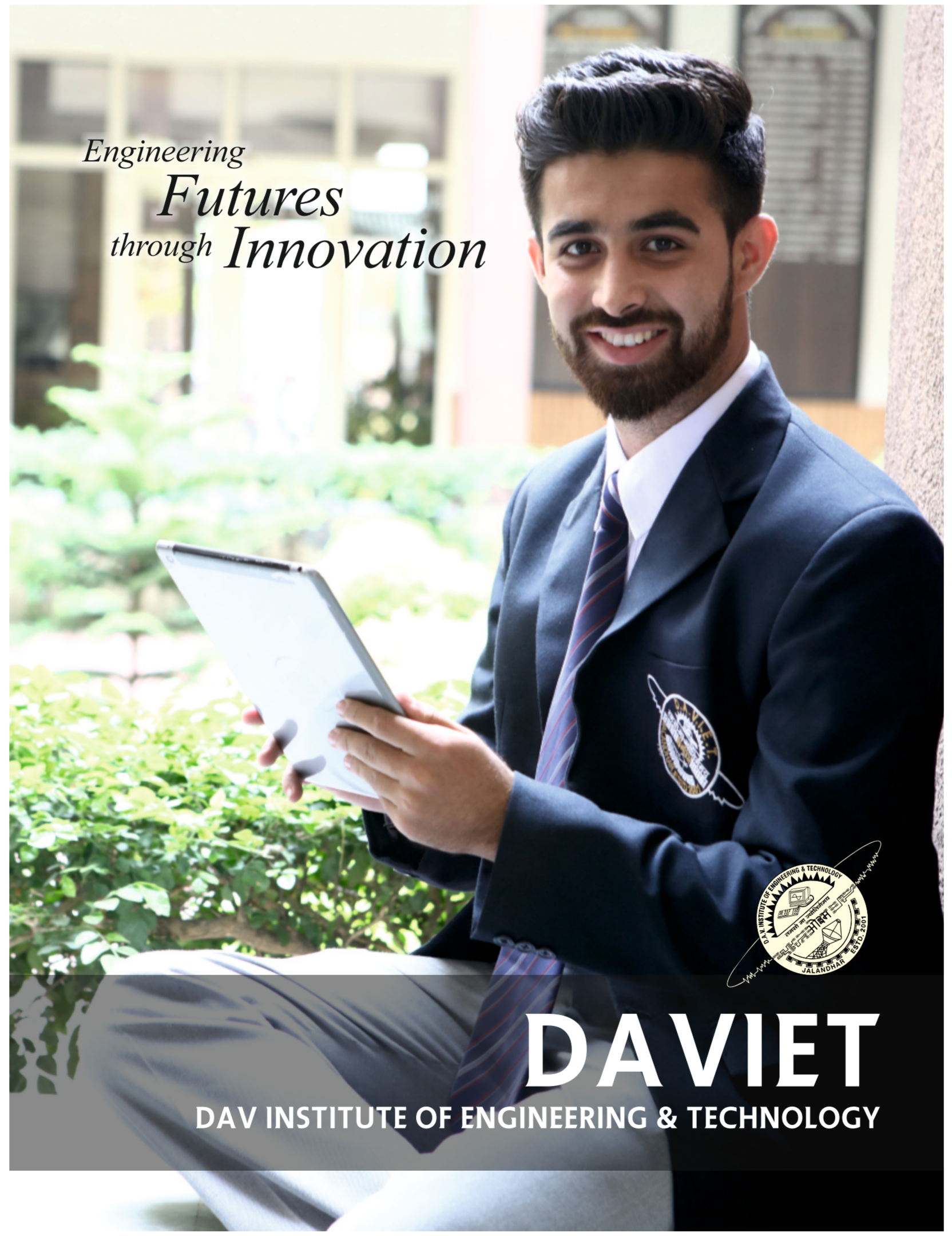


*Engineering  
Futures  
through Innovation*



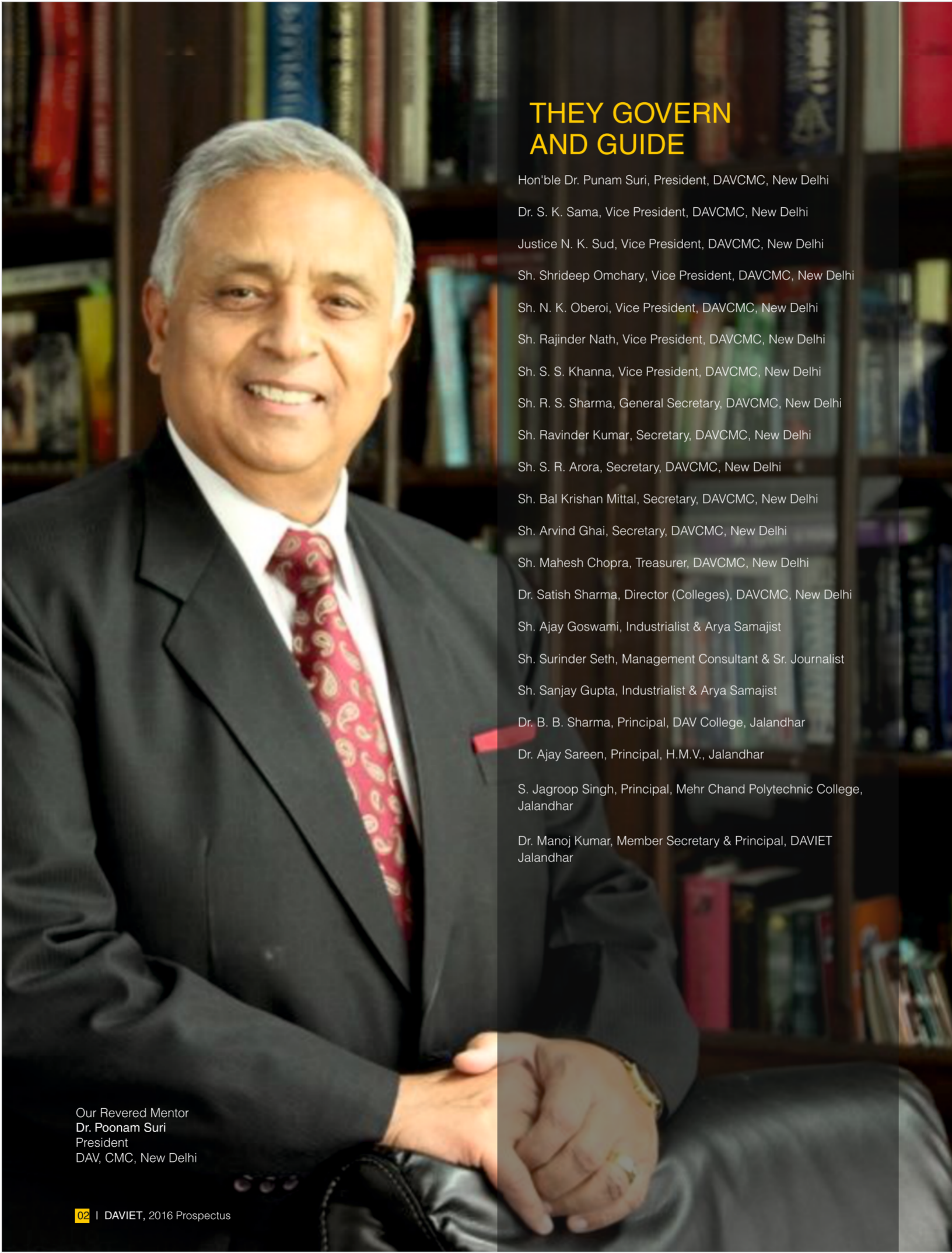
**DAVIET**

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY



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## THEY GOVERN AND GUIDE

- Hon'ble Dr. Poonam Suri, President, DAVCMC, New Delhi
- Dr. S. K. Sama, Vice President, DAVCMC, New Delhi
- Justice N. K. Sud, Vice President, DAVCMC, New Delhi
- Sh. Shrideep Omchary, Vice President, DAVCMC, New Delhi
- Sh. N. K. Oberoi, Vice President, DAVCMC, New Delhi
- Sh. Rajinder Nath, Vice President, DAVCMC, New Delhi
- Sh. S. S. Khanna, Vice President, DAVCMC, New Delhi
- Sh. R. S. Sharma, General Secretary, DAVCMC, New Delhi
- Sh. Ravinder Kumar, Secretary, DAVCMC, New Delhi
- Sh. S. R. Arora, Secretary, DAVCMC, New Delhi
- Sh. Bal Krishan Mittal, Secretary, DAVCMC, New Delhi
- Sh. Arvind Ghai, Secretary, DAVCMC, New Delhi
- Sh. Mahesh Chopra, Treasurer, DAVCMC, New Delhi
- Dr. Satish Sharma, Director (Colleges), DAVCMC, New Delhi
- Sh. Ajay Goswami, Industrialist & Arya Samajist
- Sh. Surinder Seth, Management Consultant & Sr. Journalist
- Sh. Sanjay Gupta, Industrialist & Arya Samajist
- Dr. B. B. Sharma, Principal, DAV College, Jalandhar
- Dr. Ajay Sareen, Principal, H.M.V., Jalandhar
- S. Jagroop Singh, Principal, Mehr Chand Polytechnic College, Jalandhar
- Dr. Manoj Kumar, Member Secretary & Principal, DAVIET Jalandhar

Our Revered Mentor  
Dr. Poonam Suri  
President  
DAV, CMC, New Delhi

## FROM THE DESK OF PRINCIPAL

I am enthralled to welcome you at DAV Institute of Engineering & Technology, Jalandhar. DAVIET traces its roots to the legacy that has been reforming and rejuvenating India's educational scenario for 130 years. Now, the DAV movement has grown to become the single largest non-governmental educational society in the country managing 800 institutions and shaping the careers of youth in India. It employs over 60,000 people and educates more than 20 lakh students every year.

I shower my affectionate greetings to the new entrants to this Prestigious Institution of Northern India. I am confident that we shall unleash a world of opportunities before you with intent to nurture your blooming careers by way of high class education imbued with industry induced research innovations.

Being a Microsoft Certified Campus, DAVIET is a uniquely conceived educational platform and is committed to the aim of innovative professional education equalling international standards in the field of engineering & technology, management and computer applications.

Our USP's include Employment Skills Training, Innovative Research Projects, Student-centric Learning Environment, ICT, Vibrant focus on Entrepreneurship, Greater Industry-Academia Linkage etc. Further in order to internationalize the learning paradigm, we have key academic MOUs with University of Ontario Canada, IIT Ropar, NIT Delhi, NIT Jalandhar and NIT Hamirpur etc. coupled up with industrial tie-ups with Microsoft, Texas Instruments, CISCO, Reliance Jio etc.

Our core philosophy privileges a desire for imparting education beyond the syllabus to equip our stakeholders with the 'latest' in their respective fields of specialization. The quality policy of the Institute is designed on the axis of excellence and holistic growth by imparting value-based professional education with strong emphasis on moral and ethical values to the budding intellect. I extend a heartiest welcome to you and hope that this association shall be perpetually enriching and mutually rewarding!

With us, you are sure to engineer your future through innovation and thus add wings to your fertile imagination.

Professor (Dr.) Manoj Kumar  
Principal

## GENESIS

### VISION

To attain the coveted status of a growth oriented resource of National Importance known for quality professional education, research and innovation.

### MISSION

To provide professional education with a difference confirming a confluence of inter-/multi-disciplinary knowledge domains; targeting excellence in collaboration with Industry; promoting creative competence and innovation aimed at producing skilled human resource and entrepreneurs; sustaining Indian ethics & moral values.

### CORE VALUES

Competence	Integrity
Creativity	Innovation
Trust	Excellence
Community	

### ABOUT DAVIET

DAV Institute of Engineering and Technology was established in 2001 under the aegis of DAV College Trust & Management Society, New Delhi. DAV College Managing Committee is the Executive body of the said Trust and as a cultural and administrative monolith happens to be the biggest stake-holder in academic management in India. Over the years, this nodal organization has played a stellar role in rejuvenating the Indian society intellectually, emotionally and spiritually. DAVCMC is the largest non-governmental educational organization in India and is managing a chain of more

than 800 institutions in India and abroad. The Management is about 130 years old & its educational budget is next to the central government of India and more than that of any state government. DAVCMC has established a number of Medical Colleges, Polytechnics, Industrial Training Centers, Arts & Science Colleges. All these institutions are known for the highest level of dedication, sincerity, commitment and discipline. DAV institutes have established a reputation for academic excellence and character building. Every year thousands of students pass out of these institutions and distinguish themselves at various national and international platforms. Consequently, the society has, as its alumni, distinguished jurists, diplomats, doctors, engineers, scientists, educationists, literary figures and sportsmen. DAVIET is the first Engineering Institute of DAV College Trust and Management Society and is an ISO 9001-2008 certified institute.

At DAVIET, we provide our students with

the best professional education. We believe in creating professionals equipped with right skills and attitude by endowing them with high moral values, sound intellectual powers, refined analytical and decision-making skills. Hence, the objective behind the establishment of this institute was not merely the dissemination of knowledge but to provide the necessary skills and mental attitudes to face the vagaries of life. Thus, there is a sustained endeavor to provide quality education with a difference.

### LOCATION

The institute is located in the heart of Jalandhar city on a prime piece of land on the left side of Jalandhar-Amritsar National Highway. DAVIET spreads over an area measuring 11.6 acres possessing extremely beautiful landscape with a running canal on its back and historical Burlington Park on its front. The institute is well connected with rail/road within a distance of 3 Kms.



## PROGRAMMES OFFERED

### B. TECH. PROGRAMMES (Direct/Lateral Entry)

Course	Annual Intake (Direct)	Annual Intake (Lateral Entry)*
B.Tech. in Electronics & Communication Engg.	120	24
B.Tech. in Computer Science & Engg.	60	12
B.Tech. in Electrical Engg.	60	12
B.Tech. in Information Technology	60	12
B. Tech. in Mechanical Engg.	60	12
B.Tech. in Civil Engg.	60	12

\*The vacant seats of B.Tech. 1st year of session 2016-17 shall also be filled through lateral entry.

### MASTERS PROGRAMMES

#### Engineering

The rapid pace of change and advancement taking place in the fields of engineering and technology poses a great challenge to train and supply the right kind of professional manpower. DAVIET is a regional centre of PTU for part time M. Tech. Programmes. M.Tech. programmes have been designed to develop a deep understanding of the fundamental principles and advanced knowledge in a chosen area (along with related areas) through courses, self study and research.

The programmes strive to develop competence of independent research and ability to offer total solutions to real life engineering problems. Regular and Part time M.Tech. programmes are offered in the disciplines of :-

M. Tech. (Regular)	Annual Intake
Nano Science & Technology	18
Computer Science & Engineering	18
Electrical Engineering	18
Civil Engineering	18
M. Tech. (Part Time)	Annual Intake
Regional Centre PTU	
Electronics & Communication Engg.	25
Computer Science & Engineering	25
Electrical Engineering	25
Mechanical Engineering	25

### Business Management (MBA)

We, at DAVIET, believe that today's business leaders need to possess an excellent package of specialized skills, positive attitude, analytical orientation to be able to handle complex business situations. Education and training programs have been fastened around this philosophy in the Department of Business Management. We offer:

Course	Annual Intake
MBA	60

(Finance, Marketing, HR, IT)

### Computer Applications (MCA)- Direct/Lateral Entry

MCA Programme is specifically designed to cater to the ever changing needs of information technology world. This programme equips the students with specialized skills and knowledge which enable them to meet the challenges of competitive IT sector. A special emphasis is laid on aptitude development which gives them edge over others.

Course	Annual Intake (Direct)	Annual Intake (Lateral Entry)
Masters of Computer Applications	60	12

# The vacant seats of MCA 1st year of session 2016-17 shall also be filled through lateral entry.



## ADMISSION PROCEDURE

### ELIGIBILITY CRITERIA

#### B. Tech.

Pass in 10+2 from a recognized board with Physics and Mathematics as compulsory subjects along with one of the following subjects: Chemistry, Bio Technology, Computer Science and Biology.

OR

Diploma in any engineering trade from Punjab State Board of Technical Education and Industrial Training, Chd or SLIET Longowal or any such exam from any other State Board of Technical Education.

OR

Two year certificate course from SLIET Longowal.

\* Admission will be made on the basis of rank of JEE (Main). 85% seats shall be open for the candidates within the state and 15% will be open for the candidates from outside the state.

#### B. Tech. (Lateral Entry)

Diploma examination from an AICTE approved Institution with at least 45% marks (40% in case of reserved category) in appropriate branch of engineering/technology.

OR

B.Sc. degree from a recognized university as defined by UGC, with at least 45% marks (40% in case of reserved category) and passed 10+2 with mathematics as a subject.

\* Admission will be made on the basis of inter-se-merit in the qualifying examination. The resultant vacant seats of first year of B. Tech. of session 2016-17 shall also be filled on the basis of inter-se-merit.



#### M. Tech.

BE/B.Tech. with at least 50% marks in aggregate (45% in case of reserved category) with a Valid GATE score.

\* Admission to M. Tech. course both for 85% category and 15% category shall be made strictly on the basis of valid GATE score for 2016-17 and in case seats haven't been filled under respective categories admission shall be considered on the basis of inter-se-merit in the qualifying examination.

#### MBA

Bachelor's degree of minimum three years duration in any discipline from university recognized by UGC.

\* Admission to MBA course both for 85% category and 15% category shall be made strictly on the basis of CMAT conducted by AICTE, New Delhi .

#### MCA

Bachelor's degree of minimum three years duration from a university recognized by UGC.

\* Admission to MCA course both for 85% category and 15% category shall be made strictly on the basis of inter-se-merit in the qualifying examination.

#### MCA (Lateral Entry)

Bachelor's degree of minimum three years duration in BCA, B.Sc. (IT/Computer Science) with mathematics as a course at 10+2 level or at graduate level with at least 50% marks (45% in case of reserved category) in the qualifying examination.

\* Admission to MCA 2nd year direct shall be made strictly on the basis of inter-se-merit in the qualifying examination.



## ADMISSION PROCEDURE

### MANAGEMENT QUOTA SEATS

\* The Government of Punjab has approved 33-1/3 percent (one third) of total seats as management quota vide Notification No. 13/129/2003-1TE2/1247 dated 25.04.2008. But in order to prefer meritorious candidates in B.Tech. DAVIET has retained only 15% Management seats and rest 18-1/3% of the seats under Management Quota have been surrendered to PTU. The 18-1/3% seats shall be filled through online Centralized counseling conducted by PTU, Jalandhar.

\* DAVIET shall fill-up these seats in accordance with the following order of preference as per PTU norms:

1. Merit in JEE (Main)-2016
2. Marks secured in the qualifying examination.

\* The fee of "Management Quota" seats is same as prescribed by PTU. The admission under Management Quota is made after the completion of centralized counseling conducted by Punjab Technical University, Jalandhar.

### ADMISSION UNDER NRI QUOTA

\* Admission of NRI/PIO/Foreign National candidates will be based on merit in 10+2 (Non-Medical) or equivalent examination. They shall not be required to take the Entrance Test.

\* First preference shall be given to those NRI/PIO candidates who are having ancestral Punjab Resident Background.

\* Second preference shall be given to those NRI/PIO candidates who are having ancestral background relating to other States of India.

\* Third preference shall be given to those resident Indian Candidates who are sponsored by an NRI/PIO and the sponsorship letter is attached with their application.



\* Fourth preference shall be given to those resident Indian Candidates who are ready to pay fees in Indian Currency.  
Note: 5% of total sanctioned seats out of Management Quota Seats shall be filled under this category. The seats remaining vacant will revert back to the Management Quota.

**IMPORTANT NOTE**  
Aspiring candidates are advised to visit the official website of Punjab Technical University at [www.ptu.ac.in](http://www.ptu.ac.in) and refer to

Punjab Government notification nos. 13/105/10-1TE2/700595/1-6, 8/40/2013-1TE2/742157/1, 13/105/2010-1TE2/722080/1, 8/40/2013-1TE2/742228/1, 8/40/2013-1TE2/742266/1 & 13/7/2014-1TE2/742373/1 dated 01.03.2016 & 28.04.2016 for detailed information regarding eligibility criteria, admission procedure, exemptions, reservations and other conditions/provisions as laid down by Govt. of Punjab and Punjab Technical University.

# 10 REASONS WHY YOU SHOULD JOIN US...

## → Dav Legacy

We are committed to the cause of Quality Education since 1886 having pan India presence with 800+ Institutions.

## → Outcome Based Education

Special emphasis on Outcome Based Education and Experiential Learning.

## → Top Ranked Engineering College

- Awarded the Best Engineering College Status by PTU out of its 108 Engineering Colleges.
- 10th Outstanding Engineering College of Excellence in India as CSR-GHRDC Survey 2016.
- Winner of Coveted IMC-RBNQ Award of Excellence
- ISO 9001-2008 Certified Institute

## → Education Coupled with Employment Skills Training

With a motive to groom our students as technocrats with a difference, we impart Employment Skills Training manifesting a unique model of analytical skills, problem solving skills, soft and hard skills vis-à-vis the praxis of Outcome Based Education.

## → Innovation & Research

MOUs with top-notch institutions viz. University of Ontario Canada, IIT Ropar, NIT-Jalandhar, Delhi and Hamirpur to harness the innovation & research ethos amongst our stakeholders by executing regular faculty/students exchange programs.

## → Greater Academia-Industry Interface

Established Centres of Excellence/ Industrial tie-ups viz. Microsoft Certified Campus, Texas Instruments Lab, CISCO Networking Academy, Reliance Jio, Edgate Technologies and Sedulity Solutions.

## → ICT Enabled Infrastructure

World-class ICT empowered infrastructure & Wi-fi Campus.

## → Centre For Incubation & Entrepreneurship

The centre aims to nurture the innovative entrepreneurial ideas of the budding technocrats to set up their ventures and thus enable them to be the job creators rather than job seekers.

## → Well-qualified, Synergized & Research-oriented Faculty

We have the best of faculty to lighten the path of the budding intelligentsia ensuring a confluence of knowledge, skills and dynamic behavioral quotient in our stakeholders. 70+ Faculty with Ph.D./Ph.D. pursuing status.

## → DAVIET - A Cynosure For Recruiters

Excellent Placement Track Record with 277 students passing out this year are already placed in top companies with the highest pay package of Rs. 20.5 lacs per annum.

# UNIQUE SELLING POINTS

- DAV - Educating India since 1886
- Education coupled with Employment Skills Training
- Innovative Research Projects by Students
- ICT enabled Infrastructure with Wi-Fi Campus
- Greater Academic-Industry Integration
- Centre for Incubation & Entrepreneurship
- Conduct of Industry Week Every Semester
- Rejuvenating the learning paradigm by introducing Virtual Labs in collaboration with IIT, Delhi

## → VALUE ADDITION PROGRAMS

Keeping in view, the present technology trends and industry demand, institute offers various Value Addition Programs for students of all streams to enhance the market value of our ultimate product that is our students. At present the institute is running value addition programs in:-

- Electrical CADD
- Core Java
- CAD/CAM using Autocad & Solid Works
- STAAD PRO
- CNC Programming
- Oracle Certification Program (OCP)
- Embedded System Design
- Crisis & Disaster Management
- VLSI Design using Verilog

## → CENTRES OF EXCELLENCE/MOUs/INDUSTRY TIE-ups

- MoUs with Academic Institutions
- University of Ontario, Institute of Technology, Canada
  - Indian Institute of Technology, Ropar
  - National Institute of Technology, Delhi
  - National Institute of Technology, Hamirpur
  - National Institute of Technology, Jalandha

## → CENTRE OF EXCELLENCE/INDUSTRIAL TIE-ups

- Microsoft Certified Campus
- Texas Instruments Innovation Lab
- CISCO Networking Academy
- Reliance Jio Infocomm Ltd., Mumbai
- EdGate Technologies Pvt. Ltd., Bangalore
- Sedulity Solutions & Technology, Delhi



## DAVIET EDGE

### ACADEMIC EXCELLENCE

- \* System of continuous evaluation through tests, tutorials, seminars, quizzes and viva.
- \* Centralized system for mid semester tests with question papers set as per Punjab Technical University norms in standard format.
- \* Display of attendance at the end of each month and the marks obtained in each term tests on notice boards to ensure complete transparency in academic system.
- \* Sending of attendance-cum-performance report to the parents for their information and to seek their support for improving the performance especially in the cases of academically poor students. (However, in case the parents do not receive this report due to any reason, it will be their responsibility to collect the same from the institute).
- \* Periodic counselling of academically weak students to identify the weaknesses and suggesting remedial measures for their improvement.
- \* Conduct of an academic audit in each

semester to find out the strengths and shortcomings of each department. All efforts are then made to eliminate the traced shortcomings.

- \* Periodic monitoring and development of the course contents by maintaining separate course file and lab manuals as per ISO guidelines for each course taught by teachers.
- \* Student feedback analysis at the end of each session to identify the strengths and weaknesses of the faculty for further improvement.

### THE DAVIET ADVANTAGE

- \* DAVIETians' International Recognition  
Faculty & Students of the Institute visited countries like USA, Canada, England, Germany, Singapore, Italy, China etc. to present their research findings in various International Conferences.
- \* Academic Triumph  
More than 50 DAVIETians cleared GATE Exam in 2015- the ultimate test of an Engineering Graduate for higher education.

### \* Academic Excellence

The Institute has been conferred upon the award of the Best Engineering College of Punjab Technical University (for the year 2013) out of its 108 Engineering Colleges.

- \* Fully Computerized & Digitalized Library  
The central library is fully computerized with commendable repository of knowledge having access to IEEE, Science Direct & EBSCO online journals embellished with Escalator facility.
- \* Skill Oriented, Moral & Value Based Education

Tailor made modules on personality development, soft skills, corporate ethics and core technical studies in consonance with value based education.

- \* Scholarships & Stipends  
Excellent scholarships & stipends for outstanding and meritorious students.

- \* Unmatched Track Record of Co-curricular Activities  
The Institute has garnered myriad International & National Achievements in Cultural Activities the prime being Over-all trophy at SAUFEST, Nepal; Winner of PTU

Zonal Youth Festival since inception. Commendable Achievements in sports at National & International levels; DAVIETians got distinctions in various All India Tech Fests organized by IITs, IIMs & NITs etc.

- \* State-of-the-Art Infrastructure  
DAVIET boasts of world-class infrastructure established in an area sprawling 11.6 acres located in the heart of city; Well equipped, ultra modern labs & E-classrooms.



## DEPARTMENT OF

# ELECTRONICS & COMMUNICATION ENGINEERING

**INTRODUCTION:** The Department aims to impart quality education, training and research at the undergraduate and postgraduate level in various areas of the discipline. We have always strived to inculcate the very best in students so that they can face the challenges of the industry. Close interaction with the industry has led to evolution of a teaching system, which produces diligent and erudite engineers. Our engineers are excellent both in higher education and industry. We have excellent research facilities in the core and emerging areas viz. Biomedical Signal Processing, Communication Systems, Computer Networks, Control Systems, Digital Signal Processing, Image Processing & Computer Vision, Instrumentation, RF and Microwaves, Speech Signal Processing, VLSI Systems & MEMS and Optical Communication.

**COURSE DESCRIPTION:** ECE is the utilization of science and math applied to practical problems in the field of communications. Electronic communication engineers engage in research, design, development and testing of the electronic equipment used in various communications systems. Our priority areas of specialization are: Communication engineering, Digital electronics, Microwave engineering, Digital signal processing, VLSI design, Wireless Communication networks, Optical communication, Antenna

and wave propagation, Signal and Image processing.

### CAREER PATHS

1) Students can proceed with the research work. 2) These programs prepare students to find employment as hardware and software engineer. 3) Students can go for higher studies India and abroad 4) Students can become entrepreneur and DAVIET has its own incubation centre for their help.

### LAB FACILITIES

- Innovation Lab
- Analog Devices and Circuit Lab
- Digital Electronics Lab
- Microprocessor Lab
- VLSI and Embedded System Lab
- Communications Lab
- Wireless and Optical Network Lab
- Microwave and Radar Lab
- Digital Signal Processing Lab
- PCB Lab
- Control System Lab
- Electronic Measurements and Instrumentation Lab

- Software Lab

### RESEARCH FACILITIES

- Optsim 5.1 : Fiber Optics Communication Simulation Tool
- Ansoft HFSS: Antenna Design Simulation Tool
- Qualnet: Wireless Communication Simulation Tool
- COMMSIM Software
- MATLAB

**STUDENT BODIES:** SKZ (Special Knowledge Zone), SINE (Society of Innovative Electrocracker)

**VALUE ADDITION Programs:** We have tied up with various organizations like:

- IET (The Institution of Electronics and technology communication) Student forum
- MOU with M/S EdGate of Texas Instruments.
- Centre of excellence of ECE with SOFCON technologies, Noida.
- Ericsson India Pvt. Ltd.
- I2T Pune (for VLSI and robotics) RSOFT, USA

### DISTINGUISHED ALUMNI

- Puneet Pathak, Senior software engineer at Apple Inc.
- Er. Jatinder Kumar, IES Officer
- Navneet Kaur Bal, PCS Officer
- Anuj Talwar, Technology lead at Infosys
- Ashish Gupta at Oracle Hyderabad
- Puneet Dalia, Solution specialist at Nokia Networks
  - Uplabdh, working in Larsen & Toubro Infotech



DEPARTMENT OF

## COMPUTER SCIENCE & ENGINEERING



**INTRODUCTION:** The Department aims at imparting quality education in Computer Science & Engineering through four year graduate program of B.Tech and two post graduate programmes as M.Tech regular and M.Tech part-time. Department provides state of the art training to the students through comprehensive educational programs, collaboration with industry and advance knowledge through research and technical development. The Department has various laboratories furnished with hi-tech computing facilities to support the teaching and research activities. A library with number of books on Computer Science for the elite use of the faculty and students is available in the premises of the Department. The academic excellence of department is reflected in its student's exemplary performance with number of university positions. Department has consistently the best placement record in the institute for various corporate and engineering sectors companies like Wipro, TCS, HP and NEC etc. Annually a number of students of the department also clear GATE, CAT, GRE and GMAT for higher studies in the top

rank colleges and universities.

**COURSE DESCRIPTION:** The course curriculum is planned to train the students primarily for the theoretical and conceptual inputs of knowledge with emphasis on hardware architectural design and development of software application programs. The department strongly believes that neither the industry, nor the academics alone have the resources to sufficiently deal with the quest for innovative excellence in the field of computers, for global competitiveness hence the Institute-Industry interface programs in the department enable the students to interact constantly with the industries. Department lays prominence on emerging and futuristic technologies like Big Data, Cloud computing, Data mining, Multimedia, Software Engineering, Algorithm Analysis and Design, Operating Systems, Computer Graphics, Database Management System and Networking Technologies.

#### CARRIER PATHS

- Software Applications Developers

- Web Designer and Developers
- Software Project Manager
- System Analyst
- Network Managers
- Database Administrators
- Entrepreneurs

#### LAB FACILITIES

- Central Computing Lab
- Operating System Lab
- RDBMS Lab
- Computer Programming Lab

#### STUDENTS BODIES

- CSI Student Branch
- IEEE Student Branch
- ISTE Student Branch
- PRISMA Student Club

#### VALUE ADDITION PROGRAMS

- Expert lecture on 'New Startups in IT Sector' by Mr. Mani Madhukar on 27h February 2016.
- Expert lecture was delivered on 'Information Security and Cyber Crimes' by Dr.Anup Girdhar on 8h March 2016.
- One day workshop on 'Advanced Computer Networks'.
- Two days workshops on 'Information Security and Cyber Crimes'.

#### DISTINGUISHED ALUMNI

- Mr.Amit Miglani, Senior Software Engineer, Infosys
- Mr.Rohit Mahajan, Senior Software Engineer, SAP Labs
- Ms.Priyanka Saini, Senior Software Engineer, Infosys
- Mr.Nitish Suri, Software Engineer, Accenture

## DEPARTMENT OF

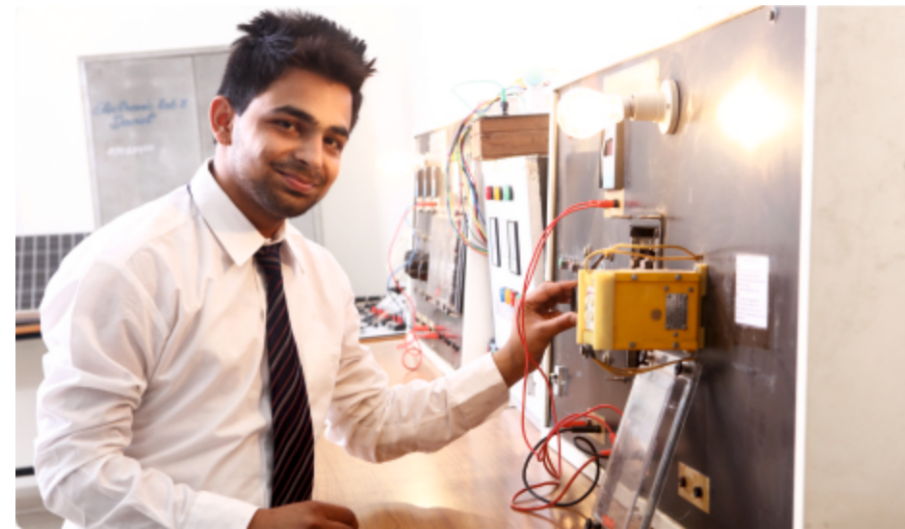
# ELECTRICAL ENGINEERING

**INTRODUCTION:** From the production of power in power plants and the distribution in high power networks to the customer in his household or office, it is electrical engineering that influences our daily life in important ways. Electrical Engineers design, develop, test and supervise the manufacturing of electrical equipment. The major subject areas are electrical machines, power systems, generation, transmission and distribution, control systems, digital electronics, power electronics, microprocessors, etc. Throughout the four year program, students are encouraged to use their creativity and problem solving skills to explore and think about the unique problems in the world of electrical engineering. We give our full support to the students so that they turn out to be the best engineers with flying colours in their lives.

**COURSE DESCRIPTION:** The UG program in Electrical Engineering provides diverse knowledge & builds strong foundation of students in electrical engineering. The platform helps them to become competent professional in their stream. The post graduate course inculcates the culture of research in the students towards their respective stream and provides sustainability in their professional careers.

**CAREER PATHS:** Graduates of Electrical Engineering have a number of options available.

- Analysis, simulation, design of electrical energy systems, manufacturing, testing or servicing of electrical or electronics equipment, engineering related software development.



- Higher studies in specialized areas of Electrical, Electronics or Computer Engineering.
- Career in engineering and business consulting firms, manufacturers of electrical equipment, industrial machinery and professional & scientific instruments.
- Public Sector Jobs in the various electricity boards as well as in the armed forces.

### LAB FACILITIES

- Basic Electrical and Electronics Lab
- Semiconductor devices and Circuits Theory Lab
- Electrical Machine Lab of I
- Electrical Measurement Lab
- Instrumentation and Measuring Devices Lab
- Control System Lab
- Electronics Circuit Lab
- Electrical Machine II Lab
- Power Electronics and Drives Lab
- Power System II Lab
- Micro Controller and PLC Lab
- Power System Analysis /Advance Computing Lab
- Project Lab equipped with Power Quality Analyzer, Solar Panel.

### RESEARCH FACILITIES:

- For power quality study the department is having the fluke make three phase power quality analyzer (model 435).
- The various softwares available are MATLAB, ETAP, Power word simulator and PSCAD which are used for simulation work.

### STUDENT BODIES:

1. C3E (Consortium of Electrical and Electronics Engineers)
2. Indian Society of Technical Education (ISTE)
3. Clicker Club
4. Arteso Club

### VALUE ADDITION PROGRAMS:

1. Programmable Logic controllers & HMI
2. SCADA
3. Embedded Technology
4. AutoCAD (Electrical)
5. Computer Networking
6. .NET

### DISTINGUISHED ALUMNI:

- Ranbeer Singh, Captain Indian Navy
- Amritroop Singh, Captain Indian Navy
- Jatinder Batra, SDO (PWD)
- Madhav Sharma, SDO (PSPCL)
- Ishita Dania, Sr. Manager L & T Construction
- Ishan Mehendiratta, Big Data Analyst, Deloitte Consulting India Pvt Ltd

DEPARTMENT OF

## CIVIL ENGINEERING



**INTRODUCTION:** The Department is dedicated to educating students for diverse employment in the civil engineering profession. We provide a broad-based educational experience in the various disciplines of civil engineering that is firmly founded upon science, mathematics, and the humanities. Civil engineers design and supervise the construction of: 1. Structures of various forms, such as bridges, buildings, industrial plants, stadiums, dams, docks,

marine platform, oil drilling rigs, missile bases, and launching facilities for space exploration and travel 2. Transportation systems such as highways, railroads, airfields, canals, shipyards, and pipelines 3. Systems for water supply, hydropower, irrigation, drainage, flood control, and navigation 4. Systems for waste disposal, and for air and water pollution control 5. Planning of new communities and re-development of existing cities.

**COURSE DESCRIPTION:** Structural engineers are concerned with the conception, analysis, design and construction of components or assemblies to resist loads arising from internal and external forces. Geotechnical engineering is the study of the behaviour of soils under the influence of loading forces and soil-water interactions. Transportation has always played an essential role in the development of society. It is the transportation engineer's responsibility to plan and design the systems of transport to ensure safe, efficient and convenient movement of people and goods. Environmental engineers study water, soil and air pollution problems, and develop technical solutions needed to solve, attenuate or control these problems in consonance with economic, social and political concerns.

**CAREER PATHS:** As a civil engineer you will find yourself working in many diverse areas such as: 1. construction engineering 2. Structural engineering 3. Water resources engineering 4. Geotechnical engineering 5. Transportation engineering. 6. Environmental engineering.

**LAB FACILITIES:**

- Material testing lab
- Geotechnical engineering lab

- Survey lab
- Transportation lab
- Environmental lab
- Structural Analysis lab
- CADD lab

**RESEARCH FACILITIES:**

- Universal Testing Machine
- Flexural Testing Machine
- Self compacting concrete testing equipments
- Consolidation analysis of 1D (Odometer test)
- Digital Triaxial test
- Digital Direct shear test
- Compaction test
- Model tests (fabricated steel tank)
- Unconfined Compressive Strength test
- Nuclear density meter
- California Bearing Ratio Test
- Total station and GPS instruments for Surveying

**STUDENT BODIES : C2M**

**VALUE ADDITION PROGRAMS:**

- Consultancy for material testing
- Auto CADD
- Various structures modeling (during technical fest)

**DISTINGUISHED ALUMNI:**

- Pallavi Malik Asst. Manager Shapoorji Palonji Ltd India
- Virat Ahuja, Manager (Designs), L&T ltd, Delhi
- Kuldeep Rehat, Manager (execution), Shapoorji Palonji Ltd, India
- Gurvinder Singh, Executive Engineer (XEN), Punjab Mandi, Board, Hoshiarpur
- Kunwar Charaya (Engg. Service)



## DEPARTMENT OF

# MECHANICAL ENGINEERING

**INTRODUCTION:** The Department is one of the premier departments in the institute that provides a perfect blend of educational and research environment.

This branch is concerned with the design, manufacture, installation, and operation of mechanical devices like engines & machines using principles of mechanics and energy conservation. Ever since its inception, the department is continually striving to achieve excellence in education and industry oriented research. With a solid foundation in the principles and practices of Mechanical Engineering, our undergraduates are equipped to be engaged in ethical approaches to engineering keeping a special concern for society and environment. The department undertakes research activities in areas of materials and manufacturing, automation and robotics, automobile engineering and energy systems. Mechanical Engineering Department is an excellent stepping stone for a rewarding professional life.

**COURSE DESCRIPTION:** Mechanical engineers are the backbone of the engineering profession and work in every industry. Mechanical engineers work with motion, energy and forces and are involved in manufacturing the products they design. They design robotic systems, products, computer control systems for machinery, commercial jets, instruments for medicine and high-performance sporting equipment, and supervise manufacturing operations. In this larger context, the undergraduate curriculum emphasizes basic principles and their use in solving engineering problems. Courses focus on design, manufacturing, robotics, computer-aided-engineering, thermal and fluid systems, mechanics of materials, and machine integration and control. The

curriculum incorporates hands-on experiences through laboratory work and design projects.

#### CAREER PATHS:

- Aerospace Engineer
- Automotive Engineer
- Control and instrumentation engineer
- Maintenance engineer
- Mining engineer

#### LAB FACILITIES:

- Applied Thermodynamics
- Automobile Engineering
- Strength of Materials
- Theory of Machines
- Industrial Automation and Robotics
- Heat Transfer
- Fluid Mechanics
- Fluid Machinery
- Refrigeration and Air-Conditioning
- CAD/CAM
- Computer Graphics
- Engineering Materials and Metallurgy
- Mechanical Measurements and Metrology
- Mechanical Vibrations

#### WORKSHOPS

Sheet Metal Shop	Machine Shop
Welding Shop	Fitting Shop
Carpentry Shop	Electrical Shop
Foundry Shop	Smithy Shop

#### RESEARCH FACILITIES

CNC Machine, Wear Test Apparatus, Digital Microscope, Micro-hardness Evaluation, Profile Projector, Image Analyzer System, PLC Unit and software like Fluid-SIM, SolidWorks etc.

#### STUDENT BODIES:

Students' Chapter of Institute of Engineers (India), Robotics Club and Tech-Lit Club

#### VALUE ADDITION PROGRAMS

- Hands-on CNC Training
- Training on Solidworks and CATIA
- Employability Skill Training classes for students of all the semesters to equip them with adequate technical and soft skills to meet industry expectations and enhance employability prospects.
- Interactive session with Dr. Sanjeev Kumar Sharma, Deptt. of Semiconductor Science, Dongguk Univ., Seoul on Nanotechnology, Semiconductor materials and their chemosensor applications.
- Regular Industrial Visits.

#### DISTINGUISHED ALUMNI

- Sagar Trehan working as Onsite Engineer: Ford Motor Company Dearborn, MI
- Himanshu Chaddha working as Sr. Engineer C.P.E Afcons Infrastructure Ltd.
- Uday Pal Singh working as an Captain-Boeing 757-200, Blue Dart Aviation Ltd., New Delhi
- Anirudh Jaswal working as Assistant Manager L & T
- Santokh Singh, Marine Engineer Officer at Seaspan Ship Management Ltd.
- Rohit Singh, GET at Shapoorji Pallongji Engineering Ltd.



DEPARTMENT OF

## INFORMATION TECHNOLOGY



**INTRODUCTION:** The Department provides cutting edge education in the field of Information Technology and its allied areas. We offer four year program leading to B.Tech. in Information Technology. The department has been equipped with state of the art infrastructure which includes lecture rooms, group discussion room, faculty room, departmental library and three modern labs. The department has organized national conferences, workshops and many expert talks from time to time for the overall growth of the students and faculty. The department boasts on an excellent academic record with number of university

positions. Every year our students got placements with companies like Wipro, TCS, HP etc. names a few. Some of our best outgoing students have also achieved landmarks in pursuing higher studies at one of the World's Best Universities like Perdue and Illinois. Every year a potential number of students of the department clear GATE, CAT, GRE and GMAT for higher studies.

**COURSE DESCRIPTION:** The course meets the computational needs of business with a stress on technology. The exponential increase of user expectations and the increasing workload in the industry sector has created huge requirements for professionals in the field of Information Technology. The Department understands these requirements for producing smart IT professionals and thus trains the students by organizing various workshops and training programs on the latest technologies to meet the challenges in this field. The course contents focus on complete Software Development Life

Cycle, Web Development, Cloud Computing, Database Management System, Knowledge Discovery and Application Development in Internet Technology with blend of technical skills.

### CAREER PATHS

- Business Analyst
- Database Administrator
- IT Project Manager
- Network Administrator & Systems Analyst
- Software Engineer & Mobile Application Developers

### LAB FACILITIES

- Project Lab
- Programming Language Lab
- Computer Networks Lab

### STUDENT BODIES

- Computer Society of India (CSI) Student Branch
- IEEE student Branch

### VALUE ADDITION PROGRAMS

- Cisco Networking Academy Program
- 01-Day Workshop on Python and Raspberry Pi
- 01-Day Workshop on Ruby on Rail
- 02-Day workshop on PHP & MySQL

### DISTINGUISHED ALUMNI

- Dr. Rohit Ranchal, Senior Software Engineer, IBM Watson Health Cloud, USA
- Ms. Isha Tank, Flying Officer, Indian Air Force
- Mr. Sahil Goyal, Associate Consultant, Microsoft, India
- Mr. Vivek Tingloo, Lieutenant, Indian Navy
- Mr. Harshdeep Singh, Director of Operations – EMEA, Cloudwick, United Kingdom

## DEPARTMENT OF

## BUSINESS MANAGEMENT

**INTRODUCTION:** The Department disseminates quality education in the field of management. Management is an essence which caters towards attainment of a standardized initiative of efficient utility of resources channeling to the alleyway of betterment and perfection leading to excellence. MBA programme is a saga revealing the essence and integration of versatility, and dynamism with the potion of continual endeavors made by the potential knowledge bearers of our department. We cherish a vision of becoming academically and professionally responsive to the expectations of Indian and Global industry. In order to execute this vision, we specialize in different fields such as Finance, Marketing, Human Resource Management and Information technology. We believe that today's business leaders need to possess an excellent package of specialized skills, positive attitude, analytical orientation to be able to handle complex business situations.

### COURSE DESCRIPTION:

**MBA in Finance :** Financial management will focus on management accounting and control, the Indian capital and money market, banking, privatisation and international finance. The course will emphasize on various aspects of financial theories, identification of best managerial practices in the area and global practices of applications.

**MBA in HR :** The specialisation inculcates good people skills all about recruiting, training, team building, performance updates, employee policy etc.

**MBA in Marketing :** This specialisation will help enhance skills & knowledge in the field of marketing, advertising, public relations etc.



### CAREER PATHS:

- Financial planner
- Analyst
- Entrepreneur
- Marketing manager
- Logistician
- Business Development Executive
- HR Executive

### LAB FACILITIES

Computer Lab

### RESEARCH FACILITIES

The department has latest version of statistical packages and also has subscribed various financial and economic databases: 1) SYSTAT 13 2) CAPITAL LINE 3) ECONOMIC OUTLOOK 4) EBSCO

**STUDENT BODIES:** Management Club

### VALUE ADDITION PROGRAMMES

- HR Meet in the month of February 2015 to strengthen the industry-academia collaborations for mutual growth and development.



- One Day Case Study Workshop on 13th September 2014 conducted by Dr. Neeraj Pandey from NITIE, Mumbai.
- One day workshop on "Entrepreneurship and Managing Small Scale Entrepreneurs" as on 26/03/2014 by Mr. Balbir Singh, Vice President NITCON Ltd.

### DISTINGUISHED ALUMNI:

- Mr. Aditya Sharma, Manager in Exide Industries Ltd.
- Ms. Jasdeep Kaur, HR Head in Nestle India Ltd.

## DEPARTMENT OF

## COMPUTER APPLICATIONS

### INTRODUCTION:

The Department provides the students an in-depth knowledge of IT industry and thus enables them to meet the industrial demand for highly trained professionals who will take a lead in the ongoing technological dynamics. We aim to create competent professionals who will play a significant role in diverse commercial, industrial & academic activities. Our aims include:

- To train and educate students at postgraduate level, producing manpower of outstanding ability.
- To provide students better exposure to ideas, knowledge, experience and trends in computing.
- To inculcate advanced knowledge through value addition courses through effective Industry-Institute interaction.

### COURSE DESCRIPTION:

MCA is a post graduate three year course that provides the students with an ability to serve the competitive and corporative world in the fields like Information

Technology, Project Management, Management Information System, Enterprise Resource Planning (ERM), System & Application Programming, System Analysis & Design, E-Business etc.

### CAREER PATHS:

- Network Administrator/System Administrator
- Database Administrator
- System Analyst
- Web Designer
- Software Engineer

### LAB FACILITIES:

- Programming Lab
- DBMS Lab
- Networking Lab
- Linux Lab
- Project Lab
- Embedded System Lab

### STUDENT BODIES:

MCA Technocrats

### VALUE ADDITION PROGRAMS:

- One day Workshop on IBM Tools for App Development by IBM in collaboration with ICICI Bank.
- One day workshop on INTERNET OF THINGS
- Certificate course in Oracle, Advance Java and Programming

### DISTINGUISHED ALUMNI:

- Vishu Aeri working in Fajistu Dubai
- Jaswinder Singh working as Assistant Professor in LKC Jalandhar
- Meelony Kalia, working as MD in Social Group of Institutions, Jalandhar
- Milanjot and Lakhwinder Singh working in PSPCL Punjab



## DEPARTMENT OF

## APPLIED SCIENCES

**INTRODUCTION :** The Department was established in the year 2001 with the principal goal to provide sound theoretical and analytical background to UG students of engineering. The Department operates in absolute synchronization at the first year level of the four year B.Tech. Programme with the objective of providing firm foundation to the aspirants in the subjects namely Engg. Physics, Engg. Chemistry, Engg. Mathematics & Communicative English. We have the best of faculty and technical infrastructure to provide the students with the best theoretical and practical knowledge.

### COURSES

#### Engineering Mathematics

Engineering mathematics concerns mathematical methods/techniques that are typically used in engineering and industry. Consequently, we mainly emphasize on the applied aspect of mathematics to different domains of engineering.

#### Engineering Physics

Engineering Physics provides a strong scientific background that recognizes the engineering work in the private sector or in national/international laboratories. The subject imparts the in-depth knowledge and skills to understand physical systems, to carry out research, to design and solve problems etc.

#### Engineering Chemistry

Chemistry answers the needs of our society through a deep understanding of the factors that govern and furnish the control of chemical reactions. It plays a critical role in man's attempt to feed the world's population, to tap new sources of energy, to clothe and house humankind, to provide renewable substitutes for dwindling or scarce materials etc.

#### Communicative English

Communicative English aims to make students become 'independent users' of English language. It aims to make them converse fluently, without strain with international speakers of English in an accent and lexis that is widely understood across the globe.

#### LAB FACILITIES

- Engineering Physics Laboratory
- Engineering Chemistry Laboratory
- Digital Language Lab

#### RESEARCH FACILITIES:

Laser Kit,  
Microwave Bench,  
Michelson Interferometer,  
Spectrophotometers,  
Conductivity Meters,

Colorimeters, pH meters, BOD Incubator, Flame photometers.

#### STUDENTS BODIES:

The Students Consortium

#### VALUE ADDITION

To this intent, expert talks, extension lectures, conferences, seminars, workshops and other interactive programs feature in the academic almanac of the department.



## RESEARCH CENTRE AND DEPARTMENT OF

## NANO SCIENCE & TECHNOLOGY

**INTRODUCTION:** Nanotechnology courses offer knowledge and training on the development and modification of devices with atomic precision where the dimension of particles is less than 100 nanometers. Today's nanotechnology harnesses current progress in chemistry, physics, materials science, electronics and biotechnology to create novel materials that have unique properties because their structures are determined on the nanometer scale. Some of these materials have found their ways into consumer products, such as sun screens and stain-resistant paints. Others are being intensively researched for solutions to humanity's greatest problems — diseases, clean energy, clean water, etc. There is a huge demand for students who have done Nanotechnology Courses in a good number of industries and laboratories in India and abroad. Being an interdisciplinary subject, students with a degree in nanotechnology can find employment opportunities in a number of fields.

**COURSE DESCRIPTION:** Keeping in view the importance of Nanotechnology, DAVIET has started 4-semester M. Tech course in Nano Science & Technology w.e.f. August, 2010. The course equips graduates with the skills to make a successful career in the new industries where reduced dimensionality plays a critical role in their products. During this course, all the students undertake the project work in the frontier areas of Nanotechnology on both group and individual basis. This is conducted in close collaboration with reputed national research centers like CSIO, Chandigarh; SSPL, Delhi; Panjab University, Chandigarh, GNDU, Amritsar. Our students are working on latest areas of Nanotechnology viz. molecular electronics,

CNTs, thin films, gold nanoparticles and nanocomposites etc.

### LAB FACILITY

#### M.Tech. Nanotech Lab I

The labs of M. Tech. Nano-technology are well equipped to cater the requirement of the students and researchers to enhance their technical skill. This lab provides the knowledge of Nano characterization tools and Nano Electronics. Students get acquainted with basics of SEM, TEM and AFM techniques.

#### M. Tech. Nanotech Lab II

The purpose of this laboratory to train students to be familiar with Nano processing methods and synthesis of Nano Materials. The students are provided knowledge about Vapor Deposition, Spin Coating techniques and learn about Quenching method, Hydrothermal method, Solid state reaction method, Solvothermal method, Co-precipitation method and other different methods to prepare Nano Materials.

### RESEARCH FACILITY

- Scanning Probe Microscope (Solver Pro-M4, NT-MDT, Russia)
- Vacuum Coating Unit (Model No. 12A4D, HHV, India)
- Source Measure Unit (Model No 2612, Keithley, USA)
- Spin Coating Unit (SCU 2007, Apex Instruments Co.)
- Muffle Furnance
- Hot Air Oven
- Ultracentrifuge
- Digital Weighing Machine



## DEPARTMENT OF

## TRAINING & PLACEMENT

The Training & Placement Cell is committed to provide all possible guidance/assistance to its graduates/post graduates in their efforts to find employment. This commitment is demonstrated by the existence of a full time Placement Cell which comprises of a dedicated team of Training and Placement Officer and Faculty Coordinators from each department.

The Training and Placement Cell is involved in three specific areas:

- Placement of Outgoing Graduates /Post Graduates
- Industrial Training of students
- Industry Institute Interaction Programme

### OUR RECRUITERS

- Acropetal Technology Ltd.
- Aditya Engineering & GIS Solutions
- Aon Hewitt
- Appirio
- Atos SE
- Bajajallianz General Insurance Co. Ltd.
- Bonton Cables India Pvt. Ltd.
- Catalyst One Solutions Ltd.
- Cavisson Systems
- Ceasefire Industries Ltd.
- CMS Infra Systems Pvt. Ltd.
- Cognizant Technologies Solutions
- CSC India Pvt. Ltd.
- Daffodil Software Ltd.
- DHFL Pramerica Life Insurance
- Dial-a-Bank
- eClerx
- Earth Infrastructures Ltd.
- Edelweiss Securities Ltd.
- EM CEE CEE Sports Agencies Pvt. Ltd.
- Embrix Infratech Pvt. Ltd.
- EME Technologies
- ERA Infra Engineering Ltd.
- Ericsson
- Field Marshall Security

- Green Maple Technologies Pvt. Ltd.
- Harit Dharaa Projects Pvt. Ltd.
- HDFC Bank
- Hewlett-Packard Sales Pvt. Ltd.
- IBM
- Image Consulting Group
- Jaro Education
- JBR Technologies Pvt. Ltd.
- Justdial
- Kapsons
- Kayako Infotech
- KEC International, Mumbai
- Kent RO
- Kotak Securities
- L&T Infotech
- Liberty Videocon General Insurance
- Navyug Info Solutions Pvt. Ltd.
- NEC Technologies India
- Novo Elixir
- NW Overseas
- OM Careers
- One Infonet Technologies Pvt. Ltd.
- OptiAxis Pvt. Ltd.
- Paxcel Technologies Pvt. Ltd.
- Pingaksho Technologies
- Practo Technologies
- Prolific Systems & Technologies Pvt. Ltd.
- RAH Infotech Pvt. Ltd.
- Raison India Ltd.
- Sap Labs India
- Secugenius Security Solutions
- Shapoorji Pallonji & Co. Ltd.
- Slipco
- Sofcon India Pvt. Ltd.
- Solar First Energy Pvt. Ltd.
- Solar World
- ST Microelectronics
- Stellar Edge Solution (P) Ltd.
- Tata Consultancy Services Ltd.
- Tech Mahindra
- Technospecs Technology
- Thirty Four Soft Systems Pvt. Ltd.
- Tommy Hilfiger

- Trigent Software
- Unit Nexus
- Vishwakarma Industries
- Wipro Technologies
- Xanoo Technologies
- Xerox Services

### PLACEMENT COMMITTEE

Mr. Sushil Prasher  
Head, T&P Cell

Dr. Ritu Sehgal  
Assistant Professor (MBA)

Mr. Sahul Goyal  
Assistant Professor (MCA)

Ms. Reeta Bhardwaj  
Assistant Professor (MCA)

Dr. Raman Kumar  
Assistant Professor (CSE)

Mr. Pankaj Sadana  
Assistant Professor (ME)

Mr. Rajesh Kochher  
Assistant Professor (IT)

Mr. Manish Bhutani  
Assistant Professor (CE)

Mr. Ashish Malhotra  
Assistant Professor (ECE)

Ms. Risha  
Assistant Professor (ECE)

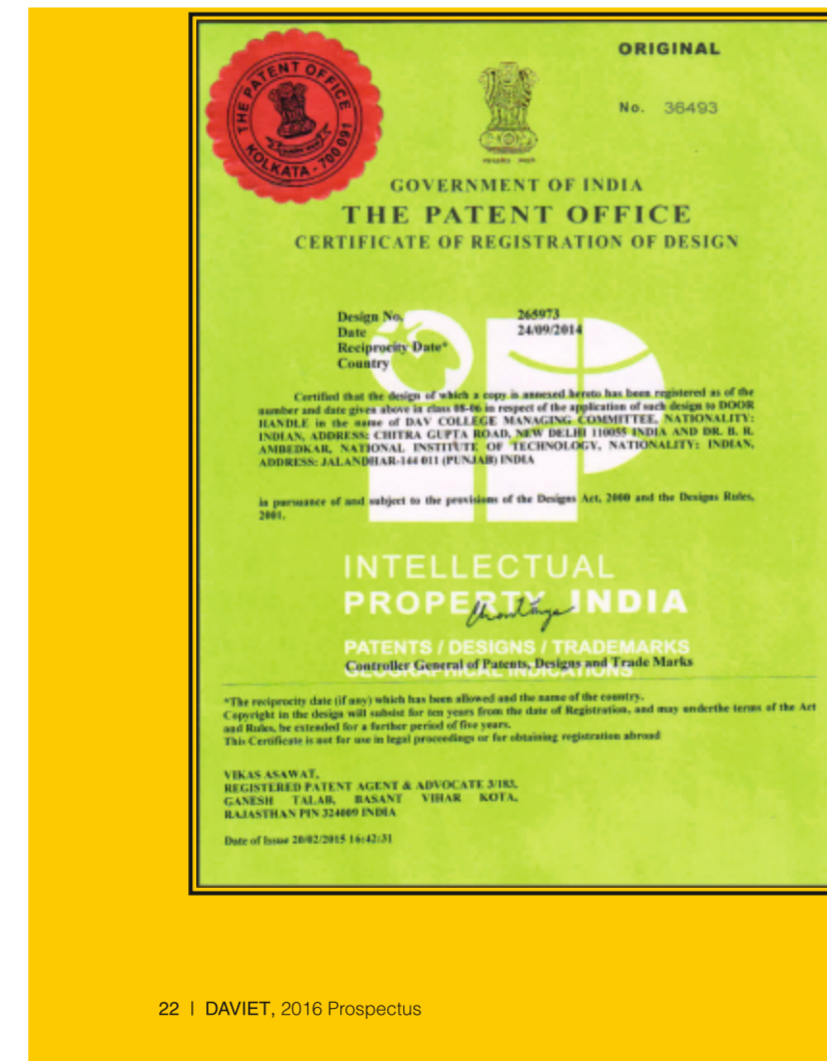
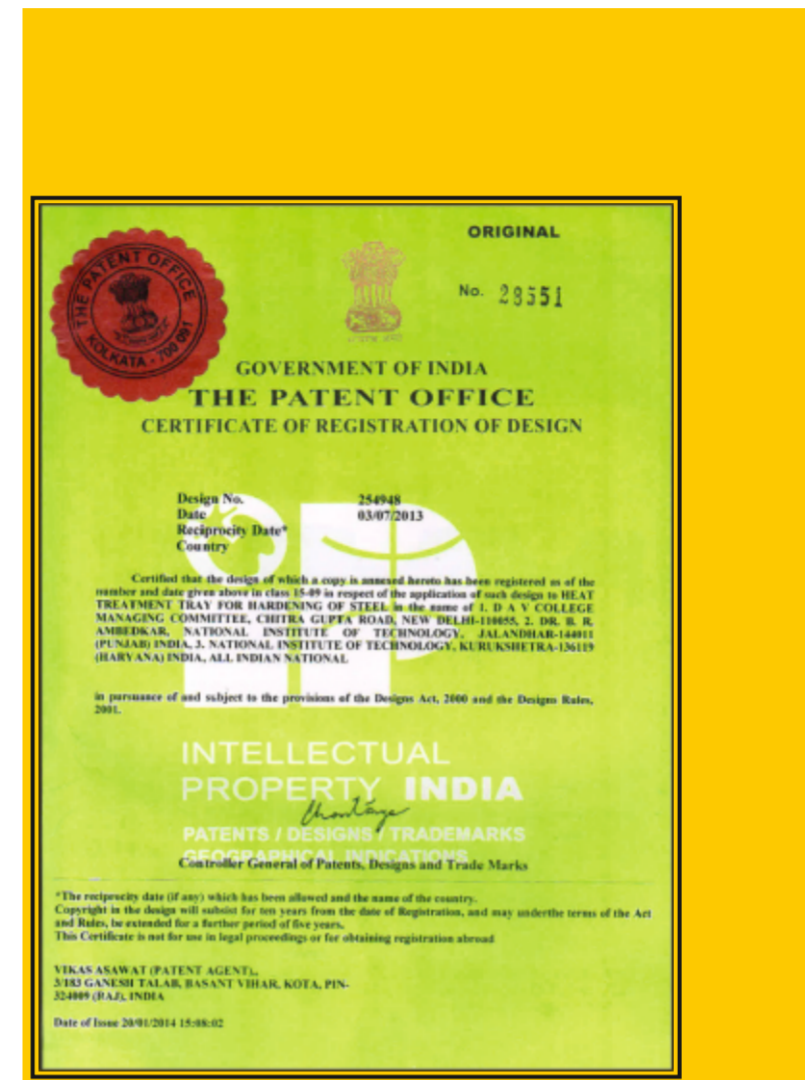
Ms. Kalpana Sharma (Clerk)

# PATENTS

## OUTSTANDING ACHIEVEMENTS




Acknowledging the Novel Research Initiatives by the faculty of DAVIET, Government of India has granted following patents to the Institute :-

1. "Heat Treatment Tray for Hardening of Steel," Design no. 254948 dated 3/7/2013.
2. "Door Handle," Design no. 265973 dated 24/09/2014.



## Crown of Quality

ISO 9001-2008 Certified Institute  
Winner of Coveted IMC-RBNQ  
Award of Excellence

-  The Best Engineering College of Punjab Technical University-2013.
-  Top Engineering College in Punjab as per CSR-GHRDC Survey-2014.
-  Outstanding Engg. College of India as per CSR-GHRDC Survey-2016.



## COMMUNITY SERVICE & CULTURAL ACTIVITIES

### NSS-A REGINA OF COMMUNITY SERVICE

DAVIET has always mastered the ethos of community service coupled with the art of inculcating the moral, ethical and patriotic values in students. For this purpose, NSS establishes a meaningful linkage between the campus students and the community service. To provoke the social conscience of the students and to provide them an opportunity to work with the community NSS unit of DAVIET is active under the able guidance of NSS Programme officer Dr. M.K. Kaushik, Assistant Professor (Civil Engineering). Various events and programmes have been conducted recently including:

- Mega Blood donation camp organized in which 145 units of blood were donated.
- Training in excellence organized for 201 students.
- Cleanliness abhyian in institute campus as well as in the nearby surrounding

areas under SWACHAHA BHARAT ABHIYAN.

- Celebrated Independence Day and organized cleanliness pledge under SWACHAHA BHARAT ABHIYAN.
- Poster making competition on the topic "Reducing food wastage" organized.
- A declamation contest on the topic "Use of technology and innovation in promoting good governance" organized.

### CULTURAL ACTIVITIES

#### DAVIET Heroics in Cultural Domain — The Victory Saga Continues

The Institute has garnered myriad International & National Achievements in Cultural Activities the prime being Over-all Trophy at Saufest, Nepal; Winner of PTU Zonal Youth Festival since inception. In hard fought competitions, DAVIET has always emerged as winner of IKG-PTU Zonal and Inter-zonal Youth Festivals and thus the institute has an impeccable record

in the domain of cultural activities.

Recently, our students represented the IKG-PTU in North-Zone Inter University for the year 2015-16 held at Punjab Agriculture University, Ludhiana from 14-18 January 2016. Two of our students bagged 3rd Prize and thus secured their entitlement for fee reimbursement from the University. The Cultural Activities Unit is spearheaded by Prof. Megha Munjal Sharma, Assistant Professor (Business Management).



## SPORTING SPLENDOUR

### LAWN TENNIS (MEN & WOMEN)

Lawn Tennis (Men) Team of DAVIET won first position in the IKG-PTU Inter College Tennis Tournament. The students participated with great zeal and brought laurels to the institute by winning gold medal. Women Lawn Tennis Team of DAVIET participated in the Tennis Tournament and won Silver Medal for the Institute.

### BADMINTON (MEN & WOMEN)

Badminton Team (Men) DAVIET bagged Gold Medal in the IKG-PTU Inter College Tournament. The players overcame the stiff competition from shuttlers from other institutions and prevailed over them to secure the runners up position. Women Badminton Team gave their best performance in PTU Inter-College Badminton Tournament and secured First position among the different participating Institutes.

### CRICKET (MEN & WOMEN)

Men Cricket Team made the Institute proud by winning Second Position in the IKG-PTU Inter College Cricket Tournament. Women Cricket Team participated in the said Inter-College Cricket Tournament and secured second position among the different participating Institutes. The team

played with sincerity and hard work to win Silver Medal.

### CHESS (MEN & WOMEN)

Women Chess Team participated in the IKG-PTU Inter-College Chess Tournament and secured First position among the different participating Institutes. Team played with sincerity and hard work to win the Gold Medal. Chess (Men) Team participated in the said Inter College Chess Tournament and won Bronze Medal for the Institute.

### HANDBALL (WOMEN)

Women Handball Team participated in the Handball Tournament and won Silver Medal for the Institute. Team showed great team work, courage and confidence during the different matches of the Tournament.

### MUSCLES FLEXED AT 15TH ANNUAL ATHLETIC MEET

DAVIET organized its 15th Annual Athletic and Sports Meet on February 10, 2016. S. Sajjan Singh Cheema, Arjuna Awardee was the Chief Guest on the occasion. Dr. Manoj Kumar Principal, DAVIET and other members of DAVCMC graced the occasion by their benign presence. The players took part in 100m, 200m, 400m, 800m, and 1500m, shot put, discus throw, javelin throw, long jump and Tug of War both in the categories of men and women. Aina Singh student of CSE 3rd Year and Opinderjit Singh Oscar ME 3rd Year were adjudged Best Athletes in the 15th Annual Athletic and Sports Meet 2015. S. Pargat Singh Padma Shree was the Chief Guest and gave away the prizes to the winners on the closing ceremony of the meet.



# INFRA- STRUCTURE

## MATERIAL SCIENCE BLOCK

Material Science Block comprises of well equipped manufacturing practice workshops for carpentry, fitting, welding, machine tools, foundry, laboratories of mechanical and civil engineering department. Main attraction in Material science block is the lab of Metrology & Mechanical Measurement set up in collaboration with world leader Mitutoyo Corporation of Japan.



## CORE BLOCK

This block caters to the requirements of Applied Sciences & Information Technology Departments. It houses well equipped labs of Electronics & Communication Engg., Electrical Engg., Computer Centre and Computer Labs of the Institute





#### RESEARCH FOUNDATION BLOCK

R & D Block houses state-of-art advanced research laboratories on Light Wave Technology, Robotics and Nano Technology. Apart from this, Principal's Office, Administrative & Accounts Offices, Class Room, e-Lecture Theaters & Electronics Labs are also a part of this building.

#### UNDER GRADUATE BLOCK

This block is constructed keeping in view the importance of e-education in today's scenario of technical education. This block encompasses 3 specialized computer labs, 12 e-classrooms each equipped with high resolution LCD projectors and sound systems, drawing halls, tutorial rooms and well furnished departmental offices.



### AUDITORIUM

In order to serve purpose of drama, dance and other music & cultural activities our campus house a Centrally Air Conditioned two-tier Lala Chanchal Dass DAVIET Auditorium with a seating capacity of 1200. This theater is equipped with modern sound system, which is capable of being reconfigured to suit different needs. We also have standard, boom, wideangle microphones, floor mics and hi-fidelity mics. Wireless mics are used for question & answer sessions. The stage has a modern lighting system. The auditorium cum multipurpose hall also provides indoor facilities for badminton and table tennis to the students.



### POST GRADUATE BLOCK

The Post Graduate house a mini auditorium namely Convention Hall in addition to class rooms & offices. This block caters to the requirements of our PG students besides offices, and laboratories of Mechanical & Civil Engineering.





#### COMPUTING FACILITIES

The Computer Centre of the institute is located in the Core Block. It is equipped with best facilities in the region. It includes more than 600 computers connected to a high-speed network using gigabit Ethernet technology. Computer centre is having 24 hr. internet connectivity with 50 Mbps Leased Line. Centre has made the whole institute a "Wi Fi Zone".

#### KNOWLEDGE CENTRE

A world class structure by the name of 'Knowledge Centre', the first of its own kind in India, has been constructed to cater to the requirements like Central Library, Bank, ATM etc.



### CONVENTION HALL

Convention Hall is located in the PG block, fully equipped with all kinds of audio and visual aids which makes learning more effective. Seminars/Expert Talks/ Small Functions are conducted by the staff and the students of all the departments. Besides, experts from leading industries and corporate house deliver their expert talk that enables the students to have an exposure of the industrial environment.



### CENTRAL LIBRARY

DAVIET Library is one of the best equipped in terms of the number of books, back volumes and current journals subscribed. The library is fully computerized which has helped in the faster literature retrieval and search. The prime motivation of students and staff who are always in the need for information on cutting edge technologies is an online knowledge archival system. In order to make the environment more user-friendly and conducive for learning, the library is fully air-conditioned with basic amenities available inside. During the examination days the

timings are extended in order to facilitate the students to make adequate preparations for their examinations. Taking care of research interest of faculty and students the library is also providing facility for online access to various IEEE, Science Direct, JCCC@INDEST Journals along with other national and international journals.

Book bank facility : DAVIET offers this facility to economically weaker students, in which free books are provided for whole semester on returnable basis.



## RULES & REGULATIONS

- A student shall conform to high standards of discipline and shall conduct himself, within and outside the premises of the Institute, in a manner befitting the student and the Institute.
- He shall have the seriousness of purpose and shall, in every way, train himself to lead a life of earnest endeavour and co-operation.
- He shall show due courtesy and consideration to the employees of the Institute and good neighborliness to his fellow students, respect the wardens of the hostels and the teachers of the Institute and pay due attention and courtesy to visitors.
- To safeguard its ideals of scholarship, character and personal behavior, the Institute reserves the right to require the withdrawal of any student at any time for any reason deemed sufficient.
- Punishment such as expulsion from the Institute, withdrawal of candidature from appearing in university examination shall be executed by Principal on recommendation of the disciplinary committee.
- Students and their parents/representatives are forbidden from addressing the trustees or the members of the Managing Committee directly.
- Consumption of Non Vegetarian food, alcohol or any other intoxicant and smoking etc. is strictly prohibited in the institute as well as hostels. The guilty students shall be liable for punishment and disciplinary action which may include expulsion/suspension from the institution or hostel or imposition of fine or all of them.

### DRESS CODE

To inculcate a sense of simplicity,

uniformity and equality in the minds of students, they are required to wear institute uniform

- On Mondays
- On Formal Functions of the Institute.
- On Industry institute interaction/Educational tours.

### The prescribed uniform is as follows:

**BOYS (Winter) :** White Shirt, Silver Grey Trousers, Institute's Neck Tie, Blue Blazer bearing Institute's logo and black leather shoes.

**Summer :** White open collar and half/ tucked up sleeves shirt, silver Grey trousers, Institutes's Neck Tie and Black Leather Shoes

- Turban for Sikh Boy Students to be worn on all days.
- **GIRLS (Winter):** White Shirt, Silver Grey Salwaar/Trousers, Silver Grey Duppatta/Institute's Neck Tie, Blue Blazer bearing Institute's logo and Black Leather Shoes/ Sandals.
- **Summer:** White Shirt, Silver Grey Salwaar/Trousers, Silver Grey Duppatta/Institute's Neck Tie, Black Leather Shoes/ Sandals.
- High Heels not allowed
- **Workshop Uniform:** While in the Institute's workshop, every student must wear Navy Blue Dangri / Overalls both from the point of view of safety and efficiency.

### LIBRARY FACILITIES

Institute's library remains open from 8:00 AM to 8:00 PM during academic session. During examinations the timings are extended upto 10:00 PM for the convenience of students. The students have to pay a fine of Rs. 2/- per day after due date of return for text books. Four library borrower's cards are issued to every

student.

### IDENTITY CARD

Every student is supposed to get plastic laminated Identity Card. In this connection a notice will be issued from the office regarding authorized Photographer. The photographer will be available in the institute on the specified dates and timings.

Every student must be in possession of Identity card with him/her. Failure to produce the identity card on demand of the competent authority will lead to disciplinary action/ imposition of fine. Loss of identity card must be reported to Principal immediately and a new card be obtained within a week. The fee for the replacement will be same as the cost of the first identity card.

### ATTENDANCE

A student must be regular and punctual in attendance.

If a student remains absent from the Institute without leave continuously for two weeks, his/her name will be struck off from the Institute rolls.

S/he may be readmitted on the payment of readmission fee and penalty. S/he will not be allowed to attend the classes till he/she is readmitted.

A student must fulfill the requirement of attendance as laid down by the university, minimum 75%, failing which, he/she will be detained from appearing in the university examinations.



## RULES & REGULATIONS

### LEAVE

- All kinds of leaves should be applied for on prescribed application form before it is availed .
- In exceptional circumstances, the application may be submitted within seven days after the expiry of leave.
- Leave application should be recommended by the respective H.O.D.
- The medical officer must recommend leave application on medical ground. Father/ Guardian of the students must countersign such application before it is sent to the Institute. Medical Officer will clearly specify the disease and the periods of the rest recommend. Medical certificate along with the fitness certificate from a competent authority must be submitted on rejoining the Institute.
- The Principal will sanction medical

### Leave.

- Absence or leave from exam for whatever reason will mean nil result.
- Students absenting themselves without leave shall be liable to disciplinary action including fine.

### EXAMINATIONS

- There shall be three mid semester tests.
- It is compulsory for the students to appear in all the Mid Semester Tests(MSTs)
- There shall be 25% weightage to first MST, 25% for 2nd MST & 50% for 3rd MST in the internal wards.
- In case a student falls ill during the course of examination, his/her leave application on the prescribed form supported by the medical certificate should be submitted immediately.
- No leave application will be accepted

### at a later date or after the examination.

- Theory and practical in each subject are considered two separate units.
- A student found guilty of using unfair means during the examination will be given deterrent punishment. He/ She may even be expelled from the Institute or disqualified from appearing in the University examination.

### INTERNAL ASSESSMENT AWARDS

PTU has prescribed the following guidelines regarding the award of Internal Assessment.

Theory : Mid Semester Tests-60%, Home Assignments- 12.5%, Tutorials-12.5% and Attendance-15%

Practical : Practical Performance -60%, Lab Report-12.5%, Viva Voce-12.5% and Attendance-15%.

## RAGGING IS A CRIME

### PUNISHABLE BY LAW

- In view of the directions of the Hon'ble Supreme Court in SLP No. 24295 of 2006 dated 16-05-2007 and in Civil Appeal number 887 of 2009, dated 08-05-2009 and AICTE notification F.No.37-3/Legal/AICTE/2009 to prohibit, prevent and eliminate the scourge of ragging; ragging in any form is banned in the institute. It is a criminal offence and FIR shall be registered against the student(s) indulging in this crime.
- Students in distress owing to ragging related incidents can access the Toll Free Helpline 1800-180-5522.
- The student and parents are required to furnish an affidavit as per format

available in the Admission Cell of the Institute.

- The contact numbers of Anti Ragging Squad/HODs/Chief Warden/Hostel wardens have been displayed at all prominent places in the institute. The students are free to contact on these numbers round the clock to report any incident related to ragging.

### Directives of the Supreme Court of India issued on May 16, 2007 (Select Extract)

- The punishment to be meted out has to be exemplary and justifiably harsh to act as a deterrent against recurrence of such incidents.
- Every single incident of ragging where the victim or his parent/guardian or the

Head of institution is not satisfied with the institutional arrangement for action, a First Information Report (FIR) must be lodged without exception by the institutional authorities with the local police authorities. Any failure on the part of the institutional authority or negligence or deliberate delay in lodging the FIR with the local police shall be construed to be an act of culpable negligence on the part of the institutional authority. If any victim or his parent/guardian of ragging intends to file FIR directly with the police, that will not absolve the institutional authority from the requirement of filing the FIR.

## CODE OF CONDUCT

In order to promote ethical behavior, the Institute requires every student to agree and abide by the Code of Conduct. The Code of conduct includes the following:

- Students should be regular and punctual in the classes.
- Attendance during the functions in the institute is compulsory for the students.
- Students are not supposed to leave the Institute during the classes.
- Students are expected not to wear gaudy, skintight, revealing dresses and skirts.
- Students should always keep their identity cards with them.
- Students must not give any gift to any employee of the Institute/Hostel/Mess/Canteen.
- Student should develop the habit of forming the queue.
- Student should maintain cleanliness in the campus.
- No student is allowed to involve the name and campus of the Institute in any publication or outside activity without prior permission of the Principal.
- Students must have mutual respect among themselves.
- Students are to maintain perfect discipline during educational tours, Industry Interaction visits, sports & cultural functions, youth festivals or any other functions organised by the institute.
- The possession/use of mobile phones by the students is not permitted within the campus; violation of this instruction can lead to confiscation of the mobile phone and imposition of fine.

### CAUTION

The parents of the outstation candidates are advised to avail the Institute's hostel facilities rather than seeking an accommodation outside the premises of the Institution. The boarding facilities in outside rented accommodations viz. PGs etc. are not quite conducive on account of safety, hygiene, food quality, power back-up, internet connectivity, economy, discipline and other amenities. The students not availing the Institute's hostel facilities shall be doing so at their own risk and responsibility.

## SCHOLARSHIPS

### IMPORTANT GUIDELINES FOR THE GRANT OF POST-MATRIC SCHOLARSHIP

Referencing the official communiqué of the Director Technical Education & Industrial Training of GoP vide its letter no. 136-636 dt. 14.03.2016, the following stipulations are appended below for the grant of POST-MATRIC SCHOLARSHIP for the academic session 2016-17:

- The Scholarship shall only be granted to the SC/ST/OBC students as per the directions of the Govt. of Punjab and IKG-PTU Kapurthala.
- The scholarship applicant must belong to the SC/ST category and be a resident of the state of Punjab.
- The family income of the applicant must not exceed Rs. 2.50 lac per annum.
- The applicant must pay the non-refundable compulsory fees.
- As per the nature of the course, the hostlers and day scholars belonging to SC/ST category are entitled for a monthly maintenance allowance of Rs. 380/- to Rs. 1200/- and Rs. 230/- to Rs. 550/- respectively.

#### Note:

All disputes subject to Jalandhar Jurisdiction

# FEE STRUCTURE 2016-17

## B.Tech, MBA & MCA

### A) Fees to be charged once only at the time of admission

1. Securities (Refundable)	
College Security	2000.00
Library Security	2000.00
2. Souvenir Fees	400.00
3. Institutional Membership Fees	100.00
4. Students Amenities/Development Fees	500.00
5. Identity Card Fees	100.00
6. Library Fees	500.00
7. Alumni Association Membership Fee	1000.00
<b>Total (A)</b>	<b>Rs. 6600.00</b>

### B) University Related Fees (Applicable to all categories)

1. University Continuation Fees	50.00
2. Youth Welfare Fees	100.00
3. Cultural & Allied Activity Charges	100.00
4. University Sports Facilities Development Fee	100.00
5. University Sports Fees	100.00
6. Magazine Fees	100.00
7. University Registration Fees	400.00
8. University Eligibility/ Enrollment Fees	200.00
<b>Total (B)</b>	<b>Rs. 1150.00</b>

### C) Annual Charges (Same for all categories)

1. Library Book Replacement	500.00
2. Magazine/Journals & Library Activity	600.00
3. Computing Facilities Development Fund	3200.00
4. Medical Examination & Health Care	700.00
5. Students Welfare/Aid Fund	1000.00
6. NSS Activity Fees	300.00
7. Periodical Exam/Test Fees	600.00
8. Stationery/Drawing Board Maintenance	400.00
9. Audio Visual Aid/Projection Fees	400.00
10. Games & Sports Fees	600.00
11. Club Fees	350.00
12. College Magazine Fund	300.00
13. Membership Fees of Professional Societies	700.00
14. Cultural Activity Charges	800.00
15. Industry-Institute Interaction Fees	1200.00
16. Educational / Industrial Tour	700.00
17. Social Welfare	1000.00
18. Medical Insurance	600.00
19. Internet Charges	1000.00
20. Training Placement Fee	1500.00
21. University Examination Fee	1400.00
<b>Total (C)</b>	<b>Rs. 17850.00</b>

### D) ANNUAL FEES

Indian Nationals	
Tuition Fees	Rs. 60000.00
Development Fund	Rs. 8600.00
<b>Total (D)</b>	<b>Rs. 68600.00</b>
<b>Total (A+B+C)</b>	<b>Rs. 25600.00</b>
<b>Grand Total (A+B+C+D)</b>	<b>Rs. 94200.00</b>

<b>First Semester</b>	<b>Rs. 59200.00</b>
<b>Second Semester</b>	<b>Rs. 35000.00</b>









\* Fee for NRI candidates shall be as per PTU Norms

\* Tuition/University related fees Subject to change as per Punjab Govt./PTU Norms.

\* Additional fee of Rs.500/- will be charged from final year students towards PTU document fee.



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