

# JAWAHARLAL NEHRU GOVERNMENT ENGINEERING COLLEGE SUNDERNAGAR(H.P.)

technology

PLACEMENT BROCHURE





# **JAWAHARLAL NEHRU GOVERNMENT ENGINEERING COLLEGE**

## **TRAINING & PLACEMENT BROCHURE 2014-15**

**JAWAHARLAL NEHRU GOVERNMENT ENGINEERING COLLEGE  
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# MESSAGE FROM THE DIRECTOR



**Prof. Lalit K. Awasthi**  
**Director/Principal**  
**J.N.G.E.C Sundernagar**

Jawaharlal Nehru Government Engineering College is the state funded Engineering College of Govt. of Himachal Pradesh. Established in 2006, the institute has, since then made great strides towards its vision “To become an world-class institution by producing manpower with skills, creativity and passion dedicated to innovation and excellence, and a quest for continuous improvement”; and is now the best Engineering college in the state. The institute has immensely contributed to nation building by providing intellect par excellence with best institutes in the world.

Education is the most powerful weapon which one can use to change the world. At JNGEC, our focus is to provide education that encourages analytical and critical thinking and application of knowledge to solve common man’s problems. Our endeavour is to offer the students every opportunity for self-development so that they will build their skills as well as their confidence and emerge as a mature and responsible citizen with a sense of sacrifice. The student strength is just more than 1000, who are mentored and guided by highly qualified faculty. Institution has five departments. The faculty of the institute is contributing to inculcate leadership quality and life long learning skills amongst the students. Students and Faculty have published 40 high quality papers and are handling 20 projects from various funding agencies.

Recently, the college has become a member of Confederation of Indian Industries(CII) and we interact with industry for training, workshops, lectures and placement activities.

It is my strong belief that given an opportunity, the students of this great temple of learning will prove an asset to the recruiting organisations. We extend a warm invitation to the organisation/companies looking for budding engineers to visit our serene campus for possible human resource par excellence. and would highly appreciate appereciate your participation in this endeavour.

# MESSAGE FROM THE TRAINING & PLACEMENT OFFICER



**Mr. B. D. Abrol**  
**Training & Placement**  
**Officer**

Jawaharlal Nehru Government Engineering College – the first institute of the State in Government sector came into existence in the year 2006. It is situated in the heart of the State 175 kms away from Chandigarh on NH-21 (Chandigarh-Manali) on the outskirts of the town. Students getting education in this institute located in land of GODS “DEVBHUMI” are honest and hardworking by nature had shown tremendous potential to acquire skills in the respective fields of studies as well as acquiring the practical expertise. It has been reflected well in the placement drive undertaken by the institute and industry from the last three to four years. Our students are well equipped to compete with the highly competitive world of work and their abilities are well attested by the excellent reports and feed backs we have received from the reputed companies and business houses.

This institute provides latest information and guidance to the graduating students for overall development of personality through Training & Placement Cell working effortlessly throughout the year. Training and Placement Cell is well equipped with infrastructure to conduct parallel placement sessions, videoconferencing facilities and excellent boarding and lodging arrangements to the organizations visiting the institute for placement activities. It is our endeavor not only to make this institute a premier institute of the State but to bring it on the National Map of Technical Education also.

We take this opportunity to invite your esteemed organization to visit our campus for the recruitment and it will be the privilege and honor for us to welcome you at the campus of JNGEC Sundernagar. Our campus placement activity starts from the 1st week of September and the process continues till April/May of the next year.

You are requested to visit our website - <http://www.jngec.ac.in/placement> to have a glimpse of institution and our placement policies.

We look forward to hear from you at your earliest convenience.

# THE COLLEGE

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Jawaharlal Nehru Government Engineering College, Sundernagar was established in the year 2006 with a view to provide learning facilities to students, deserving and desiring, and to produce engineers of highest quality who will become trendsetters in the profession. The institute is successfully moving forward with increased student strength, brilliant faculty members and efficient staff members. The institute has its own sprawling Wi-Fi campus, most modernized laboratories and an ever growing infrastructure. Our aim is to build a state-of-the-art institution to impart excellent quality higher education with entrenched human values in the field of Engineering & Technology to aspiring students who will strive continuously to improve the quality of life, creation of wealth and economic development of the country.

# COURSES OFFERED



The varied programmes that the institute offers are extremely flexible, offer students a huge number of avenues for learning through rigorous classroom training, and by making them work on challenging projects that help them gain a better understanding of their disciplines and domains of study.

Students are selected through highly competitive entrance tests.

The Institute offers Bachelor of Technology programmes in:

Civil Engineering

Electronics and Communication Engineering

Mechanical Engineering

Textile Engineering

Admission through: JEE followed by Central Counselling

Duration of Course: 4 Years

# ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT



The Department of Electronics and Communication Engineering was established in the year 2010 with its primary objective to meet the current standards in Electronics and Communication Industries.

The Department is equipped with all the main stream software and hardware required to build upon the theoretical knowledge inculcated through the rigorous curriculum. It has a supportive campus environment where one can actively collaborate with his/her faculty and classmates as well as get involved in other innovative things. The Department provides many opportunities to gain practical work experience and ensure a successful career.

The analog and digital electronics circuits have grown enormously in complexity and functionality in this IT age. To cope up with this trend, in addition to hardware equipment, knowledge and experience on the use of computer-aided design automation tool have become mandatory.



# MECHANICAL ENGINEERING DEPARTMENT

Since its inception in 2006, as the first department of the institute, the department of Mechanical Engineering has grown into being a preferred destination for people passionate about learning & innovation.

The courses are perpetually evolving to adapt to the ever changing global requirements and along with the diversity of the fields of study, this has helped the department become the nerve centre for technical education, and research & development.

The faculty, besides doing world class research, ensure that the students of the campus are ready to face the challenges of the professional world by providing them with a sound conceptual understanding of the subjects, and also by playing a huge role in their development as individuals who can lead and lead well.

The batch of 2014-15 truly reflects the department's strengths which among many include - versatility, innovation, a keen interest in learning, and being able to excel in a fiercely competitive world.

# TEXTILE ENGINEERING DEPARTMENT



Since its inception in 2006, as the first department of the institute, the department of Textile Engineering has grown into being a preferred destination for people passionate about learning & innovation.

The courses are perpetually evolving to adapt to the ever changing global requirements and along with the diversity of the fields of study, this has helped the department become the nerve centre for technical education, and research & development.

The faculty, besides doing world class research, ensure that the students of the campus are ready to face the challenges of the professional world by providing them with a sound conceptual understanding of the subjects, and also by playing a huge role in their development as individuals who can lead and lead well.

The batch of 2014-15 truly reflects the department's strengths which among many include - versatility, innovation, a keen interest in learning, and being able to excel in a fiercely competitive world.

## **ABOUT THE DEPARTMENT**

Civil engineering department was established in the year 2010 with the total intake of 60 students. The main aim behind this was to meet the need of quality civil engineers and to make the students competent for various service commissions. Due to the increased emphasis on the development of infrastructural facilities especially in a country like India, civil engineers are

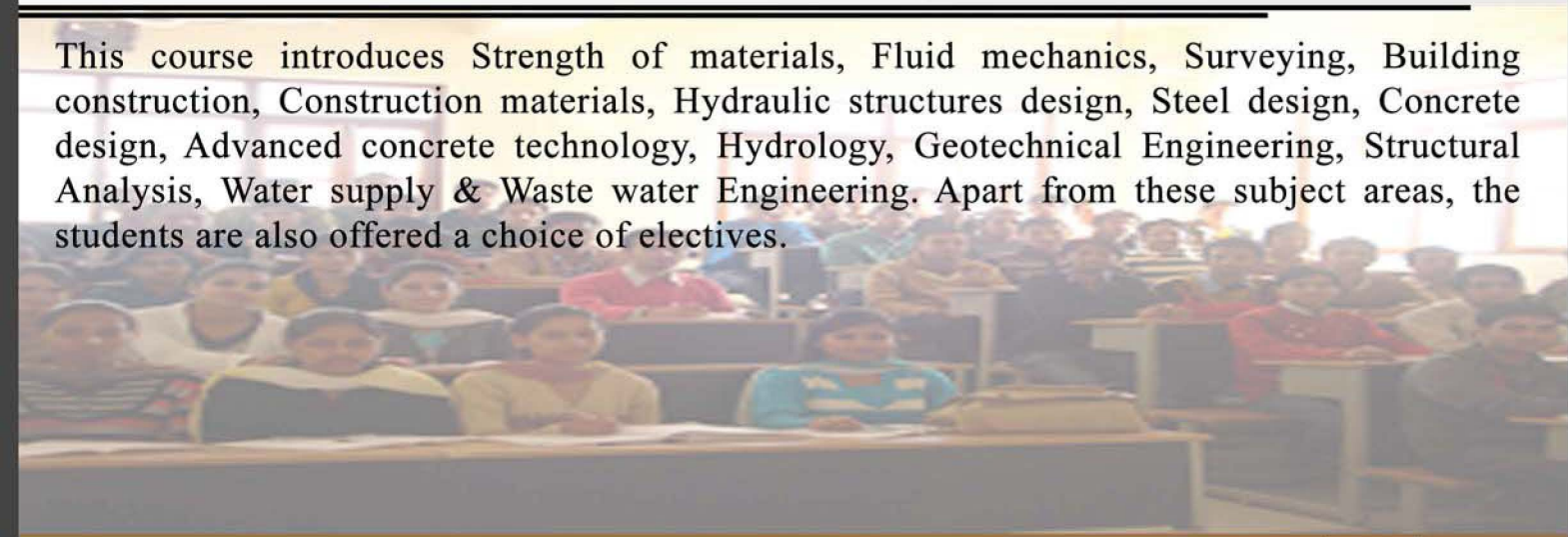


required to play a major role in creating better and improved infrastructural facilities. Further, to achieve this target, civil engineers are required to be equipped with latest technical know-how; besides this they should also be capable enough to tackle the challenges at the construction sites.

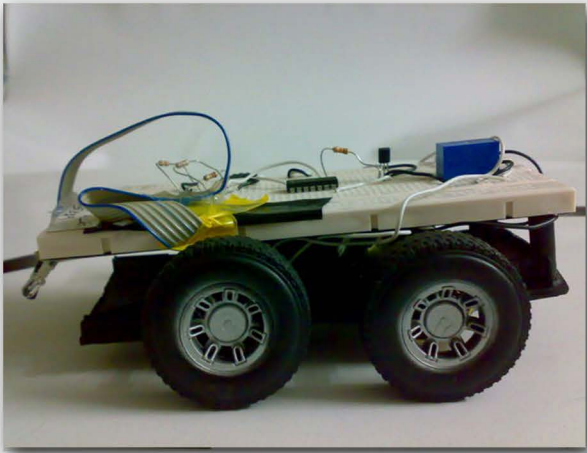
The Department has augmented various laboratories/shops and other facilities keeping in view the contemporary technological advancement in the industry. Students are also exposed to the possibility of specialization in different areas of Civil Engineering and special care is also taken to develop the soft skill among the students.

## **COURSE OUTLINE**

This course introduces Strength of materials, Fluid mechanics, Surveying, Building construction, Construction materials, Hydraulic structures design, Steel design, Concrete design, Advanced concrete technology, Hydrology, Geotechnical Engineering, Structural Analysis, Water supply & Waste water Engineering. Apart from these subject areas, the students are also offered a choice of electives.



# PROJECTS DEVELOPED



- ⊙ **Hovering Surveillance Aircraft.**
- ⊙ **Automatic Water Lifting System, received best project award during TWASK-2013.**
- ⊙ **Robotic Tank with Laser Guided Missile Launcher and Wireless Camera.**
- ⊙ **Fastest Finger First with Number Display and Battery charger with LED Display.**
- ⊙ **Microcontroller Based LED Display Board.**
- ⊙ **Propeller Clock.**
- ⊙ **Bluetooth Based Device Control.**
- ⊙ **DTMF Based Home Automation System.**
- ⊙ **RFID Based Automatic Vehicle Parking System.**
- ⊙ **GSM Based Wireless Notice Board.**
- ⊙ **Biometric Attendance System.**
- ⊙ **ZIGBEE Based Air Pollution And Temperature Monitoring System.**

# PROJECTS DEVELOPED



- ⦿ ELECTRICITY PRODUCING SPEED BREAKERS.
- ⦿ ENERGY EFFICIENT ELEVATORS.
- ⦿ MULTI-TERRAIN VEHICLE.
- ⦿ ENERGY EFFICIENT HAUDRAULIC JACK.
- ⦿ HYDRAULIC ARM.
- ⦿ DUAL-TEMPERATURE PISTON USING HOT & COLD WATER.
- ⦿ RECIPROCATING PUMP.

⦿ STUDENTS PRESENTED PAPER ON “DRAG-REDUCTION IN SUV VEHICLES” AT BITS GOA, DURING QUARK 2014.



## RESEARCH & REVIEW PAPERS PUBLISHED BY STUDENTS

- > Himanshu Saxena, Rahul Gautam, Ankush Kapoor, "Integrated Circuits and MicroElectroMechanicalSystems Fabrication – A Review on pre-existing fabrication techniques", International conference proceedings TELNET-2013, Amity University, Feb 2013.
- > Rahul Gautam, Himanshu Saxena, Ankush Kapoor, "MOSFETs The New Generation Transistors", International conference proceedings TELNET-2013, Amity University, Feb 2013.
- > Reepika Sharma, Ankush Kapoor, "Metamaterial: A new Boon in Designing Frequency Selective Surfaces", International conference proceedings TELNET-2013, Amity University, Feb 2013.
- > Vishakha Kanwar, Ankush Kapoor, "Spatial Filters: A FSS Approach of Designing", International conference proceedings TELNET-2013, Amity University, Feb 2013.
- > Himanshu Saxena, Rahul Gautam, Ankush Kapoor, "MEMS and Its Applications", International conference proceedings ICAICTE-2013, T.I.T & S. Bhiwani, Nov 2013.
- > Rahul Gautam, Himanshu Saxena, Ankush Kapoor, "Nanophotonic Integrated Circuits", International conference proceedings ICAICTE-2013, T.I.T & S. Bhiwani, Nov 2013.
- > Himanshu Saxena, Reepika Sharma, "Wireless Ad-Hoc Networks and Its Security", International conference proceedings ICAICTE-2013, T.I.T & S. Bhiwani, Nov 2013.
- > Himanshu Saxena, "Implementation of IPV6 in Ad-Hoc Networks", International Journal of Enhanced Research in Management and Computer Applications (IJERMCA) Vol. 3, Issue 2, Feb 2014.

# STUDENT ACTIVITIES

At JNGEC Sundernagar, students participate in myriad extra-curricular and co-curricular activities. Students learn important interpersonal and managerial skills through actively organising and participating in the campus' events and its major festivals.

Inter-college events managed by various student clubs work all-round the year to provide students with amazing opportunities to nurture and develop their talents, be it debating or dance or art.

Students also take part in several technical events like the SAE India Championships (All Terrain Vehicle Competition), robotics events (Robocon, E-yantra). Coding enthusiasts take part in national level coding competitions and also in intra-college coding events like hackathons etc.

The major student clubs & societies at JNGEC are:  
**CADD & Design club:** This club is involves training students in various design softwares & making projects using the same.

**PIXEL:** This group lays emphasis on researching fields such as Digital Image Processing, Computer Vision etc.

**Cultural Club:** Music, Dance, Dramatics, Photography come together to provide students with a platform to showcase their talents & skills.

**Literary & Fine-Arts Society:** The Literary & Fine-Arts society actively works for enhancing the talents of students in these fields. Reflexia, JNGEC's own print, is the official magazine of JNGEC. An outlet for literary geniuses & creative hands, the magazine rolled out its first issue last year.

**Eco Club:** The Eco-Club steadily works to create Environmental Awareness not only among the students of the college but also among the general populace. Various Programmes such as Tree Plantation weeks, Water conservation rallies are regularly undertaken by this club.



# STUDENT ACTIVITIES

## **TWASK:**

The annual Techno-Cultural fest of JNGEC, which was organised for the 3rd consecutive year in April 2014, has steadily become one of the most awaited events of the year in the region.

Participants from different institutes across the region are attracted to the event, as it brings together the creative skills & talents as well as the technical bent of the minds of students, and provides an enriching experience in various fields.

Apart from the many events & competitions organised as a part of TWASK, the festival also hosts performances by renowned artists & bands.



## **DECIBEL:**

Organised for the first time last year, Decibel is the one-day extravaganza organised during the month of December. The event witnessed scintillating performances of Poetry, Music, Dance & Choreography planned to a perfection by the Event Management Team of the institute.

# STUDENT ACTIVITIES

## SPORTS:

Sports are a vital part of development for any individual as they contribute to physical fitness, drive for excellence and develop the team spirit and leadership qualities.

The students compete amongst themselves in various inter departmental & inter-college sports activities throughout the year such as Football, Cricket, Basketball, Volleyball, Badminton, Kabaddi, Table Tennis etc. The college provides the students with ample facilities to pursue their sporting talents.

## NSS:

The NSS Unit of the college constituting of more than 100 students has been playing a pivotal role in orienting students who become a part of the college towards community service.

Now in its second year of operation the volunteers have helped to improve the society by undertaking activities such as Blood Donation Camps, Cloth Donation Drives, Environmental & Social Awareness campaigns etc.

The unit visits nearby slums regularly to interact & understand the problems faced by the slum-dwellers.

The unit has also been involved in the training of differently challenged girls of Vishesh Yukta Kendra, Sundernagar.



# PLACEMENT CELL



The Placement Cell at JNGEC handles all aspects of campus placements for graduating students. Arrangements for every stage of the recruitment process are made by the officials at the Placement Cell.

The cell has excellent facilities and infrastructure for placement activities which include:

- Fully Equipped Rooms for interviews and Group Discussions
- LCD Projectors and PA systems
- Video Conference Facilities including skype interviews (Available only under exceptional circumstances)
- Apart from this companies can also use the institute's Conference Hall and Lecture Halls to conduct Pre-Placement Talks.

The Training & Placement Officer in consultation with the student representatives oversees all placement related activities at the institute. The Placement Cell co-ordinates with recruiting companies and handles the entire placement process. Companies are encouraged to contact the Placement Cell for initial discussions and for confirming dates for visiting the campus for recruitment.

# CONTACT US

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## PLACEMENT REPRESENTATIVES

Department	Name	Email ID	Contact No.
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	Pankaj Kumar	pk44737@gmail.com	+91 9459944737
Electronics & Communications Engineering	Himanshu Saxena	hs2592@outlook.com	+91 8988329729
	Sandeep Kumar	sandeepkumar4922@gmail.com	+91 8894644934
Textile Engineering	Ritika Thakur	ritika.thakur163@gmail.com	+91 9418319885
	Robin Saklani	robin492@yahoo.com	+91 8091447077
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	Rajesh Chouhan	rajeshchauhan.321992@gmail.com	+91 8988261539

## FACULTY CONVENORS

Department	Convenor	Email ID	Contact No.
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Textile Engineering	Vivek Kumar Amit Kumar	<a href="mailto:vivekjngec@gmail.com">vivekjngec@gmail.com</a> kumar.amit68@gmail.com	+91 9459206083 +91 8894666727
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