International Certifications:
CLAD : Certified LabVIEW Associate Developer
CLD : Certified LabVIEW Developer
CLA : Certified LabVIEW Architecture

CERTIFIED

Certified LabVIEW Architect

Certified LabVIEW Developer

Certified LabVIEW Associated Developer

Courses Offered

The academy offers courses to B. Tech/M. Tech students of all disciplines, faculty and Industry Personnel from various organizations. These trainings provide hands on experience on latest state of art equipments pertaining to the field and current industry practices.

- **LabVIEW CORE I & II**
  The LabVIEW core I&II course helps the trainee to explore the LabVIEW environment, dataflow programming, and common LabVIEW architectures in a hands-on format with programming concepts, techniques, features, VI's and functions of Virtual Instrumentation Technology. Trainee has to create test and measurement system, data acquisition, instrument control, data logging, measurement analysis, and report generation applications.

- **LabVIEW CORE III & Connectivity**
  The concepts of LabVIEW Core III & Connectivity are required to be programmed with a high degree of skill in LabVIEW. This course increases proficiency by exposing the best practices for designing, developing, documenting, and testing LabVIEW applications. Trainees will learn how to develop, test, and deploy design for reducing execution time and improving application modularity.

- **LabVIEW Advance (Domain Specific Training)**
  This advanced course discusses how to design and implement scalable, extensible software architectures for large LabVIEW applications. Trainee participates in discussions, work independently and collaborate to learn how to architect an application and design components to support the architecture.

  - LabVIEW Machine Vision and Image Processing
  - Data Acquisition and Signal Conditioning
  - LabVIEW FPGA

TRAINING | RESEARCH | CONSULTANCY

Program Details

Eligibility	:	B. Tech – All Disciplines/Working Engineers/Supervisors
Duration	:	40Hrs
Intake	:	20 Seats per Program
Mode	:	Regular : Monday - Friday, 9:00 am to 5:00pm, Part time: Monday - Friday, 5:00pm to 7:00pm Weekend : Saturday - Sunday, 9:00 am to 5:00 pm
Trainer	:	Theory and hands-on session in training programs are conducted by faculty trained and certified from National Instruments, India
Registration	:	Online at www.akgec-ni.org
Accommodation	:	Limited guest house/hostel facility available for outstation participants on request on nominal charges

Test MEDICAL COMMUNICATION ULTIBOARD POWER NI ELVIS DATA ACQUISITION DC MOTOR TRAINER CONTROL & SIMULATION PRECISION AND ACCURACY **Measurement** SbRIO GRAPHICAL DESIGN AEROSPACE CONNECTIVITY VISION ACQUISITION EMBEDDED TRAINER TEST STAND **LabVIEW** MECHATRONICS TRAINER FPGA VISION Web Object Oriented Design C++ NI FlexRIO ROBOTIC LabWindows/CVI RENEWABLE MyRIO ACTIVE X Control C DIAdem MULTISIM HYBRID LOCOMOTIVE

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About AKGEC

Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad is affiliated to Dr. A.P.J. Abdul Kalam Technical University and is approved by the All India Council for Technical Education. The college was established in 1998 and 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, Electronics & Communication Engineering, Computer Science, Electrical Power & Energy Systems, VLSI Design and Mechanical Engineering. The college is certified for ISO 9001-2008 by BSI, UK.

The college has been consistently maintaining excellent academic results and placements. The college has the distinction of being the first and only college in UP to receive the Academic Excellence Award for the Best Engineering College in UPTU from H.E. the Governor of UP for two successive years. The college has received CMAI award for best industry interface from the Hon'ble Minister of Science & Technology, U.P. State

National Instruments

National Instruments India was set up in 1998 to propagate the revolutionary Virtual Instrumentation technology in the country.

National Instruments believes in constant innovation and invests 16% of its annual revenue in Research & Development. National Instruments India has a Research and Development wing in Bangalore which helps customers across the globe. NI India R&D has received more than 7 patents for innovations in the fields of Motion Control algorithms, RF and software development. NI LabVIEW and modular cost-effective hardware, sells to a broad base of more than 50,000 different companies worldwide. NI provides powerful, flexible technology solutions that accelerate productivity & drive rapid innovation.

AKGEC – NI LabVIEW Academy

AKGEC jointly with National Instruments (India) has set up AKGEC-NI LabVIEW Academy for Educational Institutions at AKGEC, Ghaziabad. This Academy is an initiative of NI under their Planet NI (Nurturing Innovation) framework, which strives to increase the employability of Indian engineering graduates through classroom teaching-learning process.

The LabVIEW Academy is the authorized centre to provide hands on training in LabVIEW for engineering students, faculty and industrial personnel in and around North India. The Academy is actively involved in conducting training courses for faculty, students and industry personnel from various engineering colleges/organizations. Trainers are duly trained by National Instruments, India and certified by National Instruments, US under 'Train the Trainer' program.

INFRASTRUCTURE:

The Academy is having following facilities:

Data Acquisition Lab:
The AKGEC-NI data Acquisition Lab introduces students to state-of-art data acquisition techniques and the concept of virtual instrumentation with modular hardware.

Mechatronics Trainer Lab:
The QNET Mechatronic Sensors Trainer lab is ideally suited to teach and demonstrate the fundamentals of interfacing with mechatronic sensors.

Measurement and Instrumentation Lab:
Lab provides a hands-on design and prototyping platform that integrates the 12 most commonly used instruments into a compact form factor ideal for the lab or classroom.

DC Motor Trainer Lab
DC Motor Control Trainer provides an ideal way to demonstrate the fundamentals of motor control, parameters tuning and haptics controlled via embedded or computer control.

Image Processing Lab:
The Image Processing Lab, comprising of NI LabVIEW and NI IMAQ Vision Module, provides mathematical algorithms for 2D signal and Digital Image Processing course with easy visualization.

RIO Technology:
This Lab helps students to design data acquisition, communication, and control hardware with flexibility of NI LabVIEW graphical programming using with NI PCI and PXI R Series DAQ devices.

Embedded system-LabVIEW Lab
The Lab demonstrates the utilization of embedded system tool with LabVIEW. All the embedded tools can be used along with LabVIEW to provide low cost solutions in high reliable environment.