Delhi Technological University
(formerly Delhi College of Engineering)

Placement
Brochure 2016-2017

Contents

About
Delhi Technological University

"75 years of Tradition of excellence in Engineering & Technology Education, Research and Innovations" Delhi Technological University formerly known as Delhi College of Engineering, (initially established with the name – Delhi Polytechnic) came into existence in the year 1941 to cater the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge.

DTU defines and continues to update methods of engineering and innovation in India. It provides its students with modern educational facilities while retaining traditional values, as well as using its strong industrial contacts to mould young, talented individuals who can compete in the global arena. The aim of DTU is to rank among leading universities globally.

Vision

"DTU strives to become a leading world class technical university playing a significant role as a key node in national and global knowledge network and consequently empowering India in its quest to be among the top echelons of nations."

Mission

Our mission is to educate individuals to be competitive not only in India, but all over the world. Within an intensely competitive environment, the university has adopted a dynamic, global, high-quality; creative and communicative approach in education, as well as research and development.

B.Tech
Seat Matrix

S.NO	DEPARTMENT NAME	NO. OF SEATS
1	Bio Technology Engineering	29
2	Civil Engineering	126
3	Computer Engineering	146
4	Electrical Engineering	147
5	Electrical and Electronics Engineering	100
6	Electronics and Communications Engineering	195
7	Engineering Physics with majors in Electronics	95
8	Environmental Engineering	60
9	Information Technology Engineering	100
10	Mechanical Engineering	194
11	Mechanical and Automotive Engineering	94
12	Mathematics and Computing Engineering	94
13	Polymer Science and Chemical Technology Engineering	62
14	Production and Industrial Engineering	48
15	Software Engineering	94
Total Students		**1584**

MOU signed

- MoU with Samsung Electronics (INDIA).
- MoU with LaTrobe University, Australia.
- MoU with National University of Singapore.
- MoU with National Physical Laboratory.
- MoU with Nanyang Technological University (NTU),Singapore.
- MoU with Indian Institute of Petroleum, Dehradun.
- MoU with Delhi Metro Rail Cooperation.
- MoU with INMAS, DRDO (Ministry of Defence)

MBA
Seat Matrix

Technical Specializations	Functional Specializations	Intake
Knowledge and Technology Management	Human Resource	90
Supply Chain Management	Finance	
Information and Technology Management	Marketing	
Total (Masters of Administration Program)		**90**

M.Tech
Seat Matrix

S.NO	DEPARTMENT NAME	PROGRAM NAME	NO. OF SEATS
1	Applied Chemistry	Polymer Technology	14
2	Applied Physics	Nano Science and Technology	10
		Nuclear Science and Technology	4
3	Bio Technology	Bioinformatics	12
		Bio Medical Engineering	12
		Industrial Bio Technology	15
4	Civil Engineering	Geotechnical Engineering	20
		Hydraulics & Water Resource Engineering	17
		Structural Engineering	20
5	Computer Engineering	Computer Science & Engineering	21
		Software Engineering	20
		Information Systems	21
6	Electronics and Communications Engineering	Microwave and Optical Communication	20
		Signal Processing & Digital Design	21
		VLSI Design & Embedded System	20
7	Electrical Engineering	Control & Instrumentation	20
		Power System	20
8	Environmental Engineering	Environmental Engineering	18
9	Mechanical Engineering	Computational Design	17
		Production Engineering	22
		Renewable Energy Technology	17
		Thermal Engineering	21
Total Students			**381**

Solar Car in October 2011 participated in the World Solar Challenge held in Australia

DTU team has developed the Next Generation Unmanned Arial Vehicle for urban applications in collaboration with Lock-heed Martin of US

B.Tech
Under Graduate Programme

Biotechnology Engineering

The Department of Biotechnology has been making its mark through its interdisciplinary teaching approach. The Department's programme encompasses various basic aspects of modern biotechnology as well as multidisciplinary studies incorporating biomedical research and bioinformatics. The curriculum mandates object oriented programming, data structures and programming in SQL.

Computer Engineering

Computer Engineering focuses on the present and future needs of the computer industry. The curriculum lays emphasis on Algorithms Design and Analysis, Advanced Data Structures, Operating Systems, Database Management Systems, Artificial Intelligence that enable students to build optimized solutions needed in the industry. Every year top ranked students from the national exam join the Computer Engineering department.

Civil Engineering

The department is one of the most sought after centres of knowledge with a highly experienced faculty, an immense research potential and laboratories equipped with the latest instruments in the fields of structural analysis, concrete testing, geomechanics, soil testing, highway engineering, hydraulics, experimental stress analysis and surveying.

Electrical and Electronics Engineering

This branch encompasses the domain of both electrical and electronics engineering. In depth coverage of core subjects like microcontrollers and embedded systems, computer architecture, communication systems, Digital Signal Processing, VLSI along with electrical machines, power system and its quality measurement, electric drives are integral part of the curriculum.

Electrical Engineering

Emphasis is laid on computer based assignments through Modeling & Simulation (MATLAB) of various electrical systems in well-equipped laboratories. The Department offers diverse areas of research including Electrical Drives, Intelligent Control, Smart Grids, Power Quality, Hybrid Electric Vehicles, Renewable Energy Sources and more. Students are equally well exposed to field of Electronics like Microcontroller and Computer Architecture.

Electronics and Communications

The Department of Electronics and Communication has grown leaps and bounds over the last 38 years to become one of the most respected academic departments in its field in the entire country. The current graduating batch of students has filed 6 patents in the previous year itself and published scores of internationally acclaimed research papers along with securing prestigious international internships. The department has established ties with leading lights of the industry.

Engineering Physics with majors in Electronics and Communication Engg.

B.Tech Engineering Physics with majors in Electronics is designed for students who have an interest in an aptitude for both physics and engineering. The engineering physics department lays strong theoretical base and high tech Labs for areas of physics, digital electronic, embedded systems, VLSI and FPGA, digital and analog communication systems, optical fiber communications as an integral part of its curriculum.

Environmental Engineering

Students are given a thorough understanding of diverse topics like Soil Mechanics, GIS & Remote Sensing, Students are given a thorough understanding of diverse topics like Soil Mechanics, GIS & Remote Sensing, Project Management, Enviromental Hydraulics and Water Engineering that caters to the needs of Civil, Chemical, Petroleum, Pulp & Paper, Textiles, Metallurgical, Mining, Automobile and Energy sector Industries.

Information Technology

Emphasis of IT is to equip students with fundamental concepts and tools such as multimedia and graphics, analog and digital communication, and computer communications.

Mathematics and Computing Engineering

The program is an amalgamation of mathematics with computer science and financial engineering. The prospect of this course lies in core engineering industry, software industry, analytics and financial sector with students holding expertise in Operations Research, Financial Engineering, Scientific Computing, Graph Theory and Mathematical Modelling and Simulation.

Mechanical Engineering

One of the founding departments, the Mechanical Engineering Department served as a role model for many academic institutes in the country and has a great network of Alumni working in the industry. It is arguably the most aspired branch of engineering and attracts some of the brightest minds each year. The department possesses modern laboratories equipped with latest experimental set-ups and research facilities and boasts of a number of student technical projects and research papers each year.

Mechanical and Automotive Engineering

The branch although new has a very traditional yet modern curriculum. We believe in not just studying the subject but also employing the knowledge we gain into practical work. Being a part of various teams like Mini Baja, Go kart, Formula Hybrid, Formula SAE, various vehicles have been developed. With inclusion of Management subjects, the students of this branch are all inclusive, all rounded candidates.

B.Tech
Under Graduate Programme

Polymer Science and Chemical Engineering

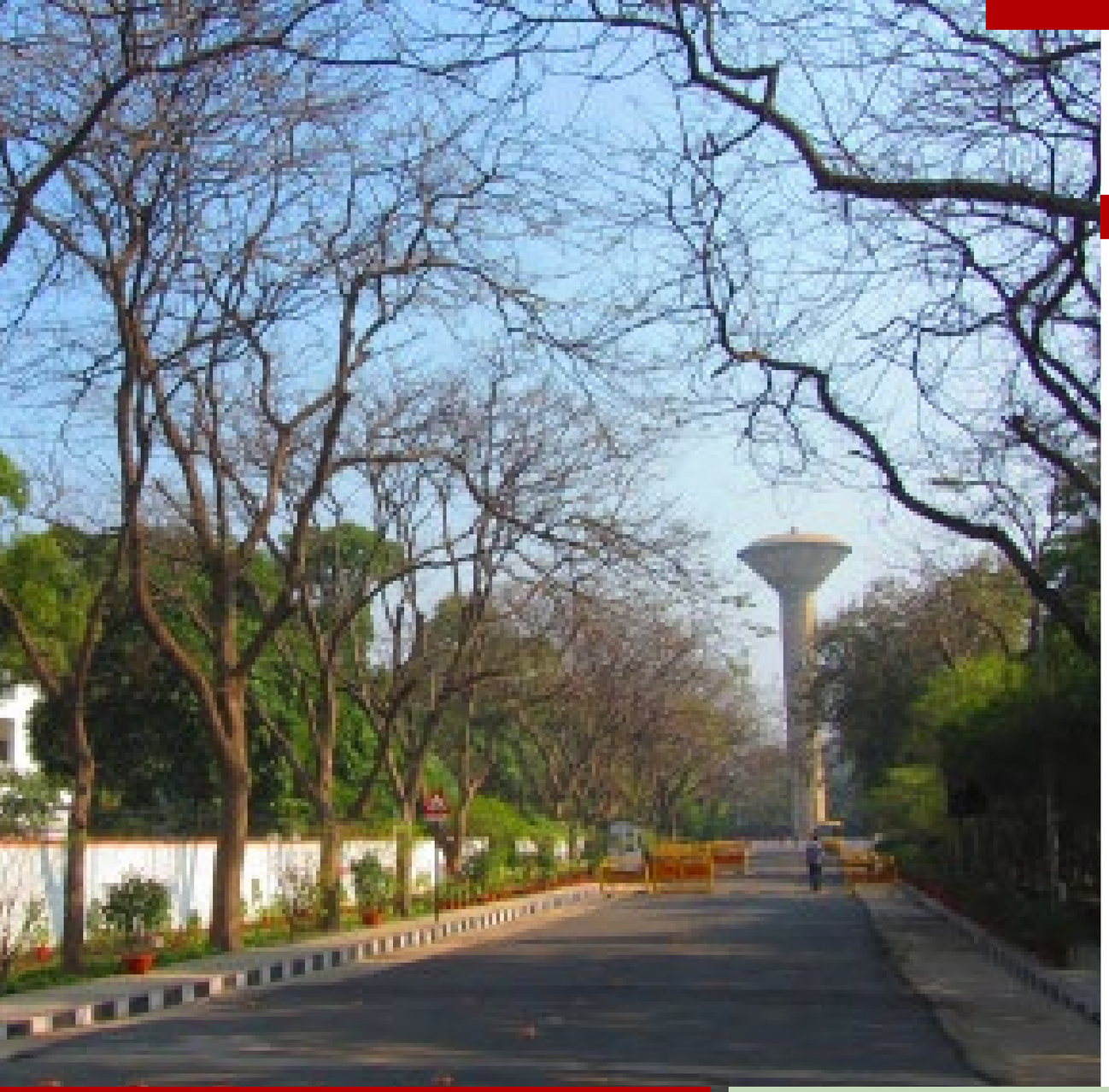
One of the oldest branch of DTU that has been continuously nurturing and polishing the skills of young talent to make them expert in the field of Chemical Engineering and Polymer Science. Students are provided in depth practical knowledge of subjects like Mass Transfer, Process Control , Economics, Industrial Organization and Management , Polymer Processing, Packaging Technology, Tire Technology and many more core subjects.

Production and Industrial Engineering

PIE has emerged as a specialized branch of Mechanical Engineering with an objective of enabling engineers to improve efficiency and effectiveness of both manufacturing and service sector industries. The curriculum equips students with technical, analytical and managerial skills with emphasis on subjects such as thermal systems, metal cutting, production planning and control, operations management, supply chain management.

Software Engineering

The growing software industry has enormous potential for engineers. Software engineering tries to prepare its students for catering to these needs by focusing not only on software development but also, on other important aspects like software testing and validation, database management, algorithm design, artificial intelligence and data mining. This branch is an amalgamation of both the software development process and heuristics which are needed in the industry. This provides an equal exposure to application of knowledge to practical situations thereby enriching the experience of students.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VLSI And Embedded System:

VLSI AND EMBEDDED SYSTEM deals with latest VLSI design techniques, power reduction methods, Digital system design and fault detection, Embedded system designing. And for this purpose the department has well developed laboratories such as VLSI CAD lab, VHDL and VERILOG lab, DSM lab, embedded system design lab (ARM processor and PIC microcontroller).

Signal Processing And Digital Design:

Signal Processing and Digital deals with learning signal and image processing algorithms and applying them to the real world using digital design techniques which are useful in the cutting edge technologies like embedded processors, GPUs, OMAP, SoCs. The Department is equipped with well developed laboratories, such as Advance Digital Signal Processing lab, Image Processing and Object Tracking Lab, VHDL Lab, Embedded System Design Lab.

Microwave and Optical Communication:

M Tech in MOCE is offered from Electronics and Communication Engineering Department in association with Applied Physics Department. This program equips young engineers and scientist to design, develop and innovate configuration of microwave and optical fiber based telecommunication systems and networks. The departments are equipped with well-developed laboratories for this program.

DEPARTMENT OF BIO-TECHNOLOGY

Industrial Bio-Technology:
Industrial bio-technology at DTU aims to solve industrial challenges by innovative ideas. This course consists of subjects like Bioprocess engineering, Food technology, Bio-Pharmaceuticals, Bio- Instrumentation and Environmental Biotech which are extensively applied in industries like FMCGs, Core Biotech, Pharmaceutical industries and Distilleries.

Biomedical Engineering:
Biomedical engineering aims at developing engineering strategies to promote innovations in medical technologies and solve challenging problem in medicine and facilitate translation of technology to clinical healthcare. Biomedical deals with Medical devices & equipment, biomedical Signal & image processing, clinical diagnostics, biosensors, nanotechnology, Prosthesis-orthotics & various allied Healthcare Services.

Bioinformatics:
Despite the apparent fatigue of the linguistic use of the term itself, bioinformatics has grown to a point perhaps beyond its recognition and infrastructures for the computational analysis of biological systems are expanding and moving from research labs into mainstream. Students are trained in the area of protein modeling, CADD, Neurogenomics, Machine learning, Protein interaction networks and immune informatics.

DEPARTMENT OF APPLIED PHYSICS

Nuclear Science and Engineering:
The programme provides research and development expertise in the experimental and theoretical studies of fusion and plasma physics, radio isotope applications in manufacturing engineering, computer aided tomography, reactor safety studies, heat transfer in nuclear sub-systems, and development of radiation detectors.

Nano Science and Engineering:
The curriculum has been designed in a manner so that students are trained to various aspects of Nano materials, their latest development, synthesis and characterization including the design and development of Nano scale optical and electronic devices. This program equips young engineers and scientist to excel in the emerging areas of Nano science and technology.

M.Tech
Post Graduate Programme

DEPARTMENT OF APPLIED CHEMISTRY

Polymer Technology:
The course has been designed to prepare candidates for taking up challenges of production and R&D needs in rapidly advancing polymer technology. The curricular structure lays equal emphasis on basic sciences and polymer science and technology.

MECHANICAL ENGINEERING DEPARTMENT

Renewable Energy Technology:
The role of renewable energy has been increasing significantly in recent times with the growing concern for the country's energy security and aim to achieve a sustainable environment. The curriculum is designed to give students in depth knowledge of Renewable Energy Resources (Solar, Hydro, Wind, Bio-fuels, Biogas etc.), Energy Audits, Energy Efficiency , Power Electronics, Thermal Engineering etc. along with hands on experience with in house fully functional Bio-diesel Lab, Solar energy Lab, Power Electronics lab ,100kW Solar PV Plant.

Production Engineering:
Research and development is facilitated by NT enabled workstations and competitive robots with digital controller. The department has a modern workshop equipped in Fitting, Machine shop and facility of welding shop comprises of pulse TIG, ultrasonic welding and submerged arc welding, Friction stir welding etc.

MECHANICAL ENGINEERING DEPARTMENT

Thermal Engineering:
Thermal Engineering offers advance studies & research in Fluid Mechanics, Turbo machinery, Heat transfer, Thermodynamics, Refrigeration and Air Conditioning, IC Engines. The department possesses modern labs and research facilities such as AUTOCAD, CFD, FLUENT etc. CASRAE is a high-tech bio-fuel research centre and provides international exposure to the students. Students are enthusiastic, research oriented and hard working.

Computational Design:
Computational Design Course has been started to serve Government, and various MNCs through R & D of advanced computational Mechanics, modeling, simulation, and design of physical systems. In this course students deal with Optimization, FEM, Simulation, Reliability, Tribology, Robotics, Fracture Mechanics, CFD, Automotive System Design etc. with the experience on various Designing, Analysis and Simulation Software.

M.Tech
Post Graduate Programme

COMPUTER ENGINEERING DEPARTMENT

Software Engineering:
The course is designed to serve a wider IT community by creating diverse educational opportunities. It deals with the development, utilization, interlocking and confluence of computers, networking, telecommunication, business and technology management in the context of Software development.

Computer Engineering:
This branch imparts state-of-the-art education and is well known for its new age research. We have a bright, forward-looking student population. All of these features put us in an advantageous position to develop the finest software engineers who can compete at an international level.

Information Technology:
The objective is preparing quality professionals and researchers to work at high-end technologies in IT, the Institute provides very specialized courses, such as specialization in Human Computer Interaction, Bioinformatics, Wireless Communication and Computing, Microelectronics, Robotics, Software Engineering and Intelligent Systems.

ELECTRICAL ENGINEERING DEPARMENT

Power Systems:
The branch focuses on innovations to make power supply cheaper, reliable and flexible through the well equipped Simulation lab and Power System Operation and Control lab. Simulation Lab also has collaboration with Delhi Metro Rail Corporation.

Control & Instrumentation:
“The design, construction, and provision of instruments for measurement, control, etc. the state of being equipped with or controlled by such instruments collectively”. A C&I engineer is responsible for designing, developing, installing, managing and/or maintaining equipment, which is used to monitor and control engineering systems, machinery and processes.

(Batch Strength - 90)

About DSM

Delhi School of Management was established in 2009, with the up-gradation of Delhi College of Engineering into Delhi Technological University, to keep in sync with the global scenario and with a vision of producing **techno-managers** who strive to become future leaders.

In just 5 years of its inception, DSM has surged ahead of many B-schools and entered the premier B-School league. It has been **ranked 24th** all over India by **Times group in association with Nielsen.** In addition, DSM has been ranked 8th in Northern Zone of India. DSM has also been ranked 7th for following parameters, among top 150 Indian B-Schools: Value for Money, Global Exposure, and Brand Value.

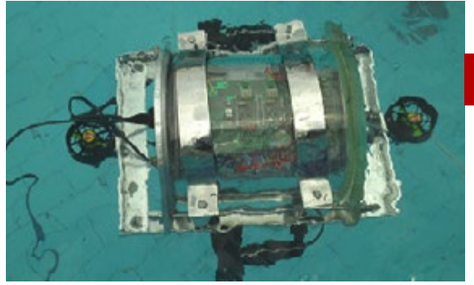
The students are selected for the two years full time MBA Programme using rigorous criterion which includes an excellent **CAT score**, a proven academic and professional track record, and a thoroughly incisive interview which explores various dimensions of a student's personality. The USP of DSM's MBA Programme is its **Dual Specialization**. First two semesters focus on developing a strong foundation and right attitude essential for Management. Next two semesters provide the choice of one specialization from Technical and Functional areas of management.

Courses offered in Technical Specialization are in the areas of :-

- Information and Technology Management
- Supply Chain Management
- Knowledge and Technology Management

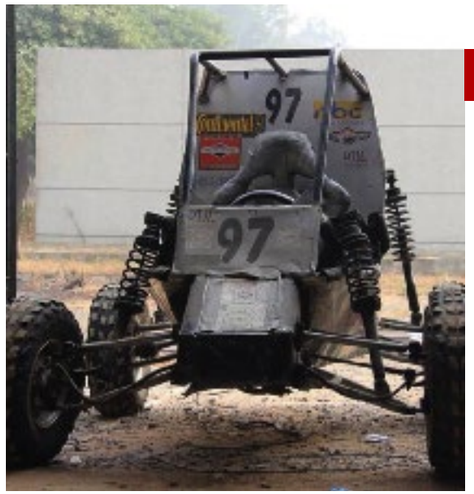
Courses offered in Functional Specialization in the areas of :-

- Finance
- Human Resources
- Marketing



Autonomous Underwater Vehicle

DTU AUV is a team of undergraduate students of Delhi Technological University devoted to developing completely indigenous autonomous underwater vehicle and reduce India's reliance on foreign AUVs



DelTech Baja

DelTech Baja is an elite team that designs, engineers and manufactures vehicles worthy of facing the perilous off road trails that Baja exposes them to. Started off in 2003 as "Team Resistance", DelTech Baja is the oldest Baja SAE team in India and was **one of the first teams from Asia** to participate in overseas events (South Africa and USA). The DelTech Baja boasts of rich legacy that is supported by a large number of accolades and awards gathered since its inception.

Defianz-Racing

Team Defianz Racing at DTU is known for developing, designing and manufacturing a formula style racing car that competes at the Formula Student Competition at Silverstone Circuit, UK with over 160 teams from all over the world.While the team secured **6th position** in Design in FS India, The team bagged second position overall in Asia in FSUK '14.

Unmanned Aerial System

UAS-DTU is a team of undergraduate students of Delhi Technological University, devoted to developing indigenous technological solutions for UAVs. The ultimate goal of the team is to reduce India's reliance on COTS products and foreign UAVs. The Team, under mentorship and funding from Lockheed Martin, is the first to develop a Next Generation Urban UAS - Aarush X1, that is tailor- made for surveillance in urban jungles like Delhi and Mumbai.The team annually participates in AUVSI's SUAS competition, and bagged **3rd position** overall and **1st in FRR at SUAS 2014 competition in Maryland, USA.**

Team Raftaar

Started in 2014, **Team Raftaar**, DTU, build recumbent bicycles and innovate them towards perfection, to elevate them to a competitive platform. The team bagged first position in design as well as overall in India, in the recently held Human Powered Vehicle Competition' India, organized by ASME.

Achievements (2015)

Highest Placement Package

International Package: 1.27 Cr PA

Domestic Package: 30 LPA

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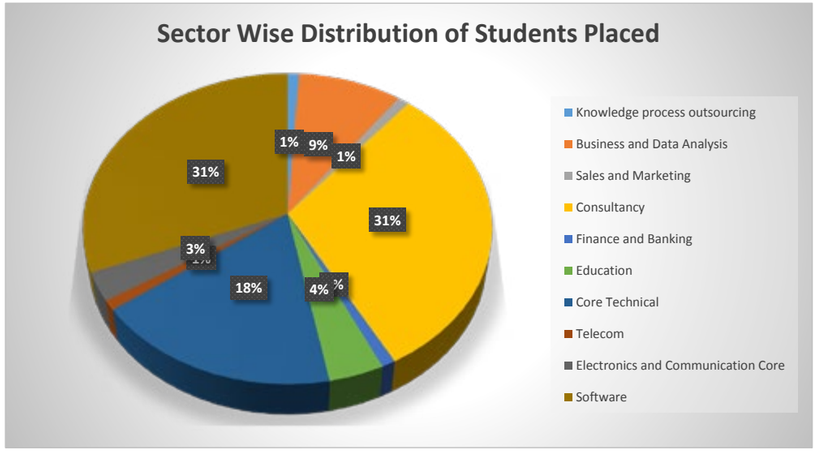
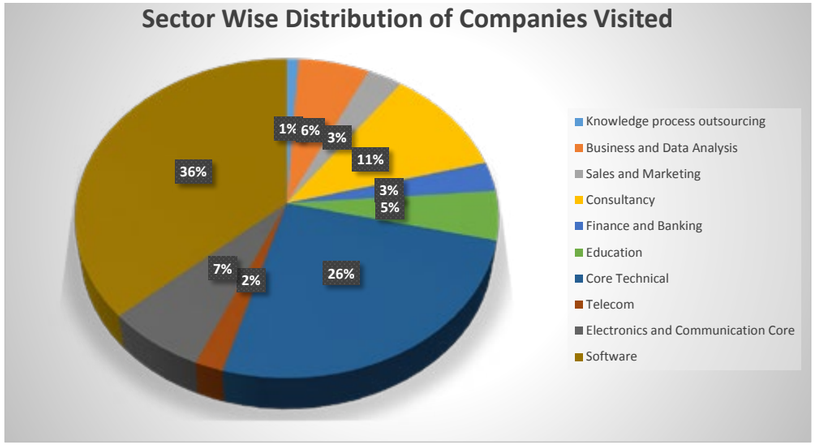
DIRECTORY OF BEST COLLEGES 2016: ENGINEERING

STREAM: ENGINEERING

Rank	NAME OF THE COLLEGE	Address	Phone No	College Website	Established	Seats	2012 Cut-off Percentage
1	Indian Institute of Technology(IIT) - Kanpur	PO IIT Kanpur, Kalyanpur,Kanpur,208016	0512-2597669/2597374	www.iitk.ac.in	1960	809	Entrance Test
2	Indian Institute of Technology(IIT) - Kharagpur	Office of AA&IR IIT ,Kharagpur,721302	03222-255221/282236	www.iitkgp.ac.in	1951	1242	Entrance Test
3	Birla Institute of Technology and Science (BITS, Pilani) - Pilani	Vidya Vihar,Pilani,333031	01596-515500/515247	www.bits-pilani.ac.in	1964	2273	Entrance Test
4	Vellore Institute of Technology(VIT) - Vellore	Thiruvallam Road,Katpadi,Vellore,632014	0416-2243091/2202030/2202112	www.vit.ac.in	1984	4289	Entrance Test
5	Delhi Technological University - Delhi	Bawana Road, Near Sector-7, Shahbad Daulatpur,Delhi,110042	011-27871043/27871018	www.dce.ac.in	1941	1527	Entrance Test
6	Indian Institute of Technology, Banaras Hindu University (IIT, BHU) - Varanasi	Varanasi,Varanasi,221005	0542-2368427/28/6701808	www.iitbhu.ac.in	1919	901	Entrance Test

Placement Statistics (2015)





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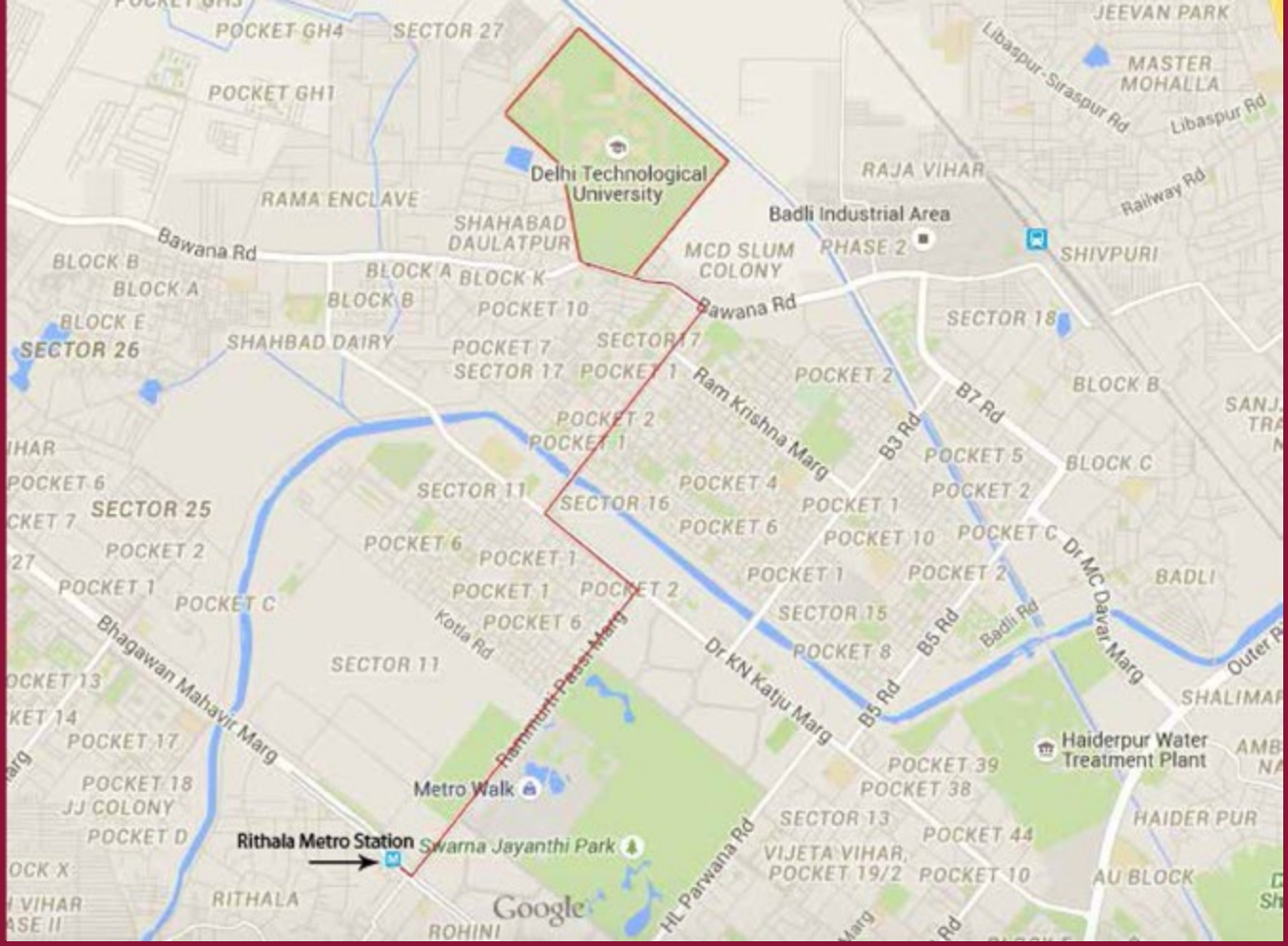

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