.	Mr. Saurabh Mishra	One day workshop on, "Teaching Pedagogy"	DTU, Delhi	7 April, 2018
		One day orientation program for newly joined Assistant Professors	DTU, Delhi	01 Sep., 2017
5.	Mr. Anoop Mandpura	One day workshop on, "Teaching Pedagogy"	DTU, Delhi	7 April, 2018
		One day orientation program for newly joined Assistant Professors	DTU, Delhi	01 Sept., 2017
6.	Mr. Sikandar	One day workshop on, "Teaching Pedagogy"	DTU, Delhi	7 April, 2018
		One day orientation program for newly joined Assistant Professors	DTU, Delhi	01 Sept., 2017
7.	Mr. Kuldeep	One day workshop on, "Teaching	DTU,	7 April,

S. No.	Name of Faculty	Name of Courses	Place	Dates
		Pedagogy”	Delhi	2018
		One day orientation program for newly joined Assistant Professors	DTU, Delhi	01 Sept., 2017
8.	Mr. Himanshu	One day workshop on, “Teaching Pedagogy”	DTU, Delhi	7 April, 2018
		One day orientation program for newly joined Assistant Professors	DTU, Delhi	01 Sept., 2017

#### 4.9.8 Visitors to the Department

S. No.	Name	Affiliation	Purpose	Dates
1.	Prof. Chanan Singh	Texas A & M University, USA	Expert lecture under GIAN Course on “Recent Trends in Power System Reliability Evaluation: Models, Statistical Methods and Applications	9-13 Oct., 2017
2.	Prof. Elias G.Strangas	Michigan State University, USA	Expert lecture under GIAN Course on “Emerging Cutting Edge Technologies in Advanced Electrical Machines and Drives: Design & Performance Issues, Fault Diagnosis, Failure Prognosis and Mitigation”	6-10 Nov., 2017
3.	Prof. Markos Papageorgiou	Technical University of Crete, Greece	Expert lecture under GIAN Course on “Emerging Trends in Advance Control System Applications in Intelligent Transport Systems”	4-8 Dec., 2017
4.	Dr. Kalyan Sen	Sen Engineering Solutions, USA	Expert lecture under GIAN Course on “Smart Power Flow Controller for Smart Grid Applications”	18-23 Dec., 2017
5.	Dr. Mukesh Nagpal	University of British Columbia, Canada	GIAN Course titled “Recent Trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation”	12-15 Feb., 2018

#### 4.9.9 Conference / Seminar / Symposia / Workshops / Short Term Courses Organized by the Department

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Prof. M. M. Tripathi	TEQIP-III sponsored one Week Faculty Development Programme	DTU, Delhi	12 – 16 March, 2018

	Ms. BhaveshJaint Ms. Saurabh Mishra	on “Emerging trends in internet of things (IOT) and cyber security applications in smart grid”		
2.	Prof. Rachna Garg Dr. Priya Mahajan	GIAN Course titled “Recent Trends in Protection of Microgrids with high DER penetration: Issues, Challenges and Mitigation”	DTU, Delhi	12-15 Feb, 2018
3.	Prof. Rachna Garg Dr. Priya Mahajan	GIAN Course titled “Recent Trends in Power System Reliability Evaluation: Models, Statistical Methods and Applications”	DTU, Delhi	9-13 Oct, 2017
4.	Prof. S. Bhowmick Mr. Kuldeep Singh	GIAN Course titled “SMART Power-Flow Controller for Smart Grid Applications”	DTU, Delhi	18-23 Dec, 2017
5.	Mr. A. R. Kulkarni	GIAN Course titled “Emerging Trends in Advance Control System Applications in Intelligent Transport Systems”	DTU, Delhi	4-8 Dec, 2017
6.	Dr. Mini Sreejeth	GIAN Course on “Emerging Cutting Edge Technologies in Advanced Electrical Machines and Drives: Design & Performance Issues, Fault Diagnosis, Failure Prognosis and Mitigation”	DTU, Delhi	6-10 Nov, 2017

#### 4.9.10 Sponsored Research Projects

##### (i) Completed Sponsored Research Projects

S. No.	Principal Investigator	Title of Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Dr. Alka Singh	Modelling and Control of Power Electronic based Controllers for Interfacing Renewable Energy Systems to Utility Grid	DST	20.40Lakhs

**(ii) Continuing Sponsored Research Projects**

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Prof. Vishal Verma	INDO – UK Industrial Research Project - Air Hybrid Regenerative Braking System for Buses and Vehicle under Global Innovative and Technology Alliance (GITA)	Ministry of Electronics and IT, GOI (Through GITA)	300.00 Lakhs
		INDIA – CANADA Industrial Research Project – Design and Manufacturing of Artificial Intelligence based Electronic Metering and Monitoring System for Indian Power Distribution under Global Innovative and Technology Alliance (GITA)	Ministry of Electronics and IT, GOI (Through GITA)	300.00 Lakhs
2.	Dr. Alka Singh	Design, development and testing of control and synchronization of power electronics based converters with renewable energy sources	DST	68.87 Lakhs

**(iii) Consultancy Projects**

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Prof. Madhusudan Singh and Mr. A.B.K. Bhattacharya	Additional construction of 7000 classrooms at various Delhi govt. schools	PWD, Delhi	700.00 crores

**4.9.11 Important Professional Affiliations:**

Name of Faculty	Name of Professional Society
Prof. Madhusudan Singh	Fellow, IE (India) Life Member, ISTE, Delhi Member, IEEE, USA
Prof. Vishal Verma	Member, IEEE, USA
Dr. Alka Singh	Member, IEEE, USA
Dr. Dheeraj Joshi	Member, IEEE, USA
Dr. Rachana Garg	Life Member, ISTE, Delhi Member, IEEE, USA

<b>Dr. Mukhtiar Singh</b>	Member, IEEE, USA
<b>Dr. M. M. Tripathi</b>	Life Member PSSI, India Senior Member IEEE, USA Member IETE, India
<b>Dr. Rizwan</b>	Member, IEEE, USA
<b>Dr. PriyaMahajan</b>	Member, IEEE, USA
<b>Dr. Mini Sreejeth</b>	Member, IEEE, USA



## 4.10 Department of Environmental Engineering

**Academic Staff: 08; Students Admitted: UG- 58; PG- 19; Ph.D -01; Publications: Journal Papers- 37, Conference/ Symp. -15**

### 4.10.1 Salient Features

The Department of Environmental Engineering was created in February-2012. The Department at present is offering B. Tech, M. Tech and Ph. D programs. The Department provides opportunity to working engineers for their academic upgradation by offering part time PG course. Department is actively involved in Research and Development. Department has well established laboratories in all the areas of Environmental Engineering.

### 4.10.2 Academic Programme

S.No.	Name of academic Program	Intake	Duration
1	BTech in Environmental Engineering	62	4 years
2	M.Tech in Environmental Engineering	25	2 years
3	PhD in Environmental Engineering	APR	3 years minimum

### 4.10.3 Academic Staff

#### Professor 02

Name	Qualifications
Prof. S. K. Singh, Head of the Department	B.E., M. Tech., Ph. D., Areas of interest: Solid waste processing, Wastewater treatment designs, Water treatment designs, Water quality modeling, Solar detoxification EIA & Auditing
Dr. Anubha Mandal	B.Tech (Chem. Engg, Hons), M. Tech., Ph.D Areas of interest: Air Pollution, Indoor air pollution, Occupational health.

#### Assistant Professors 05

Name	Qualifications
Dr. Anil Kumar Haritash	M.Sc., M. Tech., Ph.D, Areas of interest: PAHs, Water Quality Assessment, Environmental Microbiology, Bioremediation, Constructed Wetlands
Mrs. Geeta Singh	B. Tech., M. Tech., Ph.D (Pursuing) Areas of interest: Water and Wastewater Engineering, Hydrology, Environmental Hydraulics, Water Resources, Groundwater,
Dr. Rajeev Kumar Mishra	M.Sc., M. Tech., PhD, Areas of interest: Environmental implications of urban transport systems, Urban air pollution analysis & modeling, Traffic noise pollution modeling, Acoustics & barrier designing,
Mrs. Lovleen Gupta	B.E., M.S., Areas of interest: GHG emissions, Human Health Risk Assessment, Treatment of contaminants in surface water and groundwater, Solid waste management
Sh. Anunay Gour	B.E., M.E., PhD (Pursuing), AMIE, Areas of interest: Environmental Engineering, Water & Wastewater Engineering, Air Pollution, Industrial Waste Management, Environmental Impact Assessment, System Simulation & Modelling

## 4.10.4 Visit of Faculty members to other Institutions

S. No.	Name of Faculty	Name of Institute/Organization Visited	Purpose of Visit	Dates
1.	Prof. S. K. Singh	JNTU, Hyderabad	NAAC Accreditation of the JNTU	17-19 Aug., 2017
		Govt. Engg College Kozhikode	NBA Accreditation of the JNTU	25-27 Aug., 2017
2.	Dr. (Mrs.) Anubha Mandal	Bureau of Indian Standards, BSZ Marg, Delhi	Formulation of Indian Standards CHD35 & CHD36	May-June, 2017
3.	Dr. A. K. Haritash	National Conference on 'Water-Technological Innovations & Solutions'	Expert lecture on Sustainable Management of drinking Water	23 March, 2018
		Ambedkar University, Delhi	Invited lecture on "Noise Pollution: A Dangerous Din in Megacities" in Ambedkar University, Delhi.	26 March, 2018
4.	Dr. Rajeev Kumar Mishra	Joint Project of IIT BHU and IIT Roorkee under MHRD IMPRINT Programme	Invited as resource person in a joint project on Propagation and Mitigation Model of Mixed Traffic Noise For Planning of Mid-Sized Indian Cities in Department of Civil Engineering, IIT BHU.	13-14 Nov., 2017

## 4.10.5 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of Faculty	Organizing Secretary	Details of Conference/Seminar/Symposia/Workshop/Guest Lecture	Venue	Dates
1.	Prof. S. K. Singh	Swami Shraddhanand College and Ministry of Earth Sciences	Chief Guest at National Seminar on Spatial Technology, Disaster Preparedness: Knowledge for Sustainability	Delhi	29-30 Aug., 2017
2.	Dr. A. K. Haritash	Manav Rachna International Instt. of Research & Studies, Faridabad	National Conference on 'Water-Technological Innovations & Solutions'	Faridabad	23 March, 2018

S. No.	Name of Faculty	Organizing Secretary	Details of Conference/Seminar/Symposia/Workshop/Guest Lecture	Venue	Dates
		TERI School of Advanced Studies Supported by FICCI, Ecoinvent, Quantis, and SRI Project	Swiss State Secretariat of Economic Affairs sponsored Workshop on Environmental Sustainability through Science-based tools and approaches: getting started with Life Cycle Assessment	TERI-SAS, Delhi	15 Feb, 2018
		Faculty of Allied Health Sciences, SGT University, Gurugram	Air Pollution: Health Effects & Control (Invited Lecture)	SGT University Gurugram	10 Feb., 2018
		Deptt. of ENE, DTU	International Seminar on Sustainable Technologies for Environmental Management	DTU, Delhi	27-28 March, 2018

#### 4.10.6 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Ms. Geeta Singh	Advanced Manufacturing and Operations Management (AMOM 2017)	DTU, Delhi	03-14 July, 2017
2.	Dr. Rajeev Kumar Mishra	One Week FDP under TEQIP-III on “Emerging Trends in Internet of Things (IOT) and Cyber Security Applications in Smart Grid (EICS-2018)”.	DTU, Delhi	12-16 March, 2018
		One day National Workshop on “Recent Advances in Alternative Energy Sources”	DTU, Delhi	29 Jan., 2018.
3.	Mr. Anunay Gour Ashok Kumar	Advanced Manufacturing and Operations Management (AMOM 2017)	DTU, Delhi	03-14 July, 2017

#### 4.10.7 Conference/ Seminar/ Symposia/ Workshops/ Short Term Courses Organized by the Department:

- Dr. Anil Kumar Haritash (Coordinator) and Dr. Rajeev Kumar Mishra (Co-coordinator) TEQIP Sponsored Two Days International Seminar on “Sustainable Technologies for Environmental Management” from March 27-28, 2018 in Department of Environmental Engineering at Delhi Technological University, Delhi.

## 4.11 Department of Humanities

**Academic Staff: 04; Students Admitted: Ph.D 06; Publications: Journal Papers- 02, Conference/ Symp. 01; Book Chapter -03**

### 4.11.1 Salient Features

The department of Humanities was established in the year 1941 with a view to impart necessary soft skills to the graduating engineering students. Initially courses in English, Economics and Accountancy were taught to the students. With the growing impetus on new courses like Econometrics, Gender and Technology and timely revision of syllabi of subjects like Engineering Economics and Communication Skills, a crossover between technical and non-technical aspects of learning is facilitated. The main objective is to give the students a comprehensive idea of the competition and the emerging work cultures to make them confident and market ready. To sensitize students towards technological need of poor and deprived for inclusive growth, B. Tech students of all the branches are compulsorily asked to visit slum and prepare an assignment on the problems of slum and how knowledge of their branch of engineering can be used to improve life at slum.

In the current scenario we need engineers who can develop technologies that are sustainable, user friendly, effective and adaptable with respect to changing social and cultural realities. The humanities department is therefore actively engaged in the process of research work, courses and finishing lectures which are organized throughout the year for the benefit of students and teacher alike.

### 4.11.2 Academic Programme

S.No.	Name of academic Program	Intake	Duration
1.	Ph.D Degree Program	APR	3 years minimum

### 4.11.3 Academic Staff

#### Professor: 02

Name	Qualification
Dr. Seema Singh, Head of the Department	M.A, Ph.D Economics
Mr. Nand Kumar	M.A, Economics

#### Associate Professor: 01

Name	Qualification
Ms. Saroj Bala	M.Phil English

#### Assistant Professors: 01

Name	Qualification
Ms. Parinita Sinha	M.A., M.Phil

#### 4.11.4 Honors and Awards to Faculty Members

S. No.	Name of Faculty	Area
1.	Dr. Nand Kumar	Editor, Second International Conference on Advanced Production and Industry Engineering
		Editor, International Conference of Advanced Research and Innovation (ICARI 2018)

#### 4.11.5 Visit of Faculty Members to Other Institutions

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Dr. Nand Kumar	NIT, Delhi	SRC Expert	April, 2018
		Zakir Husain Delhi College (Evening), Delhi University	Invited as a resource person for a talk on OLS, problems of auto-correlation and multicollinearity	19 Feb., 2018
2.	Ms. Saroj Bala	Shaheed Mangal Singh Pandey Govt. Girls PG College, Meerut	Expert Lecture	21 Feb., 2018
		Kasturba Institute of Technology, Delhi	Expert Lecture	20 Feb., 2018
		Bhubaneshwar, Odisha	Expert for Interviews	25-26 May, 2017
3.	Mrs. Parinita Sinha	Bhubaneshwar, Odisha	Expert for Interviews	25-26 May 2017

#### 4.11.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of the participants	Conference/Seminar/ Symposia / Workshop/Guest Lecture	Details	Dates
1.	Dr. Seema Singh	WED'17, Dalian, China	Developing Covalent Bond between Social Responsibility of University-Industry-Government for Inclusive Growth in India	27 - 29, Sept. 2017
		ICWES' 17, Delhi	Triple Helix of University-Industry-Government for Poverty Alleviation in India	5-7 Oct., 2017

S. No.	Name of the participants	Conference/Seminar/ Symposia / Workshop/Guest Lecture	Details	Dates
		International Conference on Globalization: Prospects and Opportunities for a New India, ITS, Ghaziabad	Globalization, Engineering Entrepreneurship and Indian Continuing Engineering Education	7 April, 2018
		17 <sup>th</sup> International Conference of Women Engineer and Scientist, Delhi	Women Engineer in India: An Attentive Approach for their Retention in Education and Employment	5-7 Oct., 2017
		17 <sup>th</sup> International Conference of Women Engineer and Scientist, Delhi	Vice President of WISE-India and Head, Technical Committee of the ICWES	5-7 Oct., 2017
		59 <sup>th</sup> Annual Conference of the Indian Society of Labour Economics at the Gulati Institute of Finance and Taxation, Kerala	Officiating Secretary	16-18 Dec., 2017
2.	Ms. Saroj Bala	International Conference on Future of Humanities, BHU	Future of humanities in engineering education	30-31 March, 2018
		The International conference on English in Multicultural Classrooms: Perspectives, Prospects and Possibilities, Jaipur	English : language of dominance and Resistance	30-31 Oct., 2017
		International conference on English Language Acquisition: Western Theories and Eastern Practices, Kerala	Impact of Technology on Teacher Student relationship	29 <sup>th</sup> June - 1 <sup>st</sup> July, 2017
		National Seminar on Globalisation and its impact on Indian Culture and Social Values, Gautambudh Nagar	Impact of Globalisation on Indian Languages	2017-18
		National Seminar on Women's Health in Indian Society: Challenges and Resolution held Meerut, UP	Mental Health of Urban Indian Women	2017-18
		Workshop on Emerging Trends for English Language & Communication Skills: A Practical Approach	Oxford University Press, Delhi	2017-18

3.	Dr. Nand Kumar	GLOGIFT 17, International Conference, Delhi Techonological University, Delhi	Impact of Components of Globalisation on the economic growth of India; An Empirical Study	11-13 Dec., 2017
		International Conference on Advanced Production and Industrial Engineering, Delhi Techonological University	Impact of Globalisation on the economic growth of India	6-7 Oct., 2017
		VINC'18, National conference at VIPS, Delhi	Impact of Global Financial Crisis on the exports of Indian Economy (Gravity Model Approach)	14- 15, March 2018
		NAAC - SSR/NBA-SAR Filling & Preparedness for Assessment	DTU, Delhi	21-23 May, 2018

#### 4.11.7 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place	Dates
1.	Dr. Nand Kumar	TEQIP - III Sponsored FDP on Advances in Image Processing and Computer Vision	DTU, Delhi	2-6 April, 2018
		TEQIP - III Sponsored FDP on Advances in Research Methods and Teaching Pedagogy	DTU, Delhi	18 - 29 June, 2018
2.	Ms. Saroj Bala	Institutional Reforms and Management of Change	NITTTR, Bhopal	10-14 July, 2017

#### 4.11.8 Continuing Sponsored Research Projects

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of `)
1.	Dr. Seema Singh	Indian Continuing Engineering Education System in context of Globalisation	AICTE	6.8 lakh

#### 4.11.9 Important Professional Affiliations

<b>Dr. Seema Singh</b>	<ul style="list-style-type: none"> <li>• Graduate Women International</li> <li>• Indian Economic Association</li> <li>• Indian Society of Labour Economics</li> <li>• Indian Association for Woman Studies</li> <li>• Indian Industrial Relation Association</li> <li>• Comparative Society of India</li> <li>• Women in Science and Engineering (WISE)- India</li> <li>• University Women Association of Delhi</li> <li>• Forum for Global Knowledge Sharing</li> </ul>
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## 4.12 Department of Information Technology

**Academic Staff: 08; Students Admitted: UG- 121; PG- 19; Ph.D 09; Publications: Journal Papers- 18; Conference/ Symp. 15**

### 4.12.1 Salient Features:

The Department of Information Technology endeavors to provide the thrill of a corporate R&D environment with a planned focus on industrially relevant projects and technology incubation. The curriculum defined, lays greater emphasis on design principles and development of system software for operating systems, Database management systems, data mining, computer graphics and networks. Department has developed state-of-the-art laboratories in the various fields of Information Technology-Computer Networks Lab, Web Engineering Lab, Programming Lab, Information and Security Lab, Biometric Research Lab and many others. Currently the department offers Doctorate, post-graduate & under-graduate courses in fields of Computer Engineering; Information Technology & Software Engineering & Technology. The department also has an active student chapter of Computer Society of India (CSI) and contributes significantly in professional activities undertaken by IEEE and IET student's chapters.

### 4.12.2 Academic Programme

S.No.	Name of academic Program	Intake	Duration
1.	B.Tech in Information Technology	122	4 years
2.	M.Tech in Informational System	25	2 years
3.	Ph.D	APR	3 years minimum

### 4.12.3 Academic Staff

#### Professors: 01

Name	Qualification
Dr. Kapil Sharma, Head of the Department	B.E., M.Tech, Ph.D Software Engineering, Optimization, Soft Computing Techniques

#### Associate Professors:02

Name	Qualification
Dr. Dinesh K. Vishwakarma	B.Tech, M.Tech, Ph.D, Computer Vision, Human-Computer Interaction, Human Pose and Gesture Analysis, Machine Learning, Image Quality Improvement, Artificial Intelligence
Dr. Seba Susan	P.h.D, Computer Vision, Machine Learning, Data Mining, Pattern Recognition, Image Processing, Fuzzy-Neural Networks, Soft Computing



**Assistant Professors: 05**

Name	Qualification
Mrs. Ritu Aggarwal	M.Tech Information Security, Digital Forensics
Mrs. Anamika Chauhan	B.Tech, M.Tech, Sensor networks, Mobile and Vehicular Ad-hoc Networks
Mrs. Priyanka Meel	B.Tech, M.Tech, Artificial Intelligence, Robotics, Optimization Algorithms, Graph Theory
Mr. Jasraj Meena	B.Tech, M.Tech, Parallel and Distributed Computing, Cloud Computing, Workflow Scheduling
Ms. Geetanjali Bhola (contractual)	M.Tech, Image Processing, Graphics, OCR, Android & Database Management

**4.12.4 Honors and Awards to Faculty Members**

S. No.	Name of Faculty	Award/ Recognition	Awarding Agency/ Venue
1.	Prof. Kapil Sharma	Judge, Hackathon-2018, 30-31 March 2018	Yashwantrao Chavan College of Engineering, Nagpur
2.	Dr. Dinesh Vishwakarma	DTU Premier Research Excellence Award 2017	DTU, Delhi
3.	Dr. Seba Susan	Certificate for Top 241 performers out of 5308 award in ICT for Education & Pedagogy program 2017	NMEICT, IIT Bombay
		DTU Commendable Research Excellence Award 2017	DTU, Delhi

**4.12.5 Visit of Faculty Members to Other Institutions**

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit	Dates
1.	Mr. Jasraj Meena	ABVIITM, Gwalior	Judge in the 4 <sup>th</sup> National Technical Fair	19-20 Jan., 2018
2.	Dr. Dinesh Vishwakarma	JSS Academy of Technical Education, Noida.	Delivered an Expert Talk on "Identification of Human Activity in Videos" in FDP on Signal Processing and Its Applications	24 April, 2018
3.	Prof. Kapil Sharma	Yashwantrao Chavan College of Engineering, Nagpur	Judge in Hackathon-2018	30-31 March, 2018

#### 4.12.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of the participants	Conference/Seminar/Symposia / Workshop/Guest Lecture	Details	Dates
1.	Dr. Seba Susan	10 <sup>th</sup> International Conference on Contemporary Computing (IC3)	Measuring the randomness of speech cues for emotion recognition	Aug. 2017
2.	Mr. Jasraj Meena	2 <sup>nd</sup> International Conference on Sustainable Computing Techniques in Engineering, Management and Science, Goa	A Systematic Review on Effective Workflow Scheduling Algorithms in Cloud under Deadline Constraint	2017
		4 <sup>th</sup> IEEE International Conference on Electronics and Communication Systems (ICECS), 2017, Coimbatore	Secure & Efficient Deligation of System of Linear Equation to a Malicious Cloud Server	Dec. 2017
		International Conference on Smart Technologies in Computer and Communication (SmartTech-2017)	Data Confidentiality and Integrity Preserving Outsourcing Algorithm for System of Linear Equation to a Malicious Cloud Server	Aug. 2017
		National Level Workshop (FDP) on Machine Learning A Practical Approach	Shaheed sukhdev college of business studies University of Delhi	Feb. 2018
		Short Term Training Program (STTP) on Health, Human Values, Ethics and Empowerment	DTU, Delhi	April 2018
		TEQIP-III Sponsored One Week Faculty Development Program on Feature Engineering for Pattern Recognition	DTU, Delhi	May 2018
		3rd international Conference on Advances in Internet of Things and Connected Technologies (ICIoTCT) 2018	MNIT, Jaipur	March 2018

S. No.	Name of the participants	Conference/Seminar/ Symposia / Workshop/Guest Lecture	Details	Dates
3.	Ms. Priyanka Meel	Seminar on “Cyber Security Challenges in digital India”	DTU, Delhi	2017
		Workshop on “E-Resources: A gateway for research	DTU, Delhi	2017
		Workshop on “Teaching Pedagogy	DTU, Delhi	2017
4.	Dr. Dinesh K. Vishwakarma	IEEE International Conference of Soft Computing and Network Security (ICSNS)	Saravanampatti, India	Feb. 2018
5.	Ms. Ritu Agarwal	ACSIT-2018	JNU, Delhi	April 2018

#### 4.12.7 Participation of Faculty in Short Term Courses

S.No.	Name of Faculty	Name of Courses	Place	Date
1.	Ms. Ritu Agarwal	Two weeks FDP on “Advanced Manufacturing and Operations Management”, organized by Centre for Advanced production and Industrial Engineering Research	DTU, Delhi	03-14 July, 2017
		Two week TEQIP-III sponsored FDP on “Advances in Research Methods and Teaching Pedagogy”	DTU, Delhi	18-29 June 2018
2.	Ms. Geetanjali Bhol	TEQIP-III Sponsored FDP on “Feature Engineering for Pattern Recognition”	DTU, Delhi	1-5 May 2018
3.	Ms. Anamika Chauhan	Two weeks FDP on “Advanced Manufacturing and Operations Management (AMOM-2017)	DTU, Delhi	03-14, July 2017.
		TEQIP-III Sponsored one week FDP on “Emerging Trends in Internet of Things (IOT) and Cyber Security Applications” in Smart Grid	DTU, Delhi	12-16, March 2018
		TEQIP-III Sponsored FDP on “Feature Engineering for Pattern Recognition”	DTU, Delhi	1-5 May 2018
4.	Ms. Priyanka Meel	Two weeks FDP on “Advanced Manufacturing and Operations Management (AMOM-2017)	DTU, Delhi	03-14, July 2017
		One Week FDP on “Mobile Application Development”	DTU, Delhi	18-22 Sept., 2017

S.No.	Name of Faculty	Name of Courses	Place	Date
		TEQIP-III Sponsored one week FDP on “Emerging Trends in Internet of Things (IOT) and Cyber Security Applications in Smart Grid”	DTU, Delhi	12-16, March 2018
		TEQIP-III Sponsored FDP on “Feature Engineering for Pattern Recognition	DTU, Delhi	1-5 May 2018
		One week STTP on “Health, Human Values, Ethics and Empowerment”	DTU, Delhi	13-18 April, 2018
5.	Dr. Dinesh K. Vishwakarma	Expert Talk on “Feature extraction and representation” in FDP on 'Feature Engineering for Pattern Recognition'	DTU, Delhi	5th May, 2018
		Expert Talk on “Human activity recognition using computer vision”	DTU, Delhi	3 <sup>rd</sup> April, 2018
6.	Dr. Seba Susan	One day workshop on ‘Indian Patent Filing Procedure’ IPR Cell, DTU and RGNIPM, Nagpur	DTU, Delhi	28th May 2018
		Two-week STTP on Pedagogy for Online and Blended Teaching-Learning process FDP 201x, Online activity equivalent to two weeks and face to face interaction	CDAC Noida	14 <sup>th</sup> Sept. - 12 <sup>th</sup> Oct. 2017
		Two-week STTP on Pedagogy for Online and Blended Teaching-Learning process FDP 101x, Online activity equivalent to two weeks and face to face interaction	CDAC Noida	3 <sup>rd</sup> Aug - 7 <sup>th</sup> Sept. 2017

#### 4.12.8 Conference/Seminar/Symposia/Workshops Organized by the Department

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Prof. Kapil Sharma	Member of Organizing committee for TEQIP-III sponsored One week STTP on “Health, Human Values, Ethics and Empowerment”	DTU, Delhi	13-18 April, 2018
2.	Dr. Seba Susan	Member of Organizing committee for TEQIP-III sponsored One week FDP on “Feature Engineering on Pattern Recognition”	DTU, Delhi	1-5 May, 2018

#### 4.12.9 New Sponsored Research Projects

S.No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay(amount in Lakhs)
1.	Dr. Kapil Sharma	Malware Analysis	DRDO	22.35 Lakhs

## 4.13 Department of Mechanical, Production & Industrial Engineering

**Academic Staff: 42; Students Admitted: UG- 463; PG- 47; Ph.D 54; Publications: Journal Papers- 147, Conference/ Symp. 06**

### 4.13.1 Salient Features

The Department of Mechanical Engineering and Production & Industrial Engineering has seen considerable growth since its inception in 1941 with Mechanical Engineering, production & Industrial Engineering and Automobile Engineering courses at UG level. The department of Mechanical engineering also offers Post Graduate courses with specialization in Thermal Engineering, Production Engineering, Computational Design and Renewable Energy Technology. Ph.D Programs in all fields of Mechanical Engineering are also offered. In addition, the department also offers four years' B. Tech. Programme for working Diploma Engineers. The department possesses modern laboratories equipped with latest experimental set-ups and research facilities for instrumentation, experimental stress analysis, strength of materials, fluid mechanics, tic, engines, automotive engineering, robotics, heat transfer, solar energy, flexible manufacturing system, computational fluid dynamics supported by Software like view-flex, CAD-CAM and I.e. engine design. Cad lab has Softwares like NX-LAD, NXCAM, AUTOCAD Inventor, Catia, Techomatix, Abacus, ladino, NX-Nastran, Hyper mesh, hyper works, MDADAMS, Dynaform etc. Fluent software is available in the CFD Centre. Industrial Engineering lab has software: SPSS, Witness and lingo 7. The department has developed eco-friendly technology using alternate refrigerants in the RAC lab for re-directing global warming and Ozone depletion. Research and development is facilitated by NT enabled workstations and competitive robots with digital controller. In addition, microprocessors, micro controllers, PIC, spectrum analyzer and logic analyzer are available for project work. The department has a modern workshop equipped with latest machinery in Fitting, Machine shop and facility of welding shop comprises of pulse TIG, ultrasonic welding and submerged arc welding. The students are given hands on experience on CNC Drilling & CNC lathe machine EDM & wire EDM.

### 4.13.2 Academic Programme

S.No.	Name of academic Program	Intake	Duration
1.	B.Tech in Mechanical Engineering	242	4 years
2.	B.Tech in Production and Industrial Engineering	62	4 years
3.	B.Tech in Automotive Engineering	62	4 years
4.	B.Tech (Evening) in Mechanical Engineering	60	4 years
5.	M.Tech in Thermal Engineering	25	2 years
6.	M.Tech in Production Engineering	25	2 years
7.	M.Tech in Computational Design	23	2 years
8.	Ph.D in Mechanical Engineering	APR	3 years minimum

## 4.13.3 Academic staff

**Professors: 21**

Name	Qualification
Dr. Vipin, Head of The Department	BE, M.Tech, Ph.D Production Engineering
Dr. Sagar Maji (On diverted capacity to DITE)	BE, M.Tech, Ph.D Thermal Engineering, IC Engine
Dr. S.K. Garg	Ph.D Statistical Analysis, Quantitative Methods, and Supply Chain Management
Dr. R.S Mishra	Ph.D Thermal Engg., Solar Energy
Dr. Naveen Kumar	M.Tech, Ph.D Thermal Engineering
Dr. D.S. Nagesh	BE, M.Tech, Ph.D Automation, Robotics, CAD/CAM, Application of ANN & GA
Dr. Samsher	M.Tech, Ph.D Power Plant, Turbo Machinery
Dr. Reeta Wattal	BE, M.Tech, Ph.D Production Engineering
Dr. Bharat Bhushan Arora	BE, ME, Ph.D Thermal Engineering, Turbo Machine, Refrigeration and Air Conditioniong, CFD
Dr. Vikas Rastogi	B.Tech, M.Tech, Ph.D, Machine Design
Dr. Ashok Kumar Madan	M.Sc (Engg.) CAM/ Automation
Dr. Raj Kumar Singh	BE, M.Tech Applied Mechanics
Dr. Amit Pal	BE, ME, Ph.D Automobile Engineering
Dr. Ramesh Chander Singh	BE, ME, Ph.D Production Engineering
Dr.Rajesh Kumar	B.Tech, M.Tech, Ph.D Thermal engineering and Refrigeration,
Dr. Ranganath M.S	BE, ME Production Engineering
Dr. Ravinderjit Singh Walia (On lien)	BE, ME, Ph.D Advanced Manufacturing Processes, Human Factor Engg. FEM & Industrial Engg
Dr. Qasim Murtaza (On Lien)	Ph.D Production Engg, Materials, Metal Coating Advance machining
Dr. Rajiv Chaudhry	M.Tech. (Hons), Ph.D Mechanical Engineering
Dr. Atul Kumar Agrawal	BE, M.Tech, Ph.D
Dr. Vijay Gautam	M.Tech, Manufacturing

**Associate Professors: 07**

Name	Qualification
Mr. Vishav Kamal	BE, M.Tech Design Engineering
Mr. P. V. Ram Kumar	BE, ME Thermal Engineering
Mr. P. K. Jain	DBM, BE, ME Production Engineering
Dr. Pushpendra	M.Tech, Ph.D, Refrigeration & Air Conditioning, Thermal, Solar Energy, Renewable energy
Dr. Akhilesh Arora	M.Tech, Thermal Engineering, Refrigeration and Air conditioning
Dr. Girish Kumar	Ph.D Reliability Engineering, Maintenance management
Dr. Janardan Prasad Kesri (Contractual)	BE, M.Tech, Ph.D

**Assistant Professors: 14**

Name	Qualification
Dr. Yuvraj	BE (Mech) ME Production Engineering
Dr. Saurabh Agrawal	B.E. M.Tech. MBA Ph.D Supply Chain Management Reverse Logistics Industrial Engineering Data Analytics
Dr. Paras Kuma	B.E., M.Tech. Machine Design.
Dr. Mohammad Zunaid	B.E., M.Tech. Thermal Engineering.
Dr. Manjunath K (on lien)	B.E., M.Tech. Ph.D Thermal Engineering
Dr. Pravin Kumar	B.E., M.Tech. Industrial Management.
Mrs. Navrati Gupta	B.E., M.E.
Dr. Sushila Rani	B.E., M.E., Ph.D
Mr. Krovvidi Srinivas	B.E., M.E. Design & Production
Mr. Roop Lal	B.E., M.E. Machine Design.
Mr. Sanjay Kumar	B.E., M.E. Machine Design.
Dr. Mahendra Singh Niranjana	B.E., M.E. Production & Industrial Engg.
Mr. Naushad Ahmad Ansari	B.E., M.E. Thermal Engineering.
Dr. Raghvendra Gautam	B.E., M.E. Thermal Engineering.

**4.13.4 Honors and Awards to Faculty Members:**

- **Prof. R. S. Mishra**

- Chief Guest, International conference on Advanced research and Innovation in engineering (ICARIE August 2017) at MIT Meerut.
- Guest of honour, International conference of Advance research and Innovation (ICARI-Jan 2018).
- Guest of honour, National Conference on Skill India Initiative: Challenges, Opportunities and Strategies 25-26 Feb 2018.

**4.13.4 Visit of Faculty Members to Other Institutions**

S. No.	Name of Faculty	Name of Institute/Organization Visited	Purpose of Visit	Dates
1.	Prof. R. S. Mishra	Phonics Group of Institutions Roorkee	National Conference	2017
2.	Dr. Girish Kumar	Asian Institute of Technology (AIT) Bangkok	Visited as an Indian secondment faculty to teach a course "Deterministic Optimization Models" in a Graduate Program under Industrial Systems	Aug. 2017
3.	Dr. Paras Kumar	SKITM, Jaipur	International Conference on Advances in Science & Technology	04-05 May, 2018

#### 4.13.5 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture

S. No.	Name of Faculty	Details of Conference /Seminar/ Symposia/Workshop/ Guest Lecture	Venue	Dates
1.	Dr. Paras Kumar	1 <sup>st</sup> International Conference on New Frontiers in Engineering, Science & Technology (NFEST)	DTU, Delhi	Feb., 2018
		3 <sup>rd</sup> International Multi -Conference on Academic Research in Engineering, Management and Information Technology	MJPRU, Bareilly	17-19 Feb. 2018
		International Conference of Advance Research and Innovation	DTU, Delhi	28 Jan. 2018
		2 <sup>nd</sup> International Conference on Advanced Production and Industrial Engineering (ICAPIE)	DTU, Delhi	Oct., 2017
		One-day national workshop on Recent Advances in Alternative Energy Sources	DTU, Delhi	29 Jan. 2018
		One-day workshop on Raising Awareness on Plagiarism and Copyrights	DTU, Delhi	20 March 2018
		Two-day international seminar on Sustainable Technologies for Environmental Management (STEM-2018)	DTU, Delhi	27-28 March 2018
2.	Sh. Roop Lal	2 <sup>nd</sup> International Conference on Advanced Production and Industrial Engineering (ICAPIE – 2017)	DTU, Delhi	Oct., 2017
		1 <sup>st</sup> International Conference, New Frontiers in Engineering, Science and Technology	DTU, Delhi	Feb., 2018
3.	Dr. Zunaid	1 <sup>st</sup> International conference on new frontiers in engineering, science and technology (NFEST-2018)	DTU, Delhi	Feb., 2018
		International Conference on Composite Materials: Manufacturing, Experimental Techniques, Modeling and Simulation (ICMMEMS)	LPU, Phagwara	15-17 March 2018
		15 <sup>th</sup> International Ergonomics Conference on Humanizing Work and Work Environment (HWWE-2017)	AMU, UP	08-10 Dec., 2017



S. No.	Name of Faculty	Details of Conference /Seminar/ Symposia/Workshop/ Guest Lecture	Venue	Dates
		2 <sup>nd</sup> International Conference on Advanced Production and Industrial Engineering (ICAPIE-2017)	DTU, Delhi	06-07 Oct., 2017
		Two days TEQIP-III sponsored international seminar on “Sustainable Technologies for Environmental Management (STEM-2018)”	DTU, Delhi	27-28 March, 2018
		National workshop on Recent Advances in Alternative Energy Sources	DTU, Delhi	29 Jan., 2018
		International conference of advance research and innovation (ICARI-2018)	DTU, Delhi	28 Jan., 2018
		Workshop E-Resources: A Gateway for Research, 2017	DTU, Delhi	4-8 Sep., 2017
4.	Prof. Qasim Murtaza	NAAC-SSR/NBA-SAR Filling & Preparedness for Assessment	DTU, Delhi	21-23 May, 2018
5.	Dr. Saurabh Agarwal	NAAC-SSR/NBA-SAR Filling & Preparedness for Assessment	DTU, Delhi	21-23 May, 2018
6.	Prof. Vipin	NAAC-SSR/NBA-SAR Filling & Preparedness for Assessment	DTU, Delhi	21-23 May, 2018
		One week TEQIP-III sponsored FDP on "Advances in Surface Engineering"	DTU, Delhi	01-05 May, 2018
7.	Dr. Girish Kumar	Two week, FDP on “Advanced Manufacturing and Operations Management (AMOM-2017)”	DTU, Delhi	03-14 July, 2017
		One day joint workshop on "Patent Filing Procedure".	DTU, Delhi	28 May, 2018
		One week TEQIP-III sponsored FDP on "Advances in Surface Engineering"	DTU, Delhi	01-05 May, 2018
8.	Sh. P. V. Ram Kumar	One week TEQIP-III sponsored FDP on "Advances in Surface Engineering"	DTU, Delhi	01-05 May, 2018.

## 4.13.6 Participation of Faculty in Short Term Courses

S. No.	Name of Faculty	Name of Courses	Place
1.	Prof. R.S. Mishra	(AMOM-2017)	Department of Mechanical, Production & Industrial Engineering, Delhi Technological University, Delhi.
3.	Sh. Roop Lal	Workshop – “E-Resources: A Gateway for Research, 2017”	Central Library, Delhi Technological University, Delhi, held from 4 <sup>th</sup> September 2017 to 8 <sup>th</sup> September 2017
		FDP titled “Precision Manufacturing and Circular Economy”	Delhi Technological University, Department of Mechanical Engineering from 4 <sup>th</sup> to 8 <sup>th</sup> June, 2018
		FDP titled “Advanced in Surface engineering”	Delhi Technological University, Department of Mechanical Engineering from 1 <sup>st</sup> to 5 <sup>th</sup> May, 2018
		FDP titled “Health, Human, Value, Ethics and Empowerment	Delhi Technological University, Department of Mechanical Engineering from 13 <sup>th</sup> to 18 <sup>th</sup> April, 2018
4.	Sh.Sanjay Kumar	One week TEQIP-III Sponsored FDP on “Advance in Surface Engineering”	Delhi Technological University, Department of Mechanical Engineering from 1 <sup>st</sup> to 5 <sup>th</sup> May, 2018
		FDP titled “Precision Manufacturing and Circular Economy”	Delhi Technological University, Department of Mechanical Engineering from 4 <sup>th</sup> to 8 <sup>th</sup> June, 2018
		FDP titled “Health, Human, Value, Ethics and Empowerment	Delhi Technological University, Department of Mechanical Engineering from 13 <sup>th</sup> to 18 <sup>th</sup> April, 2018
5.	Dr. Paras Kumar	FDP titled “Precision Manufacturing and Circular Economy”	Delhi Technological University, Department of Mechanical Engineering from 4 <sup>th</sup> to 8 <sup>th</sup> June, 2018
6.	Dr. Girish Kumar	Two week, FDP on “Advanced Manufacturing and Operations Management (AMOM-2017)”	Department of Mechanical Engineering Delhi Technological University, from 03-14 July, 2017.

S. No.	Name of Faculty	Name of Courses	Place
		One week TEQIP-III sponsored FDP on "Advances in Surface Engineering"	Department of Mechanical Engineering Delhi Technological University, 01-05 May 2018.
		Coordinator "Advanced Manufacturing and Operations Management (AMOM-2017)"	Department of Mechanical, Production & Industrial Engineering, DTU (3-14, July 2017)

#### 4.13.7 Conference/Seminar/Symposia/Workshop organized by the Department

S. No.	Name of Faculty Coordinator	Details of Conference /Seminar /Symposia/Workshop/Guest Lecture	Venue	Dates
1.	Prof. R. S. Mishra	International Conference of Advance in Production & Industrial Engineering (ICAPIE – 2017).	DTU, Delhi	14-15 Oct., 2017
		FDP program on Advanced Manufacturing and operations Management	DTU, Delhi	3-14 July, 2017
		One day workshop on Friction stir welding/processing	DTU, Delhi	3-14 July, 2017
		Expert Lecture on Taguchi applications	DTU, Delhi	3- 14- July 2017
2.	Prof. Vipin	FDP program on Precision Manufacturing and Circular Economy	DTU, Delhi	04-08 June, 2018
		FDP program on Advances in Surface Engineering	DTU, Delhi	01-05 May, 2018

#### 4.13.8 Important Professional Affiliations:

- **Sh. Roop Lal**
  - Life member of The Institution of Engineers, Calcutta

## 4.14 University School of Management & Entrepreneurship

**Academic Staff: 16; Students Admitted: UG-BBA-114; BA Economics-95; PG- 60**

### 4.14.1 Salient Features

The East Delhi Campus of the DTU, was inaugurated in August 2017, by the Hon. Chief Minister of Delhi and the Hon. Deputy Chief Minister of Delhi, in the august presence of Hon. Vice Chancellor, Prof. Yogesh Singh, Hon. PVCs, Prof. Anu Singh Lather and Prof. S.K. Garg and a gathering of esteemed members of the Government of Delhi, respected academics and others. The campus of DTU is already functional from 2017-18 academic session in terms of graduate and post graduate studies. It is located at Vivek Vihar, Phase II, New Delhi (in the premises earlier occupied by Shaheed Sukhdev College of Business Studies). In alignment with the vision and mission of the DTU, this campus endeavours to provide quality education, research and innovation in the emerging areas of management relevant to industry and society. The University School of Management and Entrepreneurship was initiated with the view to fulfill this mission and the able leadership of the PVC II, Prof. Anu Singh Lather, as the head of East Campus, has helped create a multidisciplinary approach towards entrepreneurship, embedded in a management school, which would be able to leverage the rich and esteemed heritage of the DTU in the world of technology and best practices in higher education. The prime focus of the USME was on the introduction of new UG and PG programs in the emerging areas of management such as business analytics, entrepreneurship and family business, public policy and financial Markets etc. along with traditional undergraduate and post graduate management programs. It aims to foster the educational ethos in its programs, of employability through industry relevant programs, on focussed domains of knowledge creation and innovation, through research and development. It looks to harness and leverage Techno - entrepreneurship and knowledge enterprise development through the centres of Entrepreneurship Development and Organizational Development.

From the 2017-18 academic year, it has offered Programs in Bachelor of Business Administration (B.B.A.), Bachelor of Arts (Hons.) in Economics (BAE) and Master of Business Administration (M.B.A.). There is a proposal to launch the Programs on M.B.A. Business Analytics, and M.B.A. with specialization in public policy in the coming academic years. The school has designed management programs to develop the capability amongst students for managing complex situations and relationships. Amongst the various skills of management courses, some of them focus on strengthening management principles, presentation, problem solving, team building, decision-making and marketing. Hence, management programs running in the school will help the country in producing talented and skilled workforce. The BAE and BBA programs have an intake of 120 students each (two sections). At the post graduate level, the department has admitted 60 students (one section) to MBA various areas of specialization. These include HR, Operations and Supply Chain Management, Marketing, and Finance, Information Technology and Knowledge Management. The

department currently has one computer laboratory equipped with latest version of different software platforms. The newly formed department has added 16 faculties during this short. There has been active involvement of students and faculty in the various professional activities and student events. The department has around 16 student clubs built around professional, cultural, social and sports related interests. Guest lectures, events, visits to industries and trade fairs, all have led to an all-round exposure of students at USME to the rapidly changing economic and industrial scenario.

#### 4.14.2 Academic Programme:

S.No.	Name of academic Program	Intake	Duration
1.	BBA	120	3 years
2.	BA Economics(Hons)	120	3 years
3.	MBA	60	2 years
4.	MBA (Business Analytics)	31	2 years



**4.14.3 Academic Staff****Professors:02**

Name	Qualification
Prof. K V Bhanumurthy	MA Eco., Ph.D
Prof. S. S. Khanka	M. Com, Ph.D
Prof. Amit Mookerjee	BA, MBA, Ph.D

**Assistant Professors:13**

Name	Qualification
Dr. Jagvinder Singh	BCA, M.Sc. (Operations Research, Ph.D
Ms. Aakanksha Kaushik	BA (H) Eco., MA, M. Phil
Mr. Puneet Kumar Arora	BA(H) Eco., MA Eco.
Mr. Virender Kumar	BA (H) Eco., MA Eco., M. Phil
Ms. Priya Malhotra	B.Com (H), MBA
Ms. Varsha Sehgal	B.Tech (CSE), MBA
Ms. Harleen Kaur	BE, PGDM
Mr. Anurag Chaturvedi	B.Tech (ECE), MBA
Ms. Pallavi Sethi	B.Com (H), M.Com, M. Phil
Ms. Ratnam Mishra	BA, MA, M.Phil
Mr. Rajesh Sharma	B.Sc., M.A.
Dr. Harsh Pradhan	B.Tech, MBA, PhD
Dr. Naval Garg	B.Sc., MBA, Ph.D

**4.14.4 Honors and Awards to Faculty Members**

S. No.	Name of Faculty	Title
1.	Prof. K.V. Bhanu Murthy	Best Paper Award for paper titled "Macro-Economic Antecedents of Stock Return and Exchange Rate" presented in two day national seminar on International Financial System: Challenges and Implications for India Department of Commerce, Shaheed Bhagat Singh (Evening) College in association with Department of Financial Studies, University of Delhi.
2.	Dr. Naval Garg	Won S.K. Desai Memorial Essay Writing Competition instituted by Insurance Institute of India.

## 4.14.5 Visit of Faculty Members to Other Institutions

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit
1.	Prof. K.V. Bhanu Murthy	Research Council, School of Management Studies, Indira Gandhi National Open University, New Delhi.	External Expert
		CBCS Committee, School of Vocational Education and Training, IGNOU, New Delhi	
		Guru Angad Dev Teaching – Learning Centre, a MHRD institution	Conducted two-day workshops, on basic ICT Skills and e-Learning under PMMMNM on Teachers and Teaching, at Kanpur and Jabalpur.
2.	Prof. S.S. Khanka	US/SO/ASO/SSA of UPSC	Training Session conducted on the topic titled Coping with Job Stress to the US/SO/ASO/SSA of UPSC
		Bhai Parmanand Institute of Business Studies (PIBS), Delhi	How to Become Entrepreneur?
		US/SO/ASO/SSA of UPSC	Training Session conducted on the topic titled Improving Communication Skills at Workplace
		Department of Management, Doon University, Dehradun	Invited Lecture delivered on Entrepreneurship Development: What, Why and How?
		Department of Commerce in Hemwati Nandan Bahuguna Garhwal University (HNBGU), (A Central University), Srinagar (Uttarakhand)	Lecture on Declining Quality of Doctoral Research in Social Sciences in Indian Universities: Causes and Cures in the Workshop on Research Methodology to the students of Doctor of Philosophy (Ph.D)
		Centre of Academic Leadership and Education Management (CALEM), Aligarh Muslim University, Aligarh at the University of Allahabad, Allahabad, April 24-27, 2018	02 Training Sessions on (1) Leadership in Institutions of Higher Education and (2) Improving Inter-personal Relationship and Teamwork at Workplace in the 4-Day Workshop on Training Program on Academic Leadership and Education Management

S. No.	Name of Faculty	Name of Institute/ Organization Visited	Purpose of Visit
		Internal Security Academy of Central Reserve Police Force (CRPF), Mount Abu, Rajasthan, July 2-4, 2018	03 Training Sessions on: (1) Empowering Subordinates Through MBO-KRA and Training & Development, (2) Inter-personal Skills, Inter-personal Relationship, Negotiation Skills and Conflict Management, and (3) Emotional Intelligence
3.	Prof. Amit Mookerjee	All India Management Association, New Delhi	Attended Board of Studies Meeting as an External Expert Member
		Gautam Budhha University, Greater Noida	Attended Board of Studies Meeting as an External Expert Member. Attended DRC as an external expert.

#### 4.14.6 Participation of Faculty in Conference / Seminar / Symposia / Workshops / Guest Lecture:

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
1.	Prof. K.V. Bhanumurthy	World Finance Conference	Sardinia, Italy	2017
		COSMAR	IISC, Bangalore	20-21 Nov., 2017
		6th Annual International Commerce Conference	University of Delhi	11-12 Jan., 2018
		Two Day National Seminar on International Financial System: Challenges and Implications for India organized by Department of Commerce	SBSC in association with Dept. of Financial Studies, New Delhi	2017
		Conducted workshops as Vice-Chairman Guru Angad Dev Teaching – Learning Centre, a MHRD institution under PMMMNM	Kanpur and Jabalpur	2017
2.	Ms. Priya Malhotra	3rd International Management Conference at FIIB, New Delhi	New Delhi	Dec., 2017



S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue	Dates
		Research Summer School on Financial and Accounting research	IIM Calcutta	01-09 May, 2018
3.	Mr. Puneet Arora	One-day Workshop on Teaching Pedagogy.	DTU, Delhi	7 Apr., 2018
		Two-day Faculty Development Programme "Game Changer".	DTU, Delhi	June, 2018
4.	Ms. Harleen Kaur	IIMA Doctoral Summer School	IIM Ahmedabad	2-6 Apr 2018
		Teaching pedagogy workshop	DTU, Delhi	7 April, 2018
5.	Mr. Anurag Chaturvedi	FDP program in Research Methods & Teaching Pedagogy	DTU, Delhi	18-29 June, 2018
		OR-93 Orientation Program CPDHE	Delhi University	03-30 July, 2018
6.	Dr. Naval Garg	One-day workshop on Teaching Pedagogy	DTU, Delhi	7 April, 2018
		Two week FDP on Advance Research Methodology	DTU, Delhi	

#### 4.14.7 Visitors to the Department

S. No.	Name	Affiliation	Purpose	Dates
1.	Dr. Abha Shukla, Asso. Prof.	Delhi School of Economics	Guest Lecture	19-21 Oct., 2017
2.	Mr. Rahul Jain	Licensee of LMI India for Delhi NCR	Lead Yourself to Win	01 Sep., 2017
3.	Mr. Sanjay Diwan	Senior Manager at Positive Momentum and President of DTU Alumni Association	Positive Thinking	10 Sep., 2017
4.	Prof. Madhu Vij	Faculty of Management Studies, University of Delhi Delhi	Rethinking the Relevance of Credit rating agencies	18 Sep., 2017
5.	Dr, Ranjit Mehta	Director PHD Chamber of	Relationship Leadership	25 Sep., 2017

S. No.	Name	Affiliation	Purpose	Dates
		Commerce, Augustkranti Marg, New Delhi		
6.	Ms. Astha Singh Lather	Assistant Registrar, NSIT, New Delhi	Contemporary Reading	16 Oct., 2017
7.	Dr. R. S. Walia	Training and Placement Incharge, DTU	About Placement and Resume Manager	23 Oct., 2017
8.	Dr. Jatinder Singh	Director, PHD Chamber of Commerce, Augustkranti Marg, New Delhi	Gearing HR for Industry 4.0	30 Oct., 2017
9.	Prof. V. K. Shrotriya	Dept of Commerce, Delhi School of Economics, University of Delhi, Delhi	HR Challenges in the New Millennium	Jan 2018
10.	Anand K. Chaturvedi	Mars International(National Sales Training Manager)	Sales and Leadership	02 Feb., 2018
11.	Mr. Sorit Gupto Prof . O.M. Aggarwal Prof. Chandrashekhar Prof. R.P. Tulsiyan	Budget Panel Discussion	Analyzing Budget 2018-19	09 Feb., 2018
12.	Prof. R.P. Tulsiyan	Bhagat Singh College, DU	Financial Literacy	11 Feb., 2018
13.	His Grace Vichitra Krishna Raj	ISKCON New Delhi	Spirituality & Stress Management	16 April, 2018

#### 4.14.8 Conference/ Seminar/ Symposia/ Workshops/ Short Term Courses Organized by the Department

S. No.	Organizing Secretary	Details of Conference / Seminar / Symposia / Workshop/Guest Lecture	Venue
1.	Prof. K. V. Bhanumurthy	Event - BudgeTed 2018	DTU, East Delhi Campus
		Organized visit of BA (H) Economics students to India International Trade Fair, 23 <sup>rd</sup> Nov. 2017.	IITF, Pragati Maidan
2.	Prof. S. S. Khanka	Maruti Suzuki Limited, Gurgaon On 13 Nov., & 24 Nov., 2017	Maruti Suzuki Gurgaon

#### 4.14.9 Sponsored Research Projects

##### (i) Completed Sponsored Research Projects

S. No.	Principal Investigator	Title of Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Prof. K. V. Bhanumurthy	e-PG Pathshala	Under UGC – Inflibnet. As Principal Investigator for Commerce. Project value –. (Complete e-content for M.Com – UGC syllabus).	Rs. 91.00 lakhs

##### (ii) Consultancy Projects

S. No.	Principal Investigator	Title of the Project	Sponsoring Agency	Outlay (amount in Lakhs of Rupees)
1.	Prof. K. V. Bhanumurthy	5 MOOCS	Swayam portal GoI as PI Commerce	35.00 Lakhs

#### 4.14.10 Summary of Major Sponsored Research Schemes and Consultancy Projects

1. Prof. K.V. Bhanumurthy – PI: Consulting project completed where 8 MOOCS uploaded on Swayam portal GoI as PI Commerce (9<sup>th</sup> Oct. 2017); including 2 MOOCs as MOOC co-ordinator on Swayam portal. Project value – Rs. 56 lakhs

#### 4.14.11 Important Professional Affiliations:

- USME has taken up Membership of the Delhi Management Association.

#### 4.14.12 Publications

##### Publications in Journals: 9

1. Malhotra, P. (2018). “Performance evaluation of select Indian Debt Mutual Funds, Good Governance and Growth in Global Economy”. ISSN 978-93-86349-58. (pp 159-173) New Delhi: Bloomsbury Publications.
2. Malhotra, P. (2017) “Big data Analytics in online retail Journal of Management Research and Insight”. ISSN 2456-1088, Jan-Dec 2017 (pp 53-54). New Delhi: Banarsidas Chandiwala Institute of Professional Studies (BCIPS).
3. Gill, K. & K. V. Bhanu Murthy (Ed.) (2017). “India's Service SEctor - Emerging Perspectives”. London: Athena Academic Ltd”.
4. Garg, N. (2018), “Promoting Organizational Performance in Indian Insurance Industry: The Roles of Workplace Spirituality and Organizational Citizenship Behavior” Global Business Review.
5. Garg, N. (2017), “Workplace Spirituality and Employee Well-being: An Empirical Exploration”, Journal of Human Values, 23(2), 129-147.

6. Garg, N. (2017), “Workplace Spirituality and Organizational Commitment: An Empirical Exploration”, *Purushartha - A Journal of Management, Ethics and Spirituality*, 10(2), 8-24.
7. Garg, N. (2017), “Workplace Spirituality and Organizational Performance in Indian Context: Mediating Effect of Organizational Commitment, Work Motivation and Employee Engagement”, *South Asian Journal of Human Resource Management*, 4(2), 191-211.
8. Garg, N. and Punia, B. K. (2017), “Developing High Performance Work System for Indian Insurance Industry”, *International Journal of Productivity and Performance Management*, 66(3), 320-337.
9. Jagvinder Singh, Suneeta Chaudhary, Prasannan A.R, Ashok Vyas “Stochastic formulation of faults severity based Multi-Release SRGM using the effect of logistic learning” *International Journal of Mathematics, Engineering and Management Sciences*, Vol.2, No.3, pp-172-184, ISSN: 2455-7749, 2017.

#### **Conferences / Seminar / Symposia / Workshop: 6**

1. Murthy, K. V. B. (et al.) (2017). “Analysis of Spillover Effects of Foreign Direct Investment in Indian Manufacturing Industries using Mamquist Index”, *World Finance Conference – Sardinia, Italy, 2017*.
2. Murthy, K. V. B. (et al.) (2017). “Idiosyncratic Volatility in Stock Returns: A Preliminary Assessment of the Indian Stock Market” presented at COSMAR, Indian Institute of Science, Bangalore November 20-21, 2017.
3. Murthy, K. V. B. (et al.) (2018). “Role of Idiosyncratic Risk in Asset Pricing: A Preliminary investigation into India's Stock Market”, presented at 6th Annual International Commerce Conference, University of Delhi, January 11-12,
4. Malhotra, Priya “Performance evaluation of select Indian Debt Mutual Funds” at 3rd International Management Conference, Fortune Institute of International Business (FIIB), New Delhi.
5. Pandey, S.K. and Mookerjee, A., "Customer Experience and Experiential Value in organizational buying: A component model based study" accepted in the 2018 Summer AMA Conference, Boston, MA to be held on August 10-12, 2018.
6. Pandey, S.K. and Mookerjee, A., " Affect in vendor evaluation: An experiential value framework to explain executive behavioural intent in organizational buying" accepted in the 2018 Summer AMA Conference, Boston, MA to be held on August 10-12, 2018.

## 5. Centres and Other Units

### 5.1 DTU Innovation and Incubation Foundation

DTU Innovation and Incubation Foundation established in 2017, pursuant to subsection (2) of section 7 of the Companies Act, 2013 and rule 8 of the Companies (Incorporation) Rules, 2014. It aims to create a culture of entrepreneurship, startups, and Intellectual Property Creation that leads to value creation, jobs, and employment, and does social and economic good by creating a robust ecosystem.

**C.E.O – Dr. Manoj Kumar Sharma**



S. No.	Start-up Name	S. No.	Start-up Name
1.	Libellus Infomedia Pvt. Ltd. (2017)	6.	Proxima Advertising Solution Pvt. Ltd. (2018)
2.	Getwings Creative Lab Pvt. Ltd. (2017)	7.	Ioteraction Technologies Services Pvt. Ltd. (2018)
3.	Blackdoor Entertainment Pvt. Ltd. (2017)	8.	Supremetestinglab & Forensic Evidence Protection Technology Pvt. Ltd. (2018)
4.	Super Hydro Particles Pvt. Ltd. (2017)	9.	Ampereplus Pvt. Ltd (2018)
5.	Bestbook Buddies Technologies Private Limited (2017)	10.	Zefi Labs Pvt. Ltd. (2018)
		11.	Trention Technologies Pvt. Ltd. (2018)

## 5.2 TIFAC-Core

### 5.2.1 Seminars / workshops conducted by Tifac Core during 2017-2018

Chapter members of SPIE DCE Chapter demonstrated basic models based on the fundamental laws of optics & photonics to the student in Gyan Sagar Public School, Dwarka, New Delhi.

### 5.2.2 Thesis submitted during 2017-2018

- M. Tech.: 8

### 5.2.3 Details of ongoing/completed research projects

- **Indo-Russian Bilateral Research Project**

Title: All-Dielectric, Plasmonic and Hybrid Photonic Nanostructures.

Funding Agencies: Department of Science and Technology (DST), Govt. of India  
Russian Ministry for Education and Science (RMES) Grant size: - Rs.65.04 Lakh

### 5.2.4 Publications - 25

1. Pooja Chauhan, Ajeet Kumar, Yogita Kalra, and Than Singh Saini. Design and analysis of photonic crystal ber in ga-sb-s chalcogenide glass for nonlinear applica-tions. In AIP Conference Proceedings, volume 2009, page 020047. AIP Publishing, 2018.
2. Pooja Chauhan, Ajeet Kumar, Yogita Kalra, and Than Singh Saini. Highly nonlin-ear spiral shaped photonic crystal ber in a ga-sb-s chalcogenide glass for nonlinear applications. In Photonic Fiber and Crystal Devices: Advances in Materials andInnovations in Device Applications XII, volume 10755, page 1075510. InternationalSociety for Optics and Photonics, 2018.
3. Pooja Chauhan, Ajeet Kumar, Yogita Kalra, and Than Singh Saini. Rectangular core dispersion engineered photonic crystal ber for supercontinuum generation. In Laser Science, pages JW4A{69. Optical Society of America, 2018.
4. Pooja Chauhan, Ajeet Kumar, Than Singh Saini, and Yogita Kalra. Nanostructural-core photonic crystal ber with very low negative dispersion for nonlinear applications. In Laser Science, pages JW4A{120. Optical Society of America, 2017.
5. Reena Dalal, Yogita Kalra, and Ajeet Kumar. Enhancement of purcell factor in all-dielectric dimer. In Nanophotonic Materials XV, volume 10720, page 107200W. International Society for Optics and Photonics, 2018.
6. Reena Dalal, Nishant Shankhwar, Yogita Kalra, Ajeet Kumar, and Ravindra K Sinha. Fano resonant all-dielectric core-shell nanoparticles. In Frontiers in Optics, pages JW3A{67. Optical Society of America, 2017.
7. Reena Dalal, Nishant Shankhwar, Yogita Kalra, Ajeet Kumar, and RK Sinha. All-dielectric cylindrical nanoantennas in the visible range. In Nanophotonic MaterialsXIV, volume 10344, page 103440K. International Society for Optics and Photonics,2017.
8. Parul Goyal, Nishant Shankhwar, and Yogita Kalra. Design and analysis of a hollow bowtie nanoantenna. In Plasmonics: Design, Materials, Fabrication,

- Characterization, and Applications XVI, volume 10722, page 107222M. International Society for Optics and Photonics, 2018.
9. Parul Goyal, Nishant Shankhwar, and Yogita Kalra. Design of a cross structure nanoantenna. In AIP Conference Proceedings, volume 2009, page 020044. AIP Publishing, 2018.
  10. Parul Goyal, Nishant Shankhwar, and Yogita Kalra. Near field enhancement in a hollow over shaped nanoantenna. In Laser Science, pages JT2A{113. Optical Society of America, 2018.
  11. Richa Mantri, Reena Dalal, and Ajeet Kumar. Unidirectional scattering by all-dielectric cuboidal nanoparticle. In Laser Science, pages JW3A{44. Optical Society of America, 2017.
  12. Utkarsh Nigam, Ajeet Kumar, and Than Singh Saini. Numerical modeling of a single mode optical fiber in bismuth oxide for slow-light generation based on stimulated Brillouin scattering. *Optik-International Journal for Light and Electron Optics*, 157:1207{1213, 2018}.
  13. Ritika Ranga, Nishant Shankhwar, and Yogita Kalra. Design and analysis of broad-band square spiral shaped nanoantenna. In *Frontiers in Optics*, pages JT2A{105. Optical Society of America, 2018}.
  14. Preeti Rani, Shiba Fatima, Yogita Kalra, and RK Sinha. Realization of all optical logic gates using universal NAND gates on photonic crystal platform. *Superlattices and Microstructures*, 109:619{625, 2017}.
  15. Reena Reena, Yogita Kalra, and Ajeet Kumar. Ellipsoidal all-dielectric fano resonant core-shell metamaterials. *Superlattices and Microstructures*, 118:205{212, 2018}.
  16. Nishant Shankhwar, Reena Dalal, Yogita Kalra, and Ravindra Kumar Sinha. Lithium niobate based microcubes based metamaterial perfect absorber. In *Metamaterials, Metadevices, and Metasystems 2017*, volume 10343, page 103432L. International Society for Optics and Photonics, 2017.
  17. Nishant Shankhwar, Yogita Kalra, and Ravindra Sinha. Dielectric zero-index metamaterial based photonic crystal defect waveguide: design and analysis. In *Metamaterials, Metadevices, and Metasystems 2018*, volume 10719, page 107191V. International Society for Optics and Photonics, 2018.
  18. Nishant Shankhwar, Yogita Kalra, and Ravindra K Sinha. Dielectric veins type photonic crystal as a zero-index-metamaterial. In *Frontiers in Optics*, pages FM3D{8. Optical Society of America, 2017}.
  19. Nishant Shankhwar, Yogita Kalra, and Ravindra K Sinha. All dielectric zero-index metamaterial for TE/TM polarization. *Journal of Optics*, 2018.
  20. Nishant Shankhwar, Yogita Kalra, and Ravindra Kumar Sinha. Lithium niobate based metamaterial perfect absorber for terahertz spectrum. *Superlattices and Microstructures*, 111:754{759, 2017}.
  21. Nishant Shankhwar, Yogita Kalra, and Ravindra Kumar Sinha. Split-nanotube-based negative index metamaterial for midinfrared wavelengths. *Journal of Nanophotonics*, 11(2):026014, 2017.
  22. Nishant Shankhwar, Yogita Kalra, and Ravindra Kumar Sinha. Honeycomb photonic crystal as a zero index metamaterial. In *Laser Science*, pages JT2A{104. Optical Society of America, 2018.

23. Shubhanshi Sharma, Nishant Shankhwar, Yogita Kalra, and Ravindra Kumar Sinha. Design and analysis of tip slotted square patch nano-antenna. In *Metamaterials, Metadevices, and Metasystems 2017*, volume 10343, page 1034332. International Society for Optics and Photonics, 2017.
24. Priti Siwach, Ajeet Kumar, and Than Singh Saini. Broadband supercontinuum generation spanning 1.5{13 m in ge 11.5 as 24 se 64.5 based chalcogenide glass step index optical ber. *Optik-International Journal for Light and Electron Optics*, 156:564{570, 2018}.
25. Sonia Tomer, Nishant Shankhwar, Yogita Kalra, and Ravindra Kumar Sinha. Plas-monic waveguides based optical and gate. In *Plasmonics: Design, Materials, Fab-rication, Characterization, and Applications XV*, volume 10346, page 103462H. International Society for Optics and Photonics, 2017.



### 5.3 Solar Energy Centre

**Operation of 432 KW SPV roof top plant on resco model and 40 KW SPV plant on capex model functioning at Delhi Technological University.**



Delhi Technological University has installed 432 KW of Solar Photovoltaic Rooftop Plant on resco model by M/S Hero Future Energies on the terrace of the various departments. This has been further added by 40 KW SPV plant by M/S Photon Energy Systems Ltd. on capex model on the rooftop of administrative building. All together there has been 472 kW SPV plant in DTU. Both the plants have been working very satisfactorily. All 472 kW solar panels have been installed in Science block (108 kWp, having 1 Electronic solar metre), Mechanical block (150 kWp, having 2 Electronic solar metres) and Electronic block (174 kWp, having 3 Electronic solar metres). Hero Future Energies has provided the solar metre readings for the last one year from Aug 2017 – Aug 2018 as given in the table 1.

It has been observed that the maximum solar electricity output of all the 432 kW solar panel from all the 6 electronic metres is found as 49482 kWh in the month of September 2017. This is on an average 3.81 kWh per day production from 1 kW panel.

A 40 kWp system has been also commissioned in the month of June 2015 and functioning properly. It has two inverters of 20 kW each connected to the above system. The control room has been built on the ground floor at the back of the building. The DC power so generated by the SPV plant is converted into AC power by the SSE model inverters and fed to the 3 phase Delhi Technological grid.

The above two systems are grid connected to the TATA power Delhi Distribution Limited. (TPDDL) and are controlled in such a way that whenever solar electricity is produced it has priority to the DTU grid. It means that when DTU has zero load then only it will be exported to the TPDDL. The cost of the solar electricity comes cheaper than the cost of the electricity provided by TPDDL.

**Table 1: Monthly data from the 432 kW DTU solar panel.**

	Science Block (108 kWp)	Mechanical Block (150 kWp)			Electronic Block (174 kWp)				Grant Total All 3 blocks
Solar Electronic Metre →	XB465434 (kWh)	XB456414 (kWh)	XB456435 (kWh)	Total (kWh)	XB456407 (kWh)	XB456441 (kWh)	XB456439 (kWh)	Total (kWh)	
<b>Aug 17</b>	7473	6315	9623	15938	5690	8857	2825	17372	40783
<b>Sep 17</b>	9620	8886	13357	22243	1467	12225	3927	17619	49482
<b>Oct 17</b>	6512	5541	8515	14056	1145	7304	2353	10802	31370
<b>Nov 17</b>	5881	4607	7422	12029	43	6094	1880	8017	25927
<b>Dec 17</b>	5866	4803	5256	10059	0	5750	2129	7879	23804
<b>Jan 18</b>	6772	5617	2934	8551	0	7378	2553	9931	25254
<b>Feb 18</b>	7696	6398	3296	9694	0	6298	2852	9150	26540
<b>March 18</b>	7199	8484	4640	13124	0	4199	3381	7580	27903
<b>Apr 18</b>	7373	7180	5815	12995	0	4737	3411	8148	28516
<b>May 18</b>	9911	7620	11503	19123	5125	8760	3291	17176	46210
<b>June 18</b>	12218	7465	10159	17624	6961	5199	3206	15366	45208
<b>July 18</b>	10537	5972	8955	14927	7137	10584	3120	20841	46305

## 5.4 Kitchen Waste Plant

Delhi Technological University in collaboration with Bhabha Atomic Research Centre (BARC) has set-up 500 kg per day kitchen waste biogas plant in the backyard of main canteen. This is based on Nisargruna technology, developed by BARC which is a method of processing biodegradable waste. It is an environment friendly technology, which delivers two valuable products i.e. flammable methane and organic manure. The waste generated in the main canteen is fed into the installed biogas Plant. This plant was installed and commissioned in April 2014. Initially, the system started functioning with about 50 kg wastes per day and slowly it moved to more than 100 kg per day and in due course of time it will reach to its full capacity i.e. 500 kg per day. The equal amount of water is also mixed with the waste. It is mixed and grinded and then fed to the plant. The methane gas so generated by this plant is fed to the kitchen of the main canteen.



This technology is very useful to sabzimandi and Municipal Corporations to process their vegetable waste as most of biodegradable waste can be utilized as raw material for the plant. Biogas and manure is valuable product. Nevertheless, whole technology creates various types of opportunities for different prospects. Biogas can also be used for the generation of Electricity. Waste segregation at the source is another major issue which needs proper attention. Biogas production is faster because of combination of aerobic and anaerobic digestion technology. Electricity generation

from biogas is also one of the potential benefits. This technology development will save environment to greater extent. It will also provide benefits in the form of Biogas, reduction in GHG emission, health benefits, social benefits and benefits in terms of financial investments. In future there will be scope for extra benefits like subsidies and benefits like carbon credits, which will give high rate of return on total investment. Entrepreneurs will excel in their ventures by selling services and products related Technology. DTU is in contact with some other organizations to provide consultancies in this area. The DTU students have already produced some research papers. Few students are doing their B. Tech., M.Tech. and PhD projects. Presently this plant is under maintenance and operation.

## 5.5 Centres for Advanced Studies & Research in Automotive Engineering

Centre for Advanced Studies and Research in Automotive Engineering (CASRAE) was founded in 2003 in the erstwhile Delhi College of Engineering with the objectives of developing variety of alternative fuels and engine technologies to reduce the dependence on imported crude petroleum and minimize harmful exhaust emissions. The centre has seen a radical growth in last 15 years and it is being considered as one of the key research centres not only in India but abroad also. The faculty along with the students have published research papers in large number of International Journals and have also attended international conferences abroad. The faculty and students are attending various American Society of Mechanical Engineers (ASME) and Society of Automotive Engineers (SAE) conferences and also publishing papers in Elsevier, Wiley, Springer, Taylor & Francis, SAE and ASME.

The prime focus areas in the centre include; Advancement in design of Compression Ignition and Spark Ignition Engines, Development of Micro-Turbojet Engines, Studies of Aerodynamic Characteristics of various airfoils, Design characteristics of Aircrafts, Hybrid Vehicles, CFD study of spray injection, Biofuels like biodiesel, ethanol, n-Butanol and host of other promising alternative fuels such as renewable diesel, nanofuels, Compressed Natural Gas (CNG), Hydrogen etc.

### 5.5.1 International Conference attended by students:

One of the CASRAE students, Monis Alam, attended SAE World Congress and Exhibition 2017 held at Detroit, Michigan, USA from April 4-6, 2017 and presented an oral research paper titled **“Effect of Exhaust Gas Recirculation on Performance of an SI Engine Fueled with Methanol-Gasoline and Ethanol-Gasoline Blend with Hydrogen Boosting”**. The SAE world Congress was a great amalgam from academia, research and mobility industry.

### 5.5.2 Global Engineering Debate 2017

The Global Engineering Debate was organized by CASRAE on 3<sup>rd</sup> April 2017. The debate is an initiative created for the purpose of providing platform where the young engineers from around the world can debate on issues that affect the current and future generations of engineering professionals. Each year the debate focuses on a different theme reflecting the diverse ways in which engineering impacts on society. Previous topics have included fields readily associated with engineering. This year the topic of the debate was “Life on Mars: Possible or Myth”.



### 5.5.3 World Biofuel Day 2017

DTU participated in the programme organized by Ministry of Petroleum and Natural Gas on the occasion of World Biofuel Day, August 10, 2017 at the Constitution Club, New Delhi and the Game Changing Projects in this vital sector were showcased. It was a good overall learning experience for the students.

### 5.5.4 Indian Oil Corporation Limited (IOCL) Mathura Visit

The students visited India's second biggest oil refinery namely **Indian Oil Corporation limited**, Mathura Refinery on 2<sup>nd</sup> September, 2017.

### 5.5.5 Workshop on “Recent Trends in Diesel Engine Technology”

CASRAE in association with Institution of Mechanical Engineers (IMechE) DTU Chapter had organized a 2-day workshop on “**Recent Trends in Diesel Engine Technology**” on October 7-8, 2017. This workshop was conducted by Dr. Vijay Tharad.



### 5.5.6 Speak Out for Engineering (SOFE)

Speak out for Engineering (SOFE), a public speaking session, organized by IMECHE DTU chapter was held on 22<sup>nd</sup> February, 2018 at CASRAE. The impetus behind this competition was to enlighten the need of verbal and visual communication in explaining technical subjects in mechanical engineering and to give a significant platform to students to let them demonstrate their soft skills. The session was followed by a guest lecture delivered by Abhishek Goyal, an alumnus of DTU and he focused on various latest trends in Mechanical Engineering.

### 5.5.7 Expert/Invited Lecture by Prof. Naveen Kumar (Abroad)

- “Nanotechnology for Biodiesel Production in India: Prospects & Challenges” International Conference/Workshop on Nanotechnology and Nanomedicine” Materials & Energy Research Center, Karaj, Iran, May2-3, 2017
- “Biodiesel Production Technology-The New Challenges” Babol Noshirvani University of Technology, Babol, Iran, May 6,2017

### 5.5.8 Expert/Invited Lecture by Professor Naveen Kumar (India)

- "Renewable Diesel-Prospects & Challenges for India", National Conferences on Recent Advances in Mechanical Engineering, NIT Kurukshetra, June 2, 2017
- "Next Generation Biofuels – Opportunities and Challenges for India ", International Workshop on Sustainable Energy, Power and Propulsion (ISEPP-2018), NIT Kurukshetra, March 18-22, 2018

### 5.5.9 List of Research Papers published in Peer Reviewed Journals:

- Harshit Aggarwal, Akshit Goel, Harshil Kathpalia, Naveen Kumar “A Study on Homogeneous Combustion in Porous Medium Internal Combustion Engine: A Review” SAE Paper No.2017-01-0788, doi:10.4271/2017-01-0788.
- Ashraya Gupta, Harshil Kathpalia; Harshit Aggarwal, Naveen Kumar “Performance Based Optimization of Intake and Injection Parameters of an Advanced Compressed Air Engine Kit” SAE Paper No.2017-01-1291, doi:10.4271/2017-01-1291.
- Y. Alhassan, H.S. Pali, Naveen Kumar , I.M. Bugaje “Co-liquefaction of whole Jatropha curcas seed and glycerol using deep eutectic solvents as catalysts”Energy, Vol. 138, Page No. 48-59, 2017, doi: 10.1016/j.energy.2017.07.028.
- Amar Deep, Naveen Kumar, Harveer Singh Pali “Study of Performance and Emissions Parameters of Single Cylinder Diesel Engine Fuelled with Micro Emulsion of Jatropha Oil and Ethanol” SAE Paper No.2017-01-2331, doi:10.4271/2017-01-2331.
- Ankit Sonthalia, Naveen Kumar “Hydroprocessed vegetable oil as a fuel for transportation sector: A review” Journal of the Energy Institute.
- Raghvendra Gautam, Naveen Kumar “Performance emission and combustion studies of diesel engine on Jatropha ethyl ester and its higher alcohol blends” Int. Journal of Global Warming, Vol. 14, No. 2, 2018.

## 5.6 University Computer Centre

DTU has a well-equipped centralized computer Centre to cater to the needs of high profile students and faculty in the University. It is housed, in a magnificent state-of-the-art building having specialized laboratories to provide variety of platforms and computing environment for UG, PG and Research students. The Centre possesses HP ML370, ML570 standalone servers & DL360 rack servers, Dell blade servers (power edge 1000e and R630) and about 150 desktop computer systems of Dell computers of latest configuration (OptiPlex 980/990, i5). These are working on Windows 7/8/8.1, server 2008 and Linux platforms. Additionally, it provides Microsoft product license for registered Windows and MS Office to DTU faculty.

- **Head of the Computer Center**
  - Sh. Manoj Kumar
- **Knowledge Network Manager**
  - Sh. Piyush Vaish
- **Other Technical Staff**

Mukesh Kumar	Assistant Programmer
Imran Khan	Technical Assistant
Sudhir Kumar	Network Assistant
Vinod Saini	Network Assistant





### 5.6.1 DTU Campus Network

The Centre is networked through high-end intelligent CISCO/Dax/Avaya/D-Link manageable switch, and possesses round the clock two leased lines of 50 Mbps (Bharti Airtel) and 1Gbps link of NKN (shared bandwidth) in different pipes for the Wi-Fi connectivity in the Library, Academic, Departments, Administrative and Hostel blocks of the campus, with internet facilities on all the nodes. Access for internet is given to end user after secure authentication. Recently, the traffic is being monitored & controlled by full version of checkpoint (UTM). Presently all the 150 computers are connected through LAN in two floors of computer Centre providing internet access. It is providing programming facilities to all the departments of the university. The departments/academic/library/administrative blocks and all the hostels of DTU are interconnected using 48 core & 6 core optical fiber cable(OFC) and Wi-Fi with 100 number of access points.

The present network setup satisfies the needs of the University's rudimentary Internet connectivity and maximum resource sharing for the connected departments. To put DTU on par with IITs and reputed NITs, it is necessary to use Information Technology as the backbone for its academic, research, consultancy and administrative ventures.

### 5.6.2 DTU Website

Computer Centre maintain DTU websites ([www.dtu.ac.in](http://www.dtu.ac.in)), alumni portal, departments portal, library portal, faculty portal, hostel portal, student portal, DTU times portal, and other related intranet web services. The DTU website is updated by this Centre on daily basis. The information on the website displayed after the approval of the concerned department, faculty or administrative offices. Computer Centre provides mail services to the university teaching communities and administrative officers. The traffic is being monitored & secure by full version of checkpoint (UTM).

## 5.7 Central Library

The Central Library of Delhi Technological University acquires a prominent place among the students and faculty. Situated in the heart of the DTU a three stories centrally air-conditioned building spread over an area of 5000 square meters, it is a central place for academic and research activities. The Library has a very rich collection of print as well as electronic books and journals satisfying the information needs of the faculty and students. The total collection of books is approx. **2, 16, 592** consists of 1, 44, 372 main collections, 57, 887 Book Bank, 9,057 SCP Book Bank, and 5, 276 donated books. Library also subscribes a large number of reputed magazines & newspapers. Keeping in view the fast changes in technology, the knowledge base of the library is updated regularly by way of adding new literature in the form of text books, reference books, reports, proceedings, abstracts and indexes, encyclopedias, data books, standards (National and International), Journals and database on CD-ROM. Apart from adding the new literature, the basic literature is also procured for the new programmes along with current one.

### **Librarian**

Dr. Rama Kant Shukla

### **Assistant Librarian**

Dr. (Mrs.) Lalita

### **Counter Assistant**

Mrs. Taruna

Mrs. Rampati Nain

Mrs. Neeru Malik

Mrs. Neeru Vig

Mr. Abdul Aleem

### **Library Attendant**

Mr. Saudan Singh

### **Lab Attendant**

Mr. Narender Sharma

**Books Acquisition**

Year	No. of Books Purchased	Total Expenditure
01.04.2017-31.03.2018	2058	Rs. 16,37,587.00

**Expenditure on E-Resources, Books, Magazine & Newspaper and Misc.**

e-Journals in Rs.	Books in Rs.	Mag & News in Rs.	Misc. in Rs.	Total in Rs.
2,25,74,367.00	16,37,587.00	2,50,916.00	1,39,227.00	2,46,02,097.00

**Issue, Re-Issue and Return**

Year	Issue	Re-issue	Return
01.04.2017-31.03.2018	50907	48407	19252

**No. of E-Resources Subscribed by DTU Library**

S. No.	Databases	No of Journals
1	ACM	50
2	All Society Periodicals Package (ASPP)	187
3	American Chemical Society	49
4	American Institute of Physics	19
5	American Physical Society	13
6	ASCE	37
7	ASME	30
8	ASTM	5
9	EBSCO	6404
10	EMERALD MANAGEMENT XTRA	310
11	ICE	46
12	IEEE/IEL	497
13	INDIANJOURNALS	114
14	Institute of Physics	76
15	IWA Publishing Journals (12)	12
16	J-Gate	9289
17	Nature Title	1
18	Oxford University Press	262
19	Science Direct	2078
20	SPRINGERLINK	1727
21	Taylor & Francis Journal	1079
22	The Optical Society	18
	<b>Total</b>	<b>22303</b>

**Library Timing:**

Monday – Friday	09.00 am to 10.00 pm
Saturday	09.30 am to 10.00 pm
Sunday	10.00 am to 05.00 pm

**Library Services:**

Newspaper Clipping, Monthly Scholarly Publication, Current Awareness Service, Monthly New Arrivals Bulletin, Bibliographical Services, Browse reading materials in open access environment, Browsing CD ROM, Document Borrowing, Inter-Library Loan Service, Library Membership, Reference, Referral and Information Service, and E-referencing, Reservation of books, Text book Service, Use of special collections, Xeroxing Service, Reprography services like Photocopy, Printing, Scanning, Spiral binding, Lamination etc. were provided. The library also provides access to reference material like Encyclopaedia, Handbook, Standards, Reports, Proceeding, Abstracts and Indexing, Data book, research papers and theses, Lecture Notes on Computer Science (LNCS). Assistance in the use of e-Resources, Cubic for research scholars, 30 Terminals for Internet Access, access to Theses and Dissertation, Plagiarism checking (similarity index checking) also made available to the users.

**Library Promotion**

The library conducted Information Literacy programme, workshops and other activities as follows:-

**Information Literacy programme/ Workshop:**

On various e-Resources like Science Direct, Emerald Insight, ICE, Springer-Link, EBSCO, ASTM, ASCE, ASME, Access Engineering, IWA, IEEE-IEL and RemoteXs etc.

**Central Library**

## 5.8 Alumni Affairs

Alumni affair office of Delhi Technological University is dealing with a close interaction with illustrious alumni, present status and whereabouts along with their frequent presence in the organization. Moreover, this office is also acted as a bridge between senior alumni and current/passed out students with the career guidance, counselling to find out a suitable job in their respective domains. Another role is to convince alumni to contribute funds for the betterment of their alma mater.

### Activities:

- Establishment of Dean Alumni affairs office and infrastructure development
- North America DCE-DTU Alumni meet at San Francisco, USA (**16-18 Feb 2018**)
- Get Together event with 1967 batch (**25.02.2018**)
- Get Together event with 1967 batch (**01.03.2018**)
- Creation of Alumni affairs portal at DTU Web (**18.03.2018**)
- Overseas Invited Lecture series-1 (Department of Biotechnology) (**05.03.2018**)
- Association member's discussion regarding alumni meet 2018 (**12.03.2018**)
- Association member's discussion regarding alumni meet 2019 (**16.03.2018**)
- Overseas Invited Lecture series-2 (Department of Biotechnology) (**19.03.2018**)
- Get Together event with 1973 batch (**20.03.2018**)
- Golden and Silver Jubilee meet 2018 (**24.03.2018**) by Sh Praveen Bhargava group
- Golden and Silver Jubilee meet 2018 (**31.03.2018**) by Sh Sanjay Dewan group

## 5.9 Centre for Value based Education

Board of Management in its 26th meeting on 8.12.2017 has approved the establishment of Centre for Value based Education at DTU. The role of the centre is to prepare and implement innovative resource material for value education for students, encourage the students about the benefits of implementing professional ethics in their later life as professional. Also organizing workshops and STCs to motivate the teachers to use value education, yoga and meditation as a tool in making better citizen.

### **AIM:**

To create awareness, inspiration among the students and teachers about the need of higher dimensions of education in becoming enlightened citizens which is achieved by imparting techniques and Knowledge for promoting human values and thereby making better engineers with the better use of ethics and moral values in professional and personal lives

### **OBJECTIVE:**

- (1) Introduction of an audit course in the 1<sup>st</sup> year with appropriate credit weightage on ethics, human values, social and spiritual values.
- (2) To undertake research in the area of "Interaction of Science, Technology and Human Values" and to promote an understanding of its implications.
- (3) Organizing workshops to train teachers of various technical institutions in this field
- (4) Organizing Symposia, Seminars, and Short Term Courses on relevant topics to promote awareness on such issues among professionals.
- (5) Orientation programmers for 1<sup>st</sup> year students.

## 5.10 Center for Extension and Field Outreach

Board of Management in its 27th meeting on 23.2.2018 has approved the establishment of Center for Extension and Field Outreach at DTU. The role of the center is to extend knowledge and other institutional resources to the community and vice-versa and to gain insights from a contact between knowledge resources and socio cultural realities with a view to reflecting these in the entire curricular system of higher education including teaching and research. It will be a two-way process between the experts and the people, an intellectual intervention in the community's living problems which need to be overcome through an educational process. It was to be that education which helped students to face life and its challenges and which created an ambience for a learning society.

### **AIM:**

To promote a meaningful and sustained rapport between the University and the community.

### **OBJECTIVE:**

1. To extend knowledge and other institutional resources to the community and vice-versa.
2. To gain insights from a contact between knowledge resources and socio cultural realities with a view to reflecting these in the entire curriculum system of higher education including teaching and research.
3. To provide two-way process between the experts and the people.
4. To provide an intellectual intervention in the community's live problems.
5. To promote the philosophy of extension and outreach as a part of total education program.
6. To reach out to larger section of community specially deprived groups through extension.
7. To enrich the learning process of faculty and students mainly through extension activities.
8. The interest of the students should be considered for academic credit (1 or 2) in addition to or as a part of their regular course of studies.

### **Broad categories of Program:**

1. Services to Schools and Colleges
2. Services to the Community
3. Services in the University Campus

## 5.11 Centre for Advanced Production and Industrial Engineering Research

An initiative of a research centre, CAPIER at Delhi Technological University fulfilled the necessity of joining all technical people on a single platform. Likeminded people from the University and Industries are invited to discuss about the latest techniques in the area of manufacturing. CAPIER is supported by many faculty and students of almost all departments of engineering and management.

Internships and Research activities, Industry Interactions are continuous activities of CAPIER. Some of the main events organised/proposed by CAPIER have been mentioned in the following table:

S. No.	Title of the Program	Expert Lecture/ FDP/SDP/Seminar/ workshop/ Conference	Dates
1.	Applications of Taguchi Techniques in Turning (ATTT-2017)	Expert Lecture	1 <sup>st</sup> April 2017
2.	Industrial Tour	Tour	May/June 2017
3.	AMOM 2017	FDP	July 03-14, 2017
4.	ICAPIE' 17	International Conference	6-7 Oct 2017
5.	Post Conference Tour to Mussoorie	Tour	May/June 2017
6.	ICAPIE' 17	International Conference	6-7 Oct 2017



## 5.12 International affairs

The international Affairs branch, DTU has been assigned the responsibility of enhancing international research and academic collaboration, faculty and student exchange programs, establishing networking with reputed institutions, creating opportunity for our own faculty and students through creation of meaningful MoUs, admission of foreign students and establishing brand DTU globally to name a few. The IA branch promote relationship between Foreign Universities/Institution through signing of Memoranda of Understanding (MoUs) related to Faculty and student exchange programme and providing an opportunity to the foreign national students for study in DTU under UG/PG and Ph. D programmes. The IA branch is connected with the various Foreign Embassies and consulates in India to increase educational relationship between the DTU and foreign Universities.

**Vishal Verma**, Dean International affairs

**Vivek Tripathi**, Asstt. Registrar

Foreign National Students Admitted in 2017-18				
	DASA	ICCR	Direct	Total
<b>UG</b>	78	14	NIL	92
<b>PG</b>	-	2	6	8
<b>PhD</b>	-	1	7	8
	<b>Total</b>			<b>108</b>

The IA branch is connected with the various Foreign Embassies and consulates in India to increase educational relationship between the DTU and foreign Universities. The IA branch is also participating in the various education fairs organized by the Edcil, MHRD, Ministry of External affairs and Indian embassies in the respective countries to increase the foreign national student's admissions.

The office of International affairs has signed following MoUs with the foreign universities related to Faculty and student exchange programme for providing opportunities to the foreign national students for study in DTU under UG/PG and Ph.D. programmes.

General MoU's	In Process
University of Houston, Texas	Texas A & M
IIT Chicago	University of Nottingham
University of Alcalá, Spain	University of North Florida
University of South Florida	University of North Texas
Chaoyang University of Technology, Taiwan.	Florida State University
Babol Noshirvani University of Technology, Iran.	Jigjiga University, Ethiopia

N + I, Institut Francais	EPITA, France
Birmingham University	Bhutan
ENSEEITH, France (under renewal)	Universidade de aveiro, Portugal
Tashkent University of Information Technologies named after Muhammad al-khwarizmi, Uzbekistan	EPF, Paris
	Northern Illinois University, USA

### 5.13 Internal Quality Assurance Cell (IQAC)



Internal Quality Assurance Cell at DTU has worked for ISO 9001: 2015 Certification through Standardization Testing and Quality Certification (STQC) and university has been certified the same. IQAC also initiated the action for NAAC Accreditation of the University. Various training programmes were organized for quality improvement, outcome based education, SSR/ SAR filing etc.

The meeting of IQAC of DTU was held and various initiatives related to quality improvement in academic and administrative processes were discussed and objectives were set.

## 6. Sponsored Research, Consultancy and Projects

### 6.1 Sponsored Projects

S. No.	Title of the Research project	Principal Investigators/ Co Principal Investigators	Sponsored agency	Total Amount (Rs. In lacs)	Year of sanction
1.	Genetic Analysis of Dermatological Disorders	Dr. Yasha Hasija	DBT	44.07	July, 2017
2.	Ultrafast Dynamics of Excitons and Charge Carriers in the White Light-Emitting Quantum Dots Produced at Low Temperature	Dr. M.S. Mehata	DST	19.85	Nov, 2017
3.	Ultrathin 2D Nanomaterials for cancer diagnostic application	Dr. Nitin Kumar Puri	SERB-DST	49.68	Oct 2017
4.	Studies on Novel Visible Up-Conversion Luminescent Rare Earth Doped Nanophosphor for Bio-Photonic Applications	Prof. A.S. Rao	SERB-DST	36.50	Nov, 2017
5.	Analytical and Numerical Simulation of Growth and Field Emission Properties of CNT-Graphene Composites	Prof. S.C. Shrama, P.I	SERB-DST	23.94	March 2018
6.	Natural and Man –Made Disaster Risk Reduction, Cloud Burst, Glacial Lake Outburst Flood (Glof) and Flash Flood Studies	Prof. K.C. Tiwari	NHMS	35.43	March, 2018
7.	National Geospatial Chair, DTU	Prof. K.C. Tiwari	DST	35.00	2018
8.	Demonstration of grid supportive EV charger and charging and charging infrastructure at LT level (D-EVCI)	Prof. Vishal Verma	DST	22.54	June, 2018
9.	Design and Demonstration of Biomass –Solar Electricity and Cooling Solutions	Prof. Vishal Verma	DST	36.63	2018

## 6.2 Consultancy Projects

S.No.	Subject	Name of PI	Amount	Year
1.	Water/Waste Water used in before and after washing the buses	Dr. Rakesh Mehrotra	23,400/-	2018
2.	Water/Waste Water used in before and after washing the buses	Dr. Rakesh Mehrotra	23,400/-	2018
3.	Water/Waste Water used in before and after washing the buses	Dr. Rakesh Mehrotra	23,400/-	2018
4.	Water/Waste Water used in before and after washing the buses	Dr. Rakesh Mehrotra	23,400/-	2018
5.	Mix Design of M30 grade of Concrete	Dr. Munendra Kumar	59,000/-	2018
6.	CFD for Flow Analysis of Sump/CWR for Balawala Pumping Station Jaipur for PHED Jaipur	Dr. B.B. Arora	3,42,000/-	2018
7.	Mix Design of M10, M20, M25 & M30 grade concrete	Dr. Munendra Kumar	2,36,000/-	2018
8.	C/o Skywalk and FOB at Junction of Sikandra Road, Mathura Road and Bahadur Shah Zafar Marg at 'W' Point and near Hansh Bhawan New Delhi	Mr. B.R.G Robert	13,80,600/-	2018
9.	Proof checking of structural drawings: i. SPS School Beam Salb & SPS School ii. C/o24 No. additional SPS class rooms GGSSS, Khadipur, Delhi iii. Examination of structural stability of an old building at Madrasa Road allotted for academic extension of Amdedkar University Delhi	Dr. Ritu Raj	64,800/-	2018
10.	(a) C/o 420 two BHK, 225 three BHK houses & 250 EWS (Design and Build Model) earmarked in Pkt.-6, Sector A1 to Sector A4, Narela- (b) C/o 1675 Multistoreyed dwelling units for in situ rehabilitation of slum dwellers at Jailorwala Bagh, Ashok Vihar, New Delhi.	Dr. S. Anbu Kumar	2,00,00,000/-	2018

11.	i. Strengthening of Mathura Road from DPS to Ashram Chowk under Sub Division South East Road-14 Length 2.65KM covered area 59760sqm ii. Strengthening of Captian Gaur Marg from Modi Mill to Ring Road, New Delhi	Mr. B.R.G Robert	3,96,897/- 4,34,786/-	2018
12.	i. Improvement and strengthening of Eastern Approach Road from Dharampura T-point to ISBT Bridge Delhi ii. Improvement and strengthening of MB road from Shastri park to Khajuri Chowk Delhi	Mr. B.R.G Robert	10,73,800/-	2018

## 7. TEQIP III Project

### 7.1 Brief Introduction and Objective

- 1 Delhi Technological University has been selected as Mentor Institute for the TEQIP-III Project for Mentee Institute is Madhav Institute of Technology and Science, Gwalior is w.e.f. 01.04.2017 and shall conclude by 30<sup>th</sup> September, 2020.
- 2 The institute is covered under Sub-component 1.3:Twinning Arrangements to Build Capacity and Improve Performance.
- 3 The main objectives of TEQIP-III Project at DTU are:
  - a) Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS1), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT),
  - b) System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards affiliated institutions, and
  - c) Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.
- 4 The Competent Authority of the University is assign the responsibility to following faculty/officer for execution of TEQIP-III Project from August 1 2017:
  - 1) Prof. Vikas Rastogi, Coordinator
  - 2) Prof. Raj Kumar Singh, Nodal Officer (Academic)
  - 3) Prof. J.N. Rai, Nodal Officer (Procurement)
  - 4) Sh. Nand Kishore, Nodal Officer (Finance)
- 5 The Memorandum of Understanding (MoU) has been signed between State Govt. of NCT Delhi & DTU and the MoU has been submitted to MHRD.
- 6 The Institutional Development Proposal (IDP) has been prepared and submitted to NPIU in October, 2017.
- 7 The Good Governance Development Plan has been submitted to NPIU on 19.04.2018.

### 7.2 Meetings/Training

1. Prof. S. K. Garg & Prof. A. K. Gupta have attended Orientation workshop held on 21<sup>st</sup> July, 2017 at Silver Oak hall, India Habitat Centre, Lodhi Road, New Delhi.
2. Review meeting regarding Annual Action Plans, Procurement plans and status of expenditure through PFMS has attended by Prof. Vikas Rastogi (Coordinator), Prof. J.N. Rai, Nodal Officer (Procurement) & Shri Nand Kishore, Nodal Officer (Finance) at G S Indore Institute of Technology & Science, Indore on 9<sup>th</sup> and 10<sup>th</sup> August, 2017.

3. Prof. R.K. Singh, Dr. Amit Srivastva & Dr. Rizwan have attended the “Training Workshop for Faculty-Mentors on Induction Programme for New Students” during September 22-24, 2017 at Shri G S Indore Institute of Technology & Science, Indore.
4. Prof. Mukhtiar Singh, Prof. M.M. Tripathi & Dr. Kapil Sharma have attended workshop on Quality Initiatives in Technical & Higher Educational Institutions in Compliance with NBA & NAAC Accreditation during October 6-8, 2017 at Hyderabad Campus.
5. The TEQIP Coordinator & Nodal Officers have made various visits to NPIU for orientation of PFMS.
6. PVC, DTU & Coordinator, TEQIP-III have attended the workshop on Good Governance Summit on 23<sup>rd</sup> January 2018 at AICTE Auditorium, New Delhi.
7. Prof. Vikas Rastogi, TEQIP Coordinator and Dr. Puspendra Singh, Coordinator (Twining activities for MITS Gwalior) have attended two-day workshop on “Outcome based education (OBE) for engineering programs” on 8<sup>th</sup> & 9<sup>th</sup> February 2018 at AICTE Auditorium, New Delhi.
8. Prof. Raj Kumar Singh, Nodal Officer (Academics) has attended one day MIS Training Programme of TEQIP-III Academic MIS on 3<sup>rd</sup> July, 2018 at Jadavpur University, Kolkata.
9. Shri Nand Kishore, Nodal Officer (Finance), Shri Cleetus K.M. (DDO) & Ms. Neha Sharma (Accountant) have attended training program on “Financial Management and PFMS” at UT Chandigarh on 14<sup>th</sup> to 15<sup>th</sup> July, 2018.

### 7.3 Finance Details

1. Indicative Category-wise Funding for Key Activities under Sub-component 1.3 under TEQIP-III Project.

S. No.	Activities	Category of Expenditure (Head of expenditure)	Percentage (%)	Cost (Rs. in crore)
1.	Procurement of Goods (equipment, furniture, books LRs, software and minor items) and minor civil works for improvement in teaching, training and learning facilities	Procurement	Upto 50%	3.50
2.	Improvement in Teaching, Learning and Research competence’ <ul style="list-style-type: none"> <li>➤ Improve student learning</li> <li>➤ Student employability</li> <li>➤ Increasing faculty productivity and motivation</li> <li>➤ Establishing a twinning system <ul style="list-style-type: none"> <li>• Twining arrangements with institutions under Sub-component 1.1 to build capacity and improved performance</li> <li>• Individual institutional mentors</li> </ul> </li> </ul>	Academic	At least 40%	2.80
3.	Incremental Operating Cost	IOC	Upto 10%	0.70
<b>Total</b>			<b>100%</b>	<b>7.00</b>

## 7.4 Staff in TEQIP-III Cell

There is four staff e.g. Stenographer, Accountant, Data Entry Operator (MIS) and Office Attendant.

### 7.4.1 International Conferences within India

The following Seven (7) International Conferences within India have been attended & presented research paper by the faculty members with financial support from TEQIP-III Project:

1. Dr. Ruchika Malhotra, Associate Professor CSE Deptt. Has presented paper in International Conference on “Information and Communication Technology for Competitive Strategies” at Udaipur during December 16-17, 2017.
2. Mr. Sanjay Kumar, Assistant Professor, MED has presented paper in 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at Delhi Technological University, India during January 8 – 12, 2018.
3. Mohammad Zunaid, Assistant Professor, MED has presented paper in 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at Delhi Technological University, India during January 8 – 12, 2018.
4. Dr. Sushila Rani, Assistant Professor, MED has presented paper in 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at Delhi Technological University, India during January 8 – 12, 2018.
5. Dr. Paras Kumar, Assistant Professor, MED has presented paper in 4<sup>th</sup> International Conference on “Reuse and Recycling of Materials and their products” (ICRM-2018) at Kottayam, Kerala during March 9-11, 2018.
6. Prof. R.C. Singh, Professor, MED has presented paper in International Conference on “Composite Materials: Manufacturing, Experimental Techniques, Modeling and Simulation” (ICCMEMS-2018) at Phagwara, Punjab during March 15 – 17, 2018.
7. Prof. Rajesh Kumar, Professor, MED has presented two papers in 5<sup>th</sup> National Conference on “Refrigeration and Air Conditioning”-2018 at National Institute of Technology, Surathkal, and Karnataka during May 24 – 26, 2018.

### 7.4.2 International Internship Program:

1. Four students from Delhi Technological University have selected for 2018 Globalink Research Internship under Student Research Mobility programme with Mitacs, CANADA, sponsored by TEQIP-III Project. The following four students have been selected which details are as under:



S.No.	Student's Name	University	Project Title	Department	Departure	Arrival
1.	Mr. Tejhas Kapoor	University of Winnipeg-Winnipeg	Black Hole Formation in AdS Spacetime	ECE Deptt.	27.05.2018	22.08.2018
2.	Mr. Rachit Gupta	École de technologies supérieure-Montréal	CFD prediction of aircraft performance degradation due to icing	Civil Engg. Deptt.	02.06.2018	26.08.2018
3.	Mr. Alankrit Tomar	Université Laval – Québec City	Innovative Optical fibers for multifunctional applications in photonics	Applied Physics Deptt.	25.05.2018	21.08.2018
4.	Mr. Rishi Aneja	University of Ontario Institute of Technology – Oshawa	Operations research in Marketing and supply chain management_2017	Applied Physics Deptt.	25.05.2018	19.08.2018

### 7.4.3 Equity Actions: Conferences within India for students

The following International Conferences within India have been attended & presented research paper by the students with financial support from TEQIP-III Project:

- 1 Ms. Pallavi Verma who is a Ph.D Research Scholar, EED has presented paper in the IEEE 2<sup>nd</sup> International Conference on “Recent Developments in Control, Automation and Power Engineering” (RDCAPE-2017) at Amity University, Noida, UP during October 26-27, 2017.
- 2 Ms. Shilpi Ahluwalia who is a Ph.D Research Scholar, Biotechnology Deptt. Has presented paper in the “1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.
- 3 27 students from various departments have presented papers in the 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.
- 4 Mr. Adeel Ahmad who is a student of B.Tech, Applied Chemistry Department has presented paper in the 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.
- 5 Mr. Rahul Takoriawho is a student of B.Tech, Applied Chemistry Department has presented paper in the 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.
- 6 Ms. Anuja Agrawal (JRF), Applied Chemistry Department has presented paper in the 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.

- 7 Mr. Dharendra Brahmchari who is a Ph.D Research Scholar, Applied Chemistry Department has presented paper in the 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.
- 8 Ms. Monika Duhan who is a Ph.D Research Scholar, Applied Chemistry Department has presented paper in the 1<sup>st</sup> International Conference on “New Frontiers in Engineering, Science & Technology” (NFEST-2018) at DTU, India during January 8 – 12, 2018.
- 9 Mr. Tej Singh who is a Ph.D Research Scholar, ECE Deptt. Has presented paper in the 2017 IEEE International Conference on “Computational Intelligence and Computing Research” at Tamilnadu College of Engineering, Coimbatore, Tamilnadu during December 14-16, 2017.
- 10 Ms. Poonam Juneja who is a Ph.D Research Scholar, EED has presented paper in the International Conference on “Signals, machines and Automation” (SIGMA'18) at NSIT, Dwarka, Delhi during February 23 - 25, 2018.
- 11 Ms. Chhavi Dhiman who is a Ph.D Research Scholar, ECE Deptt. Has presented paper in the IEEE “International Conference on "Soft-computing & Network security” (ICSNS'18) at SNS College of Technology, Coimbatore during February 14 - 16, 2018.
- 12 Mr. Sumit Joshi who is a Ph.D Research Scholar, MED has presented paper in the International Conference on “Composite Materials: Manufacturing, Experimental Techniques, Modeling and Simulation” (ICCMEMS-2018) at Phagwara, Punjab during March 15 – 17, 2018.
- 13 Mr. Saurabh Thakranwho is a M.Tech, EED has presented paper in the IEEE 1<sup>st</sup> 2018 International Conference on "Power Energy, Environment and Intelligent control" (PEEIC 2018) at GL Bajaj Institute of Technology & Management, Greater Noida, India During April 13 – 14, 2018.
- 14 Mr. Jaspreet Singh who is a M.Tech, EED has presented paper in the IEEE 1<sup>st</sup>2018 International Conference on “Power Energy, Environment and Intelligent control” (PEEIC-2018) at GL Bajaj Institute of Technology & Management, Greater Noida, India During April 13 – 14, 2018.
- 15 Ms. Pooja Chauhan who is a Ph.D Research Scholar, Applied Physics Deptt. has presented paper in the IEEE International Conference on “Photonics and High Speed Optical Networks (ICPHON-2018)” at S.A. Engineering College Avadi-Poonamallee Road, Veeraraghavapuram Thiruverkadu (P.O.) Chennai, Tamil Nadu, India during April 12 – 13, 2018.
- 16 Ms. Mandvi Singh who is a M.Tech, EED has presented paper in the 1<sup>st</sup> International Conference on “Power Energy, Environment and Intelligent Control” at GL Bajaj Institute of Technology and Management, Greater Noida, India during April 13-14, 2018.
- 17 Ms. Vertika Jain who is a M.Tech, EED has presented paper in the IEEE International Conference on “Power Energy, Environment and Intelligent Control” (PEEIC-2018)” at G.L. Bajaj Institute of Technology and Management, Greater Noida, UP, India during April 13-14, 2018.

- 18 Mr. Aftab Anjum who is a Ph.D Research Scholar, MED has presented paper in the International Conference on “Materials, Applied Physics & Engineering” at Indore, MP during June 3 – 4, 2018.
- 19 Mr. Mayank Singh who is a B.Tech, EED has presented paper in 2018 3<sup>rd</sup> IEEE International Conference on “Recent Trends in Electronics, Information & Communication Technology” (RTEICT-2018) at Sri Venkateshwara College of Engineering, Bengaluru during May 18-19, 2018. (File under process)
- 20 Mr. Sahil Manchanda who is a B.Tech, CSE Deptt. Has presented paper in the “IEEE 12<sup>th</sup> INDIACom; 2018 5th International Conference on Computing for Sustainable Global Development” at Bharti Vidyapeeth, New Delhi, India during March 14 - 16, 2018. (File under process)
- 21 Mr. Prakash Chittora who is a Ph.D Research Scholar, EED has presented paper in the 7<sup>th</sup> IEEE International Conference on Power Systems (ICPS-2017) at College of Engineering, Pune, India during December 21-23, 2017. (File under process)

#### **7.4.4 Faculty Development Programme/Staff Development Programme**

**The following Eight (8) Faculty Development Programme has been organized under TEQIP-III Project:**

1. One week FDP on “Recent Developments in Translational Medicine (RDTM-2018)” during March 12-16, 2018 by Biotechnology Department.
2. One week FDP on “Emerging Trends in Internet of Things (IOT) and Cyber Security Applications in Smart Grid” during March 12-16, 2018 by Electrical Engineering Department.
3. One week FDP on "Machine Learning in Predictive Modeling" during April 23-27, 2018 by CSE Deptt.
4. One week FDP on "Polymer Analysis and Applications: Current Scenario" during June 4-8, 2018 by Applied Chemistry Department.
5. One week FDP on "Advances in Surface Engineering" during May 1-5, 2018 by Mechanical Engineering Department.
6. One week FDP on "Precision Manufacturing and Circular Economy" during June 4-8, 2018 by Mechanical Engineering Department.
7. One week FDP on "Feature Engineering for Pattern Recognition (FEPR-2018)" during May 1-5, 2018 by Information Technology Department.
8. Two weeks FDP on "Advances in Research Methods and Teaching Pedagogy" during June 18-29, 2018 by DSM Deptt.

#### **7.4.5 Short Term Training Program**

**The following Two (2) Short Term Training Programs have been organized under TEQIP-III Project:**

1. One week STTP on “Advances in Image Processing and Computer Vision” during April 02 – 06, 2018 by Electronics & Communication Engg. Deptt.

2. One week STTP on Health, Human Values, Ethics and Empowerment during April 13-18, 2018 by Information Technology Department.

#### **7.4.6 Workshop**

**The following Two (2) workshops have been organized under TEQIP-III Project:**

1. Two hours workshop on “To develop Digital teaching learning” on November 17, 2017.
2. Two hours workshop for students on "Happiness and Well being" (lecture by Dr. Ritu Chowdhary, DU) on 18.04.2018 in the Committee Room, MED.

#### **7.4.7 International Seminar**

**The following One (1) Seminar has been organized under TEQIP-III Project:**

1. Two days International Seminar on “Sustainable Technologies for Environmental Management” during March 27 – 28, 2018 by Environmental Engineering Department.

#### **7.4.8 International Conference (Proposed)**

**The following One (1) International Conference (in-house) is underplan:**

1. Three days International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM-2018) may be conducted during October 23-25, 2018 by Department of Applied Mathematics (for partial funding).

#### **7.4.9 Remedial Classes/lectures and other various activities for students**

1. Remedial classes for weaker students have been organized in the five subjects e.g. Differential Equations & Applications (MC-207) B.Tech-3<sup>rd</sup> Semester, Modern Algebra (MC-315/301) 5<sup>th</sup> Semester, Stochastic Processes (MC-303) B.Tech 5<sup>th</sup> Semester, Applied Mathematics (MC-251) 3<sup>rd</sup> Semester and Mathematics-I (MA-101) 1<sup>st</sup> Semester during November, 9-14, 2017.
2. Mr. Yashwant Koli & Mr. Deepak Sharma who are a Ph.D Research Scholar, MED has attended workshop on “MIG/MAG Welding and its variants” at IIT, Delhi during January 19 – 20, 2018.
3. Mr. Aakash D Bansal & Ms. Yamika Patel who are a Ph.D Research Scholar, MED have attended a Short term Course on “Finite Element Method for Engineers & Researchers” at IIT Mandi, HP during June 18 – 22, 2018.

#### **7.4.10 Research Assistantship**

The Hon’ble Vice Chancellor, DTU has approved to give research fellowship to the Ph.D. candidates’ in each academic department (imparting Engg./Tech. degree program) on semester basis who shall admit from the new session of July, 2018 through TEQIP-III Project fund.

The following students have been selected for the session of July, 2018:

S.No.	Application No.	Name of the applicant	Category	Name of the Department
1	1820461	Richa	SC	Applied Physics Department
2	1820227	Garima Singh	OBC	Electronics & Communication Engg. Deptt.
3	1821736	Sunil Kumar	Gen	Biotechnology Department
4	1821220	Ajeet	Gen	Civil Engineering Department
5	1820476	Chitrakshi	ST	Environmental Engineering Department
6	1821913	Vidushi	Gen	Computer Science & Engineering Department
7	1821039	Manjot Kaur	Gen	Applied Chemistry Department
8	1820454	Radha Sachan	Gen	Information Technology Department
9	1820354	Namita Chandra	Gen/OBC	Electrical Engineering Department
Waitlisted Candidates				
1	1821039	Manjot Kaur	Gen	Applied Chemistry Department
2	1821747	Ashima Taneja	Gen	Electrical Engineering Department

#### 7.4.11 Trainings and Development

1. Prof. Sangita Kansal (HoD-Applied Mathematics Department), Prof. Archana Rani (HoD-Applied Chemistry Department) and Dr. Rajni Jindal (HoD-CSE Deptt.) have attended residential training program on “Good Governance & Transparency through RTI” at Goa during November 13-17, 2017.
2. Dr. Vivek Tripathi, Assistant Registrar (International Affairs) has attended residential training program on “Effective office Administration & Financial Management” at Port Blair, A&N Island during January 8-12, 2018.
3. Prof. R.S. Walia (Professor) & Prof. Qasim Murtaza (Professor) have attended residential training program on “Innovation & Creativity through Knowledge Management” at Goa during February 05 – 09, 2018.
4. Dr. Akhilesh Arora (Associate Professor) has attended the International workshop on “Integrated CO<sub>2</sub> Refrigeration Systems for Supermarkets” at ICSR Auditorium, IIT Madras, and Chennai during March 12-13, 2018.
5. Prof. H.C. Taneja (Professor) & Prof. D.S. Nagesh (Professor) have attended residential training program on “Role of ICT in driving Government Performance” during March 12 – 16, 2018 at Kanyakumari.
6. Dr. Rajiv Chaudhary (Associate Professor) has attended International Workshop on "Sustainable Energy, Power and Propulsion" at National Institute of Technology, Kurukshetra during March 18 - 22, 2018.
7. Dr. Amit Pal (Professor) MED has attended National Seminar on “Innovations and IPR” at SAGE University Rau Indore on 24<sup>th</sup> March, 2018.
8. Prof. Raj Kumar Singh (Professor) has visited at Manav Rachna University for discussing course on "Engineering Exploration" on 28.03.2018.
9. Dr. Pushpendra Singh (Associate Professor) has attended FDP on “Applications of Green Energy Technologies for Environmental Sustainability” at Bhopal, MP during April 3-7, 2018.

10. Dr. Ruchika Malhotra (Associate Professor) & Sh. Narad Muni Prasad (Associate Professor) have attended residential FDP training program on “Achieving Excellence in Engineering Education” during May 24-28, 2018 at Shimla (H.P).
11. Dr. M.S. Chaudhary (Associate Professor) has attended FDP on "Data Science and Big Data Analytics" organized by ICT Academy at Shivalik College of Engineering, Dehradun during 29 May-2 June, 2018.
12. Dr. Vijay Gautam (Professor) & Dr. Rajesh Rohilla (Associate Professor) have attended residential training program on “Advanced Pedagogy and Management Capacity Building Training” during 21-25 June 2018 at Gangtok, Sikkim.
13. Mr. Vinod Kumar (Associate Professor) has attended Industry Collaboration Training Program on “Internet of Things (IOT)” during 25 – 30 June 2018 at Indore by EQUATE.
14. Sh. Narad Muni Prasad (Associate Professor) has attended Short Term Course on “Probability and Statistics in Civil Engineering” during 13 – 15 July 2018 at IIT Delhi Sonapat Campus, Haryana. (Without financial assistance)
15. Prof. Rajesh Kumar & Mr. Rohit Beniwal have attended residential training program on “Start-Up Conclave (Educate-2-Innovate 1.0)” from July 27-29, 2018 at ESCI Campus, Hyderabad (Telangana).

#### 7.4.12 Staff Training

1. Mr. Ravi Kumar (AAO), Mr. Manoj Kumar (AAO), Mr. Rajendra Kumar (Foreman) ECE Deptt., Mr. Rajesh Kumar (Foreman) MED, Mr. Narender Bisht (Sr. Mechanic) MED & Shri Devesh Trivedi, SO (Estt.) have attended residential training program on “Management Capacity Building Training for Non-Teaching, Administrative and Finance Staff, Lab Technicians” during 24-28 May 2018 at Shimla (H.P).

#### 7.4.13 Essential Approvals

1. The Hon’ble Vice Chancellor, DTU has constituted a Committee to evaluate project proposals to get seed money to faculties & students for their research projects through TEQIP-III Project.
2. The Hon’ble Vice Chancellor, DTU has approved the funding for MOOC’s and digital contents for e-learning for 2 subject each in the five departments (i.e. MED, EED, ECE, CSE, Civil Engg. Deptt.) Through TEQIP-III Project.
3. The Hon’ble Vice Chancellor, DTU has approved the guidelines/budgetary provision for attending FDP/STTP/SDP/CEP/Conference/Symposium/Seminar/Workshop – within India for faculties & students through TEQIP-III Project.
4. The Hon’ble Vice Chancellor, DTU has approved the guidelines/detailed budgetary provision for conducting FDP/STTP/SDP/ CEP/Workshop/Seminar and other training programs in-house under TEQIP-III Project.

5. The Hon'ble Vice Chancellor, DTU has approved the guidelines for taking remedial classes for academic support to weaker students under TEQIP-III Project.
6. The Hon'ble Vice Chancellor, DTU has appointed a Start-up Cell Coordinator & team members to establishing of Start-up cell in the DTU as per AICTE Mandate under TEQIP-III Project.
7. One-week Induction Training program for all first year students of DTU during 2018 at beginning of the semester for one week. The team is follow:
  - Prof. Rajeshwari Pandey, Associate Dean (Academic): Chairman.
  - Prof. Amit Srivastva, Associate Dean: Member, Outreach activity.
  - Prof. Raj Kumar Singh, Nodal Officer (Academics): Member.
  - Dr. M. Rizwan: Member.
8. Auditor for Internal Audit & Statutory Audit for two years F.Y. 2017-18 & 2018-19 of TEQIP-III Project has been appointed and audit will be performed July-August, 2018.

#### 7.4.14 Procurement Activity

1. The Hon'ble Vice Chancellor, DTU has constituted a Purchase Committee for procurement under TEQIP-III Project is as under:
  - A. Institute wise Purchase Committee:
    - Pro Vice Chancellor – I ----- Chairman
    - HoD of major Departments ----- Member
    - Nodal Officer, Procurement ----- Member
    - Nodal Officer, Finance ----- Member
    - Coordinator, TEQIP-III ----- Member
    - Two Faculty Members – from any department (to be nominated by Pro. Vice Chancellor–I)
  - B. Department wise Purchase Committee:
    - i. HoD ----- Chairman
    - ii. Three faculty members from each DPC Committee – Members
2. Proposal has been received for various labs from Mechanical Engineering Department and are under process:
  - a) Micro Hardness Testing Machine in Metal Forming Lab for characterization of material's micro-hardness for Metal Forming Lab, MED.
  - b) Computerized test set up with open ECU and combustion Analyses in I.C. Engine Lab, Mechanical Engg. Deptt.
3. Proposal has been received for various labs from Electrical Engineering Department and are under process:
  - a) Equipments for UG/PG project and research work for different laboratories in Electrical Engineering Department.
4. Proposal has been received for various labs from Applied Physics Department and are under process:
  - a) Equipment of Battery Analyzer/Cycler in Applied Physics Deptt.

- b) Wien2k software Vendor: Technical University of Vienna (TU Wien), Austria in Applied Physics Deptt.
- c) Particle analyser Sputtering system (RF/DC) Accessories for Fluorescence lifetime spectrometer (Delta Diodes) for M.Tech NST experiment and for their project work and NST lab in Applied Physics Deptt.
- d) Three-target RF Magnetron Sputtering System for B.Tech and M.Tech students in Applied Physics Deptt.
- e) Comsol 5.3 Multiphysics Software for B.Tech, M.Tech & Ph.D students in Applied Physics Deptt.

#### 7.4.15 Twinning Activity

1. The Twinning Agreement has been signed between DTU and MITS, Gwalior during Orientation Workshop held on 21<sup>st</sup> July, 2017 at India Habitat Centre, Lodhi Road, New Delhi under TEQIP-III Project.
2. 10% seats for faculty & staff participants of MITS, Gwalior in each FDP/STTP/SDP/CEP/Workshop/Seminar and other training programs conducted in-house at DTU under TEQIP-III Project.
3. Faculty of MITS, Gwalior is encouraged to register Ph.D at DTU in various departments.
4. Biotech Department, Civil Department, Mech Deptt. And many other departments are exploring joint research activities with the faculty of MITS Gwalior.
5. MITS has been provided consultancy on various issues time to time as per needs. They have been mentored during the NBA accreditation.
6. Coordinator, TEQIP-III has attended a review twinning arrangements meeting on 11<sup>th</sup> January, 2018 at NPIU.
7. The Long term & Short term Twinning Action Plan has been submitted on 1 February, 2018 to NPIU.
8. Prof. Vikas Rastogi, Dr. Pushpendra Singh, Prof. Amit Srivastava & Prof. Mukhtiar Singh have visited Mentee Institute (MITS, Gwalior) during 20-21 Feb, 2018 to finalize the twinning action plan.
9. Five students of MITS, Gwalior have successfully completed summer training during 1<sup>st</sup> June, 2018 to 15<sup>th</sup> July, 2018 under Twinning Arrangements of DTU.
10. Two days' workshop on "HR Conclave" is under plan under Twinning Arrangements for benefit of MITS students for getting training & placement opportunities will be conducted in the month of Sept-Oct, 2018.

#### 7.4.16 Reports Submission and Participation

- 1 Successfully participation in Good Governance Guide in August, 2017.
- 2 Survey questionnaire for participating institutions on TEQIP BEHAVIORAL DESIGN COMMUNICATION PILOTS on August 29, 2017.
- 3 The Survey of Stanford University USA and MHRD has been successfully completed in DTU during 23, 24 & 25 October, 2017.



- 4 Action Taken on Mandatory Internships has been submitted on December 5, 2017.
- 5 Key Financial Management Information has been submitted in the month of Feb, 2018.
- 6 Action Plan has been submitted for the F.Y. 2017-18 (3<sup>rd</sup>& 4<sup>th</sup> Qtr.) and F.Y. 2018-19 (1<sup>st</sup>& 2<sup>nd</sup> Qtr.)
- 7 Financial Management Indicators for the F.Y. 2017-18 has been submitted in the month of June, 2018.
- 8 We are successfully participated in the video feedback survey and send to NPIU.

#### **7.4.17 Audit and Visits**

- 1 First round of Performance Audit has been completed by Prof. V.M. Gadre, IIT Bombay during July 24-26, 2018.

## 8. MoU with National and International Organisation

Delhi Technological University is having memorandum of understanding with following institution and universities as listed below:

### 8.1 National

- Samsung India
- DMRC
- Tata Power
- INMASS
- TCS
- National Physical Laboratory (NPL)
- STMicroelectronics Private Ltd.
- Intel Laboratory
- Mentor Graphics-Establishing Mentor Graphics Lab
- Federation of Indian Chamber of Commerce and Industries (FICCI)
- Sahara Q shop Unique Product

### 8.2 International

- University of Houston, Texas
- International Institute of Technology, Chicago
- University of Alcala, Spain
- University of South Florida
- Chaoyang University of Technology, Taiwan
- Babol Noshirvani University of Technology, Iran
- N + I, Institut Francais
- Birmingham University (under renewal)
- ENSEEITH, France (under renewal)
- Taxes A & M (In Process)
- University of Nottingham (In Process)
- University of North Florida (In Process)
- University of North Texas (In Process)
- Florida State University (In Process)
- Jigjiga University, Ethiopia (In Process)
- EPITA, France (In Process)
- Bhutan (In Process)
- Universidade de aveiro, Portugal (In Process)
- EPF, Paris (In Process)
- North Illinois University, USA (In Process)
- University of South California (In Process)
- University of California, Los Angles (In Process)
- University of California, Berkeley (In Process)

- Harare Institute of Technology, Zimbabwe
- National University of Singapore
- Chungnam National University, Korea
- Business and Engineering Vaud, University of Applied Science Western Switzerland

## 9. Students Welfare Societies

### 9.1 Entrepreneurship Cell, DTU

**E-Summit 2018:** The event was organized by E-cell DTU, Entrepreneurship Summit from 1st-3rd Feb. 2018 which is the Entrepreneurial Carnival/Fest that brings in visionary students, path – leading professionals and trendsetters together to exchange ingenious and enterprising ideas. Every year E-summit greets aspiring entrepreneurs from various colleges to a series of informative and interactive speaker sessions, workshops, fun and innovative competitions that aims to foster a wave of entrepreneurship and let them dwell deep in the challenging yet exciting world of the startup realm.



The E-Summit' 18 consisted of the following events-

1. Leadership Lecture Series
2. Blueprints –The B Plan Competition
3. Workshop Series
4. Startup Internship Fair

## 9.2 Literary Council

**Yuvaan 2018:** Yuvaan'18 two-day event from 20/01/18 to 21/01/18 was inaugurated by our Hon'ble Vice Chancellor, Prof. Yogesh Singh with Kavi Sammelan. On January 20, speakers like Maj. Gen. G.D. Bakshi, Mrs. Sunetra Chaudhary from NDTV, and Talish Ray, an eminent Lawyer interacted with our students and those from Delhi/NCR colleges about importance of Literature, true journalism and cultural integration. Informal was conducted by the startup from DTU, Litwit and Formal competitions included Poetry Slam, Ankahe Alfaaz- Creative Writing, Word War- A debating competition, Ad-Mad, Lit-Quiz and a gathering by the famous poetry group in Delhi, The Poets' Collective. On 21st January there was a speech by Maj. Gaurav Arya, and an interactive session on need of honest journalism by the eminent News Anchor, Mr. Rohit Sardana and tips on how to improve food-blogging by Mr. Gurpreet Singh Tikku, a famous food blogger from Delhi. The Valedictory ceremony was held on the 21st evening.



### 9.3 Technical Council

**TECHFEST 2018:** The Techfest 2018 was conducted from 10/02/18 to 12/02/18 to achieve a confluence of knowledge, innovation and nurture the technical abilities and skills of students. Various events held during the Techfest by various societies were

1. Asymptotes 2018 by MACS,DTU
2. AURORA 2018 by the Department of Applied Physics
3. EXCELSIOR by SR-DTU
4. Troika by IEEE DTU
5. RENAISSANCE by IET DTU Student Chapter
6. TRYST by IGTS DTU
7. KARYON'18 organized by Department of Biotechnology

**TechKriti 2018 – IIT Kanpur Techfest:** At Strata Zenith, Tech Kriti 2017 a team of 5 students from IGTS-DTU went to conduct the event at IIT-Kanpur from 03/03/18 to 05/03/18. The event saw a participation of more than 100+ students and winners were given cash prizes and goodies by the Techfest team. The games were played with different modifications to note the playing behavior. The results were recorded and confirmed the theory of the Academic Team.

**Formula Student UK (FSUK) 2018:** Team Defianz Racing (Formula Student team of Delhi Technological University) participated in Formula Student UK at the Silverstone Circuit in the month from 20/07/17 to 23/07/17. The Competition saw participation from 130 teams. The team was ranked the best Asian Team at the competition for the second year in a row, with an overall 33<sup>rd</sup> position.



## 9.4 Sports Council

**BITS-PILANI Open Sports Meet:** On invitation by BITS Pilani, around 100 students from DTU went to participate in them in their sports fest BOSM from 15th - 19th September 2017. DTU's Lawn Tennis Girls Team bagged the bronze under captaincy of Poorva Shrivastava.

**AAHVAAN 2018:** Aahvaan 2018 was organized from 23rd -26th of March 2018. It saw participation of over 700 sportspersons. A sports talk was held during the fest, featuring Sheetal Mahajan (sky diver), Naveen Gulia (Paralympics achiever) and Rajesh Chauhan (former hockey player), and the lesser known stars of India. AAHVAAN took up the issue of discrimination against North-East Indians Performances by the band Local Train, Qawwali Night with the NizamiBandhu, Dastak-street plays by different colleges, Colour Run and other events were held.



## 9.5 National Service Scheme (NSS)

NSS DTU is the Delhi Technological University chapter of the National Service Scheme, institutionalized under the Ministry of Youth Affairs & Sports Govt. of India. It was inaugurated on 13<sup>th</sup> February 2013 to establish a meaningful linkage between the campus and the community. NSS DTU upholds the need for selfless service and appreciation of the other person's point of view and also to show consideration for fellow human beings. It underlines that the welfare of an individual is ultimately dependent on the welfare of society on the whole. The enthusiastic student volunteers form an integral part of the NSS team whose relentless contribution and dedication make each event successful. Following is the brief of major activities carried out by NSS DTU during 2017-18: The overall aim of NSS-DTU is to give an extended dimension to the higher education system and orient the students towards community service while they are studying in the institution, more precisely, to establish a meaningful linkage between the campus and the community so that their interaction with the common villagers and slum dwellers will expose the students to the harsh realities of poverty-stricken life and bring about a change in their social perception.

**Blood Donation Camp:** In collaboration with Blood Connect, NSS DTU organized a blood donation camp on 1st February 2018. The camp was established by Hindu Rao hospital, New Delhi, at the Civil Convocation hall, DTU campus.

**Joy of Giving Week:** NSS DTU organized the "Joy of Giving" week from 3rd to 8th October 2017, wherein books and clothes were donated by the university students. More than a thousand books were collected which were put in a solar library in the village where NSS DTU had set up a rural camp in October'17. The rest of the stuff was either donated in the residents of the same village or was used in other NSS programmes.

**Swachh Bharat Abhiyan:** On 27th October, 2017 NSS DTU volunteers inspired by Swachh Bharat Abhiyan set out to clean the surroundings in the campus and several parks around Rohini Sector 16. Volunteers also installed dustbins in these parks and near vendor stalls where heaps of garbage were present to encourage sustainable cleanliness in the area.

**Shiksha Project:** Shiksha project was initiated in January 2018 to link DTU students, capable of teaching, to students belonging to a less proficient background. Volunteers took regular classes for the students from Government schools selected for the program. The program was also running in the summer break. Students are also given practical knowledge through biology experiments conducted in DTU labs. A PTM was organized on 22nd April'18, Saturday for parents of the students selected on the basis of the aptitude test.

**Voice of Animals Initiative:** A short movie screening followed by an interactive session was organized in collaboration with doctors from Sanjay Gandhi Animal Care Centre on 20th March, 2018 to initiative to provide Permanent shelter, food facilities and medication to the sick, wounded and abandoned animals inside DTU



campus. Mrs. Ambika Shukla, famous animal right activist shared facts and figures regarding our responsibilities in protecting environment, especially animal kingdom.

**Slowdown:** IRSC DTU chapter under the iSAFE Challenge organized a road safety awareness event 'Slowdown' in the university premises on 7th September 2017. It involved slowing down of vehicles which are not following traffic rules at DTU main gate, guiding them about their violation and asking them to follow right code of conduct. Volunteers also presented them small gifts as goodwill gesture. They also informed the people about casualties caused by irresponsible driving and acquainted them about the consequences of avoidance of road safety. The event was conducted for the second time in campus. The participants showed great interest in our initiative and assured us to always prioritize road safety. The college faculty were also very impressed and very keen to learn more.

**Rally for Rivers:** NSS DTU in collaboration with Isha Foundation organized 'Rally for Rivers, India's Lifeline' on 8th September, 2017 at Amul. Students wrote down message in support of the cause and pledged to do their bit to save rivers. The initiative resulted in students taking active interest in the rapidly declining condition of our rivers and pledged to help save them.

**Seminar on Depression:** NSS-DTU conducted a seminar on "Depression and how to deal with it" on 13<sup>th</sup> September 2017, wherein students were made to have a rendezvous with the enormity, effects and solutions for the societal evil of Depression. It was an interactive session in which students' queries were duly answered. Dr. Shyamanand Roy of the Psychiatry Department, AIIMS and the Pro Vice Chancellor spoke on the issue. Students learned the importance of mental well-being, to never ignore the signs and how to tackle them.

**Kalam Ko Salaam:** With its long borne mission to spread happiness among those long been deprived of it, the volunteers of NSS-DTU under the project Kalam Ko Salaam, visited Subhakshika open shelter on 8th October 2017. They involved the students at the shelter in some fun and interesting pre Diwali activities. This was done in view of the fact that not only studies, but extracurricular activities also play a vital role in a child's personality development.

Students of classes 6-8 made wall hangings using paper cups, colored beads and threads, which actually looked spectacular. Students of classes 3-5 also made wall hangings with paper cutouts in the shape of diyas, colored them and stuck them on a circular cardboard piece. The day ended on a sweet note with chocolates being distributed among the children, which widened their smiles all the more. The volunteers were able to inculcate an interest for extra-curricular in the students and helped make the Diwali of 2017 a memorable one for them.

**Abhilasha:** Abhilasha - Celebrating Ambitions, was organized by National Service Scheme, DTU on 25<sup>th</sup> October, 2017 in the University. It was a seminar on Women's Empowerment and Legal Awareness which witnessed the presence of eminent personalities like Ms. Nupur Sharma, Advocate and the Official Spokesperson of BJP's Delhi unit and Ms. Laxmi Agarwal, an acid attack survivor and campaigner

with Stop Acid Attacks. Madhurima, the Music Society, and Nrityangana, The Indian Classical Dance Society mesmerized the audience with their performance. The speakers were a source of motivation to every individual present, and an example of what women can achieve once determined, against all odds.

**Rural Camp:** NSS DTU organized its flagship program - the Annual Rural Camp in Village Harchandpur Kalan in Block Sakit, Etah District, Uttar Pradesh from 27th December 2017 to 1st January 2018. During the visit of Chief Development Officer of Etah, the volunteers of NSS performed a Nukkad Natak highlighting various social issues. Plantation drive was also organized. The volunteers set up a library in the school premises wherein the books donated by the students of our university during the 'Joy of Giving' week were placed.

**First Responder Training:** NSS DTU along with Indian Road Safety Campaign conducted a First Responder Training workshop for DTU security guards in collaboration with WHO India and NSS DTU. The session was conducted by Dr. Dinesh of JPNA Trauma Centre, AIIMS. The guards were taught the basics of response such as lifting a victim, providing CPR, the Good Samaritan Law and to handle emergency situations, all of which are vital and can save many lives



**Indradhanush – The Colours of Sustainability:** NSS DTU organized its first ever annual conclave, Indradhanush – The Colors of Sustainability on 26<sup>th</sup> and 27<sup>th</sup> March 2018. The 2 day Conclave was centered around the theme 'Sustainable Development Goals' and involved discussion among various NSS units from all over the country. The Chief Guest for the inauguration was Mr. Amitabh Tripathi, General Manager, WAPCOS. Prof. Anamika Chauhan, Assistant Professor, Department of Information Technology also honored the gathering with her presence. Students of Shubhakshika, a center for education and rehabilitation of the marginalized sections, gave an enthralling dance performance, Ganesh Vandana. Students of Asha Kiran Centre, the abode of differently-abled children, also performed for the audience. The conclave played host to a various number of event, namely – Perna, Parakram, Guest Lecture Series and Phronesis – the Case Study Challenge. Indradhanush acted as a platform for various units across Delhi working in the social sector to come together and share their ideas and 2experiences. Many collaborations were pitched during the conclave and many new ideas and domains explored.

**International Yoga Day:** The 4th International Yoga Day was commemorated on 21 June, 2018 in the admin lawns of DTU by the combined efforts of NSS DTU and Bharatiya Yog Sansthan. The Hon'ble Vice Chancellor also graced the occasion with his presence. The celebration saw immense participation from people of all age groups, guided throughout by professionals. Importance of practicing yoga in everyday life was also emphasized upon.



## 9.6 Cultural Council

**Freshers' Week:** The Fresher's Week began with some informal events for the freshers like sack-race, 3-legged race and tug of war. Madhurima, the music society of DTU then conducted a flash mob for the freshers playing their beats throughout the campus. The Dandiya Night is an event that has been organized within DTU for the past couple of years. This time around it was organized as part of the Fresher's Week festivities to celebrate the auspicious Navratri Festival.

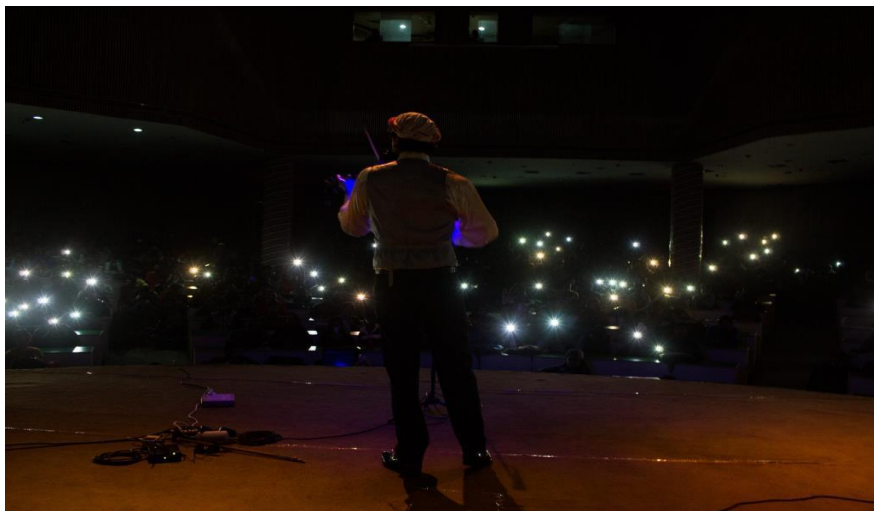
The Fresher's Night was organized on 6 October 2017 at DTU. The students in attendance were all in ethnic wear. The event took place in the Transit Hostel Ground which was beautifully decorated with balloons flowers and a gleaming lighting and sound system. The event was also graced by the respected Faculty Members and their families. The students were distributed Dandiya Sticks to create an emphatic Navratri Atmosphere. The night started with some folk music played out by the DJ. The students and the respected faculty members graced the occasion my folk Garba Dance to mark the auspicious festival. Everyone enjoyed dancing to the music. The music, dancing and the festivities went on. The night finally concluded at around 9 P.M., with everyone in high spirits and excitement for the Freshers' Night the next day.



**Engifest 2018:** The much awaited Engifest 2018 with the theme "A City Rekindled" was held on 16-18 February 2018. As our vision was to make it bigger than it ever was, preparations were started from November only. The three-day fest was a plethora of activities ranging from electrifying to dance performances to heart wrenching drama. True to its spirits, Engifest 2018 provided a platform to students from all over India to discover their passion and showcase their talent.



**Pre-Engi Event by Nuno Flores:** This year the Cultural Council decided to create a hype for the fest by adding a pre-engi event where a Violinist from the Portugal Embassy was invited who brought a very extensive repertoire from his version of contemporary songs from his violin.



**Inauguration Ceremony:** As per the tradition, Engifest 2018 kick started with an auspicious inauguration ceremony. It was presided over by honorable Vice Chancellor. Ever ready to inspire and motivate, he did just that in his addressing speech. The Cultural Secretary, Mr. Parateek Singhal delivered an inspiring speech which kept the audience enthralled. The Inauguration Ceremony ended with a live performance by the Qawwali queen Chanchal Bharti which left the crowd mesmerized.



## DoReMiPa:

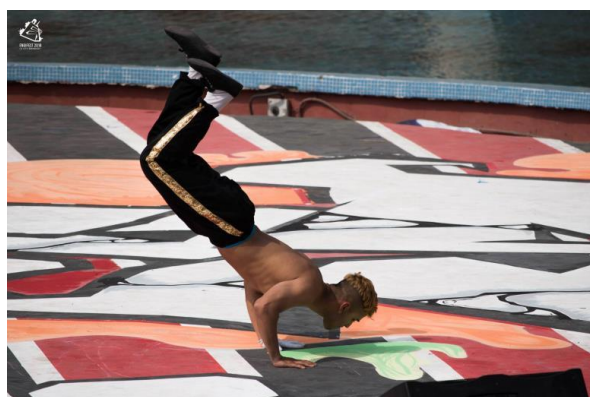
**Instru-Fuse:** Music doesn't always need a language to communicate, it communicates with the heart crossing the language barrier. This was justified by the performers in the event Instru-fuse where they displayed their talent with their musical instruments without any lyrics in their compositions, leaving the crowd delighted.



**Balladeers and Vocalicious:** After some thrilling musical performances for two days, it was the western music singers' chance to showcase their talent and Balladeers, the western group singing competition and Vocalicious, the western solo singing competition gave them the perfect platform to do so. The singers grabbed the opportunity with both hands and showcased some delightful performances for the crowd.

**Vrind and Engi-Idol:** The day 2 began with another event organised by Madhurima, the Music Society of DTU in association with Engifest'18. This time it was the chance for the Indian music singers to entertain the crowd. Vrind and Engi-Idol were the two music events of the day which are Indian Group Singing event and Indian Solo Singing event respectively.

**Spandan Solo – The Western Dance Competition:** Spandan is arguably the most awaited event of the fest. It is a western dance event organised by Vibe, The Western Dance Society of DTU in collaboration with Engifest'18 where the performers displayed the most electrified performance the crowd can ever witness.



**Akarewarewa Live Performance:** Engifest is not only a display of Indian Culture but now it has become a platform to display International Cultures. Whakarewarewa, a Tribal community from New Zealand was invited through the New Zealand embassy. Their performance was a perfect display of the tribal community which a totally new experience for the audience.



### Abhijeet Ganguly Stand-Up Comedy

Nothing can be better than an evening where you can sit back and enjoy some good punches of comedy in an event so to fulfil this Engifest'18 in association with Bingo Comedy invited Abhijeet Ganguly who lived up to the expectations and left the crowd giggling for the entire evening during his performance. His punch lines landed up so perfectly that the whole crowd went berserk.





### Amit Trivedi- Live Concert

Star Power- in its most tangible form. The musical sensation Amit Trivedi graced the event, giving us an evening of start-studded splendour. It was the one of most anticipated events of the fest, attracting huge crowds and adding a generous splash of glamour. It was a night full of energy, buoyancy and life.



**Paridhan – The Fashion Parade:** A celebration of style, confidence and grace. Paridhan, the much awaited fashion parade took place on the second day of the fest. Young confident girls carried themselves with such flawless elegance, that their beauty and grace mesmerised the audience and captivated all hearts. PARIDHAN is a celebration of beauty and grace.

### The Diaspora House – Live Performance

The Diaspora House is a band from Israel invited to perform in Engifest'18 in association with the Israel embassy whose aim is to preserve the unique heritage of Jazz and world music. The stage was set for them and this was the first time the crowd witnessed a live Jazz music performance in a fest.



**GURI – Live Performance:** Engifest'18 this year invited an upcoming Punjabi superstar Guri. As expected the artist did a magic on the crowd and pumped them with a whole new level of energy. Intensity of enthusiasm of both, the Punjabi superstar and the crowd, was sky high that night.



### **NATYA: Stage Play**

Pratibimb, the dramatics society of DTU, in collaboration with Engifest'18 organized Natya-Stage Play. NATYA was a zenith of heart-stopping, enthralling performances that brought the house down in sheer awe. The audience witnessed some enthralling performances by teams from not just Delhi colleges but from all across the nation.



## Spectrang: Creative and Art Competition

The object of art is not to reproduce reality, but to create a reality of the same intensity. Spectrang organised by kalakriti in association with Engifest' 18 was a platform where the artists could paint their dreams. It had three events: Shoe painting, Art and Furious and 3D art.



## Pangea Live Performance

Conventionality is the drudgery of everyday life. We prefer novelty in all aspects of life so why should our music be conventional as well. Pangea, an Indian Fusion Music Group was invited to give a different taste of music to the audience like they had never heard before.



## EDM Night- Bassjackers

The conclusion of the fest had to be with something big to make take it to a next level. So Engifest'18 invited Rank-35 DJ in DJ-Magazine BassJackers taking the fest to an international level. This was something happening for the first time in the entire Delhi circuit which attracted a crowd of more than 35,000 people making them dance to his beats. Engifest attained new heights by managing such a massive crowd and successfully fulfilling the expectations of all.



With this, the tenure for Cultural Council 2017-18 was concluded. All in all, we tried to give the best cultural environment to DTU.

**Participation of DTU Students in cultural fest at IIT Kanpur:** Students from DTU participate in a large number at Antaragini 2017 at IIT Kanpur from 20/10/17 to 23/10/17. In 2017, about 80 students from Vibe (Dance Society), Pratibimb (Dramatic Society) and Sahitya (Literary Society) participated in Antaragini. Ritwik Awasthi, Akshat Sharma and Parth Goel from Sahitya won 2nd position in Parliamentary Debate. Jayansh Gupta and Rajat Chugh secured 1st and 2nd position in JAM (Just a Minute) respectively.

### 9.7 Other Activities

#### **FORTITUDE 2018 (Quiz Fest)**

DTU organized the second edition of Fortitude, the quizzing festival from February 24, 2018 to February 26, 2018. It saw participation from over 250 teams from all over Delhi, NCR and Punjab including teams comprising of school students. The quiz fest consisted of five main quizzes, along with three filler/ written quizzes.

DTU gave Rs. 15,000 per main quiz and Rs. 3000 per filler quiz as award prize money. List of the quizzes held:

- 1: FLAME (Food, Literature, Art, Music, Entertainment) Quiz; Sports Filler Quiz; Myths, Occult, Macabre Filler Quiz
- 2: Business Quiz; General Quiz
- 3: Sci Tech Nature (Science, Technology and Nature) Quiz; Travel and Living Filler Quiz; India Quiz

The response to the fest was overwhelmingly positive, and the content and management of the fest by Delhi-42 was widely lauded by participants from both DTU as well as the Delhi Quizzing Circuit. The approximate footfall for the quiz fest was over 700 people. Students from Delhi, Gurgaon, Noida, Punjab and other places came in to attend the quiz fest.

**FORTUNE 2018:** The Accounting Skills and Stock Exchange Training Society (ASSETS) of DTU organized Fortune'18 as its annual financial and economic fiesta, on 28th March this year. Various competitions like Mock-Stocks, Quiz and Case Study presentation was held and guest lecture by the Mr. Varun Malhotra, the director of EIFS Pvt. Ltd.

**TEDxDTU 2018:** TEDx DTU 2018 was held on 18/03/18 that focuses on spreading new and brilliant ideas through the words of some of the greatest visionaries, innovators, problem solvers and connectors of the 21st Century. Their theme was "BECAUSE GREY MATTERS".

Some of the speakers were Laxmi Agarwal, Ms. Monica Dogra, Mr. Madhav Gadgil, Sukant Khurana, Onkar Khullar and Arnyani Bhargav.

**Swachh Bharat Student Internship:** Team SBSI-DTU worked with great enthusiasm in making their summer worthwhile, not only for themselves but also for the people of Karala village in Rohini. From spreading awareness to surveying, from talking to Government officials to cleaning the ghat at dadamandu temple themselves, they did it all. Deltech students interning with Swachh Bharat Abhiyan have shown exemplary efforts in the direction of what has been reminded to us time and again. They helped clean an entire area, while also encouraging others to do the same.

#### **Educational/ Industrial Trips**

- Students from the Department of Biotechnology went to Gangtok from 13/03/18 to 20/03/2018.
- Students from the Department of Applied Physics went to Dehradun from 14/04/18 to 21/04/2018.
- Students from the Department of Mechanical Engineering went to Rudrapur, Uttarakhand and from 29/05/18 to 01/06/18.
- Students from the Department of Applied Mathematics went to Nainital from 23/06/18 to 26/06/18.

## 10. Central Facilities

### 10.1 Training and Placement

**Head, T&P: Dr. R. S. Walia, Associate Professor**

#### INFRASTRUCTURE

Group Discussion Rooms:	2
Interview Rooms:	4
A/C Presentation Halls:	1
Office:	1
Head Office:	1
Placement Coordinator Room:	1
LED Projectors:	1
Interview Cabin:	14
Computer Center (for online tests):	140 computers

Marching from strength to strength Delhi College of Engineering, DCE is now “Delhi Technological University”. The upgradation of DCE into a technical university provides the necessary academic and administration autonomy to empower DCE to March on the path of academic and research excellence, as also to accelerate the pace of innovations. With the mission of providing leading industries with the brightest minds of country DTU entered the 2017-18 placement seasons with confidence. To help all students at DTU in fulfilling their dreams and provide them ample opportunities to apply for their dream profiles and companies T&P begins its placement season at the end of July for this academic year. In academic year 2017-18, a total of 292 organizations took part in campus placements and offered 1196 jobs. Students from Bachelor of Technology (B.Tech.), Master of Technology (M.Tech.), Master of Business Administration (MBA) programs in various fields of engineering and technology, participated in the placement process.

The process began in June 2018 by sending invitation to companies to visit the University for Pre-Placement Talks and provide their job announcements. The talks provided avenue for interaction and familiarization of students with the recruiting organizations and their work profile.

#### 10.1.1 Core Engineering and Technology

The students of DTU continued to demonstrate a strong commitment to their core educational background in the choice of employment. Majority of students opted for science, engineering and technology oriented jobs, with the recruiting companies operating in various sectors of the economy. Some companies that visited campus are Maruti, Tata Motors, Schlumberger, Turner, L&T, Hyundai Samsung Engineering and R&D, Daimler, Philips, Royal Enfield and many more.

### **10.1.2 IT and IT Enabled Services**

Over 124 leading IT firms, including several global leaders, visited DTU for campus placement this year. These organizations work with large corporations across the world and help them resolve complex business problems. Management Consulting companies especially carry a reputation of being very selective in their choice of campuses and of having extremely high standards in their recruitment process. Over 506 offers were made in the software firms Like, Google, Amazon, Directi, Microsoft IDC, Flipkart, Adobe, Texas Instrument, Paytm, Sap Labs and many more.

### **10.1.3 Consulting**

The well deserved reputation of superior analytical and reasoning skills of DTU graduates continued to draw recruiters from rapidly growing field of data analytics. There were 290 job offers from 66 organizations making it one of the biggest recruiters after engineering and information technology profile placements. The trend seen in the last two years seem to have taken strong roots at DTU. Some companies that visited are Barclays, Deloitte, Future First, ZS Associates, EXL, UHG, KPMG, Tower Watson and many more.

### **10.1.4 Teaching**

DTU has continued to provide faculty to several educational institutions and universities through campus placement over the past several years. Many post-graduate students have been offered jobs with public and private educational institutions through campus placement. The following educational institutes visited our campus Galgotia University, Vidyamandir Clases, Kshitiz Education, Aakash Institute.

### **10.1.5 Diverse Recruiters**

While the placement season has seen recruiters from the entire spectrum of the job industry, the initial part of the season was dominated by a variety of firms from sectors like engineering and manufacturing, computer software, data analytics, management consulting, finance/banking and FMCG. Most of these firms are world leaders in their respective domains like Nestle, Coca-Cola, Varun Beverages, Ernst & Young and many more.

### **10.1.6 Preparing All Rounder's**

This year a key focus of the Department of Training and Placement was to prepare the students for their placement. DTU students are expected to excel not only in technical knowledge but also in leadership, teamwork and other attributes. A large number of preparatory activities were conducted this year for the graduating students, including refresher lectures on various technical subjects. In addition, workshops to enhance communications skills, interview skills and group dynamics were also organized. Several talks with alumni working in diverse sectors were also organized to orient the students regarding different job requirements.

### 10.1.7 Placement Training Session

Placement training sessions conducted by Department of Training and Placement, DTU were attended by more than 678 students which comprised of 15 sessions and included sessions on group discussions, mock interviews, case study, and resume writing. The sessions were addressed by faculty and many fourth year students who are currently placed at different companies.

The successful student placement in 2017-2018 clearly demonstrated the demand of DTU graduates among the top recruiters in various segments of the economy. The recruiters appreciated the knowledge and training of our students. A majority of our past recruiters held their faith in our student's abilities and came to recruit in large numbers. The year also saw several new organizations visiting DTU for the first time, and we look forward to fostering long-term relationship with all these organizations.

The achievement of the Department of Training and Placement, combined with excellent academic system and the opportunity for all-round development, has also contributed to making DTU as a preferred destination of students and industries.

The success of the placement endeavour can be attributed to the outstanding quality of our students as well as the tremendous support provided by the Institute administration, academic units, faculty and staff, alumni and other well-wishers. The Department of Training and Placement thank them and look forward for their continued support.

### 10.1.8 Training and Placement Office's Visit for Building Corporate Relationship

**Accenture:** A global professional services company, providing services and solutions in strategy, consulting, digital, technology and operations. The company's business is structured around five operating groups, which together comprise thirteen industry groups serving clients in major industries around the world, namely, Communications, Media & Technology, Financial Services, Health & Public Service, Products and Resources. Head, Training and Placement, attended the annual TPO meet organized by ACCENTURE to enhance a cordial relationship with them.

**HCL, Noida:** It is an Indian multinational IT services company, headquartered in Noida, Uttar Pradesh. With the vision of bridging the gap between the company and the leading institutes of the country, HCL organized a TPO meet which was attended by Prof. R.S. Walia, Head, Training and Placement.

**Larsen & Toubro Limited:** commonly known as L&T, is one of the largest Indian multi-national firm headquartered in Mumbai, Maharashtra, India. The company has business interests in engineering, construction, manufacturing goods, information technology, and financial services, and has offices worldwide. Awarded



### 10.1.9 Gold Partner

**Maruti Suzuki India Limited:** formerly known as Maruti Udyog Limited, is an automobile manufacturer in India. It is a 56.21% owned subsidiary of the Japanese car and motorcycle manufacturer Suzuki Motor Corporation.

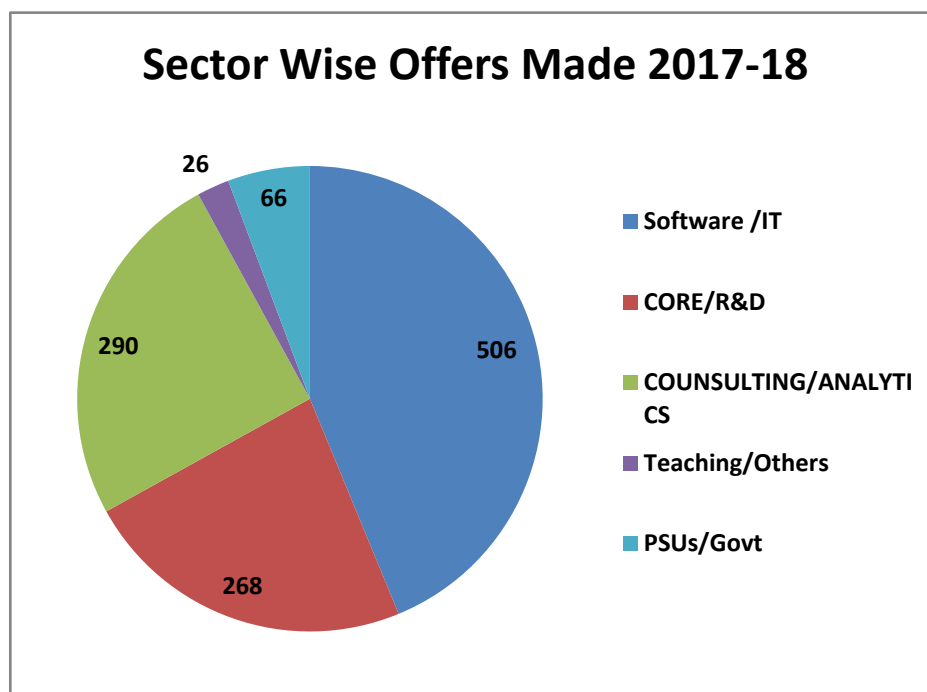
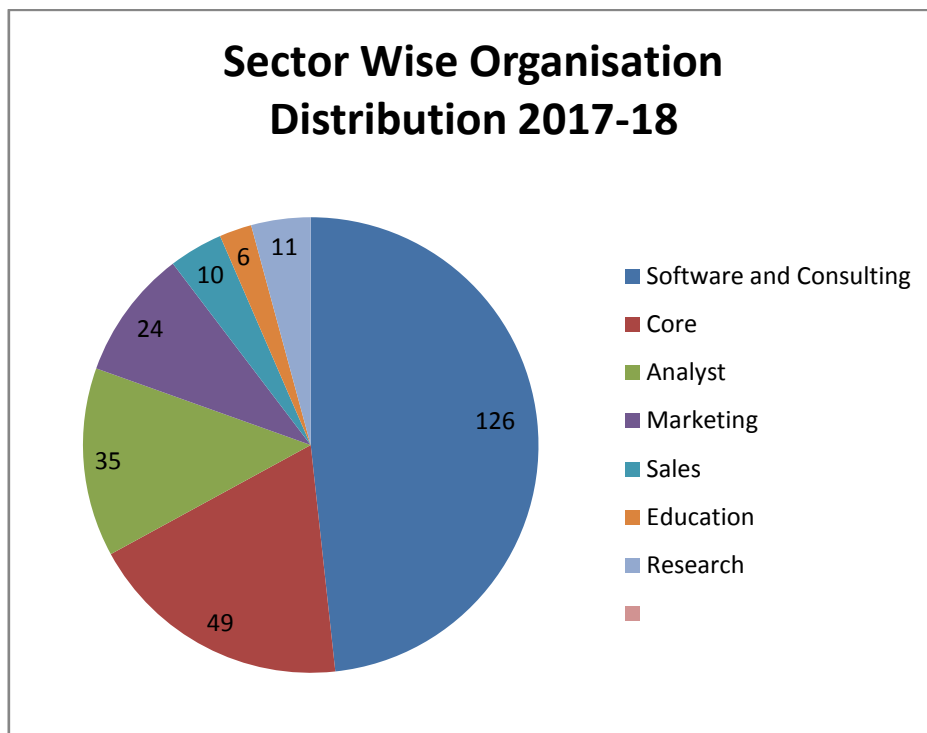
Some other companies visited by the training and placement department are Shri Ram Piston, Bechtel and Continental Engines and many more.

#### Program-wise Placement Data for 2017-2018

Program	Offers Made	Highest Package Offered
<b>B.Tech.</b>	1053	52.22
<b>M.Tech.</b>	71	30 LPA
<b>MBA</b>	32	9 LPA

#### Placement Detail Sector-wise 2017-18

S. No	Sector	Number of Organizations	Number of offers Received
1	Software	124	506
2	Core/R&D	83	268
3	Consulting/Others	66	290
4	Govt. (PSU & Defense)	11	66
5	Teaching	8	26
	<b>TOTAL</b>	<b>292</b>	<b>1156</b>



## 10.2 Dr. B. R. Ambedkar Auditorium

The University has equipped, fully air-conditioned, state of art audio visual infrastructure for web casting in an auditorium having seating capacity of six hundred and fifty.



## 10.3 Sports and Gymnasium

**Director Physical Education: Dr. A.K Srivastava**

### 10.3.1 Facilities

The students of Delhi Technological University are provided with excellent facilities and encouraged to take part in the tournaments held in and around NCR Delhi, particularly, engineering institutions. Delhi Technological University is having 400m running track, ground for Football, Hockey, Cricket, two courts for Volley Ball, two courts for Basketball, three courts for Tennis and five courts for Badminton, Three Kabaddi courts, Indoor Games facilities are also provided i.e. Table Tennis rooms, Chess rooms, Carom rooms and Gyms are also available in each hostel of the DTU campus. Sports council of DTU has organized several tournaments during 2017-18 academic sessions. The university has well equipped gymnasium with the modern equipments. The university students, faculty and staffs utilise this facility. There are two full gymnasiums in the university, one is situated in the sports ground and yet another is situated in the faculty residential area which is generally used by girl's students also.



**The DTU Gymnasium**

### 10.3.2 DTU 2017-18 – Sports performance

**UDGHOSH 2017** – IIT Kanpur (U.P) October 12th – 15th 2017. DTU 160 Sports Contingent, participated in various games i.e Athletics, Badminton, Basketball, Cricket, Football, Chess, Lawn Tennis, Squash, Table Tennis, Power lifting and Volleyball. Results are given below:

- i. Cricket- Reached Pre R.F
- ii. Football- Silver Medal and Trophy
- iii. Volley ball- Women (R.F) and Men (Pre R.F)
- iv. Table Tennis- R.F
- v. Lawn Tennis- Silver Medal and Trophy
- vi. Badminton – Pre R.F
- vii. Powerlifting- Gold Medal
- viii. Athletic- Silver Medal in High Jump

**10.3.4 ARENA – 2017** – DTU Inter Department Sports Fest, 28th to 31st October, 2017. DTU Sports Council organized Interdepartmental sports competition for various games i.e Athletics, Badminton, Basketball, Chess, Cricket, Football, L.T, T.T, Power lifting, Squash, Volleyball along with Indian Games i.e Kabaddi during 25th – 31st October, 2017 in the Sports Complex of DTU.

DTU participated in Maharaja Agrasen Institute of Technology (MAIT) 7th Annual Volleyball Tournament during 2nd and 3rd November, 2017.

DTU Sports Council organized 1st International Sports & Fitness Expo- 2017 (ISFE) during 16<sup>th</sup> to 20<sup>th</sup> December, 2017.

DTU Sports Council organized 1st time Multi Sports Event for physically challenged athlete's i.e 10<sup>th</sup> Delhi State Para Athletics, Power lifting and Table Tennis championship; during 23<sup>rd</sup> to 25<sup>th</sup> Feb 2018 in the Sports Complex of DTU. 700 athletes (Boys & Girls) participated in the championship.

**10.3.5 DTU in SPORTECH-18;** 23<sup>rd</sup> to 26<sup>th</sup> Feb 2018; IIT Delhi. DTU 85 Sports Contingent participated in various game i.e Athletics, Badminton(B+G), Basketball(B+G), Football(B), L.T(B), Squash(B), T.T(B), and Volleyball(B), in SPORTECH-18: during 23rd to 26th Feb 2018 at IIT Delhi.

**10.3.6 AAHVAAN 2018** - The 3<sup>rd</sup> Inter College Sports Fest of Delhi Technological University was held during 23<sup>rd</sup>-26<sup>th</sup> March, 2018. About 200 contingents from different college participated in the event. AAHVAAN 2018 was a really successful event and DTU registered landmarks in various games.



## 10.4 Health Centre

### Officer-Incharge: Dr. Rajesh Birok

The DTU is having a modest Health Centre manned by well experience medical Doctors. Services of five medical practitioners are available to the students throughout day and evening. The University health centre is also visited by specialized medical practitioners for ENT, Eye, Dental care etc. for expert advice and treatment. University is also having tie up with nearby leading hospitals for emergency. A large number of hospitals are in the vicinity of the University; some of them are Dr. B. R. Ambedkar Hospital, Saroj Hospital, Mahavir Hospital, Jaipur Golden Hospital, and Satyam Hospital etc.

A new sports medicine-cum-physiotherapy centre has been added to provide the necessary expert advice. The following Doctors engaged in the university health centre.

S. No.	Name	Expert	Days
1.	Dr. Ravi Bansal	General Physician	Monday to Saturday (6 days in a week)
2.	Dr. Rajesh Singhai	General Physician	Monday to Saturday (6 days in a week)
3.	Dr. Arpana Bansal	Eye Specialist	Monday, Wed and Friday (3 days in a week)
4.	Dr. Bharat Bhushan Sethi	Dentist	Monday to Saturday (6 days in a week)
5.	Dr. Subodh Mor	Sports Medicine-cum- Physiotherapist (MPT)	Monday to Saturday (6 days in a week)

- New doctors engaged in the departments of
  - Gynecology: Dr Nishi Jha
  - Psychiatry: Dr Gaurav Gupta
  - Clinical Psychology:-Dr Neha Golchha
- Two qualified new nursing staff [One Male and One Female] deputed to provide adequate nursing facility to all the stake holders' viz., students, faculty staff etc.
- Salary of doctors hiked up to 50%.
- TI doubled from existing Rs 25,000/- to Rs 50,000/- to meet out the medicine and other consumables procurement expenditure.
- Generic medicines inventory improved and expanded with the intake of new medicines including rabies vaccines.
- New non-consumable items added such as
  - Stretcher,
  - New Air Conditioners installed in all the departments,

- New furniture such as tables, chairs, stools and benches
- RO Water purifier system.
- Renovation related to civil and electrical works carried out nearly in all the departments of the health center.
- Purchase of new medical diagnostic and testing equipment is under process.
- Tie up undertaken with nearest hospital viz., Ishaan Hospital, Sector-18, Rohini during medical emergency.
- Sign/flex boards put at all the prominent places to display vital information related to emergency services details, depression, stress symptoms and management.
- 30 First aid boxes procured through stores and purchase for the distribution in the departments and central utilities of the university.
- Under the University Student Internship Program [USIP] one such student was engaged to carry on routine assignments related to university health Centre.
- AMC implemented through M/s Biotic Waste Solutions Pvt. Ltd. for the collection, transportation, treatment and disposal of the biomedical waste of the health center.

## 10.5 Transport Office

**Transport Officer- Dr.Nitin Kumar Puri**

**Sh. A.K Chauhan - Consultant**

The university has established a transport office with the following vehicles which are available in the University for Official Duties time to time.

S. No.	Type Vehicle	Registration No.	Drivers
1.	Honda city	DL-10CA-2100	Amrender Jha (Out Source)
2.	Omni Van	DL-5CD-9975	Ravinder Kumar (Out Source)
3.	Ambassador	DL-8C-NA-3902	Satish Yadav (Out Source)
4.	Ambassador	DL-8C-J-3827	Updesh Saini (Contractual)
5.	Scorpio	DL-4C-NB-4918	Sukhwant Singh (Contractual)
6.	Ambulance	DL-1A-2507	Mukesh (Permanent)

- The University also maintains a 35 seater CNG Bus (Swaraz Mazda, DL-1PC-3419) for the transportation of the University students and staff from nearest metro station (Badli/ Rithala) to the university campus Seven times in a day the bus is also provided for various educational and industrial tours by the students in the nearby areas.
- A Circular was issued vide F.No.DTU/Reg./Circular/2017-18/16 dated 07.09.2017.
- Further, all were informed that University has limited number of vehicles and drivers. Large numbers of requests for vehicles were received at the last moment so all were requested to send their requisition 24 hours in advance.



## 10.6 Estate and Work

### 10.6.1 Review of Existing Infrastructure

The Delhi Technological University Campus at Bawana Road, was raised in 1997-98. While the total campus plot area is 163.87 acres (663154.03 sqm), only a part of it was constructed in the first phase of construction keeping in mind a target student population of 3,000 at that time. The approved area utilization norms followed are as under:

- Academic: 45% (73.23 Acres)
- Residential: 25% (40.68 Acres)
- Green/Open: 15% (24.41 Acres)
- Sports/Cultural: 15% (24.41 Acres)

Accordingly, the first phase of construction which was completed around 1997-98 comprised of a total built up area of 1, 58,840.41SqM with the break-up as follows:

- Academic Area 69,146.03 Sqm.
- Hostel Area 50,607.40 Sqm.
- Residential Area 39,086.98 Sqm.

The details of administrative and academic blocks of Delhi Technological University along with its corresponding approximate ground coverage and covered area details are as given below:

#### Administrative and Academic Blocks

S. No.	Type of Block	Total Gr. Coverage (SqM)	Total Covered Area on all Floors (SqM)
1.	Administrative Block	1879.40	4063.66
2.	Electrical Block	9628.64	23684.49
3.	Electronics	9628.64	23684.49
4.	Civil Engineering Block	9628.64	23684.49
5.	Mechanical Engineering Block	4208.83	14291.10
6.	Workshop Block	3416.20	3416.20
7.	Science Block	2817.43	8667.78

### 10.6.2 Existing Administrative and Academic Blocks

- Administrative Block
- Electrical, Electronics and Civil Engineering Blocks
- Mechanical Engineering Block
- Workshop Block
- Science Block

The details of various central administrative and academic facilities at Delhi Technological University along with its corresponding approximate ground coverage and covered area details are as given under: -

#### 10.6.4 Central Administrative and Academic Facilities

S. No.	Description of Block	Student Capacity	Total Gr. Coverage (SqM)	Total Covered area on all floors (SqM)
1.	Main Library	400	2000.00	5500.00
2.	Computer Centre	300	1500.00	3000.00
3.	Multipurpose Lecture Theatre cum Seminar Hall (Auditorium)	550	2500.00	3000.00
4.	Senate Hall	45	72.00	72.00
5.	Exposition Hall	45	84.00	84.00
6.	Smart Class room -I	90	144.00	144.00
7.	Smart Class room -II	90	144.00	144.00
8.	Seminar Hall (RN 307)	25	112	112
9.	Edusat Hall	40	-	-

#### 10.6.5 Central Administrative and Academic Facilities

- Main Library
- Computer Centre
- Multipurpose Lecture Theatre cum Seminar Hall (Auditorium)
- Senate Hall
- Smart Class Room
- Seminar Hall

The details of existing hostel accommodation for boys and girl students including capacity of each hostel and corresponding approximate ground coverage and covered area details are as given below.

S. No.	Hostel Name	Capacity	Total Gr. Coverage (SqM)	Total Covered area on all floors (SqM)
1.	VVS Boys Hostel	178	11875.02	47500.08
2.	JCB Boys Hostel	178		
3.	VMH Boys Hostel	178		
4.	CVR Boys Hostel	178		
5.	BCH Boys Hostel	178		
6.	HJB Boys Hostel	166		

S. No.	Hostel Name	Capacity	Total Gr. Coverage (SqM)	Total Covered area on all floors (SqM)
7.	Ramanujan Boys Hostel	65		
8.	Aryabhata Boys Hostel/ Type-I	168		
9.	Type – II B – 5, Boys Hostel	24		
<b>Total Boys :-</b>		<b>1313</b>		
1.	KCH Girls Hostel	45	776.83	3107.32
2.	SNH Girls Hostel	99		
3.	Type-III Block 1 Girls Hostel	70		
4.	Type-III Block 2 Girls Hostel	48		
5.	Type – II Block – 1 Girls Hostel	66		
6.	Type – II Block –2,3, 4 Girls Hostel	72		
<b>Total Girls :-</b>		<b>400</b>		
<b>Grand Total :-</b>		<b>1713</b>		

#### 10.6.6 Existing Hostels

- JCB Hostel
- VMH Hostel
- CVR Hostel
- BCH Hostel
- HJB Hostel
- Ramanujan Hostel
- Aryabhata Hostel
- Type – II B – 5
- KCH Hostel
- SNH Hostel
- Type-III Block 1 & 2 Girls Hostel

The details of residential accommodation for faculty and staff members including numbers of different type of houses with its corresponding approximate ground coverage and covered area details are as given below.

**10.6.7 Residences**

S. No	Type	No	Total Gr. Coverage (SqM)	Total Covered area on all floors (SqM)
1.	Type VI Residence	1	200.00	250.00
2.	Type V Residence	56	2984.68	11938.72
3.	Type IV Residence	60	15650.56	6262.24
4.	Type III Residences	45	878.28	3513.12
5.	Type II Residence	105	1679.37	6717.48
6.	Type I Residence	60	803.12	3212.48
7.	<b>Total</b>	<b>327</b>		

**10.6.8 Residential Area**

- Type-I, Residence
- Type-II, Residence
- Type-III, Residence
- Type-IV, Residence
- Type-V, Residence
- Type-VI, VC Residence

The details of various central amenities provided in the campus for resident's boys and girl students including capacity of each hostel and corresponding approximate ground coverage and covered area details are as given below.

S. No.	Description of Blocks	Total Gr. Coverage (SqM)	Total Covered area on all floors (SqM)
1	Guest House (8 Double Bedded Rooms)	414.46	828.92
2	State Bank of India	2984.68	2984.68
3	Post Office	878.28	878.28
4	12 bedded hospital	782.40	1267.00
5	Nursery School (currently under occupation with PWD)	800.00	800.00
6	Main Canteen	700.00	1500.00

### 10.6.9 Central Amenities Area

- State Bank of India
- Post Office
- 12 Bedded Hospital
- Nursery School (Currently used by PWD)
- Main Canteen

### 10.6.10 Master Plan 2021: Delhi Technological University

The overall master plan envisaged for the Delhi Technological University to be constructed in different phases is summarised below: -

Permissible	Land (%)	Area (Sq.m.)	Ground Cov. (Sq.m.)		FAR (Sq.m.)		Height (Mts.)
Academic	45%	2 96 361	88 908	30.00%	3 55 634	120.00%	37
Residential	25%	1 64 645	54 876	33.33%	3 29 291	200.00%	NR
Community Spaces, Sports and cultural	15%	98 787	9 879	10.00%	14 818	15.00%	26
Parks and Landscaped Open Area	15%	98 787					
<b>Total</b>		<b>6 58 581</b>	<b>1 53 663</b>		<b>6 99 742</b>		
Existing	Land (%)	Area (Sq.M.)	Ground Cov. (Sq.M.)		FAR (Sq.M.)		Height (Mts.)
Academic	45%	2 96 361	30 673	10.35%	69 146	23.33%	16
Residential	25%	1 64 645	25 284	15.36%	89 694	54.48%	14.8
Community Spaces, Sports and cultural	15%	98 787	850	0.86%	850	0.86%	3.6
Parks and Landscaped Open Area	15%	98 787					
<b>Total</b>		<b>6 58 581</b>	<b>56 807</b>		<b>1 59 689</b>		

Proposed	Land (%)	Area (Sq.M.)	Ground Cov. (Sq.M.)		FAR (Sq.M.)		Height (Mts.)
Academic	45%	2 96 361	39 425	13.30%	2 41 069	81.34%	36.45
Residential	25%	1 64 645	29 310	17.80%	1 89 166	114.89%	41.85
Community Spaces, Sports and cultural	15%	98 787	4 060	4.11%	5 846	5.92%	15
Parks and Landscaped Open Area	15%	98 787					
<b>Total</b>		<b>6 58 581</b>	<b>72 795</b>		<b>4 36 081</b>		
Total	Land (%)	Area (Sq.M.)	Ground Cov. (Sq.M.)		FAR (Sq.M.)		Height (Mts.)
Academic	45%	2 96 361	70 098	23.65%	3 10 215	104.67%	36.45
Residential	25%	1 64 645	54 594	33.16%	2 78 860	169.37%	41.85
Community Spaces	15%	98 787	4 910	4.97%	6 696	6.78%	15
Ancillary Services	15%	98 787					
<b>Total</b>		<b>6 58 581</b>	<b>1 29 602</b>		<b>5 95 771</b>		

### 10.6.11 Infrastructure proposed to be constructed in Phase II (Stage 1)

A proposal for construction of various academic and hostel buildings is under active consideration of the Govt of NCT Delhi. The second phase of construction at DTU submitted to the Govt includes construction of:

- i. Boys and Girls Hostels.
- ii. Academic Blocks for the Newly Added UG and PG programs.
- iii. Built-up space for the ongoing and future research and development centres.
- iv. Built-up space for School of Management and Centre for Innovation and Techno-entrepreneurship.

The buildings proposed in Phase - II (Stage-I) and proposed area statement is as given below: -

S. No.	Building Names	Ground Coverage (Sq.m)	Built Up Area (Sq.m.)	No. of Storey
1	Boys Hostel H5	519	5895	B+G+11
2	Girls Hostel HG5	426	5937	B+G+11
3	Girls Hostel HG6	426	5937	B+G+11
4	Academic Block AB3	1809	18436	B+G+8
5	Academic Block AB4	2285	23198	B+G+8
	<b>Total</b>	<b>5465</b>	<b>59403</b>	

### Expansion of DTU campus Ph-II: Phase-wise Construction plan



PHASE II

### Proposed Buildings in Phase II with Existing Buildings of Phase-I

### 10.6.12 East Delhi Vivek Vihar Campus

The Hon'ble Lt. Governor, Delhi has pleased to allow the use of existing Campus of Shaheed Sukhdev College of Business Studies, University of Delhi, and Vivek Vihar for running East Campus of Delhi Technological University (DTU) on temporary basis. Consequent upon this, new session for conducting various courses has been started at DTU East Delhi Campus at Vivek Vihar during the year 2017-18. Hon'ble Chief Minister of Delhi inaugurated the new Campus of DTU on 18<sup>th</sup> August, 2017. The existing plot area of DTU East Delhi Campus at Vivek Vihar is 8341 Sqm. (2.06 acre). The built up area comprising of the following buildings are as follows.

S. No.	Name of Building	Area (Sqm)	Remarks
1	Main Building	4,417.00	Four Storied
2	University School of Management and Entrepreneurship	576.68	Double Storied
3	Class Room Block-A & Canteen	382.11	Single Storey
4	Class Room Block-B	516.16	Double Storied
	<b>Total</b>	<b>5,941.65</b>	

### East Delhi (ITI Mayur Vihar) Campus

A piece of land measuring 4852.8 sq.m. Has been allotted initially in ITI Mayur Vihar Campus for Establishment of East Delhi Campus/Constituent College of Delhi Technological University by the DTTE. For development of Campus the soil investigation work has already been carried out by PWD.



## 10.7 Purchase Office

The Stores section has a quality system of Inventory management, which involves updated records of all stores/equipment's received and issued to the user department, Annual Stock Verification and Disposal of obsolete/unserviceable stores/equipment.

The Purchase section has a quality procurement policy. The important Consideration in purchase of Goods or services are (a) Quality (b) Reliability (c) efficiency (d) accountability and (e) Economy – Efforts are being made to ensure placement of contract/ Purchase Order within the original validity of the bids. Specified quality and reliability of the supplier has to be taken into consideration with low cost involvement. The purchase procedure being followed in this University is based on the guidelines enumerated in the General Financial Rules 2017.

This university has various committees of the faculties/officers for making purchases.

1. Central Purchase Committee (CPC): The committee has been constituted consisting of the senior faculty members for the purpose of scrutiny/evaluation of all the purchase proposals of all the department of the University, which are having the estimated cost of the item more than Rs. 25 Lakhs and submits its recommendation to the Vice Chancellor, DTU.
2. Computer and Computer Peripherals Committee (CCPC): The committee is constituted for the purposes of evaluation of all the purchase proposals pertaining to Computer and its peripherals and submits its recommendation to the Competent Authority.
3. Departmental Purchase Committee (DPC): The committee has been constituted at the department level under the Chairmanship of respective HOD of the Departments to securitize/evaluate technical /financial bids of all the purchase proposals pertains to their department, which are below Rs. 25 Lakhs and to submit its recommendation to the Competent Authority.
4. Other than the above mentioned committees, the following committee are also constituted:
  - i. Stationery & Printing Committee and Miscellaneous Items Committee.
  - ii. Liveries Committee
  - iii. Chemical & Glassware Committee.
  - iv. Sports Council.

The Purchase office consists of the following employees for its smooth functioning.

- Officer in charge store and purchase
- Chief Store Keeper
- Consultant (S & P)
- Store Keepers
- Assistant Store Keepers



## 11. Other Facility

### 11.1 DTU Studio

- The Television Studio at Delhi Technological University is an example of Innovation and Industry Academia Collaboration. The spacious television studio can handle Pre-Production, Production and Post-Production activities for various activities like Interview, Panel Discussion, short plays, lectures, etc.
- DTU Studio comprises of a multi camera setup with lighting grids and a Teleprompter, Production control room with control panels which can handle multiple video and audio sources online and offline, Graphics and special effects generators, video edit suites with a Mac equipped with Final Cut Pro Video Editing software, Motion, Live-Type, EDIUS 9.0 video editing software and Photoshop CS6, etc.
- Our experienced and competent team of professionals renders these services by making use of ultra-modern technology with quality standards in tandem with exact requirements and necessities as required. The offered services are highly demanded for their unique characteristics such as reliable solution, flexible approach, hassle-free management, promptness and professional approach.
- The students of Delhi Technological University are engaging in a whole range of In-house and Outdoor production activities. These activities are widely admired for their timely execution, promptness and hassle-free operations. In addition to this, trouble free operation and promptness of these activities is our strength and are rendered in the best possible way.

#### 11.1.2 Infrastructure

- DTU STUDIO is having facility of two studios at Delhi Technological University. It has the facility of Indoor production as well as Outdoor production. One of the studios has the facility of Teleprompter, Chroma keying with virtual studio sets and all necessary equipments for video production.
- DTU STUDIO is equipped with sophisticated high end broadcasting quality equipments for production like Three Sony studio camera, Two Camcorder, Two Still camera, One Non-Linear Editing machine Mac Pro with Final Cut Pro Video Editing software, One Dell Precision T 7500 Workstation, One 7 Dell Precision tower 7810 dual Intel Xeon Workstation, VT-5 Live switcher, Sony D-800 Live switcher, Newtek live audio and video switcher, Two Yamma O1V96 digital Audio Consol, Two lite-puter CV12.

#### 11.1.3 Utilization

- At present DTU STUDIO has started its web series “**ROOBAROO**” where aluminizes of DCE/DTU share their valuable life type experience with the audience and the same programmers are uploaded at the official You-Tube page “**DTUSTUDIO16**”.

- DTU STUDIO is covering all university Events, International Conferences, Departmental workshops, lab experiments, Student Fest, Alumni Meet as well as the Global Initiative of Academic Networks (GIAN) in Higher Education Programs where renowned Experts faculty, Guest Lectures from internationally and national faculty lectures are recorded.

#### 11.1.4 Services being offered

- With the support of our in-house facilities, we are busy in offering Pre production, Production and Post Production Facility for recording various programs like Interview, Panel Discussion, short plays, lectures, etc in the spacious television studio of the university located at the 1<sup>st</sup> floor of Civil/Environment Engineering department.
- To offer these services, we have hired skilled and innovative professionals that hold in-depth knowledge and immense experience in their respective domain. The offered services are committed for their flexibility, reliability and timely execution.
- Apart from this, we are engaged in offering an impeccable quality of Outdoor Photography and Video Production Service with respect to suit the exact preferences as required. These services are available in various customized solutions as per the requirement. These services are widely admired for their timely execution, promptness and hassle-free operations.

## 11.2 Guest House

- The guest house within the campus is meant for the staying purpose of individuals visiting DTU. The rooms are comfortable with all modern facilities available within. It consists of eight double bedded rooms. Mr. Rajesh Rohilla, Associate Professor in Department of Electronics Engineering is the officer incharge.



**Guest House (8 Double Bedded Rooms)**

## 12. University Accounts (Audited)

### 12.1 Balance Sheet

<b>BALANCE SHEET AS AT 31ST MARCH, 2018</b>			
	<b>Schedule</b>	<b>As at 31-03-2018</b>	<b>As at 31-03-2017</b>
		<b>(Rs)</b>	<b>(Rs)</b>
<b>SOURCES OF FUNDS</b>			
<b>CAPITAL FUND</b>	<b>1</b>	<b>3,34,73,81,600.54</b>	<b>1,41,12,32,860.97</b>
<b>CORPUS FUND</b>	<b>1A</b>	<b>41,60,89,799.00</b>	<b>39,09,81,876.00</b>
<b>DESIGNATED/EARMARKED/ ENDOWMENT FUNDS</b>	<b>2</b>	<b>72,52,42,856.72</b>	<b>73,71,23,273.37</b>
<b>CURRENT LIABILITIES AND PROVISIONS</b>	<b>3</b>	<b>9,89,75,992.00</b>	<b>9,67,47,174.00</b>
<b>TOTAL</b>		<b>4,58,76,90,248.26</b>	<b>2,63,60,85,184.34</b>
<b>APPLICATION OF FUNDS</b>			
<b>FIXED ASSETS</b>	<b>4</b>		
Tangible Assets		<b>2,56,99,93,605.00</b>	<b>34,32,49,518.00</b>
Intangible Assets			
Capital Work In Progress		<b>57,13,445.00</b>	<b>51,24,70,457.00</b>
<b>INVESTMENTS FROM EARMARKED FUNDS</b>	<b>5</b>		
Long Term		<b>99,54,13,725.00</b>	<b>66,91,56,052.00</b>
Short Term			
<b>INVESTMENTS - OTHERS</b>	<b>6</b>	<b>37,88,12,430.00</b>	<b>70,19,49,600.00</b>
<b>CURRENT ASSETS</b>	<b>7</b>	<b>57,21,32,353.26</b>	<b>36,68,09,965.34</b>
<b>LOANS, ADVANCES AND DEPOSITS</b>	<b>8</b>	<b>6,56,24,690.00</b>	<b>4,24,49,592.00</b>
<b>TOTAL</b>		<b>4,58,76,90,248.26</b>	<b>2,63,60,85,184.34</b>

## 12.2 Income and Expenditure

<b>INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2018</b>			
	<b>Schedule</b>	<b>2017-2018</b>	<b>2016-2017</b>
		<b>(Rs)</b>	<b>(Rs)</b>
<b><u>INCOME</u></b>			
Academic Receipts	<b>9</b>	<b>68,07,51,973.16</b>	<b>64,17,84,267.75</b>
Grant in Aid	<b>10</b>	<b>27,00,00,000.00</b>	<b>25,50,00,000.00</b>
Income From Investments	<b>11</b>	<b>4,77,56,755.00</b>	<b>5,18,83,364.00</b>
Interest Earned	<b>12</b>	<b>-</b>	<b>-</b>
Other Incomes	<b>13</b>	<b>4,53,16,371.69</b>	<b>2,75,53,157.50</b>
Prior Period Income	<b>14</b>	<b>-</b>	<b>-</b>
<b>TOTAL (A)</b>		<b>1,04,38,25,099.85</b>	<b>97,62,20,789.25</b>
<b><u>EXPENDITURE</u></b>			
Staff Payments & Benefits (Establishment Expenses)	<b>15</b>	<b>57,79,69,999.00</b>	<b>49,57,79,366.00</b>
Academic Expenses	<b>16</b>	<b>4,57,93,370.00</b>	<b>8,86,67,734.02</b>
Administrative and General Expenses	<b>17</b>	<b>19,27,64,348.00</b>	<b>13,39,39,175.00</b>
Transportation Expenses	<b>18</b>	<b>10,97,228.00</b>	<b>5,41,681.00</b>
Repair and Maintenance	<b>19</b>	<b>5,56,61,210.00</b>	<b>5,97,22,998.00</b>
Finance Costs	<b>20</b>	<b>1,44,719.78</b>	<b>82,085.63</b>
Depreciation	<b>4</b>	<b>12,39,68,207.00</b>	<b>-</b>
Other Expenses	<b>21</b>	<b>-</b>	<b>-</b>
Prior Period Expenses	<b>22</b>	<b>-</b>	<b>-</b>
<b>TOTAL (B)</b>		<b>99,73,99,081.78</b>	<b>77,87,33,039.65</b>
Balance being Excess of Income over Expenditure		<b>4,64,26,018.07</b>	<b>19,74,87,749.60</b>
Transfer To/From Designated Fund			
Building Fund		<b>-</b>	<b>-</b>
Others (specify)		<b>-</b>	<b>-</b>
Balance Being Surplus/(Deficit) Carried To Capital Fund		<b>4,64,26,018.07</b>	<b>19,74,87,749.60</b>

## 12.3 Receipts and Payment

RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2018					
Amount in Rupees					
RECEIPTS	As at 31.03.2018	As at 31.03.2017	PAYMENTS	As at 31.03.2018	As at 31.03.2017
I. Opening Balance			I. Payments		
a) Cash Balance	-	-	a) Establishment Expenses	57,79,69,999.00	49,57,79,366.00
b) Bank Balance	-	-	b) Academic Expenses	4,57,93,370.00	8,86,67,734.02
i. In Current accounts	-	-	c) Administrative Expenses	19,27,64,348.00	13,39,39,175.00
ii. In Deposit accounts	-	-	d) Transportation Expenses	10,97,228.00	5,41,681.00
iii. Saving accounts	36,68,09,965.34	56,53,81,629.74	e) Repair and Maintenance	5,56,61,210.00	5,97,22,998.00
			f) Finance Costs	1,44,719.78	82,085.63
			g) Prior Period Expenses	-	-
II. Grant Received			II. Payments against Earmarked / Endowment Fund	20,07,45,420.45	12,44,41,569.00
a) From Government of India	-	-			
b) From State Government					
(i) For Capital Expenditure	1,25,00,000.00	-			
(i) For Revenue Expenditure	27,00,00,000.00	25,50,00,000.00			
c) From Other sources (details) (Grants for capital & revenue exp / to be shown separately if available)	-	-			
III. Academic Receipts	68,07,51,973.16	64,42,92,267.75	III. Payment against Sponsored Projects/ Schemes	-	-
IV. Receipts against Earmarked / Endowment Funds	48,51,64,680.30	25,16,25,813.00	IV. Payment against Sponsored Fellowships / Scholarships	-	-
V. Receipts against Sponsored Projects/ Schemes	-	-	V. Investment and Deposits made		
			a) Out of Earmarked /Endowment Funds	1008288386	788478056
			b) Out of own funds (Investments-Others)	876870819	1491689863
VI. Receipts against Sponsored Fellowships and Scholarships	-	-	VI. Term Deposits with Scheduled Banks	-	-
VII. Income on Investments from			VI. Expenditure on Fixed Assets and Capital		
a) Earmarked / Endowment funds	4,87,32,524.00	4,91,33,951.00	Works - in - Progress		
b) Other Investments	3,59,74,246.00	3,58,55,416.00	a) Fixed Assets	14,81,31,193.00	4,97,35,102.00
			b) Capital Works - in - Progress	14,99,34,520.00	17,93,02,627.00
VII. Interest Received on			VII. Other Payments including Statutory payments	12,82,19,202.00	12,28,26,164.00
a) Bank Deposits	-	-			
b) Loan and Advances	-	-			
c) Saving Bank Accounts	30,04,541.00	23,46,236.00			
IX. Investments encashed	1,88,20,38,702.00	1,94,52,81,971.00	IX. Refund of Grants	-	-
X. Term Deposits with Scheduled Banks encashed	-	-	X. Deposits and Advances	-	-
XI. Other Income (including Prior Period	-	-	XI. Other Payments	12,87,404.00	8,98,055.00

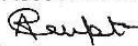
Income)					
XII. Deposits and Advances	-	-	I. Closing Balance	-	-
			a) Cash in hand	-	-
			a) Bank Balance	-	-
			In Current accounts	-	-
			In Saving accounts	57,21,32,353.26	36,68,09,965.34
			In Deposit accounts	-	-
XIII. Miscellaneous Receipts including Statutory Receipts.	17,40,63,540.69	15,39,97,156.50			
XI. Any other Receipts	-	-			
<b>Total</b>	<b>3,95,90,40,172.49</b>	<b>3,95,90,40,172.49</b>	<b>Total</b>	<b>3,90,29,14,440.99</b>	<b>3,90,29,14,440.99</b>

DELHI TECHNOLOGICAL UNIVERSITY  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2018

	Schedule	2017-2018 (Rs)	2016-2017 (Rs)
<b><u>INCOME</u></b>			
Academic Receipts	9	680,751,973.16	641,784,267.75
Grant in Aid	10	270,000,000.00	255,000,000.00
Income From Investments	11	47,756,755.00	51,883,364.00
Interest Earned	12	-	-
Other Incomes	13	45,316,371.69	27,553,157.50
Prior Period Income	14	-	-
<b>TOTAL (A)</b>		<b>1,043,825,099.85</b>	<b>976,220,789.25</b>
<b><u>EXPENDITURE</u></b>			
Staff Payments & Benefits (Establishment Expenses)	15	577,969,999.00	495,779,366.00
Academic Expenses	16	45,793,370.00	88,667,734.02
Administrative and General Expenses	17	192,764,348.00	133,939,175.00
Transportation Expenses	18	1,097,228.00	541,681.00
Repair and Maintenance	19	55,661,210.00	59,722,998.00
Finance Costs	20	144,719.78	82,085.63
Depreciation	4	123,968,207.00	-
Other Expenses	21	-	-
Prior Period Expenses	22	-	-
<b>TOTAL (B)</b>		<b>997,399,081.78</b>	<b>778,733,039.65</b>
Balance being Excess of Income over Expenditure		46,426,018.07	197,487,749.60
Transfer To/From Designated Fund		-	-
Building Fund		-	-
Others (specify)		-	-
<b>Balance Being Surplus/(Deficit) Carried To Capital Fund</b>		<b>46,426,018.07</b>	<b>197,487,749.60</b>


## SIGNIFICANT ACCOUNTING POLICIES &amp; NOTES TO ACCOUNTS 23


For M.A.M. & ASSOCIATES  
Chartered Accountants

  
Ajay Kumar Gupta  
(Partner) Partner

M. No. 095690

  
Chetans K.M.  
(Sr.AO/DDO)

  
Nand Kishore  
D.R (F&A)

  
Dr. Sumsher  
(Registrar)

Place : New Delhi  
Dated : 29th October, 2018





DELHI TECHNOLOGICAL UNIVERSITY  
STATEMENT OF FINANCIAL POSITION  
SHEET AS AT 31ST MARCH, 2018

	Schedule	As at 31-03-2018 (Rs)	As at 31-03-2017 (Rs)
<b>SOURCES OF FUNDS</b>			
CAPITAL FUND	1	3,34,73,81,600.54	1,41,12,32,860.97
CORPUS FUND	1A	41,60,89,799.00	39,09,81,876.00
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	2	72,52,42,856.72	73,71,23,273.37
CURRENT LIABILITIES AND PROVISIONS	3	9,89,75,992.00	9,67,47,174.00
<b>TOTAL</b>		<b>4,58,76,90,248.26</b>	<b>2,63,60,85,184.34</b>
<b>APPLICATION OF FUNDS</b>			
<b>FIXED ASSETS</b>	4	<b>2,56,99,93,605.00</b>	<b>34,32,49,518.00</b>
Tangible Assets			
Intangible Assets		57,13,445.00	51,24,70,457.00
Capital Work In Progress			
<b>INVESTMENTS FROM EARMARKED FUNDS</b>	5	<b>99,54,13,725.00</b>	<b>66,91,56,052.00</b>
Long Term			
Short Term			
<b>INVESTMENTS - OTHERS</b>	6	<b>37,88,12,430.00</b>	<b>70,19,49,600.00</b>
<b>CURRENT ASSETS</b>	7	<b>57,21,32,353.26</b>	<b>36,68,09,965.34</b>
<b>LOANS, ADVANCES AND DEPOSITS</b>	8	<b>6,56,24,690.00</b>	<b>4,24,49,592.00</b>
<b>TOTAL</b>		<b>4,58,76,90,248.26</b>	<b>2,63,60,85,184.34</b>
<b>SIGNIFICANT ACCOUNTING POLICIES &amp; NOTES TO ACCOUNTS</b>	23		

For M.A.M. & ASSOCIATES  
Chartered Accountants

*Aj Kumar Gupta*  
Ajay Kumar Gupta Partner  
(Partner)  
M.No. 015690

*Cleetus K.M*  
Cleetus K.M  
(Sr.AO/DDO)

*Nand Kishore*  
Nand Kishore  
D.R (F&A)

*Dr. Samsher*  
Dr. Samsher  
(Registrar)

Place : New Delhi  
Dated : 29th October, 2018



VII. Interest Received on a) Bank Deposits b) Loan and Advances c) Saving Bank Accounts	- - 3,004,541.00	- - 2,346,236.00	VII. Other Payments including Statutory payments	128,219,202.00	122,826,164.00
IX. Investments encashed	1,882,038,702.00	1,945,281,971.00	IX. Refund of Grants	-	-
X. Term Deposits with Scheduled Banks encashed	-	-	X. Deposits and Advances	-	-
XI. Other Income (including Prior Period Income)	-	-	XI. Other Payments	1,287,404.00	898,055.00
XII. Deposits and Advances	-	-	I. Closing Balance a) Cash in hand a) Bank Balance In Current accounts In Saving accounts In Deposit accounts	- - - 572,132,353.26 -	- - - 366,809,965.34 -
XIII. Miscellaneous Receipts including Statutory Receipts	174,063,540.69	153,997,156.50			
XI. Any other Receipts	-	-			
<b>Total</b>	<b>3,959,040,172.49</b>	<b>3,902,914,440.99</b>	<b>Total</b>	<b>3,959,040,172.49</b>	<b>3,902,914,440.99</b>

For M.A.M. & ASSOCIATES  
Chartered Accountants

*Rampr*

Ajay Kumar Gupta  
(Partner)

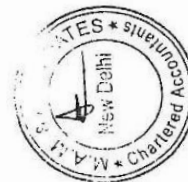
M No. 095680

Place : New Delhi  
Dated : 29th October, 2018

*Dr. Sams*  
Dr. Samsher  
(Registrar)

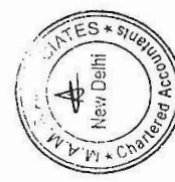
*Nand Kishore*

Nand Kishore  
D.R (F&A)



**DELHI TECHNOLOGICAL UNIVERSITY  
RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2018**

	As at 31-03-2018		As at 31-03-2017		As at 31-03-2018		As at 31-03-2017		Amount in Rupees	
	RECEIPTS	PAYMENTS	PAYMENTS							
<b>I. Opening Balance</b>										
a) Cash Balance	-	-	-	-	-	-	-	-	-	495,779,366.00
b) Bank Balance	-	-	-	-	-	-	-	-	-	88,667,734.02
<b>ii. In Current accounts</b>										133,935,175.00
iii. In Deposit accounts										541,681.00
iii. Saving accounts	366,809,965.34	565,381,629.74								59,722,998.00
<b>II. Grant Received</b>										82,085.63
a) From Government of India										
b) From State Government										
(f) For Capital Expenditure	12,500,000.00									
(i) For Revenue Expenditure	270,000,000.00	255,000,000.00								
c) From Other sources (details)										
(Grants for capital & revenue exp / to be shown separately if available)										
<b>III. Academic Receipts</b>	680,751,973.16	644,292,267.75								124,441,569.00
<b>IV. Receipts against Earmarked / Endowment Funds</b>	485,164,680.30	251,625,813.00								
<b>V. Receipts against Sponsored Projects / Schemes</b>										
<b>VI. Receipts against Sponsored Fellowships and Scholarships</b>										
<b>VII. Income on Investments from</b>										
a) Earmarked / Endowment funds	48,732,524.00	49,133,951.00								
b) Other investments	35,974,246.00	35,855,416.00								
<b>I. Payments</b>										
a) Establishment Expenses										577,969,999.00
b) Academic Expenses										45,793,370.00
c) Administrative Expenses										192,764,348.00
d) Transportation Expenses										1,097,228.00
e) Repair and Maintenance										55,661,210.00
f) Finance Costs										144,719.78
g) Prior Period Expenses										
<b>II. Payments against Earmarked / Endowment Fund</b>										200,745,420.45
<b>III. Payment against Sponsored Projects / Schemes</b>										
<b>IV. Payment against Sponsored Fellowships / Scholarships</b>										
<b>V. Investment and Deposits made</b>										
a) Out of Earmarked / Endowment Funds										1008288386
b) Out of own funds (Investments-Others)										876870819
<b>VI. Term Deposits with Scheduled Banks</b>										
<b>VI. Expenditure on Fixed Assets and Capital Works - in - Progress</b>										
a) Fixed Assets										148,131,193.00
b) Capital Works - in -Progress										149,934,520.00



*(Handwritten signatures and initials)*

## 13. Annexure

### 13.1 Research Publications

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1.	Fuzzy ARM and Cluster Analysis for Database Intrusion Detection and Prevention	Indu Singh, Nikhil Arora, Shivam Arora, Prateek Singhal	CSE	International Journal of Information and Computer Security	2018	17441765
2.	Paradigm shift from conventional software quality models to web based quality models	D Gupta, A Kumar	CSE	International Journal of Hybrid Intelligent Systems	2018	14485869
3.	Community Trolling: An Active Learning Approach for Topic Based Community Detection in Big Data	Preeti Gupta, Rajni Jindal, Arun Sharma	CSE	Journal of Grid Computing	2018	15707873
4.	Flower pollination algorithm based multi-objective congestion management considering optimal capacities of distributed generations	Rajagopal Peesapati, Vinod Kumar Yadav, Niranjana Kumar	CSE	Energy	2018	3605442
5.	Evaluation of cumulative impact of partial shading and aerosols on different PV array topologies through combined Shannon's entropy and DEA	Santosh Ghosh, Vinod Kumar Yadav, Vivekananda Mukherjee	CSE	Energy	2018	3605442
6.	Particle Swarm Optimization-Based Ensemble Learning for Software Change Prediction	Ruchika Malhotra, Megha Khanna	CSE	Information and Software Technology	2018	9505849
7.	Threats to Validity in Search-Based Predictive Modeling for Software Engineering	Ruchika Malhotra, Megha Khanna	CSE	IET Software	2018	17518806
8.	Information Virality Prediction using Emotion Quotient of Tweets	SR Sangwan A Kumar	CSE	International Journal of Computer Sciences and Engineering	2018	23472693
9.	CP-ABE for Selective Access with Scalable Revocation: A Case Study for Mobile-based Health folder	Divyashikha Sethia, Huzur Saran, Daya Gupta	CSE	International Journal of Network Security	2018	9749330
10.	Prediction of Change prone classes using Evolution-based and Object-Oriented Metrics	Ruchika Malhotra and Megha Khanna	CSE	Journal of Intelligent and Fuzzy Systems, Impact Factor	2018	10641246
11.	Socio-Sentic framework for sustainable agricultural governance	Akshi Kumar, Abhilasha Sharma	CSE	Sustainable Computing: Informatics and Systems	2018	22105379
12.	Efficient music recommender system using context graph and particle swarm	R. Katarya and O. P. Verma	CSE	Multimedia Tools and Application.	2018	13807501
13.	Vertex equitable labelling of signed bistars	Rashmi Jain, Mukti Acharya, Sangita Kansal	Applied Mathematics	National Academy Science Letters	2018	22501754
14.	A modified intuitionistic fuzzy c-means clustering approach to segment	Dhirendra Kumer, Hanuman Verma, Aparna Mehra,	JNU, New Delhi	Multimedia Tools and Applications	2018	15737721

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
	human brain MRI image	R. K. Agrawal				
15.	Matrix Games with 2-tuple Linguistic Information	Anjali Singh, Anjana Gupta, Aparna Mehra	Applied Mathematics	Annals of Operations Research	2018	2545330
16.	A Bilevel Programming Model for Operative Decisions on Special Trains: An Indian Railways Perspective	Akhilesh Kumar, Anjana Gupta, Aparna Mehra	Applied Mathematics	Journal of Rail Transport Planning and Management	2018	22109706
17.	Matrix Games with Interval-Valued 2-Tuple Linguistic Information	Anjali Singh, Anjana Gupta	Applied Mathematics	Games	2018	20734336
18.	Acceptably consistent incomplete intervalvalued intuitionistic multiplicative preference relations	Mamata Sahu, Anjana Gupta, Aparna Mehra	Applied Mathematics	Soft Computing	2018	14327643
19.	A Method to Complement Incomplete Hesitant Multiplicative Preference Relation	Anjana Gupta, Mamata Sahu	Applied Mathematics	International Journal of Research and Analytical Reviews	2018	23495138
20.	Incomplete Hesitant Fuzzy Preference Relation	Anjana Gupta, Mamata Sahu	Applied Mathematics	Journal of Statistics & Management Systems	2018	9720510
21.	Structural Physical Approximation for the Realization of the Optimal Singlet Fraction With Two Measurements	Satyabrata Adhikari	Applied Mathematics	Physical Review A 97 (2018) 042344	2018	24699926
22.	Distinguishing Different Classes of Entanglement of Three-Qubit Pure States	Chandan Datta, Satyabrata Adhikari, Arpan Das, Pankaj Agrawal	Applied Mathematics	European Physical Journal D 72 (2018) 157	2018	14346060
23.	Viscous cosmology in new holographic dark energy model and the cosmic acceleration	C.P. Singh, Milan Srivastava	Applied Mathematics	European Physical Journal C (EPJC), 78:(2018), 190.	2018	207748
24.	Cosmological Evolution of Non-interacting and Interacting Holographic Dark Energy Model in Brans-Dicke theory	Milan Srivastava, C.P. Singh	Applied Mathematics	International Journal of Geometric Methods of Modern Physics , 15, No.7, (2018), 1850124.	2018	0219-8878 (print); 1793-6977 (web)
25.	New holographic dark energy model with constant bulk viscosity in modified $f(R; T)$ gravity theory	Milan Srivastava, C.P. Singh	Applied Mathematics	Astrophysics and Space Science , 363, (2018), 117	2018	0004-640X (Print) 1572-946X (Online)
26.	Ricci dark energy model with bulk viscosity	C.P. Singh, Ajay Kumar	Applied Mathematics	European Physical Journal Plus, 133, (2018), 312.	2018	2190-5444 (electronic version)
27.	Holographic Ricci dark energy with constant bulk viscosity in modified $f(R, T)$ gravity	C.P. Singh, Ajay Kumar	Applied Mathematics	Gravitation and Cosmology, Accepted (2018)	2018	0202-2893 (Print) 1995-0721 (Online)
28.	Viscous Ricci dark energy and generalized second law of thermodynamics in $f(R, T)$ gravity	C.P. Singh, Ajay Kumar	Applied Mathematics	Modern Physics Letters A, Accepted(2018)	2018	0217-7323 (print); 1793-6632 (web))
29.	Quadratic approximation of the slow factor of volatility in a multifactor stochastic volatility model	Gifty Malhotra, R. Srivastava, H.C. Taneja	Applied Mathematics	Journal of Futures Markets, 38 (2018), 607-624.	2018	0270-7314
30.	J-Boolean group rings and skew group rings	D. Udar, R.K. Sharma, J.B. Srivastava	Applied Mathematics	Journal of Algebra and Its Applications	2018	0219-4988
31.	Generalized positive linear operators based on PED	Naokant Deo and Minakshi Dhamija	Applied Mathematics	Iranian Journal of Science and	2018	2364-1819

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
	and IPED			Technology, Transactions A: Science		
32.	Appr+B5:F8oximation by Kantorovich form of modified Szasz-Mirakyan operators	Minakshi Dhamija, Ram Pratap, and Naokant Deo	Applied Mathematics	Applied Mathematics, numerical Computation	2018	0096-3003
33.	Moderating effects of age, income and internet usage on Online Brand Community (OBC)-induced purchase intention	A Tiruwa, R Yadav, PK Suri	Delhi School of Management	Journal of Advances in Management Research	2018	ISSN: 0972-7981
34.	Understanding and predicting antecedents of mobile shopping adoption: A developing country perspective	Khushboo Madan, Rajan Yadav	Delhi School of Management	Asia Pacific Journal of Marketing and Logistics	2018	ISSN: 1355-5855
35.	Exploring the Mediating Effect of Parent Brand Reputation on Brand Equity	R Joshi, R Yadav	Delhi School of Management	Paradigm	2018	ISSN: 09718907
36.	An Integrated SEM Neural Network Approach to Study Effectiveness of Brand Extension in Indian FMCG Industry	R Joshi, R Yadav	Delhi School of Management	Business Perspectives and Research	2018	ISSN: 2278-5337
37.	Modelling Facebook usage for collaborative learning in higher education	Anurag Tiruwa, Rajan Yadav, Pradeep Kumar Suri	Delhi School of Management	Journal of Applied Research in Higher Education	2018	ISSN: 2050-7003
38.	Sustainable service quality management by logistic service providers: an Indian perspective	Aanchal Gupta, Rajesh K Singh and P.K.Suri	Delhi School of Management	Global Business Review	2018	9721509
39.	Prioritizing Critical Success Factors for sustainable service quality management by Logistics Service Providers	Aanchal Gupta, Rajesh K Singh and P.K.Suri	Delhi School of Management	Vision: the Journal of Business Perspective	2018	9722629
40.	Analysis of Challenges faced by Indian Logistics Service Providers	Aanchal Gupta, Rajesh K Singh and P.K.Suri	Delhi School of Management	Operations and Supply Chain Management: An International Journal	2018	19793561
41.	The Future of Education: Technology Bringing the Opportunities	Gupta, V.	Delhi School of Management	International Journal of Economics, Commerce and Business Management	2018	ISSN:2348-4969
42.	Potential of Blockchain as a Solution to Existing Problems in Banking System	Chaudhary, A. and Gupta, V.	Delhi School of Management	International Journal of Economics, Commerce and Business Management	2018	ISSN:2348-4969
43.	Causality nexus between inflation and commodity futures trading in India	Singh, A. and Singh, N.P.	Delhi School of Management	International Journal of Indian Culture and Business Management	2018	
44.	Global Financial Crisis and Price Risk Management in Gold Futures Market- Evidences from Indian & US Markets	Singh, A. and Singh, N.P.	Delhi School of Management	The Romanian Economic Journal	2018	ISSN:14544296 e-ISSN Number : 22862056
45.	Price Discovery in Crude Oil Futures Market in India", MAIMT-Journal of IT & Management	Singh, A. and Singh, N.P.	Delhi School of Management	MAIMT-Journal of IT & Management	2018	
46.	A sustainability Enhancement of corporate	Singh, A. & Kansil, R.	Delhi School of	World Journal of Science,	2018	ISSN:2042-5945

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
	Governance Regime in india		Management	Technology and Sustainable Development		
47.	Institutional Ownership and Firm Performance: Evidence from Indian Panel Data	Kansil, R. & Singh, A. (under Publication).	Delhi School of Management	International Journal of Business and Emerging Markets	2018	ISSN Number :17536219 e-ISSN Number : 17536227 UGC listed
48.	Cyber laws in India and techniques for ensuring cyber security". Vol45( 2):: Indian Bar Review.	Meha Joshi	Delhi School of Management	Indian Bar review	2018	ISBN:978-81-931-981-0-0
49.	Impact of Characteristics of Emerging Market's Firm on Financing their Outward Foreign Direct Investment	Tripathi, V., & Thukral, S.	Delhi School of Management	International Journal of Public Sector Performance Management	2018	ISSN Number : 17411041
50.	Boosting Performance of Power Quality Event Identification with KL Divergence Measure and Standard Deviation	R Kapoor, R Gupta, Le Hoang Son, S Jha, R Kumar	Electronics and Communication Engineering	Measurement	2018	2632241
51.	New Scheme for Underwater Acoustically Wireless Transmission Using Direct Sequence Code Division Multiple Access in MIMO Systems	R Kapoor, R Gupta, R Kumar, Le Hoang Son, S Jha	Electronics and Communication Engineering	Wireless Networks	2018	10220038
52.	A Novel Fuzzy Energy Based Level Set Method for Medical Image Segmentation	M S Chaudhary , R Kapoor	Electronics and Communication Engineering	Taylor and Francis - Cogent Engineering	2018	In Press
53.	Volterra bound interval type- 2 fuzzy logic based approach for multiple power quality events analysis	R Kapoor, Rahul, MM Tripathi	Electronics and Communication Engineering	IET - Electrical Systems in Transportation	2018	20429746
54.	Detection of Power Quality Event using Histogram of Oriented Gradients and Support Vector Machine	R Kapoor, R Gupta, Le Hoang Son, S Jha, R Kumar,	Electronics and Communication Engineering	Journal of Measurement	2018	2632241
55.	Video Benchmarks of Human Action Datasets: A Review	T. Singh, D.K. Vishwakarma	Electronics and Communication Engineering	Artificial Intelligence Review	2018	2692821
56.	Covariate conscious approach for Gait recognition based upon Zernike moment invariants	H. Aggarwal, D.K. Vishwakarma	Electronics and Communication Engineering	IEEE Transactions on Cognitive and Development Systems	2018	23798920
57.	A unified model for human activity recognition using spatial distribution of gradients and difference of Gaussian kernel	D.K. Vishwakarma, C. Dhiman	Electronics and Communication Engineering	The Visual Computers	2018	1782789
58.	Convolutional neural networks for crowd behaviour analysis: a survey	G. Tripathi, K. Singh, D.K. Vishwakarma	Electronics and Communication Engineering	The Visual Computers	2018	1782789
59.	UWB, miniaturized and directive metamaterial loaded antenna for satellite applications	Parul Dawar, NS Raghava, Asok De	Electronics and Communication Engineering	International journal of networked and distributed computing	2018	2211-7946
60.	Design and Analysis of a Meander Line Cornered Microstrip Patch Antenna with Square Slotted EBG Structure for ISM/WLAN Applications	Karteeek Viswanadha and N.S.	Electronics and Communication Engineering	International Journal of Advanced Science and Technology	2018	2005-4238

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
61.	Design of High Gain, Bandwidth and Efficient Double Split Ring Slotted Antenna with Swastika Shape EBG Structures at 21.29GHz for High Data Rate Communications	Karteek Viswanadha and N.S.	Electronics and Communication Engineering	International Journal of Computer Applications	2018	0975 – 8887
62.	New Configuration for OFCC-Based CM SIMO Filter and its Application as Shadow Filter	D Nand, N Pandey	Electronics and Communication Engineering	Arabian Journal for Science and Engineering, 1-12	2018	
63.	OTRA Based Piece-Wise Linear VTC Generators and Their Application in High-Frequency Sinusoid Generation	S Oruganti, Y Gilhotra, N Pandey, R Pandey	Electronics and Communication Engineering	Advances in Electrical and Electronic Engineering 15 (5)	2018	2462-1308
64.	High CMRR Wide Bandwidth Instrumentation Amplifier Based on VDBA,	P. Gupta, N. Pandey and R. Pandey	Electronics and Communication Engineering	Recent Advances in Electrical & Electronic Engineering	2018	2352-0973
65.	New Realization Of Third Order Sinusoidal Oscillator Using Single OTRA	K. Gurumurthy, N. Pandey and R. Pandey	Electronics and Communication Engineering	AEU-International Journal of Electronics and Communications	2018	1434-8411
66.	Electronically Tunable High Gain Current-Mode Instrumentation Amplifier	S. Oruganti, N. Pandey and R. Pandey	Electronics and Communication Engineering	AEU-International Journal of Electronics and Communications	2018	1434-8411
67.	Epitaxial growth of GaN nanostructure by PA-MBE for UV detection application	L. Goswami, R Pandey and G Gupta	Electronics and Communication Engineering	Applied Surface Science	2018	0169-4332
68.	A boosted negative bit-line SRAM with write-assisted cell in 45 nm CMOS technology	V Bhatnagar, P Kumar, N Pandey, S Pandey	Electronics and Communication Engineering	Journal of Semiconductors 39 (2)	2018	1674-4926
69.	A dual V <sub>t</sub> disturb-free subthreshold SRAM with write-assist and read isolation	V Bhatnagar, P Kumar, N Pandey, S Pandey	Electronics and Communication Engineering	Journal of Semiconductors 39 (2)	2018	1674-4926
70.	Pentavariate V <sub>min</sub> Analysis of a Subthreshold 10T SRAM Bit Cell With Variation Tolerant Write and Divided Bit-Line Read	S. Gupta, K. Gupta, N. Pandey	Electronics and Communication Engineering	IEEE Transactions on Circuits and Systems I: Regular Papers	2018	
71.	Programmable Gain Amplifier Using Operational Floating Current Conveyors	P Pahalwan, P Tripathi, P Gola, N Pandey, D Nand	Electronics and Communication Engineering	AEU-International Journal of Electronics and Communications	2018	
72.	Review of different types of 3D watermarking	Akshay Mool, Pran Swarup Borah, Ramjan Ali, Jeebananda Panda	Electronics & Communication Engineering	International Journal of Advanced Production and Industrial Engineering	2018	ISSN: 2455-8419
73.	Electronically tunable grounded / floating inductance simulators using Z-copy CFCCC	A. K. Singh, P. Kumar, and R. Senani		Turkish Journal of Electrical Engineering & Computer Sciences	2018	1041-1055
74.	Development of a novel hybrid PDM/OFDM technique for FSO system and its performance analysis	G Kaur, D Srivastava, P Singh, Y Parasher	Electronics and Communication Engineering	Optics & Laser Technology(Elsevier, Impact factor 2.503, SCI Indexed)	2018	303992
75.	Impact of Different Layers on Performance of OLED	S. Negi, Poornima Mittal, B. Kumar	Electronics and Communication Engineering	Microsystem Technologies (Published by Springer, SCI Indexed, I. F.: 1.581, Scopus Indexed)	2018	1432-1858 (Online)



S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
76.	Tucker Visual Search-based hybrid tracking model and Fractional Kohonen Self-Organizing Map for anomaly localization and detection in surveillance videos	Avinash Ratre (First and Corresponding author) and Dr. Vinod Pankajakshan (PhD Supervisor, ECE Deptt, IIT, Roorkee)	Electronics and Communication Engineering	The Imaging Science Journal (Taylor and Francis, UK) – SCI Journal	2018	13682199 (Print)
77.	Tucker tensor decomposition-based tracking and Gaussian mixture model for anomaly localisation and detection in surveillance videos	Avinash Ratre (First and Corresponding author) and Dr. Vinod Pankajakshan (PhD Supervisor, ECE Deptt, IIT, Roorkee)	Electronics and Communication Engineering	IET Computer Vision – SCI Journal (The Institution of Engineering and Technology, United Kingdom)	2018	17519632 (Print)
78.	Design of Horse Shoe Patch Antenna for Wireless Applications”, International Journal of Advanced Production and Industrial Engineering	N.Jayanthi	Electronics and Communication Engineering	International Journal of Advanced Production and Industrial Engineering, Volume 3, Issue 1	2018	2455 – 8419
79.	Object Detection and Tracking in Real Time Video Stream	N.Jayanthi	Electronics and Communication Engineering	International Journal of Advanced Production and Industrial Engineering, Volume 3, Issue 2	2018	2456 – 8419
80.	Parameter estimation of RC circuits using extended Kalman filter.	Amit Kumar Gautam and Sudipta Majumdar	Electronics and Communication Engineering	International Journal of Advanced in Management, Technology and Engineering Sciences	2018	2249-7455
81.	On the spectrum sensing of gamma shadowed Hoyt fading channel with MRC reception	Sandeep Kumar,Pappu Kumar Verma,Manpreet Kaur,Priyanka Jain &Sanjay Kumar Soni	Electronics and Communication Engineering	Journal of Electromagnetic Waves and Applications	2018	Print ISSN: 0920-5071 Online ISSN: 1569-3937
82.	Performance evolution of ED-based spectrum sensing in CR over Nakagami-m/shadowed fading channel with MRC reception	Pappu Kumar Verma,Priyanka Jain &Sanjay Kumar Soni	Electronics and Communication Engineering	AEU - International Journal of Electronics and Communications	2018	ISSN: 1434-8411
83.	Micro-Diversity Analysis of Error Probability and Channel Capacity over Hoyt-Gamma Fading	Sandeep KUMAR , Sanjay Kumar SONI , Priyanka JAIN	Electronics and Communication Engineering	Radioengineering	2018	
84.	Performance of MRC receiver over Hoyt/lognormal composite fading channel	Sanjay Kumar Soni &Priyanka Jain	Electronics and Communication Engineering	International Journal of Electronics	2018	Print ISSN: 0020-7217 Online ISSN: 1362-3060
85.	On the performance of energy detection-based CR with SC diversity over IG channel	Sanjay Kumar Soni &Priyanka Jain	Electronics and Communication Engineering	International Journal of Electronics	2018	Print ISSN: 0020-7217 Online ISSN: 1362-3060
86.	Realization of Recursive algorithm for one-dimensional discrete cosine transform and its inverse	Pragati and Priyanka Jain	Electronics and Communication Engineering	Advances in System Optimization and Control	2018	Print ISBN978-981-13-0664-8

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87.	Metamaterial based patch antennas- A Review	Priyanka Garg and Priyanka Jain,	Electronics and Communication Engineering	Advances in System Optimization and Control	2018	. Print ISBN978-981-13-0664-8
88.	Realization of second-order structure of recursive algorithm for discrete cosine transform	Pragati, Priyanka Jain	Electronics and Communication Engineering	Circuit System and Signal Processing	2018	0278-081X
89.	Realization of Recursive Algorithm for One-Dimensional Discrete Sine Transform And its Inverse	Pragati and Priyanka Jain	Electronics and Communication Engineering	Applications of Artificial Intelligence Techniques in Engineering	2018	978-981-13-1821-4
90.	Extraction of equivalent circuit parameters of Metamaterial based bandstop filter	Priyanka Garg, Priyanka Jain	Electronics and Communication Engineering	Applications of Artificial Intelligence Techniques in Engineering	2018	978-981-13-1821-4
91.	Design and Analysis of CSRR Backed Microstrip	Priyanka Garg, Priyanka Jain	Electronics and Communication Engineering	Journal of Communication Technology and Electronics	2018	. Awaited
92.	Modelling and performance evaluation over Nakagami-m/log-normal fading environments	Pappu Kumar Verma, Sanjay Soni, Priyanka Jain	Electronics and Communication Engineering	International Journal of Communication Networks and Distributed Systems (IJSNDS)	2018	. Awaited
93.	New single element controlled sinusoidal oscillator using single VDIBA	K. L. Pushkar and D. R. Bhaskar	Electronics and Communication Engineering	Journal of Engineering Technology	2018	0747-9964
94.	Fractional order inverse filters using operational amplifier	D. R. Bhaskar, Manoj Kumar and P. Kumar	Electronics and Communication Engineering	Analog Integrated Circuits and Signal Processing	2018	
95.	A parametric study to unravel the alignment mechanism of carbon nanotubes during its plasma-assisted growth	Umang Sharma and Suresh C. Sharma	Applied Physics	Phys. of Plasmas	2018	1070-664X
96.	Theoretical model for the effect of dust grains on self-filamentation of Gaussian electromagnetic beam in ionized plasma	Ruchi Sharma and Suresh C. Sharma	Applied Physics	Contributions to Plasma Physics	2018	0863-1042
97.	Coherent terahertz radiation from beam driven upper hybrid wave in magnetostatic plasma	Pratibha Malik, Suresh C. Sharma and Rinku Sharma	Applied Physics	J. of Electromagnetic Waves and Applications 1	2018	0920-5071
98.	Investigations on the plasma enabled growth of vertical graphene sheets on CNT surface	Neha Gupta and Suresh C. Sharma	Applied Physics	Phys. of Plasmas 25, 073509	2018	1070-664X
99.	Electron acceleration by a relativistic electron plasma wave in inverse-free-electron laser mechanism	Monika Yadav, Suresh C. Sharma	Applied Physics	IEEE Trans on Plasma Sci., Vol 46 (7)	2018	0093-3813
100.	Terahertz radiation emission using plasma filled dielectric liner with the effects of pre-modulated relativistic electron beam	Jyotsna Panwar and Suresh C. Sharma	Applied Physics	Contributions to Plasma Physics	2018	0863-1042
101.	Modeling to study the role of catalyst in the formation of graphitic shells during carbon nanofiber growth subjected to reactive plasma	Ravi Gupta, Neha Gupta and Suresh C. Sharma	Applied Physics	Phys. of Plasmas 25, 043504	2018	1070-664X
102.	Modeling the effects of nitrogen doping on the	Ravi Gupta and Suresh C. Sharma	Applied Physics	Contributions to Plasma Physics, 1	2018	0863-1042

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	carbon nanofiber growth via catalytic PECVD process					
103.	Resonant decay of a Langmuir wave in presence of dust grains in cylindrical plasma	Ajay Gahlot and Suresh C. Sharma	Applied Physics	Contributions to Plasma Physics, 1	2018	0863-1042
104.	Current Driven Low Frequency Electrostatic Waves in a Collisional Strongly Coupled Magnetized Dusty Plasma	Kavita Rani Segwaland Suresh C. Sharma	Applied Physics	IEEE Trans on Plasma Sci., Vol 46(4), 797	2018	0093-3813
105.	Theoretical Modelling of an Ion Beam Driven Kelvin Helmholtz Instability in a Plasma Cylinder Having Negatively Charged Dust Grains	Kavita Rani Segwaland Suresh C. Sharma	Applied Physics	IEEE Trans on Plasma Sci., Vol. 46 (4), 775	2018	0093-3813
106.	Spectroscopic investigations of Nd <sup>3+</sup> doped lithium lead aluminoborate glasses for 1.06 $\mu$ m laser applications	Nisha Deopa, A.S.Rao, Mohini Gupta and G. Vijaya Prakash	Applied Physics	Optical Materials 75 (2018) 127-134	2018	0925-3467
107.	Spectroscopic studies of single near ultra violet pumped Tb <sup>3+</sup> doped lithium lead aluminoborate glasses for green laser and tricolor w-LED applications	Nisha Deopa and A.S.Rao	Applied Physics	Journal of Luminescence 194 (2018) 56-63	2018	0022-2313
108.	Photoluminescence Investigations on Sm <sup>3+</sup> ions doped borate glasses for tricolor w-LEDs and Lasers	Nisha Deopa, A.S.Rao, Ankur Choudhary, Shubham Saini, Abhishek Navhal, M.Jayasimhadri, D.Haranath and G.Vijaya Prakash	Applied Physics	Materials Research Bulletin 100 (2018) 2016-212	2018	0025-5408
109.	Pr <sup>3+</sup> ions doped single alkali and mixed alkali fluoro tungsten tellurite glasses for visible red luminescent devices	Ch.B. Annapurna Devi, Sk. Mahamuda, K. Swapna, M. Venkateswarlu, A.S.Rao and G. Vijaya Prakash	Applied Physics	Journal of Non-Crystalline Solids (2018)	2018	0022-3093
110.	Spectroscopic study of Pr <sup>3+</sup> ions doped Zinc Lead Tungsten Tellurite Glasses for Visible Photonic device Applications	Ritu Sharma, A.S.Rao, Nisha Deopa, M.Venkateswarlu, M.Jayasimhadri, D.Haranath and G.Vijaya Prakash	Applied Physics	Optical Materials (2018)	2018	0925-3467
111.	Spectroscopic Studies of Sm <sup>3+</sup> ions doped Alkaline-Earth Chloro Borate Glasses for Visible Photonic Applications	Rupesh A. Talewar, Sk.Mahamuda, K.Swapna, M.Venkateswarlu and A.S.Rao	Applied Physics	Materials Research Bulletin	2018	0025-5408
112.	Synthesis and enhancement of photoluminescent properties in spherical shaped Sm <sup>3+</sup> /Eu <sup>3+</sup> co-doped NaCaPO <sub>4</sub> phosphor particles for w-LEDs	Mukesh K. Sahu, M. Jayasimhadri, Kaushal Jha, B. Sivaiah, A.S. Rao,	Applied Physics	D. Haranath Journal of Luminescence 202 (2018) 475-483	2018	0022-2313
113.	Structural, Optical Absorption and Photoluminescence Spectral Studies of Sm <sup>3+</sup> ions in Alkaline-Earth Boro Tellurite Glasses	K. Siva Rama Krishna Reddy, K.Swapna, Sk.Mahamuda, M.Venkateswarlu, M.V.V.K.S.Prasad, A. S. Rao and G.	Applied Physics	Optical Materials	2018	0925-3467

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		Vijaya Prakash				
114.	Spectroscopic studies of Dy <sup>3+</sup> doped borate glasses for cool white light generation	Sumandeep Kaur, Amit K. Vishwakarma, Nisha Deopa, Aman Prasad, M. Jayasimhadri, A.S. Rao	Applied Physics	Materials Research Bulletin 104 (2018) 77-82	2018	0025-5408
115.	Enhanced red down-conversion luminescence and high color purity from flux assisted Eu <sup>3+</sup> doped calcium aluminosilicate phosphor	Sumandeep Kaur, A.S. Rao, M. Jayasimhadri	Applied Physics	Journal of Luminescence 202 (2018) 461-468	2018	0022-2313
116.	UV emitting Pb <sup>2+</sup> doped SrZrO <sub>3</sub> phosphors prepared by sol-gel procedure	N. Singh, S. Kaur, M. Jayasimhadri, M.S. Pathak, S. Watanabe, T.K. Gundu Rao, Jung-Kul Lee, Vijay Singh	Applied Physics	Ceramics International 44 (2018) 17074-17078	2018	0272-8842
117.	Effective sensitization of Eu <sup>3+</sup> and energy transfer in Sm <sup>3+</sup> /Eu <sup>3+</sup> co-doped ZPBT glasses for CuPC based solar cell and w-LED applications	Kaushal Jha, M. Jayasimhadri	Applied Physics	Journal of Luminescence 194 (2018) 102-107 (IF: 2.686)	2018	0022-2313
118.	Spectroscopic Studies of Dy <sup>3+</sup> doped Borate Glasses for Cool White Light Generation	Sumandeep Kaur, Amit K. Vishwakarma, Nisha Deopa, Aman Prasad, M. Jayasimhadri, A.S. Rao	Applied Physics	Materials Research Bulletin 104 (2018) 77-82	2018	0025-5408
119.	Spectroscopic study of Pr <sup>3+</sup> ions doped Zinc Lead Tungsten Tellurite glasses for visible photonic device applications	Ritu Sharma, A.S. Rao, Nisha Deopa, M. Venkateswarlu, M. Jayasimhadri, D. Haranath, G. Vijaya Prakash	Applied Physics	Optical Materials 78 (2018) 457-464	2018	0925-3467
120.	Photoluminescence investigations on Sm <sup>3+</sup> ions doped borate glasses for tricolor w-LEDs and lasers	Nisha Deopa, A.S. Rao, Ankur Choudhary, Shubham Saini, Abhishek Navhal, M. Jayasimhadri, D. Haranath, G. Vijaya Prakash	Applied Physics	Materials Research Bulletin 100 (2018) 206-212	2018	0025-5408
121.	Facile synthesis of semiconducting ultrathin layer of molybdenum disulfide	Sarvottam K. Jha, Reetu Kumari, Shubham Choudhary, Pushpendu Guha, P V Satyam, Brajesh S. Yadav, Zainab Naqvi, S. S. Kushvaha, R. K. Ratnesh, M. S. Mehta, Aditya Jain, Amrith K. Panwar, Fouran Singh, Pawan K. Tyagi	Applied Physics	J. Nanosci. Nanotechnol. 18, 614–622 (2018)	2018	1533-4899
122.	M.S. Spectral and time-resolved properties of photoinduced hydroxyquinolines doped thin polymer films	Mehata	Applied Physics	Optical Materials 75 (2018) 751-756.	2018	0925-3467
123.	Effective sensitization of Eu <sup>3+</sup> and energy transfer	Kaushal Jha, M. Jayasimhadri	Applied Physics	Journal of Luminescence 194	2018	0022-2313

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	in Sm <sup>3+</sup> /Eu <sup>3+</sup> co-doped ZPBT glasses for CuPC based solar cell and w-LED applications			(2018) 102-107		
124.	Ellipsoidal all-dielectric Fano resonant core-shell metamaterials	Reena Reena, Yogita Kalra, Ajeet Kumar	Applied Physics	Superlattices and Microstructures, 118, 205-212 (2018)	2018	0749-6036
125.	All dielectric zero-index metamaterial for TE/TM polarization	N Shankhwar, Y Kalra, RK Sinha	Applied Physics	Journal of Optics	2018	1943-0639
126.	Numerical Modeling of a Single Mode Optical Fiber in Bismuth Oxide for Slow-Light Generation Based on Stimulated Brillouin Scattering	Utkarsh Nigam, Ajeet Kumar and Than Singh Saini	Applied Physics	Optik	2018	0030-4026
127.	Broadband supercontinuum generation spanning 1.5–13 μm in Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> based chalcogenide glass step index optical fiber	Priti Siwach, Ajeet Kumar and Than Singh Saini	Applied Physics	Optik, vol. 156, pp. 564-570	2018	0030-4026
128.	Corroborating the Spin Gapless of Ti <sub>2</sub> MnAl Inverse Heusler alloy: A Study of Strain Effect	Mukhtiyar Singh, H.S. Saini, and M.K. Kashyap	Applied Physics	Material Today: Proceeding 5, 15421	2018	2214-7853
129.	Significant enhancement in structural, dielectric, piezoelectric and ferromagnetic properties of Ba <sub>0.9</sub> Sr <sub>0.1</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> multiferroic composites		Applied Physics	Materials Research Bulletin, vol. 100, pp. 367-376	2018	0025-5408
130.	Enhanced, Supercapacitive performance of Ni <sub>0.5</sub> Mg <sub>0.5</sub> Co <sub>2</sub> O <sub>4</sub> flowers and rods as an electrode material for high energy density supercapacitors: Rod morphology holds the key	M Sharma, S Sundriyal, A Panwar, A Gaur	Applied Physics	Journal of Alloys and Compounds, vol. 766, 859-867	2018	0925-8388
131.	Electrochemical studies of novel olivine-layered (LiFePO <sub>4</sub> -Li <sub>2</sub> MnO <sub>3</sub> ) dual composite as an alternative cathode material for lithium-ion batteries	Rakesh Saroha, A K Panwar, Anurag Gaur, P. K. Tyagi	Applied Physics	Journal of solid state electrochemistry. , Vol. 22 (8), pp. 2507-2513	2018	1432-8488
132.	Significant improvement in morphological, dielectric, ferroelectric and piezoelectric characteristics of Ba <sub>0.9</sub> Sr <sub>0.1</sub> Ti <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>3</sub> -BaNb <sub>2</sub> O <sub>6</sub> nanocomposites	Jain Aditya, Panwar A. K., Jha AK	Applied Physics	Journal of Materials Science- Materials in Electronics	2018	1573-482X
133.	Physical properties and electrochemical performance of Zn-substituted Na <sub>0.44</sub> Mn <sub>1-x</sub> Zn <sub>x</sub> O <sub>2</sub> nanostructures as cathode in Na-ion batteries	M Chandra, R Shukla, R Saroha, AK Panwar, A Gupta, S Basu, RS Dhaka	Applied Physics	Ceramics International	2018	0270-8842
134.	Efficient fluorescence quenching of 5-aminoquinoline: Silver ion recognition study	Pandey, N., Mehata, M.S., Fatma, N., Pant, S.	Applied Physics	Journal of Luminescence 205 (2018) 475-48.	2018	0022-2313
135.	Tunable single and double emission semiconductor nanocrystal quantum dots: A multianalyte sensor	Ratnesh R.K., Mehata M.S.	Applied Physics	Methods and Applications in Fluorescence 6 (2018) 035006	2018	2050-6120
136.	A. A2B Corroles: Fluorescence signaling systems for sensing fluoride Ions	Yadav, O., Varshney, A., Ratnesh, R.K., Mehata, M.S.,	Applied Physics	Spectrochimica Acta A: Molecular and Bimolecular Spectroscopy 202	2018	1386-1425

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		Kumar		(2018) 207-213		
137.	A critical review of diamond like carbon coating for wear resistant applications	A Tyagi, RS Walia, Q Murtaza, SM Pandey, PK Tyagi, B Bajaj	Applied Physics	International Journal of Refractory Metals and Hard Materials, Volume 78, Pages 107-122	2018	0263-4368
138.	Synthesis and characterization of electrodeposited Ni-B-TiO <sub>3</sub> composite coatings	US Waware, AMS Hamouda, B Bajaj, T Borkar, AK Pradhan	Applied Physics	Journal of Alloys and Compounds, vol. 769, pages 353- 359	2018	0925-8388
139.	Enhanced reactive H <sub>2</sub> S adsorption using carbon nanofiber supported with Cu/Cu <sub>2</sub> O nanoparticles	B Bajaj, KB Yi, HI Joh, SM Jo, S Lee	Applied Physics	Applied Surface Science, vol.429, pages 253-257	2018	0169-4332
140.	Enhanced photoelectrochemical performance of TiO <sub>2</sub> photoanode decorated with Pd-carbon core shell nanoparticles	Rishabh Sharma, Nisha Kodan, Vinod Singh, Shailesh Narayan Sharma, Om Prakash Sinha	Applied Physics	Renewable Energy	2018	0960-1481
141.	Room Temperature Response and Enhanced Hydrogen Sensing in Size Selected Pd-C Core-Shell Nanoparticles: Role of Carbon Shell and Pd-C Interface	Vinod Singh, Shivani Dhall, Akshey Kaushal and B. R. Mehta	Applied Physics	International Journal of Hydrogen Energy, 43, 1025-1033	2018	0360-3199
142.	Influence of Fabrication Processes on Transport Properties of Superconducting Niobium Nitride Nanowires	Manju Singh, Rishu Chaujar, Sudhir Husale, S. Grover, Amit P. Shah, Mandar M. Deshmukh, Anurag Gupta, V. N. Singh, V. N. Ojha, D. K. Aswal, R. K. Rakshi	Applied Physics	Current Science, Pages: 1443-1450, Vol 114, No 07	2018	0011-3891
143.	Cryogenic measurement setup for characterization of superconducting nano structures for single photon detection applications	Manju Singh, Rishu Chaujar and R. K. Rakshit	Applied Physics	Current Science	2018	0011-3891
144.	Temperature Associated Reliability Issues of Heterogeneous Gate Dielectric - Gate All Around - Tunnel FET	Jaya Madan and Rishu Chaujar	Applied Physics	IEEE Transactions on Nanotechnology, Vol.17, Issue 1, pp.41-48	2018	1536125X
145.	Reliability Issues of In <sub>2</sub> O <sub>5</sub> Sn Gate Electrode Recessed Channel MOSFET: Impact of Interface Trap Charges and Temperature	Ajay Kumar, MM Tripathi, and Rishu Chaujar	Applied Physics	IEEE Transactions on Electron Devices, Vol.65, No.3, pp.860-863	2018	0018-9383
146.	Comprehensive analysis of sub-20 nm black phosphorus based junctionless-recessed channel MOSFET for analog/RF applications	Ajay Kumar, MM Tripathi, and Rishu Chaujar	Applied Physics	Superlattices and Microstructures	2018	0749-6036
147.	In <sub>2</sub> O <sub>5</sub> Sn Based Transparent Gate Recessed Channel MOSFET: RF Small-Signal Model for Microwave Applications	Ajay Kumar, MM Tripathi, and Rishu Chaujar	Applied Physics	International Journal of Electronics and Communications (93), pp.233-241	2018	1434-8411
148.	Rear Contact Silicon Solar Cells with a-SiC <sub>x</sub> H Based Front Surface Passivation for Near-Ultraviolet Radiation Stability	Rahul Pandey and Rishu Chaujar	Applied Physics	Superlattices and Microstructures, Volume 122, Pages 111-123	2018	0749-6036

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149.	Gate Drain Underlapping: A Performance Enhancer for HD-GAA-TFET	Jaya Madan, Rahul Pandey and Rishu Chaujar	Applied Physics	Materials Today Proceedings, Elsevier, Vol.5, pp.17453-17463	2018	2214-7853
150.	Impact on Analog and Linearity Performance of Nanoscale AlGaIn/GaN HEMT with variation in Surface Passivation Stack	Henika Arora, Jaya Madan and Rishu Chaujar	Applied Physics	Materials Today Proceedings, Elsevier, Vol.5, pp.17464-17471	2018	2214-7853
151.	Ultra-Low Power Dielectric Modulated Nano-gap Embedded Sub-20nm TGRC-MOSFET for Biosensing Application	Ajay Kumar, MM Tripathi, and Rishu Chaujar	Applied Physics	Journal of Computational Electronics, Springer	2018	1569-8025
152.	Radiation Analysis of N-Channel TGRC-MOSFET: An X-Ray Dosimeter	Ajay Kumar, Samarth Singh, Balark Tiwari, MM Tripathi, and Rishu Chaujar	Applied Physics	IEEE Transactions on Electron Devices	2018	0018-9383
153.	Source/Gate Material Engineered Double Gate TFET for Improved RF and Linearity Performance: A Numerical Simulation	Skanda Shekhar, Jaya Madan and Rishu Chaujar	Applied Physics	Applied Physics-A	2018	0947-8396
154.	Cryptanalysis of image encryption scheme based on a new 1D chaotic system	Dhall, Sakshi, Saibal K. Pal, and Kapil Sharma	Information Technology	Signal Processing	2018	1651684
155.	Covariate conscious approach for Gait recognition based upon Zernike moment invariants	Aggarwal, Himanshu, and Dinesh Kumar Vishwakarma.	Information Technology	IEEE Transactions on Cognitive and Developmental Systems	2018	19430604
156.	Color texture recognition by color information fusion using the non-extensive entropy	Seba Susan and Madasu Hanmandlu	Information Technology	Multidimensional Systems and Signal Processing	2018	9236082
157.	Performance Enhancement of Single-Phase Grid-Connected PV System Under Partial Shading Using Cascaded Multilevel Converter	Vishal Verma	Electrical Engineering	IEEE Transactions on Industry Applications	2018	0093-9994
158.	A Generalized Power-Flow Model of VSC Based Hybrid AC-DC Systems Integrated with Offshore Wind Farms	Suman Bhowmick	Electrical Engineering	IEEE Transactions On Sustainable Energy,	2018	1949-3029
159.	Investigation of parasitic capacitances of In <sub>2</sub> O <sub>3</sub> Sn gate electrode recessed channel MOSFET for ULSI switching applications	M.M. Tripathi	Electrical Engineering	Microsystem Technologies, Springer	2017	0946-7076
160.	Detection and classification of multiple power signal patterns with Volterra series and interval type-2 fuzzy logic system	M.M. Tripathi	Electrical Engineering	Protection and Control of Modern Power Systems	2017	2367-0983
161.	A Design and Implementation of High Speed IEEE-754 Double Precision Floating Point Unit Based on Vedic Techniques	M.M. Tripathi	Electrical Engineering	Journal on Electronics Engineering	2017	2249-0760
162.	A Review Article on Green Energy Forecasting	M.M. Tripathi	Electrical Engineering	Asia-Pacific Journal of Advanced Research in Electrical and Electronics Engineering	2017	2207-449X

163.	Reliability Issues of In <sub>2</sub> O <sub>5</sub> Sn Gate Electrode Recessed Channel MOSFET: Impact of Interface Trap Charges and Temperature	M.M. Tripathi	Electrical Engineering	IEEE Transactions on Electron Devices	2018	0018-9383
164.	Comprehensive analysis of sub-20 nm black phosphorus based junction less-recessed channel MOSFET for analog/RF applications	M.M. Tripathi	Electrical Engineering	Superlattices and Microstructures, Elsevier	2018	0749-6036
165.	Volterra bound interval type-2 fuzzy logic-based approach for multiple power quality events analysis	M.M. Tripathi	Electrical Engineering	IET Electrical Systems in Transportation	2018	2042-9746
166.	Size Optimization of RES based Grid Connected Hybrid Power System using Harmony Search Algorithm	M. Rizwan	Electrical Engineering	International Journal of Energy Technology and Policy	2018	1472-8923
167.	Energy Management Supporting High Penetration of Solar Photovoltaic Generation for Smart Grid using Solar Forecasts and Pumped Hydro Storage System	M. Rizwan	Electrical Engineering	Renewable Energy	2018	0960-1481
168.	Voltage Regulation Mitigation Techniques in Distribution System with High PV Penetration: A Review	M. Rizwan	Electrical Engineering	Renewable and Sustainable Energy Reviews	2018	1364-0321
169.	Hybrid Control Approach for PV/FC fed Voltage Source Converter Tied to Grid	M. Rizwan	Electrical Engineering	International Journal of Hydrogen Energy	2018	0360-3199
170.	Renewable Energy based Hybrid Model for Rural Electrification	M. Rizwan	Electrical Engineering	International Journal of Energy Technology and Policy	2018	1472-8923
171.	Development of ANFIS-based Algorithm for MPPT Controller for Standalone Photovoltaic System	M. Rizwan and Uma Nangia	Electrical Engineering	International Journal of Advanced Intelligence Paradigms	2018	1755-0386
172.	A Multi-objective Approach to Maximize Loadability of Distribution Networks by Simultaneous Reconfiguration and Allocation of Distributed Energy Resources	Suman Bhowmick and Dheeraj Joshi	Electrical Engineering	IET Generation, Transmission & Distribution	2018	1751-8687
173.	A hybrid teaching-learning-based optimization technique for optimal DG sizing and placement in radial distribution systems	Suman Bhowmick Dheeraj Joshi	Electrical Engineering	Soft Computing journal	2018	1432-7643
174.	Design of a Sliding Mode Controller (SMC) based on Reaching law	Bharat Bhushan,	Electrical Engineering	International Journal of Computer Applications	2018	0975-8887
175.	Real-time control of ball balancer using neural integrated fuzzy controller	Bharat Bhushan,	Electrical Engineering	Artificial Intelligence Review	2018	0269-2821
176.	Real-Time State Observer Based Controller for Stochastic Robotic Manipulator	Bharat Bhushan	Electrical Engineering	IEEE Transactions of Industrial Applications	2018	0093-9994
177.	Trend Analysis of Rainfall for the Chaliyar Basin, South India	L. N. Thakural, S. Anbu Kumar, Mohd. Izharuddin	Civil Engg	International Journal for Research in	2018	ISSN: 2321-9653



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178.	Analysis of Rigid pavement on Collapsible and Expansive Soil	Kongan Aryan, Prof. AK Gupta, Gautam Agarwal	Civil Engg	International journal of IJRAR	2018	ISSN:2349-5138
179.	Analysis of Gautam Agarwal Design of Rigid Pavement on Collapsible and Expansive Soil	Kongan Aryan & Prof. AK Gupta & Mamta Tiwari	Civil Engg	International journal of IJRAR	2018	ISSN:2349-5138
180.	Analysis of Design of Concrete Pavement in Collapsible and Expansive Soil using Kota Stone Dust	Kongan Aryan & Prof. AK Gupta & Ritesh Jain	Civil Engg	International journal of IJRAR	2018	ISSN:2349-5138
181.	Effect of Various Culture Condition on Shoot Multiplication and GC-MS Analysis of <i>Plumbago zeylanica</i> Accessions for Plumbagin Production	Arpita Roy and Navneeta Bharadvaja	Biotechnology	Acta Physiologiae Plantarum	2018	13892010
182.	Biotechnological Approaches for Production of Pharmaceutically Important Compound: Plumbagin	Arpita Roy and Navneeta Bharadvaja	Biotechnology	Current Pharmaceutical Biotechnology	2018	1375881
183.	Development and Evaluation of Low Phytic Acid Soybean by siRNA Triggered Seed Specific Silencing of Inositol Polyphosphate 6-/3-/5-Kinase Gene	Mansi Punjabi, Navneeta Bharadvaja, Monica Jolly, Anil Dahuja and Archana Sachdev	Biotechnology	Frontiers in Plant Science	2018	1664462X
184.	Molecular characterization, modeling, and docking analysis of late phytic acid biosynthesis pathway gene, inositol polyphosphate 6-/3-/5-kinase, a potential candidate for developing low phytate crops.	Mansi Punjabi, Navneeta Bharadvaja, Archana Sachdev Krishnan V.	Biotechnology	3 Biotech	2018	2190572X
185.	Isolation, cloning and characterization of cuticle collagen genes, Mi-dpy-10 and Mi-dpy-31, in <i>Meloidogyne incognita</i>	Deshika Kohli, Anil Sirohi, Ramamurthy Srinivasan, Navneeta Bharadvaja, Pradeep K. Jain	Biotechnology	Indian Journal of Nematology	2018	3036960
186.	Host-mediated RNAi of a Notch-like receptor gene in <i>Meloidogyne incognita</i> induces nematode resistance	Kohli D, Chidambaranathan P, Prasanth Tej Kumar J, Singh AK, Kumar A, Sirohi A, Subramaniam K, Srinivasan R, Bharadvaja N, Jain PK.	Biotechnology	Parasitology	2018	311820
187.	Genotyping assessment of phosphate solubilizing bacteria isolated from rhizospheric soil from central regions of Lucknow	Fatima F, Rastogi Verma S, Pathak N	Biotechnology	Geomicrobiology Journal 35: 848-853	2018	1490451
188.	In Silico analysis of nsSNPs in ABCB1 gene affecting breast cancer associated protein P-glycoprotein (P-gp). 2018	Rajkumar Chakraborty, Himani Gupta, Razia Rahman and Yasha Hasija*	Biotechnology	Computational Biology and Chemistry	2018	1476-9271
189.	Exploring vitiligo susceptibility and management: a brief review.	Razia Rahman and Yasha Hasija*	Biotechnology	Biomedical Dermatology	2018	2398-8460

190.	GroEL mediates folding of Bacillus anthracis Serine/Threonine protein kinase. PrkC. 2018	Richa Virmani, Yogendra Singh, Yasha Hasija*	Biotechnology	Indian Journal of Microbiology	2018	0973-7715
191.	Metagenomic Approach in Study and Treatment of Various Skin Diseases: A Brief Review.	Pragya Nagar and Yasha Hasija*.	Biotechnology	Biomedical Dermatology	2018	2398-8460
192.	Effect of homocysteine on biofilm formation by mycobacteria.	Richa Virmani, Yasha Hasija*, Yogendra Singh	Biotechnology	Indian Journal of Microbiology	2018	0973-7715
193.	A synergistic transcriptional regulation of olfactory genes drives blood feeding associated complex behavioral responses in the mosquito Anopheles culicifacies.	Tanwee Das De, Tina Thomas, Sonia Verma, Deepak Singla, Charu Chauhan, Vartika Srivastava, Punita Sharma, Seena Kumari, Sanjay Tevatiya, Jyoti Rani, Yasha Hasija, Kailash C Pandey, Rajnikant Dixit.	Biotechnology	Frontiers in Physiology	2018	1664042X
194.	Transcriptional responses of attractin gene in the mosquito Anopheles culicifacies: A synergistic neuro-olfactory regulation.	Tanwee Das De, Tina Thomas, Sonia Verma, Deepak Singla, Charu Chauhan, Vartika Srivastava, Punita Sharma, Seena Kumari, Sanjay Tevatiya, Jyoti Rani, Yasha Hasija, Kailash C Pandey, Rajnikant Dixit.	Biotechnology	Journal of Vector Borne Diseases, National Institute of Malaria Research	2018	9729062
195.	DermaGene and VitmiRS: a comprehensive systems analysis of genetic dermatological disorders. (2018)	Razia Rahman; Isha Sharma; Lokesh Kumar Gahlot; Yasha Hasija*.	Biotechnology	Biomedical Dermatology, BMC	2018	2398-8460
196.	ARD-PRED: An in-silico tool for predicting age related disorder associated proteins. (2018)	Kirti Bhadhadhara, Yasha Hasija*.	Biotechnology	Soft Computing, Springer	2018	1433-7479
197.	Automated System for Prediction of Skin Disease using Image Processing and Machine Learning. (2018)	Lakshay Bajaj, Himanshu Kumar and Yasha Hasija*.	Biotechnology	International Journal of Computer Applications, Inderscience.	2018	0975 – 8887
198.	miRACA: A database for miRNAs associated with Cancers and Age Related Disorders (ARD).(2018)	Razia Rahman, Lokesh Gahlot and Yasha Hasija*.	Biotechnology	Frontiers in Biology, Springer	2018	16747984
199.	Gut microbiome contributes to impairment of immunity in pulmonary tuberculosis patients by alteration of butyrate and propionate producers.(2018)	Abhijit Maji, Richa Misra, Darshan B. Dhakan, Vipin Gupta, Nitish K. Mahato, Rituja Saxena, Parul Mittal, Nitin Thukral, Eshan Sharma, Anoop Singh, Richa Virmani, Mohita Gaur, Harshvardhan Singh, Yasha Hasija, Gunjan Arora, Anurag Agrawal, Anil	Biotechnology	Environmental Microbiology, Society for Applied Microbiology and John Wiley & Sons Ltd	2018	1462-2920

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200.	Can Luteolin be a therapeutic molecule for both Colon Cancer and Diabetes?	Rashmi K. Ambasta, Rohan Gupta, Dhiraj Kumar, Saurabh Kumar, Bhattacharya, Pravir Kumar	Biotechnology	Briefings in functional genomics	2018	ISSN Number: 20412649
201.	An In-Silico Investigation of Key Lysine Residues and Their Selection for Clearing off A $\beta$ and Holo-A $\beta$ PP Through Ubiquitination	Dhiraj Kumar, and Pravir Kumar	Biotechnology	Interdisciplinary Sciences Computational Life Sciences	2018	ISSN Number : 19132751
202.	Cellular Toxicity of Mesoporous Silica Nanoparticle in SHSY5Y and BM-MNCs Cell.	Shivendra Chauhan , Geeta Manivasagam, Pravir Kumar, Rashmi Kumar Ambasta	Biotechnology	Pharmaceutical Nanotechnology	2018	ISSN Number:
203.	Hypoxia induced signaling activation in Neurodegenerative Diseases: Targets for new therapeutic strategies	Niraj Kumar Jha, Saurabh Kumar Jha, Renu Sharma, Dhiraj Kumar, Rashmi K Ambasta, Pravir Kumar	Biotechnology	Journal of Alzheimer's Disease	2018	ISSN Number : 13872877
204.	Effect of Malathion on Seed Germination and Content of Photosynthetic Pigments in Vigna radiata (Green Gram)	Satish Kumar, Rajkumar Bidlan, Shilpi Ahluwalia, Puneet Maurya and Jai Gopal Sharma	Biotechnology	Introduction to Challenges and Strategies to Improve Crop Productivity in Changing Environment	2018	ISBN No. 978-1-63535-013-5
205.	Dietary supplementation of vitamin C: an effective measure to give protection against UV-B irradiation using fish as model organism.	Chakrabarti, R., M. K. Singh, M. K., Sharma, J. G. and Mittal, P.	Biotechnology	Photochemical & Photobiological Sciences	2018	
206.	Mass production of Lemna minor and its amino acid and fatty acid profiles	Chakrabarti, R., Clark, W. D., Sharma, J. G., Goswami, R. K., Shrivastav, A. K. and Tocher, D. R	Biotechnology	Frontiers in Chemistry	2018	
207.	A aptasensor for rapid and sensitive detection of estrogen receptor alpha in human breast cancer. (Accepted)	Ahirwar R., Dalal A., Sharma J.G., Yadav B.K., Nahar P., Kumar A, and Kumar S.	Biotechnology	Biotechnology and Bioengineering.	2018	10970290
208.	The Continuous Culture of Brachionus plicatilis with Sea Water.	Sharma J.G., Masuda R., Tanaka M., and Chakrabarti R.	Biotechnology	Madridge Journal of Aquaculture Research & Development.	2018	
209.	Modelling and analysis of critical factors for phorbol ester degradation in Jatropha seed cake using ISM and MICMAC.	Ahluwalia S., Singh P, and Sharma J.G.	Biotechnology	International Journal of Environment and Waste Management.	2018	14789876
210.	Determining pluripotency of a cell by an in-silico method. (RJLSBPCS).	Saini A, Sharma J.G., and Singh V.K.	Biotechnology	Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences	2018	
211.	The study of effect of various temperatures on the abundance of ammonia	Khangembam, C. D., Singh, S. P., Chakrabarti, R.	Biotechnology	Indian Journal of Animal Sciences (Indian Council of	2018	

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212.	Structural analysis and protein-protein interaction of Sox2 and Sox6 to study the regulatory mechanism of pluripotency and differentiation: a bioinformatics approach.	Saini A., Sharma J. G., and Singh V. K.	Biotechnology	International Journal of Creative Research Thoughts (IJCRT).	2018	2321-9939
213.	Effect of raw, defatted and detoxified Jatropha seed cake on germination of green gram ( <i>Vigna radiata</i> ).	Ahluwalia S, Bidlan R., Saxena T., Dhamija S., Kumar S., Singh P., and Sharma J.	Biotechnology	International Journal of Research in Applied Science and Engineering Technology	2018	2321-9653
214.	Salt stress triggers augmented levels of Na <sup>+</sup> , Ca <sup>2+</sup> and ROS and alter stress-responsive gene expression in roots of CBL9 and CIPK23 knockout mutants of <i>Arabidopsis thaliana</i>	Nath M □, Bhatt D □, Jain A, Saxena SC, Saifi SK □, Yadav S, Negi M □, Prasad R □, Tuteja N.	Biotechnology	Environmental and Experimental Botany	2018	988472
215.	<i>Arabidopsis</i> SKP1-like protein 13 (ASK13) positively regulates seed germination and seedling growth under abiotic stresses	Rao V, Petla BP, Verma P, Salvi P, Kamble N, Ghosh S, Kaur H, Saxena SC, and Majee M	Biotechnology	Journal of Experimental Botany	2018	220957
216.	Salt stress triggers augmented levels of Na <sup>+</sup> , Ca <sup>2+</sup> and ROS and alter stress-responsive gene expression in roots of CBL9 and CIPK23 knockout mutants of <i>Arabidopsis thaliana</i>	Nath M □, Bhatt D □, Jain A, Saxena SC, Saifi SK □, Yadav S, Negi M □, Prasad R □, Tuteja N.	Biotechnology	Environmental and Experimental Botany	2018	988472
217.	<i>Arabidopsis</i> SKP1-like protein 13 (ASK13) positively regulates seed germination and seedling growth under abiotic stresses	Rao V, Petla BP, Verma P, Salvi P, Kamble N, Ghosh S, Kaur H, Saxena SC, and Majee M	Biotechnology	Journal of Experimental Botany	2018	220957
218.	Radiation induces perk and Ire1 mediated pro-survival autophagy.	Madhuri Chaurasia, Asmita Das*, B.S. Dwarakanath, Anne Simonsen, Kulbhushan Sharma	Biotechnology	Autophagy	2018	1554-8627
219.	In silico approach to study affinity of NK cell inhibitory receptor interaction with classical and non classical ligands	Sharma R, Das A	Biotechnology	Archives of Immunology and Allergy	2018	2639-1848
220.	Book Chapter in Advances in biotechnology	Divya Joshi, Nausheen Tickoo, Chatanya Jain, Asmita Das	Biotechnology	Advance in Biotechnology	2018	978-81-935757-0-3
221.	Role of BRCA Mutations in the Modulation of Response to Platinum Therapy.	Mylavarapu S, Das A*, Roy M	Biotechnology	Frontiers in Oncology	2018	2234-943X
222.	IL-2 mediates NK cell proliferation but not hyperactivity	Sharma R, Das A	Biotechnology	Immunol Res.	2018	0257-277X
223.	Effect of Brownian motion on reduced agglomeration of nanostructured metal oxide towards development of efficient cancer biosensor	Suveen Kumar, Ashish, Saurabh Kumar, Shine Augustine, Santosh Yadav, Rishi Chauhan, B.D. Malhotra	Biotechnology	Biosensors and Bioelectronics	2018	0956-5663

224.	Fabrication of Sensitive Bioelectrode Based on Atomically Thin CVD Grown Graphene for Cancer Biomarker Detection	Vijay K Singh; Saurabh Kumar; Sumit K Pandey; Saurabh Srivastava; Monu Mishra; Govind Gupta; B D Malhotra; R S Tiwari	Biotechnology	Biosensors and Bioelectronics,	2018	0956-5663
225.	Microfluidics Based Point of Care Diagnostics	C.M.Pandey, Shine Augustine, Saurabh Kumar, Sharda Nara, Saurabh Shrivastava, Suveen Kumar, B.D.Malhotra	Biotechnology	Biotechnology Journal	2018	1860-6768
226.	Biofunctionalized tungsten trioxide-reduced graphene oxide nanocomposites for sensitive electrochemical immunosensing of cardiac biomarker	Deepika Sandil, Saurabh Srivastava, BD Malhotra, SC Sharma, Nitin K Puri	Biotechnology	Journal of Alloys & Compounds	2018	0925-8388
227.	An Emerging Nanostructured Molybdenum Trioxide Based Biocompatible Sensor Platform for Breast Cancer Biomarker Detection	Shine Augustine, Amish Joshi, Birendra Yadav, Anurag Mehta, Venkatesan, Renugopalakrishnan, Bansi Dhar Malhotra	Biotechnology	Materials Research Communications	2018	0093-6413
228.	Multi-organ on a chip for Personalized Precision Medicine	Vivekanandan Palaninathan, Vimal Kumar, Toru Maekawa, Dorian Liepmann, Paulmurugan Ramasamy, Jairam R Eswara, Pulickel M Ajayan, Shine Augustine, Bansi Dhar Malhotra, Sowmya Viswanathan, Venkatesan Renugopalakrishnan, Sakthi D. Kumar	Biotechnology	Materials Research Communications	2018	0093-6413
229.	Multiwalled Carbon Nanotube Modified Microfluidic-Based Biosensor Chip for Nucleic Acid Detection	A.S Ghrera, CM Pandey, BD Malhotra	Biotechnology	Sensors & Actuators B	2018	0925-4005
230.	Biofunctionalized graphene oxide wrapped carbon nanotubes enabled microfluidic immunochip for bacterial cells detection	Chandan Singh, Md. Azhar Ali, Venu Reddy, Dinesh Singh, Cheol Gi Kim, G. Sumana, B. D. Malhotra	Biotechnology	Sensors & Actuators B	2018	0925-4005
231.	Electrochemical genosensor based on carboxylated graphene for detection of water-borne pathogen	Nandita Jaiswal, Chandra Mouli Pandey, Amrita Soni, Ida Tiwari, Martin Rosillo-Lopez, Christoph G. Salzmann, Bansi Dhar Malhotra, Gajjala Sumana	Biotechnology	Sensors & Actuators: B	2018	0925-4005
232.	Multiwalled Carbon Nanotube Modified	A.S Ghrera, CM Pandey, BD	Biotechnology	Sensors & Actuators B	2018	0925-4005

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233.	Biofunctionalized grapheme oxide wrapped carbon nanotubes enabled microfluidic immunochip for bacterial cells detection	Chandan Singh, Md. Azhar Ali, Venu Reddy, Dinesh Singh, Cheol Gi Kim, G. Sumana, B. D. Malhotra	Biotechnology	Sensors & Actuators B	2018	0925-4005
234.	Energy and Exergy Analysis of a Hybrid Refrigeration System	Naushad Ahmad Ansari, Akhilesh Arora, Samsher, Manjunath K	Mechanical	International Journal of Applied Engineering Research	2018	9734562
235.	Performance characteristics of a two-stage transcritical N <sub>2</sub> O refrigeration cycle with vortex tube	G Jain, A Arora, SN Gupta	Mechanical	International Journal of Ambient Energy	2018	1430750
236.	Thermodynamic analysis of low-grade solar heat source-powered modified organic Rankine cycle using zeotropic mixture (Butane/R1234yf)	D Tiwari, AF Sherwani, A Arora	Mechanical	International Journal of Ambient Energy	2018	1430750
237.	Optimization to the parameters of abrasive flow machining by Taguchi method	R Butola, R Jain, P Bhangadia, A Bandhu, RS Walia, Q Murtaza	Mechanical	Materials Today: Proceedings	2018	22147853
238.	Synthesis and Characterization of Al-alloy by Mechanical alloying	S Kumar, SK Singh, J Kumar, Q Murtaza	Mechanical	Materials Today: Proceedings	2018	22147853
239.	A critical review of diamond like carbon coating for wear resistance applications	A Tyagi, RS Walia, Q Murtaza, SM Pandey, PK Tyagi, B Bajaj	Mechanical	International Journal of Refractory Metals and Hard Materials	2018	9580611
240.	Simulation of Critical Velocity of Cold Spray Process with Different Turbulence Models	C Singhal, Q Murtaza	Mechanical	Materials Today: Proceedings	2018	22147853
241.	Analyzing disposition strategies in reverse supply chains: fuzzy TOPSIS approach	RK Singh, S Agrawal	Mechanical	Management of Environmental Quality:	2018	14777835
242.	Performance Parameters of E-waste Management in Indian Industries	H Vishvakarma, S Agrawal	Mechanical	International Journal of Electronics Engineering	2018	9737383
243.	Online condition monitoring of misaligned meshing gears using wear debris and oil quality sensors	P Kumar, H Hirani, AK Agrawal	Mechanical	Industrial Lubrication and Tribology	2018	368792
244.	Performance emission and combustion studies of diesel engine on Jatropa ethyl ester and its higher alcohol blends	R Gautam, N Kumar	Mechanical	International Journal of Global Warming	2018	17582083
245.	Performance analysis of solar parabolic trough collectors driven combined supercritical CO <sub>2</sub> and organic Rankine cycle	H. Singh, R.S. Mishra	Mechanical	Engineering science and technology, an international journal	2018	22150986
246.	Performance evaluation of the supercritical organic rankine cycle (SORC) integrated with large scale solar parabolic trough collector (SPTC) system: An exergy energy analysis	H. Singh, R.S. Mishra	Mechanical	Environmental Progress and Sustainable Energy	2018	19447442

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248.	Analysis of Material Flow and Heat Transfer in Reverse Dual Rotation Friction Stir Welding: A Review	H Mehdi, RS Mishra	Mechanical	International Journal of Steel Structures,	2018	15982351
249.	Krill Herd based Optimization for Job Shop Scheduling Problems (JSSP) to Minimize Make Span Time	V Kumar, OP Singh, RS Mishra	Mechanical	International Journal of Applied Engineering Research	2018	9734562
250.	Effect of composition ratio of P3HT:PC61BM in organic solar cells: optical and morphological properties	N Chaudhary, R Chaudhary, JP Kesari, A Patra	Mechanical	Materials Research Innovations	2018	14328917
251.	Optimization to the parameters of abrasive flow machining by Taguchi method	R Butola, R Jain, P Bhangadia, A Bandhu, RS Walia, Q Murtaza	Mechanical	Materials Today: Proceedings	2018	22147853
252.	Aluminium metal matrix composites: A retrospective investigation	G Moona, RS Walia, V Rastogi, R Sharma	Mechanical	Indian Journal of Pure & Applied Physics	2018	195596
253.	A critical review of diamond like carbon coating for wear resistance applications	A Tyagi, RS Walia, Q Murtaza, SM Pandey, PK Tyagi, B Bajaj	Mechanical	International Journal of Refractory Metals and Hard Materials	2018	9580611
254.	Effect of hybrid wire EDM conditions on generation of residual stresses in machining of HCHCr D2 tool steel under ultrasonic vibration	S Kumar, S Grover, RS Walia	Mechanical	International Journal on Interactive Design and Manufacturing	2018	19552513
255.	Development of an innovative polygeneration process in hybrid solar-biomass system for combined power, cooling and desalination	RC U. Sahoo, R. Kumar, P.C. Pant	Mechanical	Applied Thermal Engineering	2018	13594311
256.	Energy, Exergy, Economic Analysis and Optimization of Polygeneration Hybrid Solar-Biomass System	AKT U Sahoo, R Kumar, SK Singh	Mechanical	Applied Thermal Engineering	2018	13594311
257.	Energy and exergy analyses of a solar powered multi-effect cooling cycle	RK Abdul Khaliq , Esmail M.A. Mokheimer	Mechanical	International Journal of Exergy	2018	17428297
258.	Investigation on a solar thermal power and ejector-absorption refrigeration system based on first and second law analyses	EMAM Abdul Khaliq, Rajesh Kumar	Mechanical	Energy	2018	3605442
259.	The Mechanical Properties of Different alloys in friction stir processing: A Review	A Chaudhary, AK Dev, A Goel, R Butola, MS Ranganath	Mechanical	Materials Today: Proceedings	2018	22147853
260.	Effect of composition ratio of P3HT:PC61BM in organic solar cells: optical and morphological properties	N Chaudhary, R Chaudhary, JP Kesari, A Patra	Mechanical	Materials Research Innovations	2018	14328917
261.	Solar Energy a Path to India's Prosperity	YP Chandra, A Singh, V Kannojiya, JP Kesari	Mechanical	Journal of the Institution of Engineers (India): Series C	2018	22500545
262.	A Study on the Application	NK Satvik Jain,	Mechanical	SAE Technical	2018	1487191

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263.	Design and Optimization of Composite HAWT Blade	NK Rohan Brella	Mechanical	SAE Technical Papers	2018	1487191
264.	Transient Analysis of Natural Convection around a Pair of Circular Cylinders Inside a Square Enclosure	AM Mukul Tomar, Naveen Kumar	Mechanical	SAE Technical Papers	2018	1487191
265.	Failure investigations of a first stage Ni based super alloy gas turbine blade	S Rani, AK Agrawal, V Rastogi	Mechanical	Materials Today: Proceedings	2018	22147853
266.	Dynamic analysis of vehicle-track interaction due to wheel flat using bond graph	V Kumar, V Rastogi, PM Pathak	Mechanical	Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics	2018	14644193
267.	A novel approach to study effects of asymmetric stiffness on parametric instabilities of multi-rotor-system	AKA Anuj Kumar Jain, Vikas Rastogi	Mechanical	Journal of Sound and Vibration	2018	0022460X
268.	Aluminium metal matrix composites: A retrospective investigation	G Moona, RS Walia, V Rastogi, R Sharma	Mechanical	Indian Journal of Pure & Applied Physics	2018	195596
269.	Computational modelling and simulation of commercial truck with road-tyre interactions to evaluate ride comfort	A Gupta, V Rastogi	Mechanical	International Journal of Heavy Vehicle Systems	2018	1744232X
270.	Macro-mechanical Analysis on the Variation of Fibre Orientation in a Composite UAV Landing Gear	V Kumar, V Rastogi, PM Pathak	Mechanical	Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit	2018	9544097
271.	Stress-Induced Magnetic Field Inhomogeneity in a 1.5 T Superconducting MRI Magnet	SR Thekkethil, S Kar, M Kumar, V Soni, NK Suman, RG Sharma, V Rastogi, TS Datta	Mechanical	IEEE Transactions on Applied Superconductivity	2018	10518223
272.	The impact of total productive maintenance on key performance indicators (PQCDSM): a case study of automobile manufacturing sector	R Sharma, J Singh, V Rastogi	Mechanical	International Journal of Productivity and Quality Management	2018	17466474
273.	Mechanical properties and microstructural characterization of automated pulse TIG welding of dissimilar aluminum alloy	PK Baghel, DS Nagesh	Mechanical	Indian Journal of Engineering and Materials Sciences	2018	9714588
274.	Collector characterisation and heat loss tests on a novel batch solar water heater with CPC reflector for households	Jaji Varghese, Samsher, K. Manjunath	Mechanical	international journal of ambient energy	2018	1430750
275.	Performance analysis of R22 and its substitutes in air conditioners	Suneel Kumar Kalla, B.B. Arora, J.A. Usmani	Mechanical	Journal of Thermal Engineering	2018	21487847
276.	Alternative refrigerants for HCFC 22-A review	Suneel Kumar Kalla, B.B. Arora, J.A. Usmani	Mechanical	Journal of Thermal Engineering	2018	21487847
277.	Security Engineering Methods: In-Depth Analysis	Shruti Jaiswal, Daya Gupta	CSE	International Journal of Information and Computer Security	2017	17441765
278.	Optimized Power Efficient Routing in Ad -Hoc Networks	Jaspal Kumar, M Kulkarni, Daya Gupta, S. Indu	CSE	International Journal of Next Generation	2017	22294678



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279.	A Robust Database Watermarking Algorithm using Bezier Cubic Curves	Manoj Kumar, O.P.Verma	CSE	International Journal of Pure and Applied Mathematics	2017	13118080
280.	Energy Efficient Probabilistic Clustering Technique for Data Aggregation in Wireless Sensor Network	Rajesh K. Yadav, Daya Gupta I, D. K. Lobiyal	CSE	Wireless Personal Communications	2017	0929-6212
281.	An Empirical Study to Evaluate the Relationship of Object- Oriented Metrics and Change Proneness	R. Malhotra and M. Khanna	CSE	International Arab Journal of Information Technology	2017	16833198
282.	Privacy Preserving, Verifiable and Efficient Outsourcing Algorithm for Regression Analysis to a Malicious Cloud	M. Kumar, J. Meena, and M. Vardhan	CSE	Journal of Intelligent and Fuzzy Systems	2017	10641246
283.	Analyzing machine learning techniques for fault prediction using Web Applications	Ruchika Malhotra and Anjali Sharma	CSE	Journal of Information Processing Systems	2017	1976913X
284.	Privacy Preserving, Verifiable and Efficient Outsourcing Algorithm for Regression Analysis to a Malicious Cloud	M. Kumar, J. Meena, and V. Manu	CSE	Journal of Intelligent and Fuzzy Systems	2017	10641246
285.	Automatic texture defect detection using Gaussian mixture entropy modeling	S. Susan and M. Sharma	CSE	Neurocomputing	2017	9252312
286.	An Empirical Study for Software Change Prediction using Imbalanced Data	R. Malhotra and M. Khanna	CSE	Empirical Software Engineering	2017	13823256
287.	Text Classification Algorithms for Mining Unstructured Data: A SWOT Analysis	Kumar, V. Dabas, P. Hooda	CSE		2017	25112104
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289.	Fuzzy-Contextual Contrast Enhancement	A.S. Parihar, O.P. Verma, and C. Khanna	CSE	IEEE Transactions on Image Processing	2017	10577149
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421.	Theoretical modeling to study the impact of different oxidizers (etchants) on the plasma-assisted catalytic carbon nanofiber growth	Ravi Gupta and Suresh C Sharma	Applied Physics	Phys. of Plasmas 24,073504	2017	1070-664X
422.	Generating Tunable THz radiatio using rippled density plasma driven by density modulated relativistic electron beam (REB)	Pratibha Malik, Suresh C. Sharma and Rinku Sharma	Applied Physics	Phys. of Plasmas 24, 073101	2017	1070-664X

423.	Modeling of Terahertz radiation emission from free electron laser	Suresh C. Sharma, Jyotsna Panwar, and Rinku Sharma	Applied Physics	Contributions to Plasma Physics 57, 167-175	2017	0863-1042
424.	Biofunctionalized Nanostructured Tungsten Trioxide Based Sensor for Cardiac Biomarker Detection	Deepika Sandil, Saurabh Kumar, Kamal Arora, Saurabh Srivastava, B. D. Malhotra, S. C. Sharma, Nitin K. Puri	Applied Physics	Material Letters Vol. 186, Pages 202–205	2017	0167-577X
425.	A novel red emitting Eu <sup>3+</sup> doper calcium aluminozincate phosphors for applications in w-LEDs	Sumandeep Kaur, M.Jayasimhadri, A. Srinivasa Rao	Applied Physics	Journal of Alloys and Compounds 697 (2017) 367-373	2017	0925-8388
426.	Spectroscopic and photoluminescence characteristics of Sm <sup>3+</sup> doped calcium aluminozincate phosphor for applications in w-LEDs	Sumandeep Kaur, A. Srinivasa Rao and M.Jayasimhadri	Applied Physics	Ceramics International 43 (2017) 7401-7407.	2017	0272-8842
427.	Spectroscopic studies of Pr <sup>3+</sup> doped lithium lead alumino borate glasses for visible reddish orange luminescent device applications	Nisha Deopa, A. S. Rao, Sk.Mahamuda, Mohini Gupta, M.Jayasimhadri, D.Haranath and G. Vijaya Prakash	Applied Physics	Journal of Alloys and Compounds 708 (2017) 911-921	2017	0925-8388
428.	Single n-UV band pumped PBO-GeO <sub>2</sub> -TeO <sub>2</sub> :Tb <sup>3+</sup> yellowish green emitting glass material for tricolour white LEDs	M. Jayasimhadri, Kaushal Jha, B.V.Ratnam, Hyun-Joo Woo, Kiwan Jang, A.S.Rao and D. Haranath	Applied Physics	Journal of Alloys and Compounds 711 (2017) 395-399	2017	0925-8388
429.	Photoluminescence and energy transfer studies of Dy <sup>3+</sup> ions doped lithium lead alumino borate glasses for w-LED and Laser applications	Nisha Deopa and A.S.Rao	Applied Physics	Journal of Luminescence 192 (2017) 832-841	2017	0022-2313
430.	Spectroscopic studies of Sm <sup>3+</sup> ions activated lithium lead alumino borate glasses for visible luminescent device applications	Nisha Deopa and A.S.Rao	Applied Physics	Optical Materials 72 (2017)31-39	2017	0925-3467
431.	Compositional dependence of Red Luminescence from Eu <sup>3+</sup> ions doped single and mixed alkali fluoro tungsten tellurite glasses	Ch.B. Annapurna Devi, Sk. Mahamuda, K. Swapna, M. Venkateswarlu, A. Srinivasa Rao and G. Vijaya Prakash	Applied Physics	Optical Materials 62(2017)569-577	2017	0925-3467
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434.	M.S. Medicinal Plant Leaf Extract and Pure Flavonoid Mediated Green Synthesis of Silver Nanoparticles and their Enhanced Antibacterial Property	Jain, S., Mehata	Applied Physics	Scientific Reports 7 (2017) 15867	2017	2045-2322
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436.	Investigation of biocompatible and protein sensitive highly luminescent quantum dots/nanocrystals of CdSe, CdSe/ZnS and CdSe/CdS	Ratnesh R.K., Mehata M.S.	Applied Physics	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 179 (2017) 201–210.	2017	1386-1425
437.	Investigation of charge-separation/change in dipole moment of 7-azaindole: Quantitative measurement using solvatochromic shifts and computational approaches	Mehata, M.S., Singh, A.K., Sinha, R.K	Applied Physics	Journal of Molecular Liquids 231 (2017) 39–44.	2017	0167-7322
438.	Synthesis and Optical Properties of Core-Multi-Shell CdSe/CdS/ZnS Quantum Dots: Surface modifications	Ratnesh R.K., Mehata M.S	Applied Physics	Optical Materials 64 (2017) 250-256. ISI Impact Factor = 2.18.	2017	1873-1252
439.	Study of CuO doped activated carbon nanofibers on H <sub>2</sub> S gas adsorption	Bharat Bajaj, Sujeong Kim, Kwang-Bok Yi, Han-Ik Joh, Seong Mu Jo, Sungho lee	Applied Physics	Applied Surface Science 429, 253-257	2017	0169-4332
440.	Ion irradiation-induced, localized sp <sup>2</sup> to sp <sup>3</sup> hybridized carbon transformation in walls of multiwalled carbon nanotubes	Kumari, R., Singh, F., Yadav, B. S., Kotnala, R. K., Peta, K. R., Tyagi, P. K., ... & Puri, N. K	Applied Physics	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 412, 115-122.	2017	0168-583X
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449.	Detection of circular Rydberg states in lifetime measurements	Sharma, G., & Puri, N. K.	Applied Physics	Journal of Physics: Conference Series (Vol. 875, No. 12, p. 112010)	2017	1742-6596
450.	Enhanced structural, dielectric, ferroelectric and piezoelectric properties of (1-x) Ba <sub>0.9</sub> Sr <sub>0.1</sub> TiO <sub>3</sub> -(x) Ba <sub>0.7</sub> Ca <sub>0.3</sub> TiO <sub>3</sub> ceramics derived using mechano-chemical activation technique	Jain Aditya, Panwar A. K., Jha A. K. and Sharma Yogesh	Applied Physics	Journal of the American Ceramic Society, Vol. 100(11)	2017	2162268
451.	Study of ferroelectric phase transition in new lead free Ba(Ca <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> compound	Pastor M., Tirupathi P., Kumar N., Panwar A.K., Chopkare M., and Bhadoria B. S.	Applied Physics	Ferroelectric, Vol. 518, pp-1-12.	2017	0015-0193
452.	Improvement in dielectric, ferroelectric and ferromagnetic characteristics of Ba <sub>0.9</sub> Sr <sub>0.1</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> -NiFe <sub>2</sub> O <sub>4</sub> composites	Jain Aditya, Panwar A. K., Jha A. K. and Sharma Yogesh	Applied Physics	Ceramic International, Vol.43	2017	0272-8842
453.	Effect of in situ pyrolysis of acetylene (C <sub>2</sub> H <sub>2</sub> ) gas as a carbon source on the electrochemical performance of LiFePO <sub>4</sub> for rechargeable lithium-ion batteries	Saroja Rakesh and Panwar A. K	Applied Physics	J Physics D: Applied Physics, Vol. 50	2017	0022-3727
454.	Synthesis and Electrochemical characterization of Graphene nanoflakes and LiFe <sub>0.97</sub> Ni <sub>0.03</sub> PO <sub>4</sub> /C for lithium ion battery	Saroja Rakesh, Farooq Akmal R., Krishniya Lucky, Tyagi P.K. and Panwar A. K.	Applied Physics	Ionics, Vol.23, pp-2641-2650.	2017	0167-2738
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456.	Development and Electrochemical performances of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> materials for lithium ion battery	Saroja Rakesh, Singh Jitendra, Verma Sandeep, Jain Aditya, Panwar A.K.	Applied Physics	Ionics, Vol 23, pp-2631-2639.	2017	0167-2738
457.	Estimation of intrinsic work function of multilayer graphene by probing with electrostatic force microscopy	Singh Anshika, Guha Pushpendu, Panwar A. K., Tyagi P. K.	Applied Physics	Applied surface science, Vol. 402, pp- 271–276.	2017	0169-4332
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459.	Effect of ZnO doping on structural, dielectric, ferroelectric and piezoelectric properties of BaZr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> Ceramics	Jain Aditya, Panwar A. K., Jha A. K.	Applied Physics	Ceramic International, Vol.43(3), pp.2927-2932.	2017	0272-8842
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461.	Enhanced infrared-to-visible up-conversion emission and temperature sensitivity in (Er <sup>3+</sup> , Yb <sup>3+</sup> , and W <sup>6+</sup> ) tri-doped Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ferroelectric oxide	Renuka Bokolia, M Mondal, VK Rai, K Sreenivas	Applied Physics	Journal of Applied Physics 121 (8), 084101	2017	0021-8979
462.	980 nm excited Er <sup>3+</sup> /Yb <sup>3+</sup> /Li <sup>+</sup> /Ba <sup>2+</sup> : NaZnPO <sub>4</sub> upconverting phosphors in optical thermometry	Lakshmi Mukhopadhyay, Vineet Kumar Rai, Renuka Bokolia, K Sreenivas	Applied Physics	Journal of Luminescence 187, 368-377	2017	0022-2313
463.	LiTaO <sub>3</sub> based metamaterial perfect absorber for terahertz spectrum	Nishant Shankhwar, Yogita Kalra and Ravindra Kumar Sinha	Applied Physics	Superlattices and Microstructures	2017	0749-6036
464.	Multicolor and white light emitting Tb <sup>3+</sup> /Sm <sup>3+</sup> doped zinc phosphate barium titanate glasses via energy transfer for optoelectronic device applications	Kaushal Jha, Amit K. Vishwakarma, M. Jayasimhadri, D. Haranath	Applied Physics	Journal of Alloys and Compounds 719 (2017) 116-124	2017	0925-8388
465.	Single NUV band pumped PbO-GeO <sub>2</sub> -TeO <sub>2</sub> :Tb <sup>3+</sup> yellowish green emitting glass material for tricolor white LEDs	M. Jayasimhadri, Kaushal Jha, B.V. Ratnam, Hyun-Joo Woo, Kiwan Jang, A.S. Rao, D. Haranath	Applied Physics	Journal of Alloys and Compounds 711 (2017) 395-399	2017	0925-8388
466.	Structural and emission properties of Eu <sup>3+</sup> doped alkaline earth zinc phosphate glasses for white LED applications	Kaushal Jha, M. Jayasimhadri	Applied Physics	Journal of the American Ceramic Society 100 (2017) 1402-1411	2017	0216-2268
467.	Abnormal temperature dependent luminescence behavior of CaSrSiO <sub>4</sub> :Eu <sup>2+</sup> phosphors synthesized via sol-gel strategy	Hyun-Joo Woo, M. Jayasimhadri, Kiwan Jang	Applied Physics	Journal of Alloys and Compounds 703 (2017) 80-85	2017	0925-8388
468.	Optimization of synthesis technique and luminescent properties in Eu <sup>3+</sup> -activated NaCaPO <sub>4</sub> phosphor for solid state lighting applications	B. V. Ratnam, Mukesh K. Sahu, Amit K. Vishwakarma, Kaushal Jha, Hyun-Joo Woo, Kiwan Jang, M. Jayasimhadri	Applied Physics	Journal of Luminescence 185 (2017) 99-105	2017	0022-2313
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476.	LiTaO <sub>3</sub> based metamaterial perfect absorber for terahertz spectrum	Nishant Shankhwar, Yogita Kalra and Ravindra Kumar Sinha	Applied Physics	Superlattices and Microstructures	2017	0749-6036
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479.	Potential application of multilayer n-type tungsten diselenide (WSe <sub>2</sub> ) sheet as transparent conducting electrode in silicon heterojunction solar cell	Pranjala Tiwari, Kamlesh Patel, Lucky Krishnia, Reetu Kumari, Pawan K. Tyagi	Applied Physics	Computational Materials Science 136 (2017) 102-108	2017	0927-0256
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483.	Single layer graphene possessing anomalous dispersion with exotic microwave transmission and dielectric properties	Kamlesh Patel, Pawan K. Tyagi	Applied Physics	Journal of Alloys and Compounds,706 (2017) 250-259	2017	0925-8388
484.	Half-Metallic ferromagnetism in V-doped ALP: An imperative compound for spintronic	H.S. Saini, A.K. Pundir, Jyoti Thakur, Mukhtiyar Singh and M.K. Kashyap	Applied Physics	AIP Conf. Proc. 1832, 130017	2017	1551-7616
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491.	Effect of Structured Parameters on Hot-Carrier Immunity of Transparent Gate Recessed Channel (TGRC) MOSFET	Ajay Kumar, Neha Gupta and Rishu Chaujar	Applied Physics	Microsystem Technologies, Springer, Vol.23, Issue 9, pp.4057-4064	2017	1432-1858
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493.	Numerical Simulation of N <sup>+</sup> Source Pocket PIN-GAA - Tunnel FET: Impact of Interface Trap Charges and Temperature Affectability	Jaya Madan and Rishu Chaujar	Applied Physics	IEEE Transactions on Electron Devices	2017	0018-9383
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508.	Fuzzy-Contextual Contrast Enhancement	Anil Singh Parihar, O. P. Verma and Chintan Khanna	Information Technology	IEEE Transactions on Image Processing	2017	10577149
509.	Efficient music recommender system using context graph and particle swarm	R. Katarya and O. P. Verma	Information Technology	Multimedia. Tools and Applications	2017	13807501
510.	Effectual recommendations using artificial algae algorithm and fuzzy c-mean	R. Katarya and O. P. Verma	Information Technology	Swarm and Evolutionary Computation	2017	22106502
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513.	Fuzzy-Contextual Contrast Enhancement	Anil Singh Parihar, O. P. Verma and Chintan Khanna	Information Technology	IEEE Transactions on Image Processing	2017	10577149
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26.	Gupta, V., & Jain, N.	Revolutionizing Indian Higher Education through Knowledge Management and Information and Communications Technology: A Conceptual Model	Seventeenth Global Conference on Flexible Systems Management,	2017			December
27.	Gupta, V.; Thomas, A. and Sardana, Timsy	Intersection of Big Data and Knowledge Management for Organizational Competitiveness	Seventeenth Global Conference on Flexible Systems Management,	2017			December
28.	Amrita Sisodia and Rajni Jindal	Exploring the application of Big Data Analysis in healthcare sector	4th annual international conference on Computational Science & Computational Intelligence (CSCI-2017)	2017		IEEE	December
29.	A. Kumar, N. Sachdeva & A. Garg	GA Optimized ANN for Context Aware Recommender System	17th International Conference on Hybrid Intelligent Systems (HIS 2017)	2017	ISBN: 978-3-319-76351-4	Springer	December
30.	A. Kumar, A. Sharma, S. Sharma, S. Kashyap	Performance Analysis of Keyword Extraction Algorithms Assessing Extractive Text Summarization	International Conference on Computer, Communications and Electronics 2017	2017	ISBN: 9781509047093	IEEE	December
31.	R. K. Yadav and A. Singh	Comparative study of PEGASIS based protocols in wireless sensor networks	1st India International Conference on Information Processing (IICIP)	2017		IEEE	December
32.	S. Indu, Shubham Dokania, Ayush Chopra, Feroz Ahmad, Santanu Chaudhury	Unsupervised Feature Descriptors Based Facial Tracking over Distributed Geospatial Subspaces	A paper published in PREMI 2017	2017	978-3-319-69900-4	NA for conferences	December

33.	S. Indu, Feroz Ahmad	Adversarial Optimization of Indoor Positioning System Using Differential Evolution	A paper published in PREMI 2017	2017	978-3-319-69900-4	NA for conferences	December
34.	R. Joshi, A. Raghuvanshi, Y. Gilhotra, S. Sharma, S. Sharma, P. Dalmia, N. Pandey	An FPGA based floating point Gauss-Seidel iterative solver	14th IEEE INDICON	2017			December
35.	P. Dalmia, A. Parashar, G. Aggarwal, R. Dang, N. Pandey	Fast Combinational Architecture for a Vedic Divider	14th IEEE INDICON	2017			December
36.	Vivek Kumar	Dynamics of a delayed prey-predator model using modified Holling Tanner functional response with migration	2nd International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2017)	2017	978-0-7354-1585-0	American Institute of Physics	December
37.	Vivek Kumar	Bifurcation Analysis of a Delayed Modified Holling-Tanner Predator-Prey Model with Refuge	International Conference on Mathematics and Computing - 2017	2017	978-981-10-4641-4	Springer	December
38.	Vishal Verma	Isolated voltage multiplier converter for sustainable off-grid EV charging application	IEEE Transportation Electrification Conference (ITEC-India)	2017	978-1-5386-2668-9	NA	December
39.	Vishal Verma	Hybrid trans-impedance network high gain step-up DC-DC converter with low switch stress	7th International Conference on Power Electronics Systems and Applications - Smart Mobility, Power Transfer & Security (PESA)	2017	978-1-5386-1387-0	NA	December
40.	Amrish K. Panwar	Synthesis and Physicochemical Characterization of LiMn <sub>2</sub> O <sub>4</sub> as Cathode Material for Lithium Ion Battery using Two Different Routes	Proceedings of Second International Conference on: Advanced Production and Industrial Engineering -ICAPIE 2017	2017		I.K. International Publishing House Pvt. Ltd.	December

41.	Prof. S. C. Sharma	Studies of the Growth and Field Emission Properties of Vertical Graphene Sheet via PECVD Process	International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN3I-2017)	2017			December
42.	Mukhtiyar Singh	Proceedings of the 61st DAE-Solid State Physics Symposium (DAE-SSPS 2013)	DAE Solid State Physics Symposium 2016	2017	ISSN: 1551-7616	American Institute of Physics (AIP)	December
43.	Dr. Mohan Singh Mehata	Photoexcitation dynamics of a bio-sensitive molecule 2-anilinonaphthalene-6-sulfonic acid: Transient absorption and time-resolved spectroscopy.	26th DAE-BRNS National Laser Symposium (NLS-26)	2017	NA	BARC	December
44.	Dr. Mohan Singh Mehata	Magic size CdTe and CdTe/ZnS core-shell QDs based optical sensor for selective detection of Pb <sup>2+</sup> and Fe <sup>2+</sup> in aqueous medium	26th DAE-BRNS National Laser Symposium (NLS-26)	2017	NA	BARC	December
45.	Dr. M.S. Mehata	Synthesis and characterization of titanium dioxide (TiO <sub>2</sub> ) via low-temperature synthesis method	26th DAE-BRNS National Laser Symposium (NLS-26)	2017	NA	BARC	December
46.	M. Kumar, J. Meena, and M. Vardhan	Data Confidentiality and Integrity Preserving Outsourcing Algorithm for System of Linear Equation to a Malicious Cloud Server	4th IEEE International Conference on Electronics and Communication Systems (ICECS)	2017	ISBN: 978-1-5386-1911-7	IEEE	February
47.	R. Malhotra	Secure & Efficient Deligation of System of Linear Equation to a Malicious Cloud Server	In Proc. 10th Innovations in Software Engineering Conference	2017	ISBN 978-1-4503-4856-0	ACM	February
48.	R. Malhotra and K. Lata	Software Quality Predictive Modeling: An Effective Assessment of Experimental Data	In Proc. 10th Innovations in Software Engineering Conference (ISEC2017)	2017	ISBN 978-1-4503-4856-0	ACM	February

49.	Y. Nigam, R. Pandey, N. Pandey	Curvature compensated TIA based BGR	4th IEEE International Conference on Signal Processing and Integrated Networks (SPIN)	2017	5090-2797	NA for conferences	February
50.	R K Agrawal, N Pandey, K Gupta	Implementation of PFSCCL razor flipflop	International Conference on Computing Methodologies and Communication (ICCMC)	2017			February
51.	Dr. Archana Singh & Shikha Gupta	Global financial crisis and its Impact on foreign trade (A study of indian Economy using Gravity model)	2nd Global leadership research conference	2017	ISBN: 978-93-86330-04-8		February
52.		SiC Encapsulation Based Coaxial Silicon Nanowire Solar Cell for Concentrated Photovoltaic Applications, pp. 84-87	Second National Conference on Recent Developments in Electronics (NCRDE-2017), Department of Electronic Science, University of Delhi South Campus, New Delhi, India. February 17-18, 2017	2017	978-81-933475-3-9		February
53.		Source Pocket Parameters Assessment of PNIN-GAA-TFET for Improved Analog Performance and High Switching Speed Applications, pp.77-83	Second National Conference on Recent Developments in Electronics (NCRDE-2017), Department of Electronic Science, University of Delhi South Campus, New Delhi, India. February 17-18, 2017	2017	978-81-933475-3-9		February
54.	Preeti Nagar; Divyashikha Sethia	Group authorization using threshold signatures for medical procedures	9th International Conference on Communication Systems and Networks (COMSNETS)	2017	ISSN: 2155-2509	IEEE	January
55.	J. Meena, M. Kumar, and M. Vardhan	Dynamic Password Authentication Protocol Using Android Device and One-Way Function	2nd International Conference on Sustainable Computing Techniques in Engineering, Management and Science	2017			January
56.	R. Jindal and A. Singhal	An Exploratory Study for Predicting Maintenance Effort using Hybridized Techniques	2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (SCESM2017)	2017			January



57.	R. Jindal and S. Taneja	Ontology for Learning Object Metadata to make contextual search in E-library	2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (SCESM2017)	2017			January
58.	Priyanka Gupta, Rajeshwari Pandey	Single VDBA based Multifunction Filter	International Conference on Sustainable Computing Techniques in Engineering, Science and Management	2017	0974-5572	NA for conferences	January
59.	Jeebananda Panda	Genetic Algorithm based optimised color image watermarking technique using SVD and DWT	7th IEEE International advance computing conference	2017	Electronic ISBN: 978-1-5090-1560-3 Print on Demand(PoD) ISBN: 978-1-5090-1561-0	IEEE	January
60.	Anshul Arora	Minimizing Network Traffic Features for Android Mobile Malware Detection	International Conference on Distributed Computing and Networking	2017	ISBN: 978-1-4503-4839-3	ACM	January
61.	Chopra, M. and Gupta, V.	Call of the Times: Digitization	National Conference on Paradigm shift from Developing to Developed India through Digitalization	2017		National Conference on Paradigm shift from Developing to Developed India through Digitalization	July
62.	A. Kumar, InduBala, S. Jain	A Comprehensive Study of TARS: Definition, Metrics and Advancements	UPCON: The IEEE Conference on Electrical, Computer and Electronics (UPCON-2017)	2017	ISBN978-1-5386-3004-4	IEEE	July
63.	Divyashikha Sethia, Daya Gupta, Harsh Dabas, Preeti Nagar, Huzur Saran	Selective IoT Access with Scalable CP-ABE Revocation and Delegation	Selective IoT Access with Scalable CP-ABE Revocation and Delegation	2017		IEEE	July
64.	Ruchika Malhotra and Megha Khanna	Software change prediction using voting particle swarm optimization-based ensemble classifier	Genetic and Evolutionary Computation Conference	2017	ISBN: 978-1-4503-4939-0	ACM DL	July
65.	N Saxena, Shruti Dutta, N Pandey, K Gupta	Implementation and Performance Comparison of a Four-Bit Ripple-Carry Adder Using Different MOS Current Mode Logic Topologies	International Conference on Computational Science and Its Applications	2017			July

66.	Pragati and Priyanka Jain	Realization of First-order structure for Recursive Algorithm of Discrete Sine Transform	8th International Conference on Computing Communication and Networking Technologies ICCCNT	2017			July
67.	Anjana Gupta	Classification based on Data Envelopment Analysis and supervised learning a case study on energy performance of residential buildings	2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2017	978-1-4673-8587-9	IEEE	July
68.	Dr. Archana Singh & Ruchi Kansil	Concentrated Foreign Shareholdings and Corporate Governance in the Indian context'	India Finance Conference 2017	2017	presentation only.		July
69.	A. Kumar, S. Praveen, N. Goel, K. Sanwal	Opinion Extraction from Quora using User-Biased Sentiment Analysis	Fourth International Conference on Information Systems Design and Intelligent Applications	2017	ISBN: 978-981-10-7512-4	Springer	June
70.	S. Indu, Saksham Saxena, Samdish Arora, Chanpreet Singh	'Automatic Dipper System Using Camera in Vehicles	paper to be presented in IEEE TENSYPMP 2017	2017	1572-7672	NA for conferences	June
71.	Prof. S. C. Sharma	Formalism to Study the Effect of Hydrogen on the Plasma-Assisted Growth and Field Emission Properties of the Graphene sheet	44th EPS Conf. on Plasma Physics	2017	ISBN: 979-10-96389-07		June
72.	Prof. S. C. Sharma	Modelling graphene sheet growth subjected to plasma containing negatively charged ions	44th EPS Conf. on Plasma Physics	2017	ISBN: 979-10-96389-07		June
73.	Prof. S. C. Sharma	Role of etchant on the morphology of plasma grown carbon nanofibers: Theoretical modeling	44th EPS Conf. on Plasma Physics	2017	ISBN: 979-10-96389-07		June
74.	Prof. S. C. Sharma	Theoretical Investigations to Study the Effect of C <sub>2</sub> H <sub>2</sub> /H <sub>2</sub> gas ratio on the Multi-Walled Carbon Nanotubes Growth	44th EPS Conf. on Plasma Physics	2017	ISBN: 979-10-96389-07		June
75.	Prof. S. C. Sharma	Threshold power of amplitude modulated laser beam in complex plasma	44th EPS Conf. on Plasma Physics	2017	ISBN: 979-10-96389-07		June

76.		Interdigitated Back Contact Silicon Solar Cell with Perovskite layer for Front Surface Passivation and Ultraviolet Radiation Stability. Pp.1-5	IEEE 44th Photovoltaic Specialist Conference (PVSC), June 25-30, 2017, Washington DC, USA.	2017		IEEE	June
77.	Indu Singh	Detection of Malicious Transactions in Databases using Dynamic Sensitivity and Weighted Rule Mining	4th IEEE Sponsored International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS-2017	2017	ISBN: 9781509032952	IEEE	March
78.	A. Kumar, R. Chugh, R. Girdhar, S. Aggarwal	Classification of Faults in Web Application Using Machine Learning	2017 Intl. Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2017)	2017	ISBN:978-1-4503-4798-3	ACM	March
79.	Kumar. A. Joshi	Ontology-driven Sentiment Analysis on Social Web for Government Intelligence	Proceedings of the 10th International Conference on Theory and Practice of Electronic Governance, ICEGOV 2017	2017	ISBN: 978-1-4503-4930-7	ACM	March
80.	Indu Singh; Shubhi Sareen; Himanshu Ahuja	Detection of Malicious Transactions in Databases using Dynamic Sensitivity and Weighted Rule Mining	International Conference on Innovations in Information, Embedded and Communication Systems, ICIIECS-2017	2017	ISBN: 978-1-5090-3294-5	IEEE	March
81.	A. Kumar and A. Joshi	Indigov-O: An Ontology based Tool for Sentiment Analysis to Empower Digital Governance	Proc. 10th International Conference on Theory and Practice of Electronic Governance	2017	ISBN 978-1-4503-4825-6	ACM	March
82.	A. Kumar, R. Chugh, R. Girdhar and S. Aggarwal	Performance Analysis of Keyword Extraction Algorithms Assessing Extractive Text Summarization	International Conference on Intelligent Systems, Metaheuristics and Swarm Intelligence (ISMSI 2017)	2017	ISBN:978-1-4503-4798-3	ACM	March
83.	G. Bholra, D. Kaur and M. Raj	Classification Of Faults in Web Application Using Machine Learning	International conference on Wireless Communications Signal Processing and Networking 2017	2017	ISBN:978-1-5090-4441-2	IEEE	March
84.	M. Kumar, J. Meena, and M. Vardhan	A Systematic Review on Effective Workflow Scheduling Algorithms in Cloud under Deadline Constraint	International Conference on Smart Technologies in Computer and Communication	2017			March

85.	S. Indu, N Jayanthi	Inscription Image Retrieval Using Bag of Visual Words	IOP Conf. Ser.: Mater. Sci	2017	1757-8981	NA for conferences	March
86.	S. Indu, N. Jayanthi	Application of Gaussian as Edge Detector for Image Enhancement of Ancient Manuscripts	IOP Conf. Ser.: Mater. Sci. Eng	2017	1757-8981	NA for conferences	March
87.	S. Indu, Akshay Gupta, Anikate Kaw, Sanjay Gehi	Life Detection System using Continuous Wave Doppler Radar and Blind Source Separation	proceedings of Devices for Integarted Circuits (DevIC 2017) organised by ECE Department of Kalyani Government Engineering College (KGEC) Kolkata	2017	1793-6438	NA for conferences	March
88.	Sandeep Kumar, Sanjay Kumar Soni, Priyanka Jain	Performance Analysis of Hoyt-lognormal Composite Fading Channel	IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET-2017)	2017	Page no.: 2542-2546	IEEE	March
89.	R. Senani, D. R. Bhaskar, S. S. Gupta, P. Kumar and R. K. Sharma	On the Synthesis of Sinusoidal Oscillators using Nullors	Nova Science Publishers, Inc. (USA)	2017			March
90.	R. K. Yadav and H. Vohra,	Design architecture and comparison of interactive smart button using HC-05 and ESP8266	International Conference on Computing, Communication and Automation (ICCCA)	2017	ISBN: 978-1-5090-6472-4	IEEE	May
91.	R. K. Yadav and J. Singh	Energy efficient clustering based data gathering using hybrid DB-EMGM in distributed sensor networks	International Conference on Computing, Communication and Automation (ICCCA)	2017	ISBN: 978-1-5090-6472-4	IEEE	May
92.	A. Kumar, A. Jaiswal	Image Sentiment Analysis using Convolutional Neural Network	17th International Conference on Intelligent Systems Design and Applications (ISDA 2017)	2017	ISBN: 978-3-319-76348-4	Springer	May
93.	A. Kumar, N. Soderia	Open Problems in Recommender System Diversity	International Conference on Computing, Communication and Automation (ICCCA2017)	2017	ISBN: 978-1-5090-6471-7	IEEE	May
94.	Shalini Sheoran; Divyasikha Sethia; Huzur Saran	Optimized MapFile Based Storage of Small Files in Hadoop	17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID)	2017	ISBN: 978-1-5090-6611-7	IEEE/ACM	May

95.	S. Indu, Jyoti Swaroop	Edge detection method based on Cellular Automata	published in International Conference International Conference on Contemporary issues in Science, Engineering & Management	2017	5461-9840	NA for conferences	May
96.	Prof. S. C. Sharma	Current driven Low frequency electrostatic waves in a collisional strongly coupled magnetized dusty plasma	8th International conference on physics of Dusty Plasmas	2017	ISBN:978-80-7378-339-6		May
97.	Prof. S. C. Sharma	Theoretical modeling of an ion beam driven Kelvin Helmholtz instability in a plasma cylinder having Negatively charged dust grains	8th International conference on physics of Dusty Plasmas	2017	ISBN:978-80-7378-339-6		May
98.		Influence of Temperature Variations on Radio Frequency Performance of PNIN Gate All Around Tunnel-FET. pp. 1120-1124.	International Conference on 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT - 2017), Bengaluru, India, 19-20 May 2017	2017	978-1-5090-3704-9.	IEEE	May
99.	Gaur, N. and Gupta, V.	Way to entrepreneurship: Bridging the employment Gap	Integrating Higher Education and Employability	2017	ISBN: 978-81-933224-3-7	Institute of Innovation in Technology and Management, Affiliated to GGSIP University	November
100.	Ajay Kaushik, Indu S., Daya Gupta	A novel load balanced energy conservation approach in WSN using biogeography based optimization	International conference on energy efficiency and smart materials	2017			November
101.	Jeebananda Panda	A review on various applications of carbon nanotubes based electronic nose	Nanotechnology for Instrumentation and Measurement Workshop	2017	ISBN: 978-93-86724-18-2	IEEE	November

102.	Prof. S. C. Sharma	Assessment of Neural Correlates of Engagement in a Situational Awareness Task Using Simultaneous EEG-FMRI Technique	42nd ICMM World Congress on Military Medicine	2017			November
103.	Prof. S. C. Sharma	Theoretical investigation on the effect of nitrogen doping on the growth and field emission properties of the plasma-grown graphene sheet	Frontiers of Physics and Plasma Science 2016	2017	ISSN: 1742-6596		November
104.	Prof. S. C. Sharma	Theoretical study to investigate the impact of plasma parameters on the catalyst nanoparticle growth	Frontiers of Physics and Plasma Science 2016	2017	ISSN: 1742-6596		November
105.	Prof. S. C. Sharma	Terahertz Pulses in Periodic Plasma Channel via Modulated Electron Beam	Frontiers of Physics and Plasma Science 2016	2017	ISSN: 1742-6596		November
106.	Prof. S. C. Sharma	Analytical modeling to study the effect of hydrogen plasma on the growth of multi-walled carbon nanotubes	Frontiers of Physics and Plasma Science 2016	2017	ISSN: 1742-6596		November
107.	Prof. S. C. Sharma	Terahertz radiation generation by using modulated electron beam with plasma wave wiggler	Frontiers of Physics and Plasma Science 2016	2017	ISSN: 1742-6596		November
108.	Dr. Ajeet Kumar	International conference on advances in optics and photonics	International conference on advances in optics and photonics, November 23-26, 2017	2017	ISBN: 978-93-84871-109		November
109.	Dr. Ajeet Kumar	International conference on advances in optics and photonics	International conference on advances in optics and photonics, November 23-26, 2017	2017	ISBN: 978-93-84871-109		November
110.		Small Signal Modeling of In <sub>2</sub> O <sub>5</sub> Sn based Transparent Gate Recessed Channel MOSFET for Microwave/RF Applications. Pp.976-979	IEEE Asia Pacific Microwave Conference, 13 Nov - 16 Nov 2017, Kuala Lumpur, Malaysia	2017	978-1-5386-0639-1	IEEE	November

111.	Ruchika Malhotra and Megha Khanna	Analyzing Evolution Patterns of Object-Oriented Metrics: A Case Study on Android Software	International Conference on Information and Communication Technology for Competitive Strategies	2017	ISBN: 978-981-13-0586-3	Springer	October
112.	A. Kumar, A. Jaiswal	Empirical Study of Twitter and Tumblr for Sentiment Analysis using Soft Computing Techniques	International Conference on Soft Computing and Applications (ICSCA 2017)	2017	ISBN: 978-988-14047-5-6	Springer	October
113.	S. Indu, Dhruv Rathi, Sushant Jain	Underwater Fish Species Classification using Convolutional Neural Network and Deep Learning	A paper presented at ICAPR 2017 at ISI Bangalore	2017	2342-9341	NA for conferences	October
114.	S. Indu, Rajni Sethi	Local Enhancement of SLIC Segmented Underwater Images using Gray World based Algorithm	A paper presented at ICAPR 2017 at ISI Bangalore	2017	2342-9341	NA for conferences	October
115.	R. Verma, N. Pandey, R. Pandey	Electronically Tunable Fractional Order All Pass Filter	IOP Conference Series: Materials Science and Engineering	2017	1757-899X	NA for conferences	October
116.	P. Gupta, R. Pandey, N. Pandey	Voltage Mode Single CDBA Based Multifunction Filter	IOP Conference Series: Materials Science and Engineering	2017	1757-899X	NA for conferences	October
117.	G. Komanapalli, N. Pandey, R. Pandey	Single OTRA Based Low Frequency Sinusoidal Oscillator Realization	IOP Conference Series: Materials Science and Engineering	2017	1757-899X	NA for conferences	October
118.	G. Komanapalli, N. Pandey, R. Pandey	OTRA based second and third order sinusoidal oscillators and their phase noise performance	AIP Conference Proceedings	2017	1551-7616	NA for conferences	October
119.	S. Oruganti, Y. Gilhotra, N. Pandey, R. Pandey	New topologies for OTRA based programmable precision half-wave and full-wave rectifiers	proc. IEEE conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE)	2017	5090-3978	NA for conferences	October
120.	Priya Mahajan Rachana Garg	Comparison of Intelligent and Conventional MPPT Algorithms for Photo-Voltaic system under Partially Shaded Conditions	IEEE International Conference on 'Recent Developments in Control, Automation and Power Engineering RDCAPE	2017	978-1-5090-3978-4	NA	October

121.	Prof. A.K. Shrivastava	Various factors effecting stability of underground structures: State of Art.	7th Indian Rock Conference 25-27	2017	NIL		October
122.	Ruchika Malhotra and Anshu Khurana	Analysis of Evolutionary Algorithms to Improve Software Defect Prediction	International conference on Reliability, Infocom Technologies and Optimization	2017	ISBN:9781509030132	IEEE	September
123.	Prabhpahul Singh and Ruchika Malhotra	Assessment of Machine Learning Algorithms for Determining Defective Classes in an Object-Oriented Software	International conference on Reliability, Infocom Technologies and Optimization	2017	ISBN:9781509030132	IEEE	September
124.	Ruchika Malhotra, Aryan and Astha Gupta	Change Prediction Model using Evolutionary History of a Software- An Automated Tool	International Conference on Electrical, Computer and Electronics	2017	ISBN:978-1-5386-3004-4	IEEE	September
125.	Ruchika Malhotra and Shine Kamal	Tool to Handle Imbalancing Problem in Software Defect Prediction Using Oversampling Methods	”, International Conference on Advances in Computing, Communications and Informatics (ICACCI 2017)	2017	ISBN: 978-1-5090-6367-3	IEEE	September
126.	Malti Bansal, Shivam Sonkar	Text Image to Speech Conversion using Matlab and Microsoft SAPI	9th International Conference on Science, Technology and Management	2017			September
127.	Malti Bansal, Diksha Singh	LNA for Neural Applications	9th International Conference on Science, Technology and Management	2017			September
128.	Malti Bansal, Gaurav Srivastava	LNA for Biomedical Applications	9th International Conference on Science, Technology and Management	2017			September
129.	Malti Bansal, Roshan Deep Ranjan	CMOS Instrumentation Amplifier Design	9th International Conference on Science, Technology and Management	2017			September
130.	Malti Bansal, Priya Dabbas, Himanshu Kathuria	Analysis of ECG Signals using AD8232 Sensing Module	9th International Conference on Science, Technology and Management	2017			September
131.	Malti Bansal, Hartej Singh	The Genre of Applications Requiring the Use of IoT in Day-to-Day Life	9th International Conference on Science, Technology and Management	2017			September
132.	Malti Bansal, Jyoti	CMOS LNA for BLE Applications	9th International Conference on Science, Technology and Management	2017			September



133.	Malti Bansal, Bani Gandhi	Wireless Protocols for Healthcare Applications	9th International Conference on Science, Technology and Management	2017			September
134.	P. K. Verma, Priyanka Jain, S. K. Soni	Performance Analysis of Blind Eigen Value with Multiple Antenna Based Spectrum Sensing in Cognitive Radio	Advances in intelligent system and computing, springer 2017(book chapter)	2017	ISSN:2194-5357, SCOPUS		September
135.	Prof. S. C. Sharma	Controlled Growth and Field Emission Properties of Plasma Grown Graphene Sheet via Nitrogen Doping: A Theoretical Study	1st Asia Pacific Conference on Plasma Physics (AAPPS-DPP 2017)	2017			September
136.	Dr. Ajeet Kumar	Frontiers in Optics	Frontiers in Optics 2017, OSA Technical Digest (online) (Optical Society of America, 2017), paper JW3A.67. , Washington, D.C. United States, 18–21 September 2017	2017	ISBN: 978-1-943580-33-0	OSA	September
137.	Dr. Ajeet Kumar	Frontiers in Optics	Frontiers in Optics 2017, OSA Technical Digest (online) (Optical Society of America, 2017), paper JW3A.67. , Washington, D.C. United States, 18–21 September 2017	2017	ISBN: 978-1-943580-33-0	OSA	September
138.	Dr. Ajeet Kumar	Frontiers in Optics	Frontiers in Optics 2017, OSA Technical Digest (online) (Optical Society of America, 2017), paper JW3A.67. , Washington, D.C. United States, 18–21 September 2017	2017	ISBN: 978-1-943580-33-0	OSA	September
139.	Dr. Ajeet Kumar	Frontiers in Optics	Frontiers in Optics 2017, OSA Technical Digest (online) (Optical Society of America, 2017), paper JW3A.67. , Washington, D.C. United States, 18–21 September 2017	2017	ISBN: 978-1-943580-33-0	OSA	September

140.		PNIN-GAA-Tunnel FET with Palladium Catalytic Metal Gate as a Highly Sensitive Hydrogen Gas Sensor. Pp.197-200	22nd International Conference on Simulation of Semiconductor Processes and Devices (SISPAD-2017), SISPAD, September 7-9, 2017 in Kamakura, Japan.	2017	978-4-86348-610-2	IEEE	September
141.	M. Rizwan			2017	9.7815E+12	CRC Press (Taylor & Francis Group), USA	
142.	P.K. Suri			2017	ISBN:978-981-10-2175-6	Springer	
143.	Dr. M.S. Niranjana	SMART TECH		2017			
144.	Dr. J.P. Kesari	International Conference on Environment Impact on Biodiversity, Sustainability and Quality of Life,		2017			
145.	Dr. J.P. Kesari	Proceedings of International Conference on Renewable Energy and Smart Grids technology		2017	ISBN 978-93-86432-07-0		
146.	Dr. J.P. Kesari	Proceeding of Convergence of Technology and Management for Advancing India,		2017	ISBN 9789386432117		
147.	Dr. J.P. Kesari	proceeding of Convergence of Technology and Management for Advancing India		2017	ISBN 9789386432117		
148.	D. K. Vishwakarma	Hand Gesture Recognition in Low-Intensity Environment Using Depth Images		2017	ISBN: 978-1-5386-1959-9	IEEE	
149.	D. K. Vishwakarma	A hybrid approach for the recognition of Hand Postures using Texture and Skin Saliency Map		2017	ISBN: 978-1-5386-1959-9	IEEE	

150.	D. K. Vishwakarma	High dimensional Abnormal Human Activity Recognition Using Histogram Oriented Gradients and Zernike moments		2017	In Print	IEEE	
151.	D. K. Vishwakarma	A Hybrid Neuro-Wavelet Based Pre-Processing Technique for Data Representation		2017	In Print	IEEE	
152.	D. K. Vishwakarma	framework for Human-Computer Interaction using Dynamic Time Warping and Neural Network		2017	978-1-5386-4031-9	IEEE	
153.	D. K. Vishwakarma	Hand Gesture Recognition using Shape and Texture evidence in Complex Background		2017	In Print	IEEE	
154.	D. K. Vishwakarma	Fast Deformable Model for Pedestrian Detection with Haar-like Features		2017	978-1-5386-2726-6	IEEE	
155.	D. K. Vishwakarma	A unified framework for the recognition of raised a finger in a static hand posture		2017	In Print	IEEE	
156.	D. K. Vishwakarma	Abnormal Human Activity Recognition using Average Energy Images		2017	978-1-5386-1866-0	IEEE	
157.	D. K. Vishwakarma	Iris detection and recognition using 2 fold technique		2017	978-1-5090-6471-7	IEEE	
158.	Kartek Viswanadha, N.S. Raghava	Study of different high gain configurations of double split ring slotted patch antenna for GSAT applications		2017			
159.	Dr. M.S. Niranjana	(ICAPIE-2017)		2017			
160.	Dr. M.S. Niranjana	ICAPIE-2017		2017			
161.	Dr. M.S. Niranjana	ICAPIE-2017		2017			
162.	Dr. M.S. Niranjana	AMPT-2017		2017		NA	

163.	Akhilesh arora	Advances in power generation from renewable sources		2017			
164.	Navneeta Bharadvaja			2017	978-83-947078-0-4	JB books	
165.	Dr. Girish Kumar	Proceedings of IEEE 6th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions),		2017			
166.	Navneeta Bharadvaja			2017	978-938-62-8364-1	Enrich Publication Pvt Ltd	
167.	Navneeta Bharadvaja			2017	978-1-63535-013-5	Enrich Publication Pvt Ltd	
168.	Dr.Rishu Chaujar	NA	NA	2017	978-3-319-50822-1	Springer	
169.	Priya Mahajan, Rachana Garg	Techno Economic Analysis of Different Lighting Schemes: A case Study	Power Energy, Environment and Intelligent Control	2018	ISBN: 978-1-5386-2342-8	NA	April
170.	Priya Mahajan, Rachana Garg	Implementation of P&O Algorithm for MPPT in SPV System	Power Energy, Environment and Intelligent Control	2018	978-1-5386-2342-8	NA	April
171.	Dr. Ajeet Kumar	International Conference on Photonics and High Speed Optical Networks	IEEE International Conference on Photonics and High Speed Optical Networks (ICPHON-2018), Department of Electronics and Communication Engineering, S. A. Engineering College, Chennai, Tamil Nadu, India	2018	ISBN: 978-1-5386-3324-3		April
172.	Dr. Ajeet Kumar	International Conference on Photonics and High Speed Optical Networks	IEEE International Conference on Photonics and High Speed Optical Networks (ICPHON-2018), Department of Electronics and Communication Engineering, S. A. Engineering College, Chennai, Tamil Nadu, India	2018	ISBN: 978-1-5386-3324-3		April

173.	Mukhtiyar Singh	AIP Conference Proceedings	National Conference on Recent Advances in Experimental and Theoretical Physics (RAETP-2018)	2018	ISSN: 1551-7616	American Institute of Physics (AIP)	April
174.		GaAs Junctionless FinFET Using High- $\kappa$ Dielectric for High-Performance Applications	IEEE 38th International Conference on Electronics And Nanotechnology, ELNANO-2018	2018		IEEE	April
175.		Sub-20nm In <sub>2</sub> O <sub>5</sub> Sn Gate Electrode Recessed Channel MOSFET for Bio-sensing Applications	International Symposium on Functional Materials (ISFM-2018): Energy and Biomedical Applications	2018			April
176.		GaAs Junctionless FinFET Using High- $\kappa$ Dielectric for Protein Sensing Application	International Symposium on Functional Materials (ISFM-2018): Energy and Biomedical Applications	2018			April
177.	Navneeta Bharadvaja	Role of activated charcoal and elicitors on root induction of medicinally important plant: <i>Plumbago zeylanica</i> ”	Phytocon 2018, International conference on commercialization of medicinal plant product: Lab technique to trade	2018	0975-8232		August
178.	Navneeta Bharadvaja	Microalgae-bacterial aggregated (MABAs) for cost effective treatment of wastewater	34th National Convention of Environmental Engineers and Nation Seminar on Environmental Pollution and Climate Change	2018	978-81-936149-9-0.		August
179.	R. K. Yadav and M. Sharma	Hybrid GA-Means for energy efficient clustering in wireless sensors network	International Conference on Energy, Communication, Data Analytics and Soft Computing(ICECDS)	2018		IEEE	August
180.	Yashna Sharma		Opto-Electronics and Communications Conference (OECC) and Photonics Global Conference (PGC), 2017	2018		IEEE	August
181.	Prof. S. C. Sharma	Numerical Analysis of THz radiation wave using Upper Hybrid Wave Wiggler	3rd International Conference on Communication Systems	2018	ISSN: 1757-899X		December
182.	Prof. S. C. Sharma	Generation of High power sub millimeter radiation using free electron laser	3rd International Conference on Communication Systems	2018	ISSN: 1757-899X		December

183.	Navneeta Bharadvaja	Phytoremediation: A green solution for heavy metal degradation	International Conference on Advances in Biosciences and Biotechnology	2018	0975-8151		February
184.	Rohit Beniwal, Vikas Gupta, Manish Rawat, and Rishabh Aggarwal	Data Mining with Linked Data: Past, Present, and Future	In Computing Methodologies and Communication, 2018 2nd International Conference	2018	ISBN: 978-1-5386-3452-3	IEEE	February
185.	Sanjay Kumar, Stuti Pandey, Ria Gupta	Evaluation and Customization of Community Detection Algorithms in Large Social Networks	2nd International Conference on Computing Methodologies and Communication (ICCMC 2018)	2018	ISBN: 978-1-5386-3452-3	IEEE	February
186.	Sanjay Kumar	Securing Data at rest using Hill Cipher and XOR based operations	2nd International Conference on Electronics, Communication and Aerospace Technology (ICECA2018)	2018	ISBN: 978-1-5386-0965-1	IEEE	February
187.	Rohit Beniwal, Vikas Gupta, Manish Rawat, and Rishabh Aggarwal	Data Mining with Linked Data: Past, Present, and Future.	In Computing Methodologies and Communication (ICCMC), 2018 2nd International Conference on	2018	ISBN: 978-1-5386-3452-3	IEEE	February
188.	V Grover, V Gosain, N Pandey and K Gupta	Arithmetic Logic Unit Using Diode Free Adiabatic Logic and Selection Unit for Adiabatic Logic Family	Fifth International Conference on Signal Processing & Integrated Networks (SPIN)	2018			February

189.	Rohit Kumar, Priyanka Jain, Avdesh	DMTL Filter in Ku-band with improved slope of attenuation after cut-off	5TH International Conference on Signal Processing and Integrated Networks, IEEE conference SPIN2018	2018	ISBN: Awaited	IEEE	February
190.	Bharat Bhushan	Tracking Control of 4 DOF Robotic Arm Using Krill Herd Optimized Fuzzy Logic Controller	International Conference on Signals, Machines and Automation	2018	978-981-13-1821-4	NA	February
191.	Bharat Bhushan	CSTR Control using IMC- PID, PSO-PID and Hybrid BBO-FF-PID Controller	International Conference on Signals, Machines & automation	2018	978-981-13-1821-4	NA	February
192.	Mini Srejeth, Madhusudan Singh	Performance Analysis of PMSM Drive using	IEEE International Students Conference on Electrical, Electronics and Computer Science	2018		NA	February
193.	Gupta, V.	Tacit Knowledge Sharing in the Virtual World	International Conference of Advance Research and Innovations	2018		IJARI	January
194.	Indu Singh	Breast Cancer diagnosis using Genetically Selected Features and SVM Kernel	IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)	2018	ISBN978-1-5386-4304-4	IEEE	January

195.	A. Kumar, Sujal	Multiple Document Summarization & Opinion Mining using Stack Decoder Method and Neural Networks	International Conference on Data Management, Analytics & Innovations (ICDMAI'18)	2018	ISBN:978-981-13-1274-8	Springer	January
196.	Indu Singh, Shashank Garg, Nikhil Arora, Shivam Arora	Breast Cancer diagnosis using Genetically Selected Features and SVM Kernel	IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)	2018	ISBN978-1-5386-4304-4	IEEE	January
197.	Jeebananda Panda	An Image watermarking technique using power spectrum condition	1st International conference on New Frontiers in Engineering, Science and Technology	2018	ISBN: 978-93-86238-41-2	NFEST	January
198.	Gupta, V.	Applying Information and Communication Technologies, and Knowledge Management to Transform the Indian Higher Education	National Seminar on Revolutionising Education: need, challenges and strategies	2018		Mahamaya Rajkiya Mahavidhyalaya, Sherkot (Dist Bijnor) UP	July
199.	Anshul Arora	NTPDroid: A Hybrid Android Malware Detector Using Network Traffic and System Permissions	International Conference On Trust, Security And Privacy In Computing And Communications	2018	ISBN: 978-1-5386-4388-4	IEEE	July
200.	Bharat Bhushan	Adaptive Neuro Fuzzy-PID and Fuzzy-PID Based Controller design for Helicopter System	International Conference on Manufacturing, Advance Computing, Renewable Energy and Communication	2018		NA	July
201.	M. Rizwan	Hybrid Control Approach using NLMS and PLMS Algorithms for Grid Connected SPV System	Proceedings of World Congress on Engineering 2018 held at Imperial College London	2018	978-988-14047-9-4	NA	July



202.	Prof. S. C. Sharma	Assessment of Engagement and its neurovascular correlates in a Situational Awareness Task: An EEG Informed fMRI approach	Brainmodes-National Brain Research Centre	2018			July
203.	Dr. Asmita Das	IL-6 protects the cells from radiation induced cell death by switching metabolism and activating STAT-3 mediated pro-survival signaling.	International conference on Cell Death in Cancer and Toxicology	2018	ISSN:2045-7634		June
204.	Dr. Asmita Das	IL-6 protects the cells from radiation induced cell death by switching metabolism and activating STAT-3 mediated pro-survival signaling.	International conference on Cell Death in Cancer and Toxicology	2018	2045-7634		June
205.	Gupta, V.	Assessing the Scope of Mobile Learning in Corporate Sector	International Management Conclave	2018			June
206.		A moisture stable, hysteresis-free semitransparent perovskite solar cell with single wall carbon nanotubes	7th IEEE World Conference on Photovoltaic Energy Conversion (WCPEC-7),	2018		IEEE	June
207.	Ruchika Malhotra and Anjali Sharma	A systematic review of web metrics for quality prediction	International Conference on Computing for Sustainable Global Development (INDIACom)	2018	ISBN: 978-93-80544-28-1 ISSN: 0973-7529	IEEE	March
208.	Prabhpahul Singh and Ruchika Malhotra	Analyzing the Effectiveness of Machine Learning Algorithms for Determining Faulty Classes: A Comparative Analysis	International Conference on Computing for Sustainable Global Development (INDIACom)	2018	ISBN: 978-93-80544-28-1 ISSN: 0973-7529	IEEE	March
209.	A, Kumar, D. Gupta	Expert Mining in Community Question Answering	INDIACom-2018	2018	ISBN: 978-93-80544-28-1 ISSN: 0973-7529	IEEE	March
210.	A. Kumar, YK Sinha	Sentiment Analysis of Twitter post using Semantic Web Techniques	INDIACom-2018	2018	ISBN: 978-93-80544-28-1 ISSN: 0973-7529	IEEE	March

211.	Ajay Kaushik, Indu S., Daya Gupta	Energy efficient clustering in WSN using BBO	International conference on applications of computing and communication technologies	2018	ISBN: 978-981-13-20385-4	Springer	March
212.	Rahul Gupta	A Hybrid Technique for Detection of Malicious Tweets	INDIACom-2018 5th International Conference on "Computing for Sustainable Global Development	2018	ISBN: 978-93-80544-28-1 ISSN: 0973-7529	IEEE	March
213.	SUMEDHA SENIARAY	Big Data Fusion for Structured, Semi-structured and Unstructured Data	5th International Conference on "Computing for Sustainable Global Development"	2018	0973-7529	SCOPUS	March
214.	Amrish K. Panwar	Synthesis and electrochemical properties of low-temperature synthesized Li <sub>2</sub> MnO <sub>3</sub> /MWCNT/super P as a high capacity cathode material for lithium ion batteries	Advanced Materials and Nanotechnology (AMN-2018)	2018	ISBN: 978-0-7354-1725-0, ISSN · 0094-243X	American Institute of Physics	March
215.	Gupta, V.	Indian Value System on the Crossroads: Understanding the Impact of Globalization	National Seminar on Globalization and Its Impact on Indian Culture and Social Values	2018			May
216.	Prof. S. C. Sharma	Electron Acceleration by Plasma Wave in the Presence of a Transversely Propagated Laser with Magnetic Field	9th International Particle Accelerator Conference	2018	ISBN: 9783954501847		May
217.	Navneeta Bharadvaja	Impact of climate change on biodiversity	34th National Convention of Environmental Engineers and Nation Seminar on Environmental Pollution and Climate Change	2018	978-81-936149-9-0.		November
218.	R. Goel, P. Gupta and R. K. Yadav	Improved K-harmonic means in wireless sensor networks	IEEE 15th Student Conference on Research and Development (SCoReD), Putrajaya, Malaysia	2018	ISBN: 978-1-5386-2126-4	IEEE	November
219.	Dhirendra Kumar	Hurst Exponent as a New Ingredient to Parametric Feature Set for Mental Task Classification	FICTA 2017	2018	978-981-10-7563-6	Springer	November

220.		Electrical Characteristics Assessment of Gate Metal and Source Pocket Engineered DG-TFET for low Power Analog Applications	IEEE Electron Device Kolkata Conference,	2018		IEEE	November
221.		Capacitive Analysis of Hetero Material Gate PNIN-DG-TFET over Diverge Temperature Range for Superior RF/Microwave Performance	IEEE Electron Device Kolkata Conference,	2018		IEEE	November
222.		Numerical Simulation of CeOx ETL based Perovskite Solar Cell: - An optimization study for high efficiency and stability	IEEE Electron Device Kolkata Conference,	2018		IEEE	November
223.		Parametric Variation of ZnSe/TiO2 Electron Transport Layer Based Perovskite Solar Cell: A Simulation Study and Optimization	IEEE Electron Device Kolkata Conference,	2018		IEEE	November
224.	Gaur, Nishant and Gupta, V.	An Exploratory Factor Analysis for Developing a Scale of Ethics: A Knowledge Management perspective	Managing Digital Revolution: Inventing Future India	2018			October
225.	Sharma, Shikha and Gupta, V.	Readiness of Indian IT Industry for the adoption of Human Resource Analytics (HRA)	Managing Digital Revolution: Inventing Future India	2018			October
226.	Singh, M. K. and Gupta, V.	Knowledge Management in a Military Organisation	Managing Digital Revolution: Inventing Future India	2018			October
227.	Dhirendra Kumar	Distinguishing Two Different Mental States of Human Thought Using Soft Computing Approaches	MISP 2018	2018	978-981-13-0923-6	Springer	October

228.	M. Rizwan	Microcontroller based Load Prioritization Technique in Residential Sector	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-5386-6626-5	NA	October
229.		Intelligent Approach for Load Balancing on an 11 kV Feeder	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-5386-6626-5	NA	October
230.	M. Rizwan	Development of Empirical Models for Forecasting Global Solar Energy	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-5386-6626-5	NA	October
231.	M. Rizwan	Analysis of Different MPPT Techniques under Partial and Unshaded Condition for Solar PV System	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-5386-6626-5	NA	October
232.	M. Rizwan	Design and Analysis of Renewable Energy based Hybrid Model for Remote Applications	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-5386-6626-5	NA	October
233.	M. Rizwan	Fuzzy Logic Models for Predicting Global Solar Energy and Its Solar Thermal Applications	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-5386-6626-5	NA	October
234.	M. Rizwan, uma nanga	Artificial Neural Network based Model for Short Term Solar Radiation Forecasting considering Aerosol Index	International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	2018	978-1-5386-6626-5	NA	October
235.	S. Indu, Ajay Kaushik, Daya Gupta	Nature inspired algorithms in WSN	Nature inspired algorithms in Big data frameworks	2018	1522558527	NA for conferences	September
236.	Dr. M.S. Niranjan	SWAYAM		2018			
237.	Dr. Asmita Das	Advances in Cancer Immunity, A Formidable Army		2018	978-81-935757-0-3. Chapter1 (pp1-13)		
238.	Rajesh kumar	V National Conference on Refrigeration and Air Conditioning National Institute of Technology Karnataka Surathkal, 10th -12th May 2018		2018			

239.	Rajesh kumar	V National Conference on Refrigeration and Air Conditioning National Institute of Technology Karnataka Surathkal, 10th -12th May 2018		2018			
240.	Rajesh kumar	1st International Conference on New Frontiers in Engineering, Science & Technology (NFEST-2018)		2018	978-93-86238-41-2		
241.	Rajesh kumar	1st International Conference on New Frontiers in Engineering, Science & Technology (NFEST-2018)		2018	978-93-86238-41-2		
242.	Navneeta Bharadvaja		International	2018	978-981-10-8064-7	Springer	
243.	PARAS kumar	3rd International conference on advanced production and industrial engineering, DTU Delhi (ICAPIE- 2018)	International	2018			
244.	PARAS kumar	4th International Conference on Reuse and Recycling of Materials		2018			
245.	PARAS kumar	3rd International Multi - Conference on Academic Research in Engineering, Management and Information Technology		2018			
246.	PARAS kumar	20th International Conference on Advances in Materials and Processing Technologies		2018			
247.	P.K. Suri			2018	ISBN:978-981-10-8928-2	Springer	
248.	Gupta, V. and Sharma, V.	Impact of Facebook Advertising in Consumer's Purchase Decision	National	2018	ISBN: 978-93-84562-12-0	Apeejay Business School	

249.	Gupta, V.	Digital India Programme: Vision of transforming India into a digitally empowered society and knowledge economy (Chapter)		2018	ISBN: 978-93-84207-94-6	Dominant Publishers & Distributors	
250.	Gupta, V.	Business Law (Book)		2018	ISBN: 9789327289442	Kalyani Publishers	
251.	Sonika Dahiya	WAPIS: WhatsApp Pattern Identification Algorithm Indicating Social Connection.	Advances in Intelligent Systems and Computing	2018	ISSN: 2194-5357	Springer	
252.	Roop Lal	International Conference on Advanced Production and Industrial Engineering (ICAPIE – 2018)		2018	paper ID: ICAPIE – 2018 – IDA 517		
253.	Roop lal	International Conference on Advanced Production and Industrial Engineering (ICAPIE – 2018)		2018	paper ID: ICAPIE – 2018 – PE MT 258		
254.	S. Indu, Nikhil. R. Mittal, Santanu Chudhury and Asok Bhattacharyya	Camera Placement for surveillance Applications	Book chapter published in the book "Video Surveillance"	2018	ISBN 978-953-307-436-8	NA for conferences	
255.	Karteek Viswanadha and N.S. Raghava	Design of a narrow band pass asymmetric microstrip coupled line filter with distributed amplifiers at 5.5GHz for WLAN applications		2018			
256.	Ghazi, Mohd Rehan, and N. S. Raghava	MapReduce Based Analysis of Sample Applications Using Hadoop.		2018			
257.	P Dalmia, A Parashar, A Tomar, N Pandey	Novel High Speed Vedic Multiplier Proposal Incorporating Adder Based on Quaternary Signed Digit Number System		2018			
258.	S Jain, N Pandey and K Gupta	Complete Charge Recovery Diode Free Adiabatic Logic		2018			

259.	S Singh, Jatin, N Pandey and R Pandey	Precision Capacitance Multiplier with Low Power and High Multiplication Factor		2018			
260.	D Nand, N Pandey, R Pandey and Sunchit Jindal	OFCC based Digitally Controlled Hearing Aid		2018			
261.	V Grover, V Gosain, N Pandey and K Gupta	Arithmetic Logic Unit Using Diode Free Adiabatic Logic and Selection Unit for Adiabatic Logic Family		2018			
262.	Dr. M.S. Niranjana	SWAYAM		2018			
263.	Poornima Mittal			2018	Awaited	IEEE	
264.	Poornima Mittal			2018	Awaited	IEEE	
265.	Dr. Mukhtiyar Singh	AIP Conference Proceedings	10th NATIONAL CONFERENCE ON SOLID STATE CHEMISTRY AND ALLIED AREAS (ISCAS - 2017)	2018	ISSN: 2214-7853	American Institute of Physics (AIP)	
266.	Dr. M. Jayasimhadri	Tb3+ and Eu3+ doped zinc phosphate glasses for solid state lighting applications	DAE Solid State Symposium-2017	2018	978-0-7354-1634-5 (ISBN)	American Institute of Physics	
267.	Dr. Archana Singh & Renu arora	“Neural network approach to Credit Risk management in Indian Banking Sector”	National Conference on Emerging Issues in Indian Financial Markets,	Feb-13	ISBN 978-93-82951-21-6		February
268.	Dr. Archana Singh & Preeti Gupta	“Micro-Finance: An Innovative Financial Tool for Poverty Alleviation”	Inter national Conference on INDIA 2020	Apr-14	compiled by the college.		April
269.	Dr. Archana Singh & Varuna	“Risk Management in Commodities Derivatives Market - India”	National Conference on Financial Markets and Economic Development	Apr-15	ISBN-978-93-84898-94-6		April
270.	Dr. Archana Singh & Shruti	Pradhan Mantri Jan Dhan Yojana adding a new dimension towards the financial Inclusion in India”	National Conference on Financial Markets and Economic Development	Apr-15	ISBN-978-93-84898-94-6		April
271.	Dr. Archana Singh & N.P. Singh	“Market Efficiency and Inflationary Impact of Agricultural Futures Trading in India”	5th International Conference on Advanced Data Analysis, Business Analytics and Intelligence	Apr-17	NA		April

272.	Dr. Archana Singh & Varuna	"Measuring Effectiveness of Hedging in the Indian Currency Futures Market"	ICFMCF,	Jul-17	published by IIT kharagpur		July
273.	Dr. Archana Singh & Shikha Gupta	"Impact of Global financial crisis on the Exports of Indian Economy: A gravity Model Approach",	ICFMCF,	Jul-17	published by IIT kharagpur		July
274.	Dr. Vinod Singh				ISBN -978-81-930772-0-7.	Mewar University Press	
275.	Dr. M.S. Mehata	Wavefunction engineering for the dual absorption of CdSe/CdS multi-shell quantum dots	26th DAE-BRNS National Laser Symposium (NLS-26)				December
276.	Pragati Kumar			2017	978-1536109696	Nova Science ScienceNew York	
277.	Prof. Vikas Rastogi	Edited Book	International	ISBN978	DTU		
278.	PARAS kumar	International Conference on Advances in Science & Technology					
279.	Paras kumar	International Conference of Emerging Trends in Science and Technology					
280.	Paras kumar	International Conference of Advance Research and Innovation					
281.	Paras kumar	International Conference of Advance Research and Innovation					
282.	Pragati and Priyanka Jain	Odd prime length Discrete Sine Transform computation using cyclic convolution	International Conference on New Frontiers in Engineering, Science & Technology		ISBN: Awaited		
283.	Vivek Kumar	Analysis of an eco-epidemiological model with migrating and refuging prey	Mathematical Analysis and its Applications		978-81-322-2484-6	Springer	



**Patents:**

S.No.	Patent Number	Title of the Patenter	Year of Award of Patent	Link to the patent
1	2791/DEL/2008	Synergistic antifungal composition of dehydrated dialdol product and natural product	2017	<a href="http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=BVSkkKO02MQ+5Fc/VFGYSA==">http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=BVSkkKO02MQ+5Fc/VFGYSA==</a>
2	719/DEL/2009	Novel synergistic combination of ferula asafoetida with dehydrated dialdol product as potent antifungal agent	2017	<a href="http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=EVil+IAz54owzE1rgbZpzg==">http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=EVil+IAz54owzE1rgbZpzg==</a>
3	2018 11006708 A	Multi & wide band millimeter wave pifa antenna using multiple slot for 5 g applications	2018	<a href="http://www.ipindiaservices.gov.in/PublicSearch/PublicationSearch">http://www.ipindiaservices.gov.in/PublicSearch/PublicationSearch</a>
4	2017 11011922	Silk fibroin flexible films prepared by hydrogel particles and process thereof	2018	<a href="http://www.ipindiaservices.gov.in/PublicSearch/PublicationSearch">http://www.ipindiaservices.gov.in/PublicSearch/PublicationSearch</a>
5	1234/DEL/2013	Slotted holes mesh filtered steel pile	2018	<a href="http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=og52zZWsgIppDi1lzFWZWg==">http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=og52zZWsgIppDi1lzFWZWg==</a>
6	2100/DEL/2014	A novel architecture of multiwavelet based ecg detector	2018	<a href="http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=1DfC4tXNoXxR2rAPKQ3bsw==">http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=1DfC4tXNoXxR2rAPKQ3bsw==</a>
7	2098/DEL/2014	Plus (+) glucometer	2018	<a href="http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=OZVjViRPce6zJ3oVYU3ltQ==">http://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus?AppNumber=OZVjViRPce6zJ3oVYU3ltQ==</a>

## Book Chapters

1. Ram Singh, Geetanjali and Deepak Mishra; Chapter 3: The Effects of Alcoholism on the Brain; Alcoholism: Causes, Symptoms Effects and Treatment edited by B.S. Chhikara, V.K. Shanwal; ISBN: 9789386677488; Manakin Press, India, 2018 pp 35-52.
2. Lakshna Mahajan and Ram Singh; Chapter 4: Nutritional Deficiencies and Diseases associated with alcoholism; Alcoholism: Causes, Symptoms Effects and Treatment edited by B.S. Chhikara, V.K. Shanwal; ISBN: 9789386677488; Manakin Press, India, 2018 pp 53-67.
3. Ram Singh and Geetanjali; Chapter 6: Chemotaxonomy of medicinal plants: Possibilities and limitations; Natural Products and Drug Discovery - An Integrated Approach edited by SC Mandal, V Mandal & T Konishi; ISBN: 978-0-08-102081-4; Elsevier; 2018 pp 119-136.
4. Ram Singh, Deepshikha Rathore, Geetanjali and Richa Srivastava; Chapter 4: Carbon based polymers for drug delivery; Applications of Nanocomposite Materials in Drug Delivery edited by I. Abdullah, M. Asiri and A. Mohammad; ISBN: 9780128137413; Elsevier, 2018.
5. Ram Singh, and Geetanjali; Chapter 19: Metal organic frameworks for drug delivery; Applications of Nanocomposite Materials in Drug Delivery edited by I. Abdullah, M. Asiri and A. Mohammad; ISBN: 9780128137413; Elsevier, 2018.
6. Contributed a Chapter titled "Effect of Nanocsalet Structure on Reliability of Nano Devices, Sensors and MEMS", pp.239-270 in a Book titled "Outlook and Challenges of Nano Devices, Sensors and MEMS" by Ting Li and Ziv Liu published by Springer, 2017 (Other Co-Author-Jaya Madan)
7. Dr. Ajeet Kumar was the Co-editor of Proceedings of 10th National Conference on Solid State Chemistry and Allied Areas (ISBN: 938575830-6)
8. Suri, P.K. (2018) Towards an Effective Agricultural e-Trading System in India in Connell, J., Agarwal, R., Sushil, Dhir, S. (Eds.): Global Value Chains, Flexibility and Sustainability, Springer.
9. Gupta, V. (2018) Business Law, Kalyani Publishers, ISBN: 9789327289442
10. R. Senani, D. R. Bhaskar, S. S. Gupta, P. Kumar and R. K. Sharma, 'On the Synthesis of Sinusoidal Oscillators using Nullors', Nova Science Publishers, Inc. (USA), 2017
11. S. Indu, N. Jayanthi and Santanu Chaudhury, "Processing of Historic Inscription Images" book chapter published in the book Digital Hampi: Preserving Indian cultural Heritage IDH by Springer publishers.
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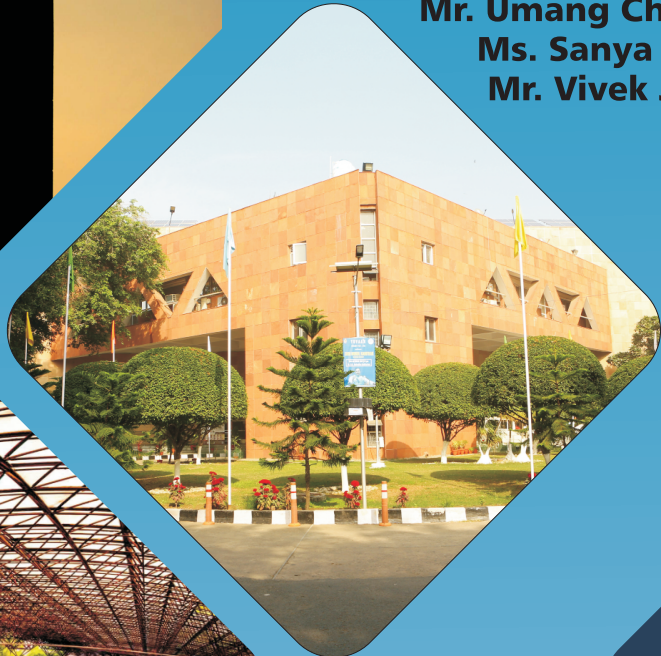
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