AKGEC-NI
LabVIEW Academy

Machine Vision and Image Acquisition

TRAINING

RESEARCH

CONSULTANCY

AKGEC SKILLS FOUNDATION

AKGEC SKILLS FOUNDATION, an initiative promoted by Ajay Kumar Garg Engineering College (AKGEC) in collaboration with National Skill Development Corporation to strengthen 'Skill India' mission launched by Ministry of Skill Development & Entrepreneurship, Govt. of India.

The objective of this initiative is to encourage skill development for youth to align their technical competency to meet manpower requirement of modern Industries established under 'Make in India' initiative of Govt. of India. It also aims to nurture creativity and innovation in youth to promote Entrepreneurship.

AKGEC-NI LabVIEW Academy

AKGEC jointly with National Instruments (India) has set up AKGEC-NI LabVIEW Academy 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 by creating 'Centre of Excellence' in Engineering Colleges and Universities which will provide cost effective access to world class technology through classroom teaching-learning.

The LabVIEW Academy is an acclaimed ISO 9001:2008 and ISO 29990:2010 certified training centre to provide hands on training in LabVIEW for engineering students, faculty and corporate professionals in North India.

About Course

NI products give you the flexibility to address machine vision needs in your research, test and measurement, and industrial automated vision applications. This course teaches you to understand the fundamentals of machine vision, use and select the hardware components of a machine vision system, and implement machine vision tasks and inspections using LabVIEW.

- Introduction to Machine Vision and Image Acquisition
- Introduction to Lighting, Camera, and Optics
- Machine Vision Solution Strategies
- Acquiring and Displaying Images
- Getting Measurement-Ready Images
- Performing Particle Analysis
- Machine Vision Functions
- Calibrating Images
- Machine Vision Inspections
- Considerations for Creating a Successful Vision

Highlights

Classroom	: 3 days
On-Site	: 5 days
Virtual	: 5 days 3 - hrs session
Online	: Self-Paced
Language	: English
Duration	: 40 Hrs.
Prerequisite	: Engineers, B.Tech pursuing Students LabVIEW Core 1 Course or equivalent experience
Certification Partner	: National Instruments

▊▊ Key takeaways

- Understand the fundamentals of selecting and setting up the appropriate machine vision hardware components
- Develop a machine vision application in LabVIEW
- Acquire and display images in LabVIEW using machine vision hardware
- Use several image processing functions to process, analyze, and inspect images

▊▊ Application Areas

- Automotive & Industrial Automation
- Robotics & Image Processing
- Civil & Structural Engineering
- Mechanical & Production Engineering
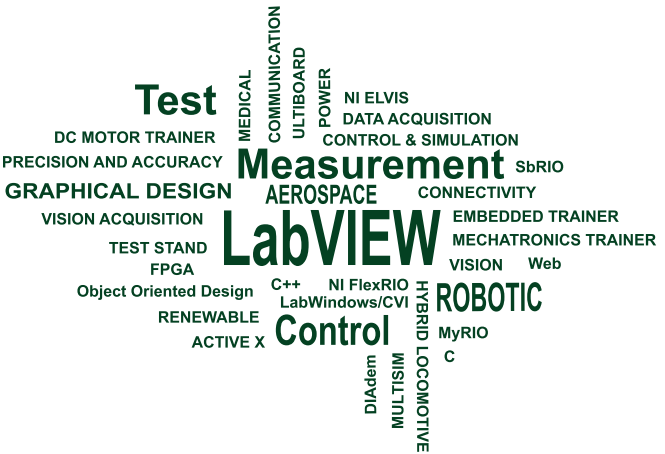- Aerospace & Military

International Certifications:

CLAD

Certified LabVIEW Associate Developer

CLD

Certified LabVIEW Developer

CLA

Certified LabVIEW Architecture

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
LabVIEW
EMBEDDED TRAINER
MECHATRONICS TRAINER
TEST STAND
VISION Web
FPGA
Object Oriented Design C++ NI FlexRIO
ROBOTIC
RENEWABLE LabWindows/CVI
MyRIO
ACTIVE X **Control**
C
DIAdem
MULTISIM
HYBRID LOCOMOTIVE

The perfect balance
between theory and practice ...

40 : 60

Centre Activities

- **Training Programs** — Students / Professionals
- **Consultancy**
- **Internships**
- **Webinars**
- **Workshops** — Roadshow / Seminars
- **Industrial Projects** — Proof of Concept / Prototyping

CONTACT INFORMATION

AKGEC NI LabVIEW Academy

📍 AKGEC Campus

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