Dronacharya Group of Institutions Greater Noida, India

ANNUAL REPORT DGI ASCE STUDENT CHAPTER
(American Society of Civil Engineers Student Chapter)
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ABOUT DGI ASCE STUDENT CHAPTER

ASCE DGI is a professional Civil Engineering Society at DGI, Greater Noida after IIRS and AGI Knowledge Partner. It was established on 26th Apr 2017 in the Premise Er. G.J.Rosha
MESSAGE FROM HEAD OF THE DEPARTMENT

Contribution of Civil Engineering in developing our society is enormous. Civil engineers provide the vital infrastructure needed for societies to develop and are essentially building the backbone for the world to relax on. All beautiful structures around us are the creation of Civil Engineers, and that is why Civil Engineering is one of the most sought after careers across the entire globe. This engineering discipline also calls for perfection in education, as the engineers are associated with design and planning of critical infrastructures. The academic activities are thus very carefully planned and the department emphasizes on deep understanding of fundamental principles, development of creative ability to handle the unique challenges of Civil Engineering.

The department is equipped with following well established laboratories: Concrete and Highway material testing, Environmental Engineering, Soil Mechanics, Structural Engineering, Engineering Geology, Irrigation, Hydraulics and Survey.

The department lays emphasis on educating and equipping students to manage the challenges of a professional engineering career. A step in this direction is the establishment of Autodesk Institutional Training & Testing Centre for civil engineering students where in the students are trained on various Autodesk training programs such as Autodesk AutoCAD civil 3D, Autodesk Maya, Autodesk Revit architecture. Students are also getting trained on other very useful softwares such as: structural design and analysis Staad PRO and project management software Primavera etc.

Civil Engineering is the only omnipresent professional engineering discipline that deals with the state of the art Projects in construction and design of public and private sector works such as bridges, roads, dams and buildings. To get complete know-how of the above mentioned projects, field visit to Central Road Research Institute (CRRI), RITES, GAMON India, JAYPEE Infrastructure are organized. Our students also visited Govt. Irrigation Workshop Roorkee which is fully equipped technically in the field of formulation of projects, its design and research activities, fabrication and erection of hydro mechanical parts and overall construction of civil works.

College is well set to provide excellent Civil Engineering graduate well trained in all aspects of civil engineering and adequately prepared to be acceptable globally.

Mr. Vibhooti Narayan Mishra  
Head of the Department,  
Civil Engineering
ABOUT THE INSTITUTE

Dronacharya Group Of Institutions (DGI) is an institute that continuously improves the competitive edge through innovations, motivation, schemes and students’ feedbacks thus providing innovative and quality education with high standards to achieve academic excellence. Our motto is to impart quality Education and to give an enviable growth to seekers of Learning and to groom them as World Class Technocrats, competent to match the expanding expectations of the corporate organization.

DGI makes an enthusiastic, thumping and vibrant entry into its twelfth year in the session of 2017-18. The institute is responsible not just for imparting knowledge, but for locating knowledge in society, so as to build a better future. Keeping this in mind, the institute has introduced the project from second year, so as to facilitate practical knowledge/new skills/innovations. Research based learning is the norm, where students are guided through an individualized conscience with her/his potential, thereby providing a complete learning experience. The students are encouraged to explore and reveal the way of learning through different level of Teaching Methodology: Classroom Training, Group Learning, Guest Lecture, Industrial Visits, Workshops, Summer Projects and Research Projects.

Over and above the theoretical aspect, we at DGI work for the overall development of our students and prepare them to face diverse circumstances with confidence. We make them focus more on their presentation skills and potential to acquire new skills so as to counter the interview/ selection board with confidence when they appear for placements. All these combined efforts have resulted in our students being selected by companies like MuSigma, Capgemini,
Bosch, Accenture, Mercedes Benz (Silver arrow), L&T, TCS Airtel, Ericsson, Aon Hewitt, Motherson Sumi, Oracle, Cognizant, Sriram Piston, Maruti Suzuki, Siemens., Tata Motors Ltd., CISCO, L&W Construction, iGate, IBM, Capital IQ, L&T, Fiserv, TCS, Infosys, Amazon, Omega Elevators and Many more….
OBJECTIVES AND PURPOSE OF DGI ASCE

The objective of the ASCE Student Chapter is to encourage its members to study Civil Engineering and to advance the Civil Engineering Profession. The American Society of Civil Engineers, the oldest national professional engineering society, was founded in 1852 with an objective to enhance the welfare of humanity by advancing the science and profession of civil engineering. More than 125,000 individual ASCE members are engaged in engineering education, research, industrial, construction, and private engineering practice.

WHY ASCE STUDENT CHAPTER

Becoming a member of ASCE gives students an opportunity to apply knowledge from the classroom to "real world" situations, such as designing and building of a steel bridge and concrete structure etc. Students do not get only opportunity to apply their engineering knowledge in events, but they also learn about teamwork, leadership, and ethics. Their abilities get enhanced that are needed in the engineering profession.

ASCE is an effective way for students to interact with practicing engineers through meetings, conferences and technical events. Students also get an opportunity to meet with the staff and other students of different colleges through ASCE events. Members of ASCE are also given the opportunity to give back to the community.

ASCE MEMBERSHIP STATUS

1. VII Semester – 15
2. V Semester – 19
3. III Semester – 14
4. Faculty - 02

TARGETS 2017- 18

1. Increasing student membership to 100 students.
2. Organizing at least 3 Industrial Visits per every year.
3. Organizing a minimum of 2 workshops and 2 quizzes per every year
4. Strengthen efficient relationships with other ASCE Student Chapters
5. Strengthen efficient relationships with industry experts
### ACTIVITIES MATRIX AUG-NOV, 2017

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Activity</th>
<th>Field/Area</th>
<th>Semester</th>
<th>Status</th>
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<tbody>
<tr>
<td>1</td>
<td>Industrial Visit (Ashtech Industries Pvt. Ltd.)</td>
<td>Ready Mix Concrete Plant</td>
<td>III, V</td>
<td>Completed</td>
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<tr>
<td>2</td>
<td>Industrial Visit (Hexagon Geospatial Gurgaon)</td>
<td>Geospatial Industry</td>
<td>V</td>
<td>Completed</td>
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<tr>
<td>3</td>
<td>Counseling Programme</td>
<td>Awareness</td>
<td>III, V, VII</td>
<td>Completed</td>
</tr>
<tr>
<td>4</td>
<td>Poster Competition</td>
<td>Civil Engineering</td>
<td>III</td>
<td>Completed</td>
</tr>
<tr>
<td>5</td>
<td>Project Competition</td>
<td>Civil Engineering</td>
<td>III, V, VII</td>
<td>Completed</td>
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<tr>
<td>6</td>
<td>Overview of Structural Engineering</td>
<td>Design Seminar</td>
<td>III, V, VII</td>
<td>Completed</td>
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</table>

### ACTIVITIES OVERVIEW

**INDUSTRIAL VISIT TO ASHTECH INDUSTRIES PVT. Ltd.**

Department of Civil Engineering, Dronacharya Group of institutions, Greater Noida organized an industrial visit to Ashtech Industries Pvt. Ltd. Surajpur, Greater Noida under the banner of “DGI-ASCE Student Chapter” (American Society of Civil Engineering) on 25th August 2017. Students of 2nd and 3rd Year, Civil Engineering along with Mr. Suhash Ranjan Bannerjee, Assistant Professor, DGI, Greater Noida, visited the site.

Mr. Basant Kumar briefed the students about the Ready-Mix Concrete Plant. He explained the process of ready-mix and specifically stressed on the safety norms being adherent in the plant. He also explained various tests being carried out in their laboratory. Students got to know the operation and maintenance (proper functioning of the machines) of the batching plant. They also visited the transporting yard of ready-mix concrete where concrete was being loaded on the trucks from where. It is directly delivered to the construction site.
INDUSTRIAL VISIT TO HEXAGONAL GEOSPATIAL SOFTWARE SOLUTIONS

Department of Civil Engineering, Dronacharya Group of institutions, Greater Noida organized an industrial visit to Hexagonal Geospatial Software, Gurgaon under the banner of “DGI-ASCE Student Chapter” (American Society of Civil Engineering) on 22nd September 2017. 16 Students of 3rd year Civil engineering branch along with Mr. Suhash Ranjan Bannerjee, Assistant Professor, Civil Engineering Department DGI Greater Noida visited the company.

Students were briefed about the different types of Surveying and the Evolution of Measurement System and new technologies which are being adopted in today's surveying practices. He explained operation of total station and also told to students about application of coordinates in
surveying. He explained about **locating points, measure horizontal distance, vertical distance and angle of elevation with** using Total Station.

The application of GPS (Global Positioning System) and GIS (Geographical Information System) were explained. Students were demonstrated to predict the maximum storage of a reservoir/dam by using software. Students were explained different kind of simulation software. Calculations of Entropy Index and Dissimilarity Index for Urban Planning were explained.

The visit was very informative and students acquired valuable information in surveying and application of GIS.

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**Glimpses of Industrial Visit to HEXAGONAL GEOSPATIAL SOFTWARE**
STUDENT COUNSELING PROGRAMME ON INFORM, ADVICE AND INSPIRE

Department of CIVIL Engineering, Dronacharya Group of Institutions, Greater Noida organized a student counseling programme on Inform, Advice and Inspire on 10th November, 2017 under the banner of American Society of Civil Engineering (ASCE). Students of 3rd, 5th and 7th semester along with faculty members Mr. Vibhooti Narayan Mishra, Ms. Krishna Goala, Mr. Navdeep Agrawal and Mr. Suhash Ranjan Bannerjee attended the programme. Mr. Kamlesh Kumar (Senior Structural Engineer in EXP US Services based in Chicago, 2006 – Present), Mr. Amit Srivastava (Software Professional) and Mr. Santosh Bhalekar (Civil Engineer in EXP US Services based in Chicago, 2009 – Present) were the speakers of the students counseling programme.

The purpose of this counseling programme was to make aware students about current trends in industry, suitable career options and higher studies programmes in India as well as in abroad. Students were made aware about career option like higher studies in India or abroad, Job Placement in Private Consulting Firms Core/Non-Core and Government (IES)/PSUs Administrative/Engineering and Jobs in consultancy. He discussed about GATE, GRE and GMAT and their scholarships also.

Glimpses of Student Counseling Programme on Inform, Advice and Inspire:
SEMINAR ON OVERVIEW OF STRUCTURAL ENGINEERING

Department of Civil Engineering, Dronacharya Group of Institutions, Greater Noida organized a Seminar on "Overview of Structural Engineering" under the aegis of AGI (Association of Geospatial Industries) on 25th August 2017. 47 students of Civil Engineering Branch attended the Seminar. Mr. Alok Kumar Gautam, Technical Advisor and Mr. Keshav Kumar, Sr. Business Executive of Global Engineering Research & Development Centre conducted the seminar.

The Seminar highlighted the importance and application of softwares in Designing and Product Development in various civil engineering fields. Students were to make aware on importance and implementation of following softwares packages:

Structural Engineering:

1. STAAD-Pro  2. ETABS  3. AUTO CAD

Transportation Engineering:

1. Civil 3D   2. MX Road

Environmental Engineering:

1. Water GEM  2. Sewer GEMs

Project Management

1. Primavera  2. MS Project

Glimpses of Seminar on Overview of Structural Engineering
PROJECT EXHIBITION
Dronacharya Group of Institutions, Greater Noida organized Project Exhibition on 16\textsuperscript{th} Sep 2018. Participation for Project Exhibition was open for students of V and VII sem. The primary aim of the event was to create an eco-system for motivating students towards innovation and creativity. Following Project were presented from Civil Engineering Department.

1. Green zero waste energy efficient building
2. Treatment of rain water on road surface through drainage
3. Green Highways
4. Bio concrete
5. Automatic cable movable bridge
6. Automatic curling Bridge
7. Floating Building & Rotating Building
8. Power Generation in High traffic volume by rack pinion mechanism

Glimpses of Project Exhibition

POSTER PRESENTATION
Poster presentation was organized by Civil Engineering Department under the banner of ASCE Student chapter. Participation for Poster presentation was open for III Semester. Following posters were presented from Civil Engineering Department.

1. Geopolymer Concrete
2. Water Draining
3. Risk Management in Construction
4. Waste Foundry Sand
Glimpses of Poster Presentation

TEAM MEMBER

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Student Name</th>
<th>Designation</th>
<th>ASCE Membership No.</th>
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<tbody>
<tr>
<td>1</td>
<td>Mr. V N Mishra</td>
<td>HOD, Civil Engineering Department</td>
<td>11016511</td>
</tr>
<tr>
<td>2</td>
<td>Ms. Krishna Goala</td>
<td>Assistant Professor, Civil Engineering</td>
<td>11019186</td>
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<td>3</td>
<td>Naveen Chaturvedi</td>
<td>President</td>
<td>11018759</td>
</tr>
<tr>
<td>4</td>
<td>Sudhakar</td>
<td>Vice-president</td>
<td>11018918</td>
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<td>5</td>
<td>Sachin Gupta</td>
<td>Secretary</td>
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<td>6</td>
<td>TARUN TRIPATHI</td>
<td>Treasurer</td>
<td>11149415</td>
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Thank You.........................................................................................................