

Date : 12/02/2018

To,
The Administrative officer
Anjuman college of Engineering & Technology
Sadar Nagpur

Respected sir ,

Subject : course completion for F.Y. 2017 -18

We would like to inform that we had successfully complete course as per syllabus
For below mention class

| |
|---|
| Division : Electrical Engineering = AUTOCAD 3D |
| Division : Civil Engineering = AUTOCAD 3D & staad pro advance |
| Division : Mechanical Engineering = AUTOCAD 3D & Ansys |

Warm Regards

For Astral Informatics Pvt .ltd. Nagpur

Authorities Signature



| AutoCAD Advance | |
|------------------------|----------------------------------|
| | MODULE # 3 - 3D MODELLING |
| Lecture 19 | Polysolid |
| | Box. |
| | Cylinder |
| | wedge. |
| | Ducs |
| | |
| Lecture 20 | Subtract |
| | Material Browser. |
| | Colour face |
| | Adding material to single side |
| | |
| Lecture 21 | Cone. |
| | Sphere. |
| | Pyramid |
| | Torus. |
| | Helix |
| | Planer surface |
| | |
| Lecture 22 | Extrude |
| | Presspull. |
| | Revolve. |
| | Sweep |
| | Loft |
| | |
| Lecture 23 | Move gizmo |
| | Rotate Gizmo. |
| | 3D Align. |
| | 3D array |
| | |
| Lecture 24 | Extrude faces |
| | Move faces. |
| | Offset faces. |
| | Copy face |
| | |
| | |
| Lecture 25 | Delete face |
| | Taper face. |
| | Rotate face. |



| | |
|-------------------|---|
| | Chamfer |
| | Fillet |
| | |
| Lecture 26 | Copy edge |
| | Colour edge. |
| | Clean |
| | |
| Lecture 27 | Union |
| | Seperate. |
| | Intersect. |
| | Shell |
| | |
| | MODULE # 4 - VISUALIZATION AND WALKTHROUGH |
| Lecture 28 | Render |
| | Render environment. |
| | Render with sky background. |
| | Sun properties |
| Lecture 29 | Light |
| | Camera. |
| | Motion Path animation |
| | Raster image |
| | |
| | MODULE # 5 - LAYOUT & PLOTTING |
| Lecture 30 | Export |
| | Layout |
| | Creating Viewports. |
| | Plotting |
| | |
| | MODULE # 6 - ASSESMENT TEST |
| Lecture 31 | Discussion of model questions / Test |
| | |
| | MODULE # 7 - PROJECT |
| Lecture 32 | Project |
| | |
| Lecture 33 | Project |
| | |
| Lecture 34 | Project |
| | |
| Lecture 35 | Project |
| | |
| Lecture 36 | Project |



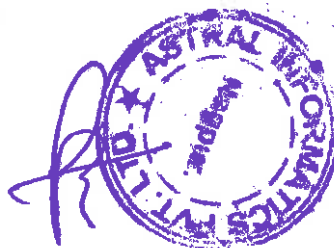
| AutoCAD Advance | |
|-------------------|----------------------------------|
| Lecture 26 | MODULE # 3 - 3D MODELLING |
| | Polysolid |
| | Box. |
| | Cylinder |
| | wedge. |
| | Ducs |
| | |
| Lecture 27 | Subtract |
| | Material Browser. |
| | Colour face |
| | Adding material to single side |
| | |
| Lecture 28 | Cone. |
| | Sphere. |
| | Pyramid |
| | Torus. |
| | Helix |
| | Planer surface |
| | |
| | |
| Lecture 29 | Extrude |
| | Presspull. |
| | Revolve. |
| | Sweep |
| | Loft |
| | |
| Lecture 30 | Move gizmo |
| | Rotate Gizmo. |
| | 3D Align. |
| | 3D array |
| | |
| Lecture 31 | Extrude faces |
| | Move faces. |
| | Offset faces. |
| | Copy face |
| | |
| | |
| Lecture 32 | Delete face |
| | Taper face. |
| | Rotate face. |



| | |
|----------------------|---|
| | Chamfer |
| | Fillet |
| | |
| Lecture 33 | Copy edge |
| | Colour edge. |
| | Clean |
| | |
| Lecture 34 | Union |
| | Seperate. |
| | Intersect. |
| | Shell |
| | |
| | MODULE # 4 - VISUALIZATION AND WALKTHROUGH |
| Lecture 35 | Render |
| | Render environment. |
| | Render with sky background. |
| | Sun properties |
| | Light |
| | Camera. |
| | Motion Path animation |
| | Raster image |
| | |
| Lecture 36 | MODULE # 5 - LAYOUT & PLOTTING |
| | Export |
| | Layout |
| | Creating Viewports. |
| | Plotting |
| | |
| Lecture 37 | MODULE # 6 - ASSESMENT TEST |
| | Discussion of model questions / Test |
| | |
| | MODULE # 7 - PROJECT |
| Lecture 38-42 | Project |
| | Project |
| | Project |
| | Project |
| | Submission of project |



| Staad Pro Advance | |
|--------------------------|--|
| Lecture 12 | Model 4 : RCC Building Analysis and Design |
| | Modelling |
| | Material |
| | Property |
| | |
| Lecture 13 | Model 5 : Steel Building Analysis and Design |
| | Material |
| | Property |
| | Analysis |
| | Design |
| | Practice |
| | |
| Lecture 14 | Project 3 |
| | |
| Lecture 15 | Model 6: Truss |
| | |
| Lecture 16 | Model 6: Truss |
| | |
| Lecture 17 | Project 4 |
| | |
| Lecture 18 | Model 7 : Girder |
| | |
| Lecture 19 | Water Tank |
| | |
| Lecture 20 | Water Tank |
| | |
| Lecture 21 | Project 5 |

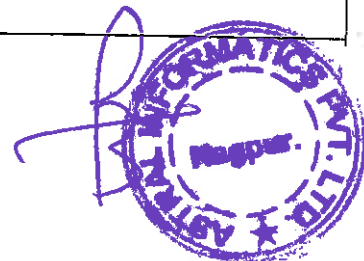


| AutoCAD Advance | |
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| MODULE # 3 - 3D MODELLING | |
| Lecture 24 | Introduction to 3d modeling, Cone,box,sphere,pyramid.toruous,wedge, ducs,Helix |
| Lecture 25 | Extrude,Presspull.sweep.loft |
| Lecture 26 | substract,union.intersect.3d arrey,rotate,align |
| Lecture 27 | move face,rotate face,taper face,offset face,shell |
| MODULE # 4 - LAYOUT & PLOTTING | |
| Lecture 28 | Export |
| | Layout |
| | Creating Viewports. |
| | Plotting |
| MODULE # 5- VISUALIZATION AND WALKTHROUGH | |
| Lecture 29 | Render |
| | Render environment. |
| | Render with sky background. |
| | Sun properties |
| Lecture 30 | Light |
| | Camera. |
| | Motion Path animation |
| | Raster image |
| MODULE # 6 - ASSESMENT TEST | |
| Lecture 31 | Discussion of model questions / Test |
| MODULE # 7 - PROJECT | |
| Lecture 32-36 | Project |



Ansys

| | Description |
|----------------------|--|
| Lecture 1 | <u>Introduction to FEA and ANSYS</u> |
| | Introduction to FEA |
| | Types of Analysis |
| | Important Terms and Definitions |
| | Introduction to ANSYS |
| | ANSYS Multi-physics Utility Window |
| Lecture 2-4 | <u>Basic Solid Modeling</u> |
| | Solid Modeling in ANSYS |
| | Creating and Modifying Work planes |
| | Coordinate System in ANSYS |
| Lecture 5-6 | <u>Advance Solid Modeling</u> |
| | Advance Solid Modeling |
| | Creating Complex Solid Modeling |
| | Importing Solid Model |
| Lecture 7 | <u>Finite Elements Modeling (FEM)-1</u> |
| | Elements Attributes |
| | Real Constant |
| | Material Properties |
| | Elements Attributes Table |
| Lecture 8 | <u>Tutorial - 1</u> |
| Lecture 9 | <u>Tutorial - 2</u> |
| Lecture 10 | <u>Tutorial - 3</u> |
| Lecture 11 | <u>Tutorial - 4</u> |
| Lecture 12-13 | <u>Finite Elements Modeling (FEM)-2</u> |
| | Mesh Generation |
| | Mesh Density |
| | Meshing the Solid Model |



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| Lecture 16-21 | <u>Advance Structural Analysis (Dynamic and Nonlinear)</u> |
| | Advance Structural Analysis |
| | Dynamic Analysis |
| | Performing the Model Analysis |
| | Performing the Harmonic Analysis |
| | Performing the Transient Analysis |
| | Nonlinear Analysis |
| | |
| Lecture 22-25 | <u>Thermal Analysis</u> |
| | Important Terms Used in Thermal Analysis |
| | Steady-State Thermal Analysis |
| | Transient Thermal Analysis |
| | Solving the Analysis Problem |
| | |
| Lecture 26-27 | <u>CFD Analysis</u> |
| | Important Terms Used in CFD Analysis |
| | Laminar Analysis |
| | Turbulent Analysis |
| | |
| Lecture 28-29 | <u>Advance Level Project</u> |
| | Contact Mechanics |
| | MEMS |
| | |
| Lecture 30 | <u>Generation the Report of Analysis</u> |
| | ANSYS Report Generation |
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