Notice for Certificate Courses

Continuing Education Cell, NIT Raipur is offering the following certificate courses on GIS and AutoCAD. The proposed schedule for these courses is as follows:

S.No.	Course Name	Proposed schedule	Note
1	GIS	06.03.2021 to 12.03.2021	1. The course fees for the training program will be Rs. 10,000 + GST (18 %) per participant.
2	AutoCAD	15.03.2021 to 21.03.2021	2. If an organization wishes to pursue the course for it's employees then the course fees will be Rs. 2.00 Lakhs + GST (18%) for 20 participants. The course fees will remain same even if the number of participants are less than 20. If the number of participants are more than 20, the course fees will be Rs. 10,000 + GST (18%) for each additional participant.

Interested candidates and sponsoring agency can apply in the prescribed application form along with the course fee to the office of the undersigned. The course content is attached herewith. For any clarification the undersigned may kindly be contacted at sghosh.ele@nitrr.ac.in.

Dr. Subhojit Ghosh

Chairman, CEC

NIT, Raipur

AutoCAD Course Content

S.No.	Title of the Topic	Description
1	Getting Started with AutoCAD	• Starting AutoCAD • AutoCAD's User Interface • Working with Commands • AutoCAD's Cartesian Workspace • Opening an Existing Drawing File • Viewing Your Work • Saving Your Work
2	Basic Drawing & Editing Commands	• Drawing Lines • Erasing Objects • Drawing Lines with Polar Tracking • Drawing Rectangles • Drawing Circles • Undo and Redo Actions
3	Drawing Precision in AutoCAD	• Using Running Object Snaps • Using Object Snap Override • Polar Tracking at Angles • Object Snap Tracking
4	Making Changes in Your Drawing	• Selecting Objects for Editing • Moving Objects • Copying Objects • Rotating Objects • Scaling Objects • Mirroring Objects • Editing with Grips
5	Advanced Object Types	• Drawing Arcs • Drawing Polylines • Editing Polylines • Drawing Polygons • Drawing Ellipses
6	Advanced Editing Commands	• Trimming and Extending Objects • Stretching Objects • Creating Fillets and Chamfers • Offsetting Objects • Creating Arrays of Objects
7	Working with Blocks	• Creating Blocks • Editing Blocks
8	2D Isometric drawing	• Setting out the Snap & Grid • How to create 2D Isometric drawing
9	Hatching	• Hatching • Editing Hatches
10	Text	• Working with Annotations • Adding Text in a Drawing • Modifying Multiline Text • Formatting Multiline Text • Adding noted with Leaders to your Drawing • Creating Tables • Modifying Tables

11	Adding Dimensions	• Dimensioning Concepts • Adding Linear Dimensions • Adding Radial and Angular Dimensions • Editing Dimensions
12	Organizing Your Drawing with Layers	• What are Layers? • Layer States • Changing an Object's Layer

13	3D Fundamentals	• Introduction
		• Introduction to the 3D Modeling Workspace
		• Basic 3D Viewing Tools
		  • Preset 3D Views
		  • Orbiting in 3D
		  • Using Visual Styles

14	Simple Solids	• Creating Boxes and Wedges • Creating Pyramids • Creating Cylinders and Cones • Creating Spheres and Torus • Creating wall- like Solids with Polysolid • Creating Mesh Primitives • Creating Mesh Models from Objects • Creating Mesh Models

15	Advanced Solid Editing	• Editing Components of Solids
		  • Editing Faces
		  • Editing Edges
		  • Editing Vertices
		  • Modification Options
		• Editing Faces of Solids
		  • Extruding Faces
		  • Offsetting Faces and Edges
		  • Moving Faces
		  • Rotating Faces
		  • Tapering Faces
		  • Removing Faces
		  • Copying Faces

16	Additional Editing Tools	• Creating a Shell
		• Imprinting Edges of Solids
		• Slicing a Solid along a Plane
		• Interference Checking
		• Converting Object to Surfaces
		  • Creating Planar Surfaces from 2D Objects
		  • Converting 2D Objects to Surfaces
		  • Converting Solids to Surfaces
		• Converting Objects to Solids
		  • Converting 2D Objects to Solids
		  • Converting Surfaces to Solids
		  • Converting Solids or Surfaces to Wireframe

17	Creating Solids & Surfaces from 2D Objects	• Creating Surfaces and Solids • Extruded Solids and Surfaces • Swept Solids and Surfaces Modifying Sweeps

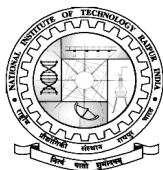|		
		• 3D Paths • Revolved Solids and Surfaces Modifying Revolves • Lofted Solids and Surfaces • Modifying Lofts

18	Modifying in 3D Space	• Aligning Objects in 3D Space
		  • Align Command
		  • 3D Align Command
		• 3D Modify Commands
		  • 3D Move and 3D Rotate
		  • 3D Scale
		  • Mirroring Objects in 3D
		  • Arraying Objects in 3D

19	Refining the View	• Working with Sections • Working with Cameras • Managing Views in 3D • Animating with Show Motion • Creating Show Motion Shots • Creating Animations
20	Working with the User Coordinate System	• UCS Basics • UCS Icon • Moving the UCS Origin • Moving the UCS to a Face • Moving the UCS Using 3 Points • The UCS X, Y and Z-Commands • UCS Multifunctional Grips
21	Visualization	• Creating Visual Styles • Working with Materials • Specifying Light Sources • Rendering Concepts

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GIS Course Content

S.No.	Title of the Topic	Description
1	Getting to know GIS	- Introduction to GIS - Introduction to ArcGIS - Introduction n to ArcCatalog - Introduction to ArcMap - Managing and saving files
2	Getting started with maps and data	- Displaying map data - Navigating a map - Looking at feature attribute - Browsing map data - Searching for map data
3	Spatial Data	- Working with projections - Geo-rectifying images
4	Creating new geographic files and digitizing	- Creating shape file: point, line and polygon - Setting projection t a shape file - Adding and editing shape file in workspace - Digitization - Measurement of digitized geometry - Add, modify, splitting and merging features - Transforming shape files (Dissolve, clip, intersect, union etc.)
5	Modifying attributes	- Working with tables - Calculating values - Calculating area, perimeter & length - Creating XY coordinates - Joining tables - Adding hyperlinks
6	Getting information about features	- Identifying, selecting, finding and hyper linking features - Selecting features by attributes - Working with tables
7	Working with 3D Analyst	3D model of vector data 3D model of raster data - Animating 3D scenes
8	Working with model builder	Creating a model for specific task using model builder
9	Making maps for presentations	- Symbolizing point data - Symbolizing area data - Labeling features - Designing map layouts - Making layouts - Exporting maps
10	Accessing data	Accessing spatial data through various web portals
11	Applications	- Application of GIS in urban and rural development and management - Application of GIS in natural resources management

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CONTINUING EDUCATION CELL
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
G.E. Road, Raipur – 492010 (C.G.)   Ph- (0771)2253934

APPLICATION FORM

Name of the Course Applied: ....

Name: ....

Father's/Husband's Name: ....

Date of Birth: .... Sex: Male ☐   Female ☐

Occupation: ....

Qualification: ....

Address..

....

....*E-mail ID:...

Phone (with STD code): Residence: ....Mobile: ....

Course applied for: ....

Fee Details:

Amount: ....DD No.: .... Date:...........................

Name of Bank................................

(Please write your name and course applied for in the back of the Demand Draft also.)

Date: **Signature of the Applicant**

Note:

1. The Fee Deposited for any course is non-refundable & non-transferable.
2. Information regarding the classes will be sent to through mail after registration.
3. If Applicant is in Government service, they need to apply through proper channel.

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For Office Use Only

Course: ....

Fee Details: ....

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