



# DELHI TECHNOLOGICAL UNIVERSITY

(Formerly DCE)

PLACEMENT BROCHURE 2015



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# About DTU

"73 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. Consequently, DTU's 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.

## Vision:

"DTU to become a leading World Class Technology University playing its role as a key node in National and Global Knowledge Network thus empowering India with the Wings of Knowledge and Power of Innovations."

# B. TECH SEAT MATRIX

S. No.	DEPARTMENT NAME	NO. OF SEATS
1	Bio Technology	27
2	Civil Engineering	104
3	Computer Engineering	130
4	Electrical Engineering	125
5	Electrical and Electronics Engineering	87
6	Electronics and Communication Engineering	172
7	Engineering Physics with majors in Electronics	80
8	Environmental Engineering	40
9	Information Technology	87
10	Mechanical Engineering	175
11	Mechanical and Automotive Engineering	86
12	Mathematics and Computing	83
13	Polymer Science and Chemical Technology	49
14	Production and Industrial Engineering	44
15	Software Engineering	83
<b>TOTAL STUDENTS</b>		<b>1367</b>

# M. TECH SEAT MATRIX

S. No.	DEPARTMENT NAME	PROGRAM NAME	NO. OF SEATS
1	Applied Chemistry	Polymer Technology	20
2	Applied Physics	Nano Science & Technology	18
		Nuclear Science & Engineering	20
3	Bio Technology	Bioinformatics	20
		Bio Medical Engineering	18
		Industrial Bio technology	18
4	Civil Engineering	Geotechnical Engineering	20
		Hydraulics & Water Resources Engineering	19
		Structural Engineering	20
5	Computer Engineering	Computer Science & Engineering	20
		Software Engineering	20
6	Electronics & Communication Engineering	Microwave and Optical Communication (Run jointly with Applied Physics Department )	20
		Signal Processing & Digital Design	20
		VLSI Design and Embedded System	20
7	Electrical Engineering	Control & Instrumentation	20
		Power System	20
8	Environment Engineering	Environmental Engineering	20
9	Information Technology	Information System	20
10	Mechanical Engineering	Computational Design	18
		Production Engineering	20
		Renewable Energy Technology	18
		Thermal Engineering	20
<b>TOTAL STUDENTS</b>			<b>429</b>

# Under Graduate Programme (B.Tech.)

## 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 major engineering groups with extensive research, development and field experience inside and outside the campus. The department is bejeweled with new age laboratories, well equipped with modern instruments and machines. The department has Laboratories comprehending to structural analysis, concrete testing, soil mechanics, highway engineering, experimental stress analysis, hydraulics 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 Communication Engineering**

The Department of Electronics & Communication Engineering has seen a significant growth over the last 36 years, especially, because of the rapid advances in electronics, communications and computer engineering. The department has developed a center for excellence and relevance in optical communication i.e. TIFAC CORE Center in Fiber Optics & Optical Communication. The society of robotics under ECE department has recently got a project from DMRC.

## **Engineering Physics with majors in Electronics and Communication Engineering**

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, Project Management, EIA, EHS, Climate Change, Air, Soil, Water and Noise Quality Monitoring-Assessment-Management 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 department of applied mathematics offers a four year B.Tech course in Mathematics and Computing Engineering. The course covers the field such as Computer science, Engineering Computations, Financial Computations and of course a profound knowledge of Mathematics. The prospect of the course lies in core engineering industries, software industry, analytics and financial sector.

## **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.

## **Polymer Science and Chemical Technology**

Emphasis is laid on Chemical Engineering, Rubber Technology, Packaging Technology, Basic Electronics, Instrumentation and Process Control, Textile Technology, Polymer Product Design, Specialty Polymers, Process Equipment Technology, Tire and Footwear Technology, Environmental Hazard & Pollution Control, Moulds& Die Design, Economics, Industrial Organization and Management.

## **Production and Industrial Engineering**

PIE, as a branch provides exposure to the students to numerous manufacturing techniques like welding, foundry, metal cutting, computer integrated techniques, advanced machining processes, managerial subjects like production and operations management, production planning and control, quality management, supply chain management are thoroughly discussed.

## **Software Engineering**

Software Engineering focuses on the future needs of software industry in the areas of design case tools, development of software testing techniques and tools, and design of quality software. The curriculum lays greater emphasis on areas such as Software Verification, Validation and Testing Design Guidelines, Software Quality Database Management Systems and Data Mining to enable the design low cost maintainable software.



# Post Graduate Programme (M.Tech.)

## **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.

## **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**

### **Thermal Engineering**

Thermal Engineering offers advance studies & research in Fluid Mechanics, Turbo machinery, Heattransfer, 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.

### **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. The students are given hands on experience on CNC Drilling & CNC lathe machine etc.

### **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

### **Renewable Energy Technology**

The students here are called Recharging Earth Technocrats (RET). The curriculum is designed to give students in-depth knowledge of Renewable Energy Resources (Solar, Hydro, Wind, Bio-fuels, Biogas etc.), Conventional Energy Resources, Energy Audits, Energy Management, Power Electronics, Thermal Engineering etc. along with hands on experience with in house fully functional Bio-diesel Lab, Solar energy Lab, 100kW Solar PV Plant.

## **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.

## **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 DEPARTMENT**

### 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.

# Post Graduate Programme (MBA)

(Batch Strength- 76)

## 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 24<sup>th</sup>** all over India by **Times group in association with Nielsen**. In addition, DSM has been ranked 8<sup>th</sup> in Northern Zone of India. DSM has also been ranked 7<sup>th</sup> 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

# INNOVATIONS

## UAS-DTU

Unmanned Aerial Systems- Delhi Technological University (UAS-DTU) is a team of undergraduate students, focusing on the development of a new generation of low-cost indigenous technological solutions for UAV's made for intelligence, surveillance and Reconnaissance. UAS participated in the annual AUVSI Student UAS competition, in which it ranked 3<sup>rd</sup> in 2012, its best ever performance.



## SOLARIS

Solaris is one of the most prestigious projects at DTU, a pioneer in the field of innovations. We aim to develop a new age solar car, thereby marking a new beginning in the field of solar automobile technology. We have been credited with developing India's first solar car in 2006 and India's first passenger solar car in 2012, inaugurated by Honorable President of India Pranab Mukharjee, among other achievements.



## DTU-MINI BAJA

Mini Baja is an elite team that designs, engineers and manufactures vehicles worthy of facing the perilous off road trails that Baja exposes them to. The DTU-Mini Baja boasts of rich legacy that is supported by a large number of accolades and awards gathered since its inception as DCE Mini Baja.



## DEFIANZ-RACING

The Defianz Racing Team of the Delhi Technological University (formerly Delhi College of Engineering) is known for developing, designing and manufacturing every year 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.



# Societies and MoUs

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

DTU team has also developed the Next Generation Unmanned Aerial Vehicle for urban applications in collaboration with Lockheed Martin of US

Further International Professional societies like IEEE, SAE, IET, SPIE and Indian Societies like ASME, ASCE, SCEE, CSI, SITE, SSE, DEPTH, SME maintain an active presence at Delhi Technological University, lending knowledge, experience and opportunity to the students. Seminars and Symposiums are regularly held allowing for exchange of Ideas, Exposure to new developments and serving as avenues for paper presentation

Through these societies, students of Delhi Technological University regularly participate in various competitions at the international level bringing further laurels to the institution.

## 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)

# SOME PAST RECRUITERS





# ALUMNI NETWORK

## • Vinod Dham

1971 ECE  
Designer of Pentium Chip

## •Raj Soin

1969 Mechanical  
Chairman, Soin International, Ohio USA

## •K.L. Chugh

1960 Mechanical  
Former CMD of ITC

## •Ajoy Choudhary

1958 Architecture  
Eminent Architect

## •Anil Sardana

Managing Director  
TATA Power Ltd.

## •Dr.Durga Das Agrawal

1967 Mechanical  
President and CEO, Piping Technology and Products,  
Houston

## •Prof. Bhuvanesh Goswami

1959 Textile  
Distinguished Alumni Professor, University of Clemson  
(USA)

## •Prof. Yogi Goswami

1969 Mechanical Distinguished Professor of Solar  
Energy Technology, University of Florida (USA)

## •Arun Goyal

IAS, Minister and Commerce and Industry,  
Indian Embassy  
Tokyo (Japan)

## • Yogesh Sud

1969 Mechanical  
NASA Gold Medalist, Scientist, Suryakant  
Vice-President and Head, TCS America (USA)

## • A.K. Puri

1975 Mechanical  
Former CMD, BHEL

## • A.K. Baweja

Former CMD  
Hindustan Aero Limited

## • Sanjeev Ahuja

Former Chairman  
Orange SA

## • Ashwani Kumar

CMD  
Bharat Electronics Limited

## • A.K. Purwaha

CMD  
Engineers India Limited

## • Dr. Krishan Kumar

Director (Technical)  
Maruti-Udyog limited

## • Karnail Singh

IPS, DGP  
Mizoram Police

## • Satish Kumar

Director  
Delhi Metro

## • Prof. Phanish Puranam

Professor  
London Business School

# ACHIEVEMENTS

## Highest Placement Package

**International Package: 93 LPA**

**Domestic Package: 28 LPA**

### Top 10 Govt Colleges

Rank	Name of institute	City	Overall score
1	IIT	Kharagpur	887.2
2	IIT	Delhi	878.9
3	IIT	Mumbai	874.4
4	IIT	Kanpur	872.6
5	IIT	Chennai	861.8
6	IIT	Roorkee	858.5
7	IT-BHU	Varanasi	857.6
8	Delhi Tech. University	New Delhi	839.0
9	NIT	Tiruchirapalli	809.5
10	ISMU	Dhanbad	720.5

### Top 10 Engineering Colleges In Selection Process

Rank	Name of institute	City	Score (227)	Total score (1,000)
1	IIT	Delhi	207.60	878.90
2	IT-BHU	Varanasi	207.10	857.60
3	IIT	Roorkee	203.40	858.50
4	IIT	Mumbai	203.30	874.40
5	IIT	Kanpur	199.20	872.60
6	IIT	Chennai	197.71	861.80
7	Delhi Tech University	Delhi	197.66	839.00
8	IIT	Kharagpur	195.50	887.20
9	BITS	Pilani	192.10	853.40
10	NIT	Tiruchirapalli	184.00	809.50

### Top 10 Engineering Colleges In Placement

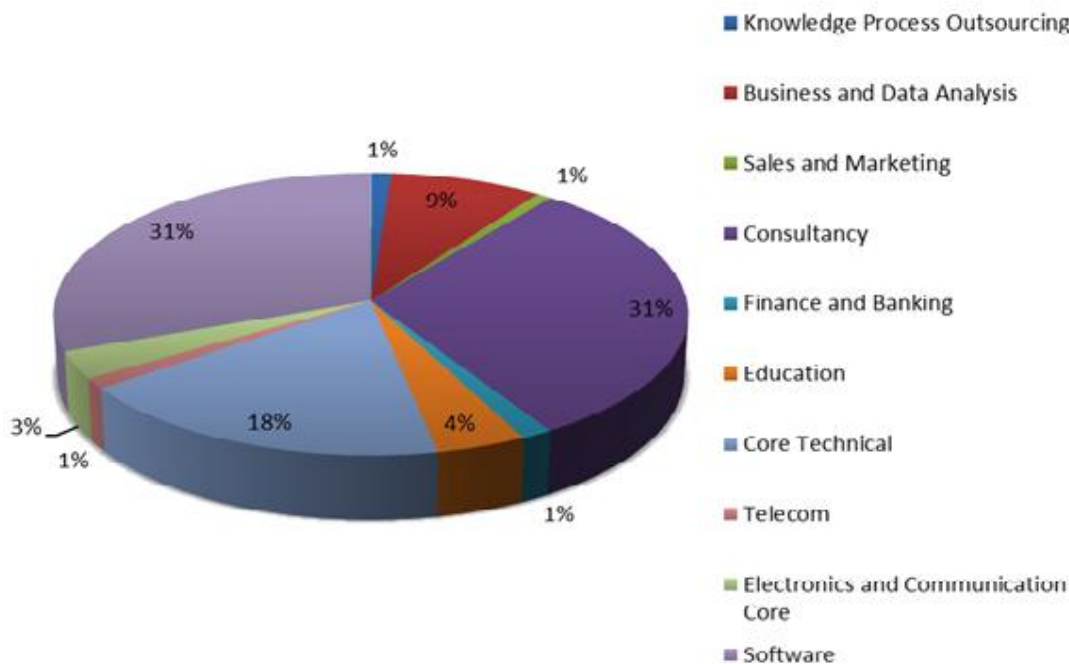
Rank	Name of institute	City	Score (180)	Total score (1,000)
1	IIT	Kharagpur	174.50	887.20
2	IIT	Mumbai	168.10	874.40
3	Delhi Tech University	Delhi	167.10	839.00
4	IIT	Delhi	164.70	878.90
5	IIT	Roorkee	161.10	858.50
6	IT-BHU	Varanasi	160.60	857.60
7	NIT	Tiruchirapalli	160.00	809.50
8	IIT	Chennai	159.80	861.80
9	IIT	Kanpur	157.70	872.60
10	ISMU	Dhanbad	141.50	720.50

### Top 10 Engineering Colleges In Personality Devt & Ind Interface

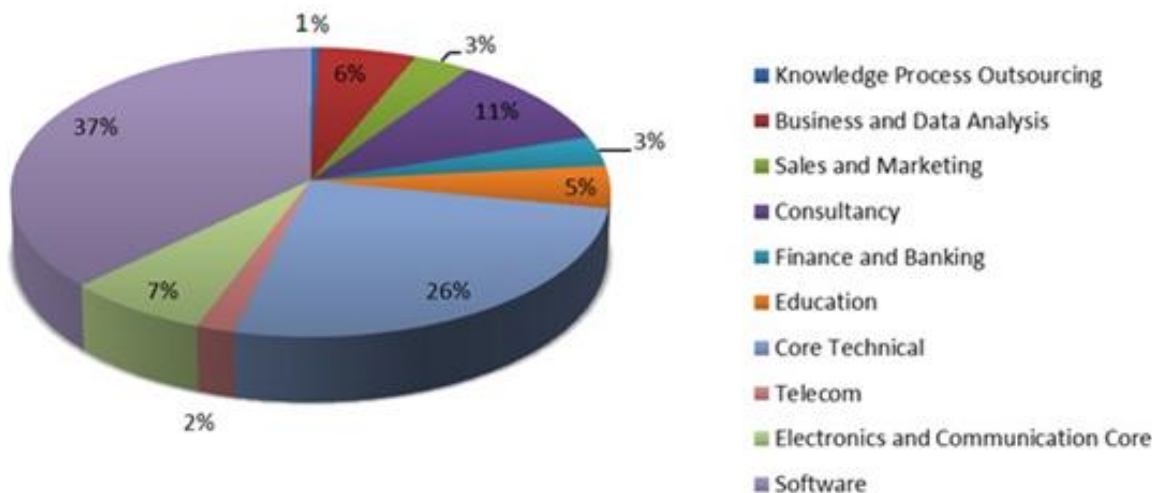
Rank	Name of institute	City	Score (173)	Total score (1,000)
1	BITS	Pilani	158.90	853.40
2	IIT	Chennai	153.90	861.80
3	IIT	Kanpur	140.22	872.60
4	IT-BHU	Varanasi	140.18	857.60
5	Delhi Tech University	Delhi	140.16	839.00
6	IIT	Delhi	137.20	878.90
7	IIT	Kharagpur	134.90	887.20
8	IIT	Roorkee	130.60	858.50
9	NIT	Tiruchirapalli	128.80	809.50
10	IIT	Mumbai	128.60	874.40

# Placements Statistics (2014)

## Sector Wise Distribution of Students Placed



## Sector Wise Distribution of Companies Visited



# Contact Details



## TRAINING AND PLACEMENT DEPARTMENT

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