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Move: Moves one or more objects. It is called dynamic input because the information moving with the cursor is updated with the motion of the cursor. The company makes educational versions of its software available at no cost to qualified students and faculty through the Autodesk Education Community, and also as a donation to eligible nonprofits through TechSoup Global. This tool allowed users to create detailed technical drawings, and was affordable to many smaller design, engineering, and architecture companies. 3. Layers can reduce the visual complexity of a drawing and improve display performance by hiding information that you don't need to see at the moment. Autodesk software has been used in many fields, from the New York Freedom Tower to Tesla electric cars. OPENING FILES There are three ways to open a drawing in AutoCAD. 19. The command window and the ribbon complement each other i.e. you can type commands on the command line or click on the ribbon icons. For polar arrays, you control the number of copies of the object and whether the copies are rotated. This method scales the object equally in all directions. Select the two object which intersect and then tap enter. Typical uses of arc length dimensions include measuring the travel distance around a cam or indicating the length of a cable. Saving a File as You Work It's a good idea to save your file periodically as you work on it. It improves the quality of the drawing which we can't get by hand drafting. The platform is used by 2.0 Mn + students and 70000+ companies. These are called page setups. 50 BIBLIOGRAPHY WEBSITES: Click and hold down the Orbit wedge. Clicking on the command tool/icon on the Ribbon Panels. ix. Dynamic Input When dynamic input is on, tooltips display information near the cursor as it moves. vi. DRAWING UNITS & LIMITS UNITS The format, precision, and other settings used to display coordinates, distances, and angles are set through this dialog box, and are saved in the current drawing. Zoom a. In 2D, you specify points on the XY plane, also called the work plane. I. AutoCAD software allows developers to give form to their out of the box ideas. vii. Workspace switching tool takes the form of a gear wheel located at the bottom right hand corner of the active window. They include box, wedge, cone, cylinder, sphere, pyramid and torus. Using Application Menu Click on Application Menu> Open On the select file dialogue box that appears, browse through the folders in the Look in slot. For a, b and c use the zoom and pan tools as follows: i. Currently this service is offered free of charge. Distances measured along an isometric axis are correct to scale, but because you are drawing in 2D, you cannot expect to extract other 3D distances and areas, display objects from different viewpoints, or remove hidden lines automatically. You cannot revolve objects contained within a block or objects that will self-intersect. Whenever you invoke a command, by either typing it or selecting a menu option or tool, AutoCAD responds by presenting messages to you in the Command Window and the Dynamic Input display or by displaying a dialogue box. It is very essential, when drawing in 3D. NAVIGATION TOOLS OBJECT DISPLAY I. The following are some sample blocks at various scales. The company has offices worldwide, with U.S. locations in Northern California, Oregon, Colorado, Texas and in New England in New Hampshire and Massachusetts, and Canada locations in Ontario, Quebec, and Alberta. 21 v. The base of the cylinder is always on a plane parallel with the workplane. INTRODUCTION 4 10. You can switch between workspaces by using the Workspace Switching Tool. Originally, people printed text from printers and plotted drawings from plotters. 17 Zoom wedge, the model is zoomed out or you can hold down the Ctrl key to zoom in. AUTOCAD WINDOW Once the AutoCAD 2014 window is active, it should appear as shown on the image shown below. 23 x. Alternatively, you can press F5 or Ctrl+E to cycles through the isoplanes. INTRODUCTION Autodesk, Inc. 25. Founded by Sarvesh Agrawal, an IIT Madras alumnus, in 2010, the website helps students find internships with organisations in India. PARTNERSHIPS In August 2016, Telangana's not-for-profit organisation, Telangana Academy for Skill and Knowledge (TASK) partnered with Internshala to help students with internship resources and career services. It is a boundless area on which your designs are created on a 1:1 scale regardless of their actual life size. 11 that workspace. 26 Explode: Polylines, hatches or blocks can be converted into individual elements with the explode option. If you select a mesh, you can convert it to a solid or surface before completing the operation. Some Drawings of Tables 38. Release the button on your pointing device to return to the wheel. To pan the drawing with the pan tool. The cursor changes to the Pan cursor. The use of AutoCAD has many advantages. LAYER 34 25. 32. 48 53. These dimensions prevent escalating errors by maintaining accurate offsets of the features from the datum. 6. When you specify the center point, the torus is positioned so that its central axis is parallel to the Z axis of the current user coordinate system (UCS). By using the ISODRAFT command, several system variables and settings are automatically changed to values that facilitate isometric angles. Scale: A scale factor greater than 1 enlarges the object. For rectangular arrays, you control the number of rows and columns and the distance between each. The principles of drawing them are similar. The basic types of dimensioning are linear, radial, angular, ordinate, and arc length. TECH (MECH.) SEMESTER Roll No. 4. 12 Coordinate System (WCS. It's a single-word instruction you give to AutoCAD telling it to do something such as draw a line (the line tool in the Draw Ribbon Panel) or erase an object (the Erase tool in the Modify Ribbon Panel). This is especially useful when you need to duplicate several objects at the same distance from each other. Autodesk became best known for AutoCAD but now develops a broad range of software for design, engineering, and entertainment as well as a line of software for consumers, including Sketchbook, Homestyler, and Pixlr. Chamfer is almost identical to fillet, but it will make a straight line instead of an arc. Release 2.1 of AutoCAD, released in 1986, included AutoLISP, a built-in Lisp programming language interpreter initially based on XLISP. 28 1. Using the Quick Access Toolbar Click on File pull down menu> Open At the Select file dialogue box, browse through to the folder in the Look in slot. 3D MODELING 41 28. Therefore, you can draw the top plane, switch to the left plane to draw a side, and switch to the right plane to complete the drawing. PRODUCTS 6 12. Quick Access toolbar This includes the basic file-handling functions that you find in virtually all windows application programs. In this case select save as from the file pull down or the application menu. 9. IV. We can easily transfer files from one place to another in no time which reduces the time. Orbit i. Rectangle: The Rectangle command is used to draw a rectangle whose sides are vertical and horizontal. These are also typed on the key board. Display one of the View Object or Full Navigation wheels. As a result the tabs on the menu bar are called ribbon tabs. Internshala aims to be the driver of this change. COORDINATES ENTRY 15 18. 37 13. 2. Angular Dimensions - Angular dimensions measure the angle between two selected geometric objects or three points. Select OPEN. If you type the X value and press tab, the X field (box) displays a lock icon, The Y field is active and you can enter its value. Clicking on a file allows you to look at a preview of the drawing. To be able to draw effectively with AutoCAD, you must learn how to tell AutoCAD what you want, and even more important, understand what AutoCAD wants from you. The magnification of the model is increased and you are zoomed in closer to the model. TABLE 33 24. 30. 14. CHAPTER – 1 INTERNSHALA 1 – 3 02. Multiline Text - For longer notes and labels with internal formatting, use multiline text 2. The pan tool allows you to drag your drawing to a convenient location on the screen. View hidden details c. Menu bar The menu bar appears just below the title bar of the AutoCAD 2014 window. 11. Example is Ctrl+S for save and Ctrl+C for copy. The company is offering good services, which is reflected on the satisfaction of the customer. The latest version was released on 21st March 2017 as AutoCAD 2018. 49 CHAPTER - 4 CONCLUSION Internshala has a very good market in the internship program. Student Name B. B. Finally, I am indebted to all whosoever have contributed in this report work. TABLE A table is a compound object that contains data in rows and columns. This method of drawing provides a fast way to create an isometric view of a simple design. If you type the X value and press enter, the Y value is ignored and AutoCAD interprets it as direct 20. The company was founded in 1982 by John Walker, a coauthor of the first versions of AutoCAD, the company's flagship computer-aided design (CAD) software. 4. 45 Intersect: With INTERSECT, you can create a 3D solid from the common volume of two or more existing 3D solids, surfaces, or regions. Command tools. Two-dimensional coordinates can be entered as either Cartesian (X, Y) or Polar coordinates. The cross hairs or drawing cursor which may be at any position on the screen depending on whether the user has touched the mouse or not. 34. These are special keystrokes that open and activate drop down menu options. Subtract: Creates as a new object by subtracting one overlapping region or 3D solid from another. Copy: Copy's one or more objects. COORDINATES ENTRY 1. 25 Trim: With the trim option objects can be shortened or lengthened with the edges of other objects. 38 Once inserted, the block definition is stored in your current drawing. 43. CHAPTER – 3 AUTOCAD 9 – 48 13. Polyline: The Polyline command is similar to the line command except that the resulting object may be composed of a number of segments which form a single object. Sweep: Creates a 3D solid or 3D surface by sweeping a 2D object or subobject along an open or closed path. Now, you can do both with either. In that case, use the BLOCK command to create the block definition. 19 limits correctly. 15 5. Make sure you organize your blocks into easy-to-find folders. The help rendered by NAME, Training & Placement Head is greatly acknowledged. The second tip gives a brief explanation of how to use the tool. TEXT COMMAND 1. Top. PARTNERSHIPS 2 06. HISTORY 2 05. Since the late 1990s, the company has added a number of significant non-AutoCAD-based products, including Revit, a 10. Whenever you launch AutoCAD you will be in the world coordinate system (WCS). I would like to express a deep sense of gratitude and thanks profusely to NAME, Instructor, without the wise counsel and able guidance, it would have been impossible to complete the report in this manner. To keep track of all the modifications, the Save As tool is very essential. At the core of the idea is the belief that internships, if managed well, can make a positive difference to the student, to the employer, and to the society at large. The little square at the base of the arrows tells you that you're in what is called the World 16. 33 11. Give it a name that signifies its current status i.e. taking into account the changes. NO. Aligns snap and grid along 30- and 90-degree axes. Baseline and Continued Dimensions - Continued dimensions, also called chained dimensions, are multiple dimensions placed end-to-end. when you enter coordinate values, you indicate a point's distance in units and its direction (+ or -) along the X, Y, and Z axes relative to the coordinate system origin (0,0,0). Arc:The Arc command allows you to draw an arc of a circle. The X value of Cartesian coordinate specifies the horizontal distance, and the Y value specifies the vertical distance. 32 10. 20 iii. Absolute coordinates Represents a specific point in the current work plane relative to the origin point (0,0). In the default condition, the drawing area will have three icons on display: i. Ordinate Dimensions - Ordinate dimensions measure the perpendicular distances from an origin point called the datum, such as a hole in a part. Subsequent to AutoCAD Release 13, the company stopped supporting the Unix environment and the Apple Macintosh platform. 27 9. We explored different materials ranging from text, tutorials and Youtube videos so as get to grips with the finer details of mastering AutoCAD. If you explode a polyline every segment will become a separate line. Click and hold down the Zoom wedge. 48. CONTENTS SR. As with any Windows program, you can save it under its original name by click on the Save tool on the Quick Access toolbar or under a different name by choosing Save As from the Application menu, thereby creating a new file. You communicate with AutoCAD by using tools and Menu options. VISION Internshala is a dot com business with the heart of dot org. Cylinder: The cylinder was created using a center point (1), a point on the radius (2), and a point for the height (3). 46. COMMANDS 19 21. This is the distinguishing aspect between relative and absolute coordinates. If this object is a Polyline or a Circle, the duplicate shape will be transformed inwards or outwards. Display one of the Full Navigation Wheels or the mini View Object Wheel. The company Autodesk provides wide range of application and software which reduces the effort to create complex drawing and easy to maintain. This command requires four inputs from the user, the number of sides, a pick point for the centre of the polygon, whether you want polygon inscribed or circumscribed and then a pick point which determines both the radius of this imaginary circle and the orientation of the polygon. 43 Extrude: Objects can be extruded orthogonally from the plane of the source object, in a specified direction, or along a selected path. Polygon: The Polygon command can be used to draw any regular polygon from 3 sides up to 1024 sides. 26. Info Center This is AutoCAD's online help facility. Hold it there for a little while and then for a longer while. 49. If you modify a drawing you may wish to save it again but retaining the original template. View the hidden details of your 3D drawing. VISION 1 04. Some Drawings with Dimensions: 35. Depending on which tab you are on, you will see a collection of tool icons just below it which are organized into panels. Use this method if you do not plan to insert the block into any other drawing. A single new 3D solid or surface is created. You can also convert existing 2D objects such as lines, 2D polylines, arcs, and circles to 3D solids with a default height, width, and justification. 13 choice. Autodesk's digital prototyping software, including Autodesk Inventor, Fusion 360, and the Autodesk Product Design Suite, are used in the manufacturing industry to visualize, simulate, and analyze real-world performance using a digital model during the design process. The Drawing Units dialog box is displayed. We were guided by the fact that there is more to learning AutoCAD than drawing simple figures and lines. TEXT COMMAND 32 23. Choosing one of the three isoplanes automatically causes the crosshairs cursor, and precision drawing and tracking tools to be aligned along the corresponding isometric axes. INTRODUCTION 9 14. Polysolid: You can create a 3D solid with polysolid just as you would a polyline. SELECTING THE WORKSPACE 12 16. Autodesk has also developed a few vertical programs: AutoCAD Architecture AutoCAD Civil AutoCAD Electrical AutoCAD ecscad AutoCAD Map 3D AutoCAD Mechanical AutoCAD MEP AutoCAD Structural Detailing 14. 5. The drawing area is also called the canvas. Aligns snap and grid along 30- and 150-degree axes. HISTORY The platform started as a WordPress blog which aggregated internships across India and articles on education, technology and skill gap in 2010. BLOCK In AutoCAD, a block is a collection of objects that are combined into a single named object. Signature: HOD NAME HOD (Mechanical) 3. BOOLEAN OPERATIONS: Union: Combines two or more 3D solids, surfaces, or 2D regions into a single, composite 3D solid, surface, or region. Display a wheel. Drag to rotate the model. Some Drawings including Text 37. It will be appearing on the list of workspaces during switching and you can select it as an option. It can help to reduce the time it takes to produce the drawing needed in the work environment. BLOCK 37 26. There are numerous ways to define an arc; the default method uses three pick points, a start point, a second point and an end point. OVERVIEW AND DEFINITIONS. Some PDF Format of Drawing 52. 51. You will see two tool tips. Use of Accelerator Keys. 29. 10. Dimension styles allow you to specify your conventions quickly and maintain industry or project dimensioning standards. 18 NB: To navigate to the zoom, pan or orbit tools, go to: a. Drag vertically to zoom in or out. What is a command? 8. 7 Media and entertainment - Autodesk Media and Entertainment products are designed for digital media creation, management, and delivery, from film and television visual effects, color grading, and editing to animation, game development, and design visualization. Release the button on your mouse to return to the wheel. Click Close to exit the wheel. It is the tool that enables you to view the objects in your drawing from different angles. PRODUCTS & SERVICES Internshala offers following products & services to its users: 1. We emphasize that it is with reference to your last specified point and not to the origin. A dialogue box appears asking whether to save the changes on the drawing. When you specify the center point, the sphere is positioned so that its central axis is parallel to the Z axis of the current user coordinate system (UCS). It has such tabs as home, solid, surface, mesh and view among others for the case of 3D workspace. 33. ISOMETRIC DRAWINGS A 2D isometric drawing is a flat representation of a 3D isometric projection. The user coordinate system icon at the bottom left corner. This report covered the preview of our learning path and study materials. To pan using the middle mouse button or the mouse wheel. Click OK. Torus: Specifies the center point of the torus. PRODUCTS Architecture, engineering and construction – AutoCAD Architecture AutoCAD MEP AutoCAD Civil 3D AutoCAD Map3D AutoCAD P&ID AutoCAD Plant 3D Manufacturing - The Company's manufacturing software is used in various manufacturing segments, including industrial machinery, electro-mechanical, tool and die, industrial equipment, automotive components, and consumer products Fusion 360 Autodesk Product Design Suite Autodesk Factory Design Suite Autodesk Inventor Suite Autodesk Inventor Professional Suite AutoCAD Mechanical Autodesk Vault Simulation Mechanical 11. Sphere: Specifies the center point of the sphere. Methods of Accessing/Activating Commands. Clicking on it produces a drop down list of other alternative workspaces. At the right of this button, there is the phrase "3D modeling". Cartesian Coordinate System A Cartesian coordinate system has three axes, X, Y, and Z. b. INTRODUCTION 1 03 2. This procedure applies to any other set of fields for instance distance and angle. 7. In 2015, Internshala was a finalist in People Matters TechHR 2015 Spotlight Awards under 'Futurism in Recruitment' category. Since 2010, AutoCAD was released as a mobile- and web app as well, marketed as AutoCAD 360. Internship posting: Organization & individuals looking to hire interns can post their internship requirement on Internshala. Pan a. From then on, you can choose it from the Name drop-down list without needing to click the Browse button. Select yes to save the changes and no if you don't want to effect the changes. C. Others involve a series of iterative stages before settling on the final copy. SELECTING THE WORKSPACE A workspace is a task-oriented drawing environment oriented in such a way as to provide you with only the tools and interface elements necessary to accomplish the tasks relevant to that environment. For example a line can be exactly fitted between objects. Draw Command Tools i. Think of it as the size of your drawing area. MODIFY COMMANDS Offset: Create a duplicate object parallel with the original object. 13. Save and restore the printer settings for each layout. However the command prompts that appear on the command window prevent the user from getting confused. Arc Length Dimensions - Arc length dimensions measure the distance along an arc or polyline arc segment. At the Select file dialogue box, browse through to the folder in the Look in slot. This opened the door for third party developers to extend AutoCAD's functionality, to address a wide range of vertical markets, strengthening AutoCAD's market penetration. INSERT A BLOCK Typically, each of these blocks is an individual drawing file, perhaps saved in a folder with similar drawing files. It has very vast application in the field of manufacturing, architecture, electrical, and many more. Rotate: You can rotate objects with an absolute or relative angle. Maya Softimage 3ds Max Mudbox Smoke Flame Lustre 12. Aligns snap and grid along 90- and 150-degree axes. Some of these blocks are realistic representations of objects, some are symbols, and one of them is an architectural title block for a D-size drawing. III. Some Drawings using Draw and Modify Toolbars 31. This is very useful in 3D drawing because it facilitates viewing the object from multiple directions. If you switch to 2D Drafting & Annotation you find other tabs relevant to 15. Left. However it's usually a good practice to save your files before closing them. Select intersect command. REVOLVE ignores the width of a polyline and revolves from the center of the path of the polyline. It is also possible to create complete circles from arcs. The website was launched in 2013. Type in the file name and then click save. PRINTING & PLOTING 46 29. This is the only company which provide internship in India. Drawing Area This is a virtual sheet or modeling environment where your designs appear. It is useful for creating symmetrical objects because you can quickly draw half the object and then mirror it instead of drawing the entire object. Relative coordinate A relative coordinate is a point specified with reference to the last point specified. Bring the whole drawing into focus. The first time you insert the drawing as a block, you need to click Browse to locate the drawing file. The view cube at the top right corner. FILING AND DATA INPUT AutoCAD 2014 file operations are similar to the file operations in any other Windows program. 15. The polygon command creates a closed polyline in the shape of the required polygon. Alternatively you can switch the workspace by clicking on the downward arrow besides the name of the current workspace on the quick access toolbar. HISTORY 5 11. The use of AutoCAD may also be relied on heavily in order to create efficiencies within the industries. Hatch: Hatch is used to add shaded patterns to objects and shapes. 35 With layers, you can Associate objects by their function or location Display or hide all related objects in a single operation Enforce linetype, color, and other property standards for each layer 40. NAVIGATION TOOLS 16 19. COMMANDS 1. CHAPTER – 4 49 – 50 30. To zoom a view in and out by dragging. A low tolerance value causes the spline to form close to the control points. The first tip gives you the tool tip name and the keyboard command associated with the tool. Internship search and application: Students from all over India can search and apply for internships and trainings relevant to their coursework and interest free of cost. For d use the orbit tool. OVERVIEW. You can also customize the workspace the way you want and then save it. 3ds Max and Maya are both 3D animation software used in film visual effects and game development. You can use the Isometric Drafting tool on the status bar to select the desired isoplane. They are activated or deactivated by switching them on or off respectively. I would like to express gratitude to other faculty members of Mechanical department for their intellectual support throughout the course of this work. Clicking on any of the tabs on the menu bar will give you a different ribbon. Using the command line At the command prompt on the command line, type Open and enter. Objects in the second selection set are subtracted from objects in the first selection set. 3D MODELING 3D solid primitives are standard shapes which are provided among the ribbon options on the 3D modeling workspace. 6 parametric building modeling application (acquired in 2002, from Massachusetts-based Revit Technologies for $133 million), and Inventor, an internally developed parametric mechanical design CAD application. BIBLIOGRAPHY 50 5. Clicking on either changes the workspace to the selected 17. To the extreme right of the status bar we find another panel which contains the model and layout tabs, annotation scale and workspace switching tool (gear wheel icon) among others. PRODUCTS & SERVICES 2 08. You can create an aligned, horizontal, or vertical dimension with the DIM command depending on how you move the cursor when placing the text. These aids assist the user in managing snap and tracking actions. AutoCAD software is the most amazing range of mechanical computer aided design tool. Limits: When you start a new drawing, and then decide how much space I need for my drawing. This happens to all other tools on the ribbon. [i] DECLARATION I hereby certify that the work which is being presented in the report entitled "AUTODESK AUTOCAD" in fulfilment of the requirement for completion of one month industrial training in department of Mechanical Engineering of "University Name and Address" is an authentic record of my own work carried out during industrial training. To enter an absolute coordinate, type the values as a Cartesian coordinate (X,Y) or Polar coordinate (distance, angle). By so doing it prompts you on your next move. When a command prompts you for a point, you can use the mouse to specify a point, or you can enter a coordinate value at the command prompt. It occurs at the immediate right of the application menu. This is the UCS icon, which tells you your orientation in the drawing. Autodesk is headquartered in San Rafael, California, and features a gallery of its customers' work in its San Francisco building. Spline: A spline is a smooth curve that is fitted along a number of control points. CREATE A BLOCK DEFINITION Instead of creating a drawing file to be inserted as a block, you might want to create a block definition directly in your current drawing. Radial Dimensions - A radial dimension measures the radius or diameter of arcs and circles with an optional centreline or center mark. Command Window. There are a number of ways you can define the circle. Enter -units at the Command prompt to display options. 27. CLOSING A FILE Simply click on the X button on the top right corner of the AutoCAD window to close a drawing. Loft: Creates 3D solid or surface in the space between several cross sections. ISOMETRIC DRAWING 39 27. The X and Y arrows indicate the X- and Y-axes of your drawing. CHAPTER – 2 AUTODESK 4 – 8 09. When you issue any command it may also display a list of options related to that command. UCS UCS stands for User Coordinate System. DIMENSION TOOLBAR You can create several types of dimensions for a variety of object types in many orientations and alignments. This means that the active workspace is 3D modeling. DIMENSION TOOLBARS 27 22. Display the 2D Navigation wheel, one of the Full Navigation wheels, or the mini View Object wheel. 8. INTRODUCTION Sarvesh Agrawal Founder of Internshala Internshala is an internship platform, based out of Gurgaon, India. It carries such functions as workspace switching and title, new file, open file, save and undo among others. In these circumstances, AutoCAD offers the required flexibility as opposed to manual drawing. After AutoCAD Release 14 (R13 was last DOS & Unix release), first shipped in 1997, Autodesk discontinued development under DOS, and focused exclusively on Microsoft Windows. 18. With the help of this software, drawing can be easily modified whenever wanted which reduces the human effort. You can extrude 2D profiles and then intersect them to create a complex model efficiently. 7. 16 distance entry. In the lower-left corner of the drawing area, you see an L-shaped arrow. The Fit Tolerance option can be used to control how closely the spline conforms to the control points. 41 15. Linear Dimensions - Linear dimensions can be horizontal, vertical, or aligned. Zooming out enables you to see the details that are currently spilt out of the screen or make the object smaller in readiness to add details. Application Menu This provides the user with file options like save, open, print. Press and hold down the scroll wheel or middle button. It's AutoCAD and Revit software is primarily used by architects, engineers, and structural designers to design, draft, and model buildings and other structures. i. When using an absolute angle: Specify the base point and then specify the rotation angle. 44. Release the button on your mouse. View tab> navigate panel> orbit. You can also specify a taper angle. Polar Coordinate System Polar coordinates use a distance and an angle to locate a point. d. It occurs immediately below the menu bar. If you hold down the Shift key while clicking the 21. This enables you to navigate to the folder where you've saved your drawing. 46 16. DRAWING UNITS & LIMITS 18 20. Box: Box command on the toolbar modeling is used to draw 3D models such as cubes and block. 24 Array: Create copies of objects in a rectangular or polar pattern. FILE SAVING To save a drawing for the first time The Save Drawing dialogue box appears when you are saving a drawing for the first time. AutoCAD has grown to become the most widely used CAD program for 2D non- specialized applications. Advertisement: Internshala enjoys a very strong reach among students in campuses all over India and organizations looking to advertise their products, services, events and competitions to college students can avail of customized advertising solutions on various Internshala channels (Website, Newsletter, and Social Media). Thus it is also known as the command prompt. Now you can click Open in the select file dialogue box. 42 Wedge: The direction of the taper is always in the positive X-axis direction of the UCS. Towards the right next to the coordinate readout is the drawing aids panel which carries such tools as object snap, object snap tracking, dynamic UCS and polar tracking among others. 42. Select two or more objects of the same type to combine. When you need to insert one into your current drawing file, you use the INSERT command (or enter I in the Command window). Hence, the 6. Zoom in to magnify and zoom out to minimize the size. Autodesk introduced its current logo at the TED conference in Long Beach, California on February 26, 2013 3. The entire collection of tool icons is referred to as the ribbon. Extend: With the extend option you can shorten or lengthen objects to meet the edges of other objects. This icon becomes helpful as you start to work with complex 2D drawings and 3D models. 1. The standard isometric planes, called isoplanes, are as follows: Right. Absolute and Relative Coordinates i. Extending an object works in the same way as trimming. Then you can define drawing 23. 44 Revolve: Creates a 3D solid or surface by sweeping an object around an axis. Status Bar The status bar is a thin strip of the AutoCAD window found between the command window and the taskbar. The origin point (0, 0) indicates where the two axes meet. You can control the appearance of dimensions by setting up dimension styles, or by editing individual dimensions in special cases. You must specify at least two cross sections. Prior to the introduction of AutoCAD, most commercial CAD programs ran on mainframe computers or minicomputers, with each CAD operator (user) working at a separate graphics terminal. The cursor changes to the Orbit cursor. In 1989, Autodesk's sales grew to over $100,000,000 after just four operational years. To zoom a view with a single click. 12. Construction Line: The construction line commands creates a line of infinite length which passes through two picked point. The plot style table provides information about processing colors. AutoCAD is available for English, German, French, Italian, Spanish, Korean, Chinese Simplified, Chinese Traditional, Brazilian, Portuguese, Russian, Czech, Polish and Hungarian, Albanian (also through additional Language Packs). This software is utilized to provide some useful and practical designing software that will allow users to visualize as well as create prototypes of a product in reality and quick time. You are the required to navigate through the folders in the save in slot to select the folder in which you want to save your drawing. In the 1990s, with the purchase of Softdesk in 1997, Autodesk started to develop specialty versions of AutoCAD, targeted to broad industry segments, including architecture, civil engineering, and manufacturing. 47 For convenience, you can save and restore collections of these settings by name. NB: The mouse wheel is a very convenient way of zooming in and out. It guides us to help to set up and manage a large project. Use of Aliases; (one, two or three letter abbreviations of a command name). 4 CHAPTER - 2 AUTODESK 1. A table can also be linked to data in a Microsoft Excel spreadsheet. 3 2. In the Steering Wheels Settings dialog box, under Zoom Tool, select Enable Single Click Incremental Zoom. Do not click yet. 5 of software for building information modeling is designed to let users explore the planning, construction, and management of a building virtually before it is built.[8] Autodesk's Media and Entertainment division creates software for visual effects, color grading, and editing as well as animation, game development, and design visualization. is an American multinational software corporation that makes software for the architecture, engineering, construction, manufacturing, media, and entertainment industries. 22. Move the arrow cursor to the Line tool and rest it there. Click and hold the Pan wedge. Click the Zoom wedge. The general file handling commands include file saving, file opening, file closing and printing of drawings. 30 Baseline dimensions are multiple dimensions with offset dimension lines measured from the same location. 24. CONCLUSION 49 31. INTRODUCTION AutoCAD is a commercial computer-aided design (CAD) and drafting software application. Command: LIMITS Reset Model space limits: Specify lower left corner or [ON/OFF] : 0, 0 Specify upper right corner : 300,200 8. 39 14. 31 36. 40 Some Isometric Drawing 45. STUDENT NAME Name and Signature of student The industrial training viva-voce examination of Mr. /Ms._____, B.TECH (Mechanical Engineering) has been held on _____. Some 3D Drawings: 50. To the extreme left it carries the coordinate readout which indicates to the user the current position of the cursor. AutoCAD is used across a wide range of industries, by architects, project managers, engineers, graphic designers, and many other professionals. PARTICULARS PAGE NO. iii. View tab> navigate panel> pan or c. FILING AND DATA INPUT 13 17. Single-line Text - For short, simple notes and labels, use single-line text. Release the wheel or button on your mouse. 28. HISTORY Autodesk's first notable product was AutoCAD, a computer-aided design application designed to run on the systems known as "microcomputers" at the time, including those running the 8-bit CP/M operating system and two of the new 16-bit systems, the Victor 9000 and the IBM Personal Computer (PC). 10 AutoCAD Utility Design AutoCAD P&ID AutoCAD Plant 3D for discipline-specific enhancements 2. 16. Ellipse: The Ellipse command gives you a number of different creation options. ii. The cursor changes to the Zoom cursor. Fillet: You can use the fillet tool to connect two objects with an arc with a specified radius. 9 CHAPTER - 3 AUTOCAD 1. LAYER Layers are the primary method for organizing the objects in a drawing by function or purpose. It's located just below the drawing area. View tab> navigate panel> zoom or b. AUTOCAD WINDOW 10 15. 2 ad-hoc culture surrounding internships in India should and would change. The position and size of the rectangle are defined by picking two diagonal corners. You gain this level of control by organizing the objects in your drawing on layers that are associated with a specific function or a purpose. It might be helpful to think of layers as clear plastic sheets: 39. v. 54. Mirror: Create a mirror image of an object. The native file formats written by AutoCAD, DXF and DWG, are also widely used for CAD data interoperability. Ribbon This is a collection of tool panels representing groups of tools and features where you will be selecting tools to draw, edit, or perform other functions. 1. Internshala launched its online trainings in 2014. Right-click the wheel and click Steering Wheel Settings. The cross sections define the shape of the resulting solid or surface. You can pick: Pattern, Scale, Angle, Points 3. 01. The cursor changes to the Pan cursor. 22 viii. Majority of the interns are satisfied with the service. If the dynamic input is switched you can enter coordinate values in tooltips near the cursor. It can be created from an empty table or a table style. VOCATIONAL TRAINING REPORT DEPARTMENT OF MECHANICAL ENGINEERING UNIVERSITY NAME ADDRESS Submitted In Partial Fulfilment for the Requirement of Four Weeks Industrial Training At FROM _____TO _____ SUBMITTED BY:- STUDENT NAME ROLL NUMBER SEMESTER 2. Overview When drawing in both 2D and 3D, you may wish to: a. Type LIMITS enter. Internshala Trainings: Internshala offers a variety of online training programs across multiple disciplines (Web development, Java, Hacking) which students can join from the comfort of their homes and learn the skills needed in today's industry. Defines the radius of the torus and then define the radius of the tube. The default option is to pick the two end points of an axis and then a third point to define the eccentricity of the ellipse. It is now considered to be the best according to industry standards that can be obtained for a wide array of designing, Mechanical Engineering Services and other industrial purposes. 8 13. Click save. Objects can exactly be fitted between these objects. II. iv. With the help of AutoCAD, we can create design very quickly. [ii] ACKNOWLEDGEMENT I am highly grateful to NAME, Vice Chancellor, University Name and Address for providing this opportunity to carry out one month practical training at INTERNSHALA. 14 Select OPEN. However if you look at the upper left hand corner there is a button with the letter (A) written in red. The default method is to pick the centre point and then to either pick a second point on the circumference of the circle or enter the circle radius at the keyboard. Some will require modifications at virtually every stage. It is also possible to scale an object using a reference object. PRINTING AND PLOTTING Output a drawing layout to a printer, a plotter, or a file. Join: You can use the join option to combine similar objects into one single object. Accessing the tools A. It makes feel free to adjust the recommendations to suit the way we work. Creates a box with sides of equal length. Typing the command on the Keyboard. Get a closer look (magnify your drawing). It is recommended that you save these settings to your drawing template files to reduce your setup time when you start a new drawing. Line: With the Line command you can draw a simple line from one point to another. That is called the application menu of the AutoCAD software. The company's Revit line 9. With page setups you can store the settings that you need for different printers, printing in gray scales, creating a PDF file from your drawing, and so on. Circle: The Circle command is used to draw circles. Defines the radius or diameter of the sphere. These devices invoke AutoCAD commands. AWARDS AND RECOGNITION In 2011, the website became a part of NASSCOM 10K Startups. 34 12. 36 Some Drawings with Layers 41. 29 4. As you type in commands on the command line, or pick commands on the ribbon panels, a message is displayed on the command window telling you what to do next. By right clicking during the drawing process, a context-sensitive short cut menu is displayed; i.e. if you are in the middle of a command, this menu displays a list of options specifically related to that command. If you are online type a query there in case you get stuck. The constant guidance and encouragement received from NAME, HOD Mechanical Engineering, University Name and Address has been of great help in carrying out the project work and is acknowledged with reverential thanks. Use the DIM command to create dimensions automatically according to the object type that you want to dimension. Making Changes Coming up with certain drawings may not take place in one pass. In September 2016, Team Indus, Google XPRIZE shortlisted entity has partnered with Internshala for college outreach for its initiative, Lab2Moon. 1 CHAPTER - 1 INTERNSHALA 1. Developed and marketed by Autodesk, AutoCAD was first released in December 1982 as a desktop app running on microcomputers with internal graphics controllers. AWARDS & RECOGNITION 2 07. Drag to reposition the model. Type 0,0 as lower left corner then type or click the coordinate for upper right corner based on the units which is in Inches or mm. 47. The inside corner is called a fillet and an outside corner is called a round.

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