

**AJAY KUMAR GARG ENGINEERING COLLEGE  
GHAZIABAD– 201009**  
And  
**Indian Concrete Institute**

**National Seminar on  
AUTOMATION, ROBOTICS AND  
3D PRINTING IN CONSTRUCTION**  
**Registration Form**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Mobile No.: \_\_\_\_\_

E-mail Id: \_\_\_\_\_

Registration Fee:

Amount: \_\_\_\_\_ DD No. \_\_\_\_\_

Date: \_\_\_\_\_

Bank: \_\_\_\_\_

Place: \_\_\_\_\_

Signature of the Applicant

**Sponsoring Authority**

Mr./Ms./Dr. \_\_\_\_\_ is an employee of our organization and is sponsored to attend the program.

Date: \_\_\_\_\_ Signature of Principal/Head of Section

**TARGET PARTICIPANTS**

The program is open for the faculty members/ research scholars/ students of Engineering and Management institutions, and participants from Industry/Government.

**REGISTRATION FEE**

For Faculty/Research scholars/Students: Rs. 500/-

For Industry participants: Rs. 1000/-

Fee to be paid in the form of cash / DD drawn in favor of “The director, AKGEC”, payable at Ghaziabad.

**LOCATION**

**Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad** is located at Delhi-Hapur Bypass, NH 24, which is about 10 Km from old Bus Stand, Ghaziabad. It is well connected by bus from various places of the city.

**IMPORTANT DATES**

Last date for registration : 30<sup>th</sup>September 2018

Poster material submission : 10<sup>th</sup> October 2018

Seminar date : 15<sup>th</sup> October 2018

**Venue:**

Seminar Hall – Main Building  
**AKGEC, GHAZIABAD-201009**

Phone: 0120-2762841 to 2762851

Website: www.akgec.org



**National Seminar**

On

**AUTOMATION, ROBOTICS AND  
3D PRINTING IN CONSTRUCTION**



**15-16<sup>th</sup>October 2018**

**Organized by**

**Civil Engineering Department**

**&**

**Research and Industrial Consultancy Centre**

**At**

**AJAY KUMAR GARG ENGINEERING COLLEGE  
GHAZIABAD,**

**In association with**



**Indian Concrete Institute**

**Ghaziabad Centre, Uttar Pradesh**

## ABOUT THE HOST INSTITUTE

Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad is approved by the All India Council for Technical Education and affiliated to Dr. A.P.J. Abdul Kalam Technical University. The college was established in 1998 and it offers B.Tech Courses in seven disciplines of Engineering. The college also offers postgraduate course in Computer Applications (MCA) and M.Tech in Automation and Robotics, Electrical Power & Energy Systems, VLSI Design. The college has the distinction of being the only Engineering College in the state of U.P. to have received approval from Department of Science and Technology (DST), Government of India, for establishment of Centre of Relevance and Excellence (CORE) in the field of Automation & Robotics. The program envisages a unique partnership between AKGEC and seven international industries to promote research, consultancy, project development and training in the emerging technological field of Automation and Robotics. The College has also set up India's first Industrial Robotic Training Centre in Collaboration with KUKA Robotics of Germany. Spread over 40 acres with lush green lawns, the college has 6 academic blocks and all recreational/sports & hostel facilities.

## ABOUT CIVIL ENGINEERING DEPARTMENT

Under this department, B.Tech degree Courses in Civil Engineering is offered having approved intake of 120. The vision of this department has been to produce high quality technical manpower needed by industry, R&D organizations, and academic institutions and above all to meet the engineering needs of the nation. The faculty comprises of galaxies of qualified and experienced teachers with Ph.D and M.Tech from premier institutions like IITs and NITs. The academic activities of the Department emphasize deep understanding of fundamental principles, development of creative ability to handle the challenges of Civil Engineering. The analytical ability to solve problems by various faculty and students encourages them to carry out research activities of interdisciplinary nature.

## ABOUT RICC

Research and Industrial Consultancy Centre has been established in the college to promote industrial consultation and it extends the consultancy and R&D services as per industry needs. The main objective of this center has been (i) to create a collaborative environment between industry and academia through joint projects and consulting assignments (ii) To develop a self sustaining and technologically fertile environment (iii) to encourage and enable the alignment of R&D activities at AKGEC to potential needs of industry, Under this center since 2007, there has been 28 projects which are completed and there are two important projects currently which are ongoing.

## ABOUT ICI

Indian Concrete Institute (ICI) is the national organization of engineering professionals, employed in concrete construction and associated research. It has several states centre spread all over India. ICI promotes growth of concrete construction and its sub-specialization. The ICI Ghaziabad Centre has **Er. A. K Sharma**, as its Chairman and **Mr. Rajeev Goel**, Sr. Scientist CRRI is in office bearer in ICI at the national level. ICI organizes various National and International workshops, conferences, seminars and exhibitions for benefitting all.

## ABOUT THE SEMINAR

The construction Industry is going through a paradigm shift from using conservative construction practices to the most modern methods and techniques including Automation, Robotics and 3D printing as well as newer building materials. It is found that 3D printing Technology with automation is no more just a technology demonstrator, but has arrived to stay into construction as well. Further, Robotics are not restricted to any particular branch of engineering which have been otherwise backbones of Automation in Automobile and aerospace Industries. These have also arrived now in construction Industry. Civil Engineers had always dreamt of transforming a drawing in 2D to a 3D model. For them what remained as very easy to

design on paper has been highly complicated to execute on the ground. Three dimensional constructions can be faster and more accurate, 3D printing turns as a better construction methodology in 21<sup>st</sup> Century.

In orders to ensure that the construction Industry should not be lagged in embracing any new technologies this Seminar will discuss and hold a poster session on all aspects of the development of 3D Printing, Robotics and Automation in construction and the outcome of such threadbare deliberation will help the prospective real estate developers, house owners to get design & implement the latest trends with all advantages into their dream projects.

**Speakers at this seminar are from the following CPWD, PWD Delhi, CBRI, DMRC & ACCI,**

## PATRONS

**Dr. Vinay Kumar Pathak**

*Vice- Chancellor, AKTU*

**Dr. R.K Agarwal**

*Director, AKGEC, Ghaziabad*

## ORGANIZING COMMITTEE

1. HOD, Dept of Civil Engineering.
2. HOD, Dept of Mechanical Engineering.

## CONVENERS

**Dr. K. Kamal**

Professor, Civil Engg.  
Dean (R & D)  
AKGEC

**Dr. Pradeep Jain**

Head, RICC  
Mechanical Engg.  
AKGEC

## COORDINATORS

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