G. B. PANT GOVT. ENGINEERING COLLEGE

www.gbpce.edu.in

PLACEMENT BROCHURE

"Evolving Brilliance and Rising to glory"

Maa Anandmai Marg, Okhla Phase-III, New Delhi-110020

British Certifications Inc.

This is to Certify that the Management System of:

G.B. PANT GOVT. ENGINEERING COLLEGE
Okhla Industrial Estate, Phase-III, New Delhi-110 020, India

has been assessed and found to comply with the requirement of

ISO 9001:2008
The Quality Management System is Applicable to

Providing Quality Technical Education For B.Tech. in Mechanical & Automation Engineering, Electronics & Communication Engineering, and Computer Science Engineering.

Certificate No : 11785

Date of Issue : 06.06.2014

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Date of Expiry : 05.06.2017

1st Surveillance Audit : December - 2014
2nd Surveillance Audit : December - 2015

MD/CEO

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VISION

The vision of G B Pant engineering college is to produce a society grounded in technological advancement, social justice and equality by combining knowledge, creativity, ethics and co-operation.

MISSION

The mission of G B Pant govt. engineering college is the advancement of knowledge by educating students in Engineering Sciences, Applied Sciences and Humanities. By following a holistic and inter-disciplinary approach, we believe in producing Engineers who would serve the country and the world in the 21st century.

The eminent faculty of the institute is committed in generating knowledge and disseminating it to the students, thereby nurturing them to become torch bearers of knowledge. By combining academic rigour and excitement of discovery in the subject, the faculty is committed to producing students who would become embodiments of intelligence of both theory and practice. The college is committed to the overall development of the students, making them fine citizens dedicated to the betterment of the society.

ABOUT US

GB Pant Govt. Engineering College was established by the Govt. of NCT of Delhi in the year 2007 with the aim of imparting quality technical education for the students of Delhi and nearby areas. Since its inception, the faculty and staff have been tirelessly working towards the growth of the institution.

Affiliated to Guru Gobind Singh Indraprastha University and approved by AICTE, the college started with two batches of students, one each for Mechanical Engineering and Electronics and Communications Engineering courses. Increasing its horizon in the year 2010, a batch of Computer Engineering course was started in the college. With the presence of vibrant and dynamic faculty members of

highest academic calibre selected by UPSC, G B Pant has been able to produce three batches of engineering graduates who have been pursuing their careers in highly reputed companies and higher education institutes in India and abroad.

The college has been operating from its building in G B Pant Polytechnic campus which has been transformed to be equipped with ultra-modern facilities. The college has already established various labs for all the branches with up to date modern equipment which ensures that the students are trained in the practical realm according to the current industry standards. The college is in the process of making its own building with state

PRINCIPAL'S MESSAGE

It is indeed a great pleasure for me to mark the presence of Govind Ballabh Pant Engineering College (GBPEC) in the highly competitive world. It is a matter of immense pride that GBPEC continues to be one of the highly sought after institutions affiliated to the Guru Gobind Singh Indraprashta University (GGSIPU) for admissions to engineering and technology programs. We recognize that the fast growing technological developments in all fields are challenging and the industry requires multi-skilled talent. We have attempted to successfully adapt ourselves to this challenge with the active support of the Govt. of Delhi

SAEINDIA Foundation takes immense pleasure in conferring

Prof. (Dr.) S Maji

with the **"Guru Award 2013-14"**

Citation

SAEINDIA Foundation is proud to announce that Mr. S Maji is:

✓ A Recipient of the Ralph T Teetor Educational Award from SAE International in 2001
✓ Recipient of UNDP fellowship in the area of "Alternative Fuels in 2-Stroke Engines" at University of Zwickau, Germany and SERC Fellowship in the area of "Fuel injection Systems for Spark Ignition Engines" at IIT-Delhi
✓ Instrumental in establishing the SAE Student Chapter at DCE/DTU and being the faculty advisor from 1995
✓ An active member of SAEINDIA and SAENIS, contributing in technical education and conferences in different roles
✓ A Scientist who has served at CSIR and as HOD and Dean, Research & Development at Delhi Technological University.
✓ Currently contributing to Engineering Education as Principal, GB Pant Engineering College, Govt. of NCT of Delhi and Director, Delhi Institute of Tool Engineering, Govt. of NCT of Delhi
✓ A Mechanical Engineer with a PhD on Alternative Fuels for IC Engines from Delhi University
✓ Having research interest in IC engines, Automobile Engineering, Alternative Fuels with 3 patents and more than 70 research papers
✓ A passionate guide, mentor and motivator

With great pride and honour, SAEINDIA Foundation felicitates Prof. (Dr.) S Maji with the "Guru Award 2013-14" for his outstanding contribution to Automotive Engineering Education and in promoting SAEINDIA activities in India.

New Delhi   30th July 2014

incorporating modern infrastructural facilities to craft "engineers of tomorrow", with a culture of high sense of dedication, determination, discipline and passion. At GBPEC, we believe that the sequence of activities must have a positive impact on our students' academic and personal development and we are engaged in providing to the industry with engineers who would have capabilities to participate in the ongoing technological revolution with ease and speed, as well as with professionalism, ethics and moral values. At this fast evolving institute, our focus is on providing an ambience conducive to developing a career rather than to just getting a job. I am delighted to inform you that, the college has earned its place amongst the upcoming institutes of excellence of Delhi, with a potential to develop into a world-class centre of higher technical education over the coming years. I wish all my students, a great success in all their endeavours.

WITH BEST WISHES
Prof. S. Maji
Principal

ADMISSIONS

Admissions are being done on the basis of Common Entrance Test (CET) conducted by Guru Gobind Singh I.P. University as per Govt. rules.

Around 2 Lakh students apply for the CET and 70000 students qualify for the admissions in GGSIPU.

Out of this, a few sharp minded students get a chance for admission in GBPEC.

COURSES OFFERED
- B.Tech Mechanical and Automation Engineering
- B.Tech Electronics and Communication Engineering
- B.Tech Computer Science & Engineering

PROPOSED COURSES
- B.Tech Automation and Robotics Engineering
- B.Tech Electrical Engineering
- M.Tech Mechanical and Automation Engineering
- M.Tech Electronics and Communication Engineering

DEPARTMENTS
- Mechanical and Automation
- Electronics and Communication
- Computer Science & Engineering
- Humanities and Applied Sciences
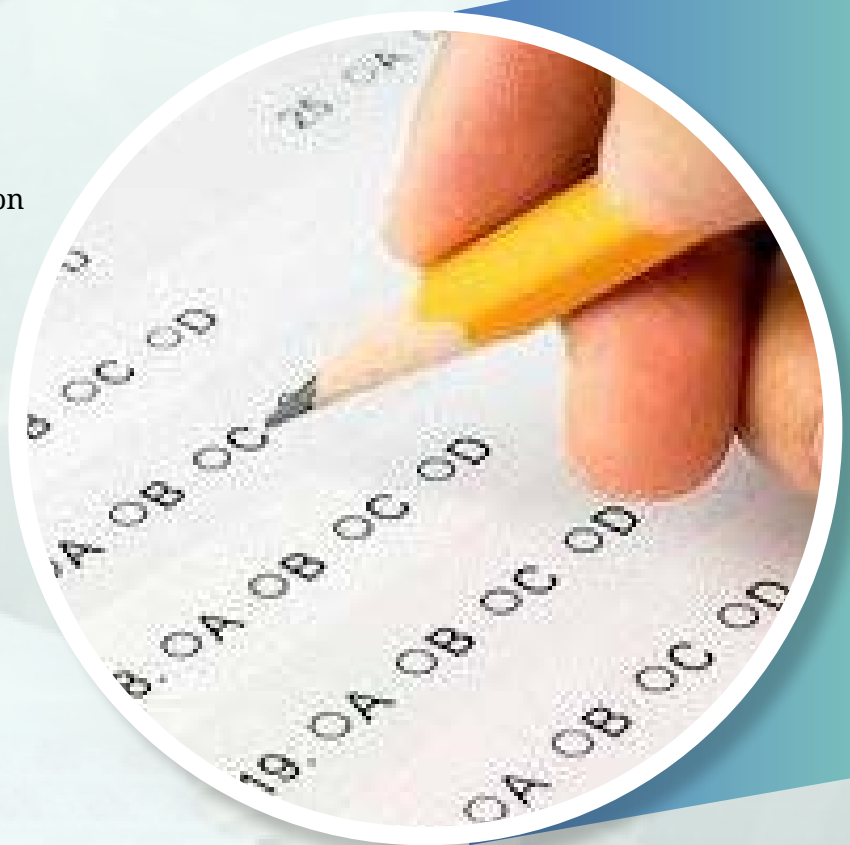
MECHANICAL AND AUTOMATION ENGINEERING

The Department of Mechanical Engineering was established in 2007 with a vision to foster quality technical education in meeting the growing demand for technical man power in the industrial sector. The department offers UG (B.Tech.) programme in Mechanical and Automation Engineering. The presence of experienced and highly talented faculty has helped to establish a high reputation for the department in the academia and industry.

The Department is equipped with wide range of Hi-tech machines, tools and equipment to broaden the practical knowledge of students, enabling them to handle the ever challenging needs of technical excellence in all areas of Mechanical & Automation Engineering. The students and the faculty of the department also interact regularly with the industry through internships, projects and research associations and hence are updated with the latest trends in the industry.

CURRICULUM

Curriculum of MAE Department includes all the core mechanical engineering subjects, besides other important subjects with the perspective of automation.

- I.C. Engines, Emissions & Pollution Control
- Robotics
- Computer Aided Manufacturing & Designing
- Mechatronics
- Management of Manufacturing System
- Refrigeration & Air-Conditioning

- Automotive Engineering
- Finite Element Method
- Machine Design
- Metrology
- Fluid Systems
- Metal Cutting & Tool Design
- Material Science & Metallurgy
- Kinematics & Dynamics of Machines
- Manufacturing Machines
- Heat Transfer & Thermal Science

- Mechanics of Solids & Fluids
- Production Technology
- Mechanical Engineering Drawing
- Numerical Analysis & Programming
- Electrical Machines
- Microprocessors & Applications
- Measurements & Controls
- MATLAB

LAB FACILITIES

Equipped with very expensive up-to-date machines, the labs of the department is considered to be one of the best labs in Delhi region. This helps the students to be trained in the highest order to meet academic and industrial purposes.

MECHANICAL WORKSHOP contains number of Precision Lathe machines, bench grinders, centre less grinder, vertical drilling machine, Shaper, Slotter, Shear, Milling machines, MIG and electric arc welding, Induction furnace etc.

REFRIGIRATION AND AIR CONDITIONING LAB has hermitically, non-hermitically sealed rotatory compressor and various other standard refrigeration and air conditioning apparatus from KTENG, Korea.

ROBOTICS LAB houses robotic arms from ISRAEL. Students are trained on this fully computerized arm with 4 axes gripper, gravity feed mechanism along with the conveyer system. It uses ROBOCELL software for accessing.

IC ENGINE LAB not only has good experimental facilities for UG students but also research facilities like Research engines and popular commercial engines equipped with sophisticated exhaust gas analyser, smoke meter, eddy current dynamoter , and various software for combustion and flow analyses.

MECHATRONICS LAB has various valves like directional control valves, solenoid and pilot valves and compressors, relays, sensors, logic gates etc. and software like PLC and AUTOSIM.

CAD/CAM, CNC LAB has high end Computer systems to support software and machines like Vertical Milling, Turning, Wire cutting and Lathe CNC.

Other labs : Applied Mechanics, Kinematics of Machines, Metrology, Mechanics of Solid/ Fluids, Manufacturing Machines, Quality Control and Quality Assurance, Mechanical Vibrations, Measurement and control, Microprocessor, MATLAB and Pro-E/CREO, Power plant and Computer integrated Manufacturing labs.

ELECTRONICS AND COMMUNICATION ENGINEERING

Since its inception in the year 2007, the department of Electronics and Communications has been producing engineering graduates of the highest quality with technical expertise demanded by the Industry and research organizations. The department has highly talented faculty members who have proven their merit in both teaching and research. The department is committed to developing the technical skills of students in the fields of Signal Processing, Communication systems, circuit design, VLSI and Embedded systems.

The department is resourceful in terms of having high quality labs equipped with most modern equipment which ensures that the students are trained in all the subjects of their curriculum and are also encouraged to do projects which would expose them to the new trends in the industry.

CURRICULUM

Curriculum of ECE Department includes all the Electronics and Communication subjects.

- Signal & Systems
- Circuits and Systems
- Analog Electronics
- Software Engineering
- Digital Circuits & System
- Communication Systems & Circuits
- Operating Systems
- Control Engineering

- Computer Architecture
- DBMS
- Microwave Engineering
- Microprocessor Systems
- Computer Networks
- VLSI Design
- Telecommunication Networks
- Digital Signal Processing and Its applications
- Optical Communication
- Mobile Computing
- Advance VLSI

- Digital Image Processing
- Mobile Communication
- Embedded Systems
- Introduction to Nano Technology
- Integrated Circuit Technology
- Network Security
- And various other subjects.

LAB FACILITIES

ELECTRONICS LAB enables students to conduct experiments in the realm of electronic devices and circuits, communication systems and digital communication. The lab is equipped with ZealTech Workbench having Multi-Output Power Supply, Function Generator, Dual Channel Oscilloscope etc.

SIGNAL PROCESSING LAB has been setup to conduct experiments in the realm of advanced digital signal and image processing. MATLAB software has been provided with various toolboxes for design activities.

VLSI DESIGN LAB helps in conducting a detailed study of the Networks concept based experiments. This lab has more than 30 personal computers along with required software like network simulator.

MICROWAVE ENGINEERING LAB is one of the best in the country used for Calibration and testing of antenna, Far field and Near field Testing, EMI/EMC and RCS measurement and for defense and space organizations having 2 Microwave IC trainer and E-field software for designing of physical optics and complex radar cross section.

OTHER LABORATORIES : Telecommunication Network Lab, PCB Fabrication Lab, Computer Network & Security Lab, Optical Communication Lab, Mobile Computing Lab, Microwave Engineering Lab, Circuit Simulation Lab, Microprocessor / Microcontroller Lab, Embedded System Lab, Control Engineering Lab, Communication System Lab, Software Engineering Lab, Data Structure Lab, Analog& Digital Electronics Lab and Circuit & System Lab.
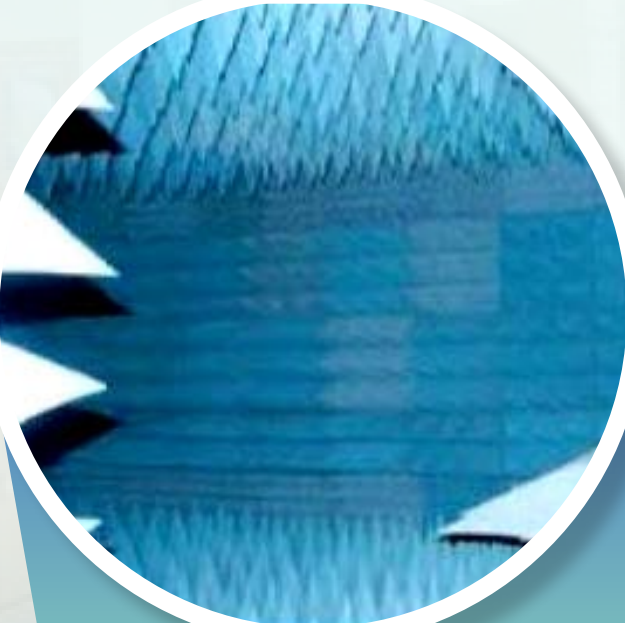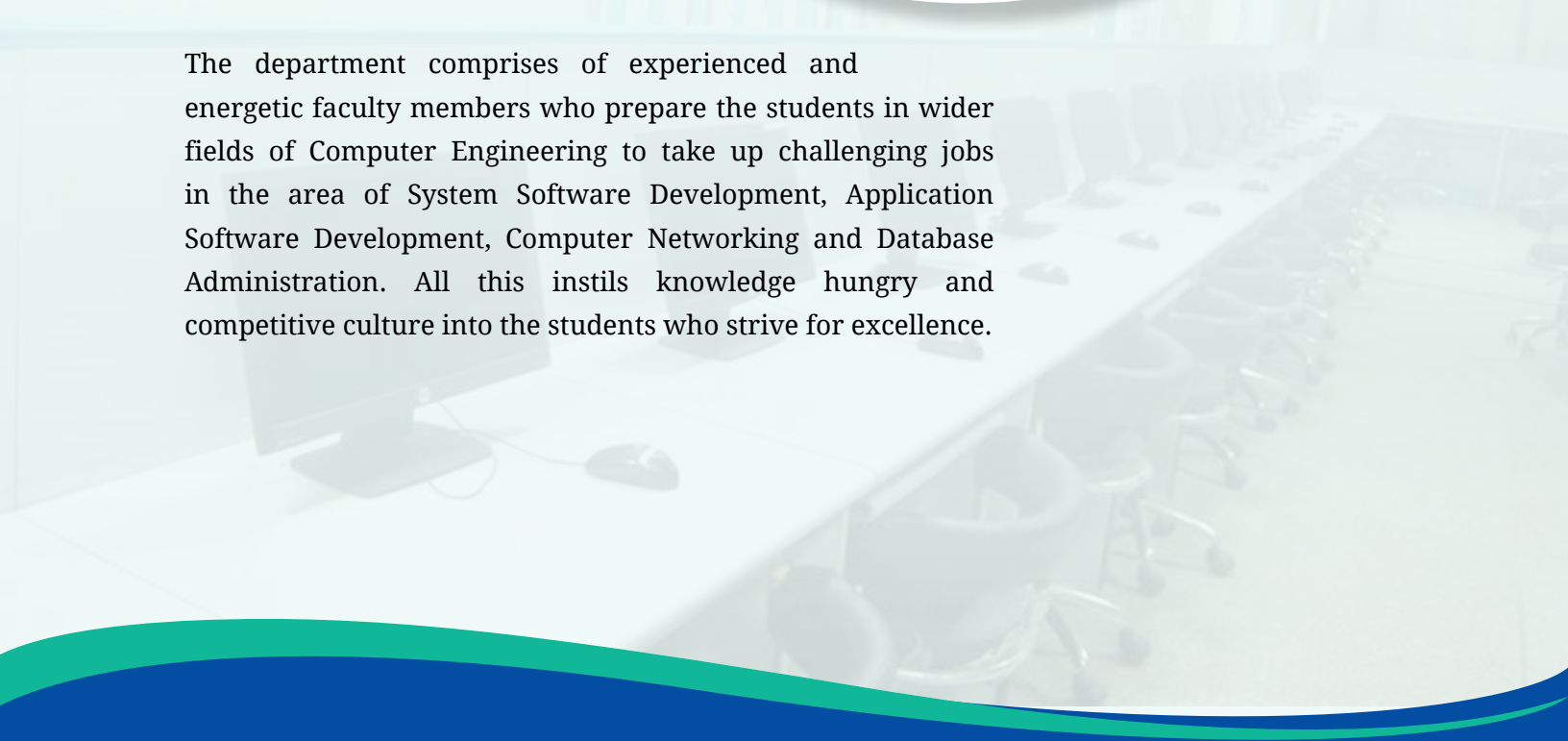
COMPUTER SCIENCE & ENGINEERING

The department of Computer Science Engineering attracts the best students across the country. It offers broad under graduate curriculum based on application and theoretical foundation of computers with the vision to provide excellence and relevance in teaching. It offers intensive exposure to latest technologies including E-commerce, multimedia, data mining, advance computer architecture etc.

The department comprises of experienced and energetic faculty members who prepare the students in wider fields of Computer Engineering to take up challenging jobs in the area of System Software Development, Application Software Development, Computer Networking and Database Administration. All this instils knowledge hungry and competitive culture into the students who strive for excellence.

CURRICULUM

Curriculum of CSE Department includes all the computer science and engineering subjects.

- Embedded System
- E-Commerce & ERP
- Network Security
- Mobile Communication
- Artificial Intelligence
- Advanced Computer Networks
- Advanced Computer Architecture
- Compiler Construction
- Mobile Computing
- VLSI Design
- Digital Image Processing

- Microprocessor Systems
- Digital Signal Processing
- Data Warehousing & Data Mining
- Digital Circuits & Systems
- Java Programming and Website Design
- Computer Architecture
- Linux and X-Windows Programming
- Software Engineering
- Algorithm Analysis & Design
- Object Oriented Programming using C++
- Communication Systems
- Computer Graphics
- Operating Systems
- Analog Electronics
- Circuits and Systems
- And various other subjects.

LAB FACILITIES

DATABASE MANAGEMENT SYSTEM LAB supports novel, advanced applications that expand the limits of traditional databases, especially transaction systems. Its main aim is to enhance performance and functionality of applications such as workflow and information retrieval that require or can benefit from transactional support.

MICROPROCESSOR LAB is equipped with Digital Millimetres, PC based on Microprocessor Interfacing stations, a variety of Microcontroller Kits, accessories, an assortment of Digital/Analogue Components, Consumables, on Bench Illuminations Lights, Engineering Software, a C.D. Database and various advanced sets of Technical manuals.

COMPUTER NETWORKING LAB is engaged in research and education in the areas of high Speed Networks, Wireless Communication, Quality of Service, Security, Simulation, Multimedia and more.

PROGRAMMING LAB is equipped with high configuration computer systems connected via LAN. The lab is very much instrumental in helping students develop strong programming skills. It has C, C++, JAVA Software for developing object oriented programming and compiler programming.

OTHER LABORATORIES

- Analog Electronics Lab
- Software Engineering Lab
- Algorithm Analysis & Design Lab
- Digital Circuits & Systems Lab
- Application & System Software Lab
- Computer Networking Lab
- LAN & Networking Lab

HUMANITIES AND APPLIED SCIENCES

The department of Humanities and Applied Sciences is one of the key departments in the Institution as it grooms the students in their first year of study. The department comprises of faculty members from four streams including Chemistry, Physics, Mathematics and English (communication skills). The department comprises of highly qualified faculty members and technical staff and well equipped laboratories with advanced instruments.

The faculty of chemistry impart theoretical as well as practical knowledge in the areas of applied chemistry and environmental studies to the students. The department also undertakes projects in the areas of developing green polymers, studies related to waste water treatment and other relevant areas of chemistry and environment management.

Since fundamental principles of Physics form the very basis of Engineering and Technology, the department aims at imparting the basic principles of physics besides enlightening the students with the emerging areas of technology.

The faculty of Mathematics ensure that that advanced mathematical concepts which would prove crucial in the learning of their respective engineering subjects are taught with utmost care.

The faculty of English ensure that overall development of students in terms of developing English language skills, communication skills, group discussion and presentation skills. . The Students are nurtured in a manner that they can overcome any tough competition.

Adopting an interdisciplinary approach, the department ensures that there is no stone unturned in imparting the fundamentals of science and humanities in the students to make them multi-talented engineers grounded in ethics and values.

STUDENT'S ACTIVITIES

BAJA SAE INDIA : Every Year, BAJA, a national level competition is conducted by SOCIETY OF AUTOMOBILE ENGINEERS, India. Over 250 teams from engineering colleges in India compete with one another and design and fabricate an All-Terrain Vehicle (Buggy). Large number of students from GBPEC take part annually, leaving their firm presence.

ABU ROBOCON INDIA: The students of GBPEC participate in the Asia-Pacific Robot Contest (ABU Robocon) which is an Asian Oceanian College robot competition, founded in 2002 by Asia-Pacific Broadcasting Union. In the competition, robots compete to complete a task within a set period of time. The contest aims to create friendship among young people with similar interests who will lead their countries in the 21st century, as well as help advance engineering and broadcasting technologies in the region.

SOCIETY OF ELITE ENGINEERS TROJANZ A non-profit nationally registered scientific association of distinguished scholars established in 2010 by the Students of GBPEC. The mission of the society is to foster and conduct collaborative interdisciplinary research in state-of-the-art methodologies and technologies within its areas of expertise.

The scoiety organizes conferences, workshops, and provides technical support to conferences and workshops in around 70 colleges.

GBPEC IEEE : The student branch of IEEE is one of the most active student branches under the Delhi Section ,Region 10 (Asia Pacific). It has made its presence felt at all the major events conducted by IEEE which include s national conferences and the technical fests in leading colleges.

STUDENT'S ACTIVITIES

GBPEC SAE CLUB : The branch of SAE INDIA is one of the most active student branches under the North Indian region . It has made its presence felt at all the major events under SAE INDIA and had been a centre for various seminars and workshops.

INCEPTUM: The technical festival organised in association with GBPEC IEEE(Student Branch of IEEE) it fosters a scientific temperament among the students through different means and ignites the spark of technical competitiveness amongst students to inspire them to achieve the unexpected by providing them a platform to showcase their skills.

AMBROSIA : The cultural festival of GBPEC. It is organized annually in the month of November lasting for 2 days. Number of events are organized like dancing, singing, mimicries, theatre etc. Battle of Bands is the most attractive event of the Ambrosia.

FORTIUS : The sports event organized by GBPEC. Various type of sporting events like chess, table-tennis, carom, cricket, badminton, basketball etc. are conducted. Students from various colleges in and around Delhi participate in the event which lasts for a week.

ANUGOONJ : The Annual Cultural Festival organized by Guru Gobind Singh Indraprastha University. Around 120 affiliated institutes of the university participate in the festival. This 4-day extravaganza is a perfect blend of entertainment, creativity and talent. A plethora of events like dancing, singing, debates, creative writing, theatre, poetry, etc., are part of this grand festival wherein students actively participate and manifest their talent. The students of GBPEC have been continuously winning prizes in most of the events.

TRAINING AND PLACEMENT

The Training & Placement Office, GBPEC facilitates the process of placement of final year students of the Institute, besides collaborating with leading organizations and institutes in setting up of internship and training program for students. It is one of the most important organs of the institute as it facilitates the career development of the students. It conducts sustained training programs for the final years students making them equipped to face the tough competition in the recruitment process. Over the years the department has been able to attract various industrial establishments from various sectors and has ensured the placement of our talented students in the best companies in the market.

The Training & Placement Office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics. The Office interacts with many industries in the country and companies visiting the campus for holding campus interviews. The industries which approach the institute come under the purview of:

- Core Engineering industries
- IT & IT enabled services
- Manufacturing Industries
- Consultancy Firms
- Finance Companies
- Management Organisations
- R & D laboratories

The placement season runs through the course of the year commencing the last week of July till March. Pre-Placement Talks are also conducted in this regard as per mutual convenience. Job offers, dates of interviews, selection of candidates etc. are announced through the Training & Placement Office.

The Placement Office is assisted by a committee comprising of student representatives from all the under-graduate streams. The committee evolves a broad policy framework every year besides a set of rules which are inviolable. Students are closely involved in implementing these policy decisions.

Our students are talented and forth-coming, both in terms of Academics and extra-curricular activities. Being exposed to various events, competitions and training programs, the students possess very good communication and interpersonal skills. Knowledgeable in their subjects and trained to be leaders with decision making capabilities, our students can be an asset to any organisation

FACILITIES

Besides a warm welcome, we provide companies with the following facilities:

Large classrooms & halls for Pre-Placement Talks and Written Tests.

Air-conditioned rooms in the Training & Placement Office for Group Discussions and Interviews.

High-speed Internet connection.

Student volunteers for prompt action on the day of visit.

Arrangement for stay at the Guest House, if intimated prior to visit, on a nominal charge fixed by the College.

PROCEDURE

Pre Placements Talks provides a meaningful platform for recruiters and students to interact freely.

The Presentation by the recruiter gives an insight into the job profile, culture and work environment to the aspiring students.
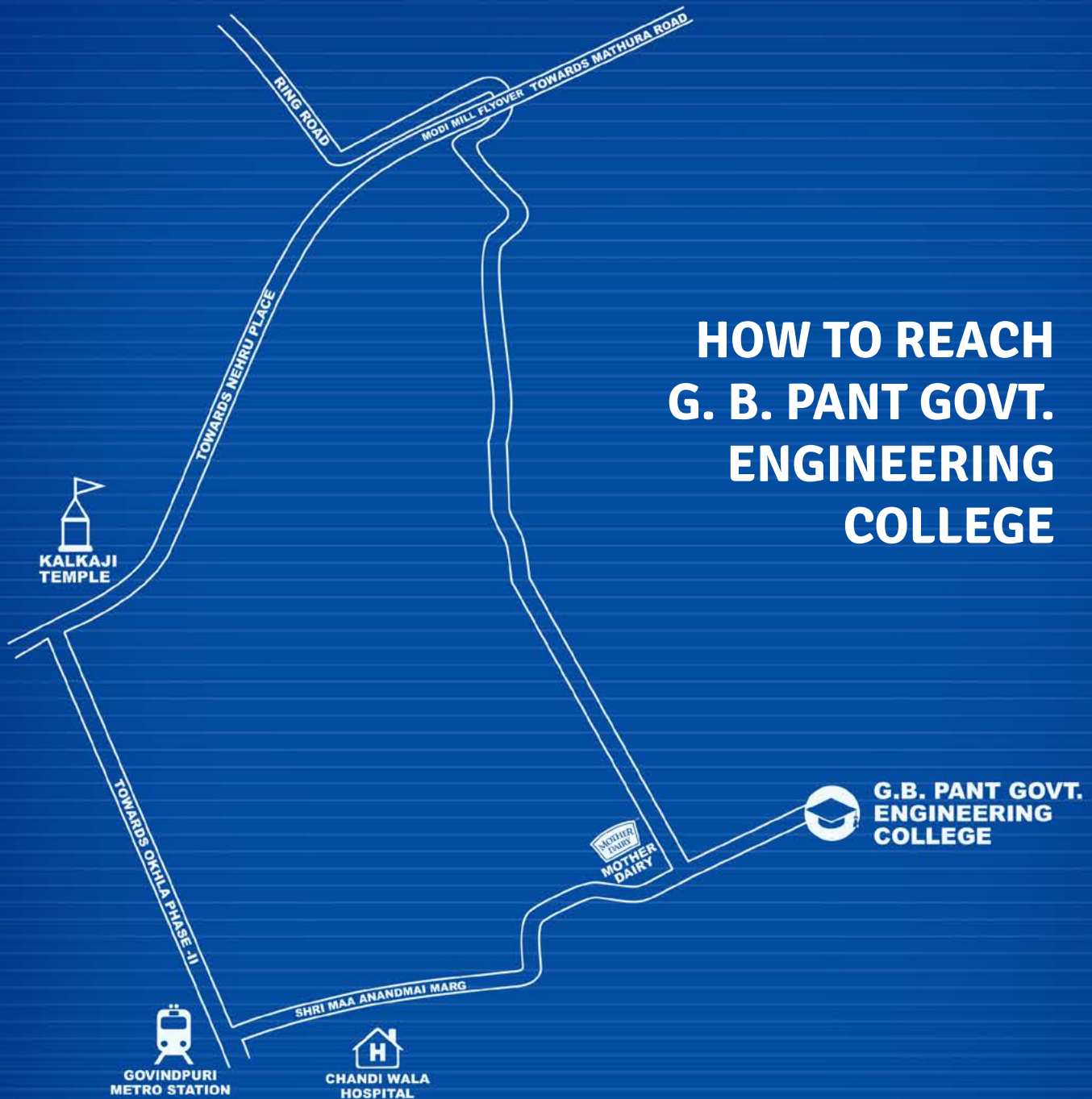
The company may kindly provide the selection procedure (Aptitude test, GD, personal interview etc.) to the college to make necessary arrangements. Recruiters are also requested to kindly communicate the desired dates of campus visit at the earliest possible.

PAST RECRUITERS

And many others.

HOW TO REACH
G. B. PANT GOVT.
ENGINEERING
COLLEGE

FOR FURTHER INFORMATION PLEASE CONTACT
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