

CAD CUSTOMIZATION



CURRICULUM

CAD Customization using SolidWorks API & C#

» Programming in C#

- Introduction to .Net Architecture
- Concept of Object Oriented Programming System
- Understanding the C# IDE
- Creating a .exe solution
- Structure of C# program
- Data Types and Variables
- Operators
- Debugging Techniques
- Classes and Interface
- Loops and Condition Statements
- Functions and Operator Overloading
- Exception Handling
- Working with File System Object
- Working with XML

» SolidWorks API Programming

- Creating a Standalone.EXE projects
- Connecting and Disconnecting to CAD
- Methods and Interfaces
- Types Arguments and Parameters of API Calls
- Setting up the environment for API Programming
- First API Program
- Understanding object Modal
- Open /Save/Close files
- Create/Edit/Delete Sketches
- Create/Edit/Delete Dimensions
- Sketch Relations ,Mirror and Pattern
- Create/Edit/Delete Features
- Working with Configurations
- Activate Documents
- Accessing Selection manager
- Counting Objects Selected
- Getting selected objects
- Getting Feature Type Name
- Accessing Object Definitions
- Handling Rollback bar in FM Tree
- Selecting feature by position
- Selecting feature by name
- Suppress/ Un-Suppress Features , Components

- Selection and Traversal Techniques
- Traversing Feature Manger
- Traversing Components
- Face/Edge Traversal
- Set/Get Face and Edge ID's
- Insert/Delete Components
- Mirror/Pattern Components
- Explode
- Working with Deign Tables
- Custom and File Properties
- Working with Mates
- Create/Position/Delete Drawing Views
- Working with Layers

» Advanced Programming with APIs

- Working DLL Projects – Creating Add-ins
- Debugging a DLL Program
- Creating Menus and Toolbars
- Events and Notifications
- Creating Property Manager Page
- Macro Feature

Partners :



edexcel

Java



development | consultancy | training

E-mail: info@ducatindia.com
Visit us: www.ducatinidia.com
www.facebook.com/ducateducation

NOIDA

A-43 & A-52, Sector-16,
Noida - 201301, (U.P.) INDIA
Ph. : 0120-4646464
Mb. : 09871055180

GURGAON

1808/2, 2nd floor old DLF,
Near Honda Showroom,
Sec.-14, Gurgaon (Haryana)
Ph. : 0124-4219095-96-97-98
Mb. : 09873477222-333

GREATER NOIDA

F 205 Neelkanth Plaza Alpha 1
commercial Belt Opposite to Alpha
Metro Station Greater Noida
Ph. : 0120-4345190-91-92 to 97
Mb. : 09899909738, 09899913475

GHAZIABAD

1, Anand Industrial Estate,
Near ITS College, Mohan Nagar,
Ghaziabad (U.P.)
Ph.: 0120-4835400...98-99
Mb. : 09810831363 / 9818106660
: 08802288258 - 59-60

FARIDABAD

SCO-32, 1st Floor, Sec.-16,
Faridabad (HARYANA)
Ph. : 0129-4150605-09
Mb. : 09811612707