

CERTIFICATE COURSE IN AUTO CAD

(6 MONTHS)



Offered by:

**STATE BOARD OF TECHNICAL EDUCATION AND TRAINING
SANKETHIKA VIDYA BAHVAN, MASAB TANK,
TELANGANA: HYDERABAD**

COURSE CODE - 03 AUTO CAD

SUB CODE	NAME OF THE SUJECT	PERIODS/WEEK		TOTAL PERIODS PER 6 MONTHS	SCHEME OF EXAMINATION			
		Theory	Practicals		Duration Hours	Sessional Marks	End Exam Marks	Total Marks
AC.101	BASIC AUTO CAD-2D	03	--	50	02	--	100	100
AC.102	BASIC AUTO CAD-3D	03	--	50	02	--	100	100
AC.103	AUTO CAD-2D PRACTICAL	--	06	75	03	40	60	100
AC.104	AUTO CAD-3D PRACTICAL	--	06	75	03	40	60	100
	TOTAL	06	12	250	10	--	--	400

SUBJECT TITLE : BASIC AUTOCAD-2D
SUBJECT CODE : AC 101
PERIODS/WEEK : 03
PERIODS/YEAR : 50

S.NO.	MAJOR TOPICS	NUMBER OF PERIODS
01	Auto CAD Basics:	05
02	Drawing simple objects	05
03	Basic Tools & Advanced Tools	10
04	Drawing layers & creating Text	10
05	Drawing Complex objects	10
06	Working with data blocks	10
	TOTAL	50

UNIT-1: Auto CAD Basics: Starting to Draw, Opening Drawing-Using Commands, Windows interface, Command line, Command Techniques, Of Mice and Pucks, Getting help in Auto CAD

UNIT-2: Specifying Coordinates, and Setting-up Drawing- Drawing in Two Dimensions: Drawing Simple Lines, Curves and Point Objects

UNIT-3: Viewing the Drawing in Various Views-Editing the Drawing in Two Dimensions: Basic Tools, Advances Tools

UNIT-4: Drawing in Two Dimensions: Organizing-Layers, Colors, Line Types, Line Weights- Getting Information from Drawing, Creating Text

UNIT-5: Drawing Dimensions, Styles and Tolerances- Complex Objects, Plotting and Printing

UNIT-6: Working with Data: Blocks and Attributes, Referencing other Drawing- Working with External Databases

SUBJECT TITLE : BASIC AUTOCAD-3D
SUBJECT CODE : AC 102
PERIODS/WEEK : 03
PERIODS/YEAR : 50

S.NO.	MAJOR TOPICS	NUMBER OF PERIODS
01	Drawing in Three Dimensions	05
02	Creating 3D Surfaces	05
03	Rendering in 3D	05
04	Drawing: components	10
05	Working with other Applications,	10
06	Customizing Menus	15
	TOTAL	50

UNIT-1: Drawing in Three Dimensions: Specifying 3D Coordinates, Viewing 3D Drawing

UNIT-2: Creating 3D Surfaces, Solids and Editing in 3D

UNIT-3: Rendering in 3D

UNIT-4: Organizing and Managing Drawing: components, Setting Standards, Tracking

UNIT-5: Working with other Applications, and Internet - Customizing Auto CAD: Commands, Toolbars, Macros, Slide Shows

UNIT-6: Line Types, Hatch Patterns, Shapes and Fonts, Customizing Menus - Programming Auto CAD: Understanding and Exploring Auto LISP and Visual LISP

SUBJECT TITLE : **AUTO CAD-2D PRACTICAL**
SUBJECT CODE : **AC 103**
PERIODS/WEEK : **06**
PERIODS/YEAR : **75**

S.NO.	MAJOR TOPICS	NUMBER OF PERIODS
01	Auto CAD Basics:	10
02	Drawing simple objects	15
03	Basic Tools & Advanced Tools	10
04	Drawing layers & creating Text	10
05	Drawing Complex objects	10
06	Working with data blocks	20
	TOTAL	75

UNIT-1: Auto CAD Basics: Starting to Draw, Opening Drawing-Using Commands, Windows interface, Command line, Command Techniques, Of Mice and Pucks, Getting help in Auto CAD

UNIT-2: Specifying Coordinates, and Setting-up Drawing- Drawing in Two Dimensions: Drawing Simple Lines, Curves and Point Objects

UNIT-3: Viewing the Drawing in Various Views-Editing the Drawing in Two Dimensions: Basic Tools, Advances Tools

UNIT-4: Drawing in Two Dimensions: Organizing-Layers, Colors, Line Types, Line Weights- Getting Information from Drawing, Creating Text.

UNIT-5: Drawing Dimensions, Styles and Tolerances- Complex Objects, Plotting and Printing

UNIT-6: Working with Data: Blocks and Attributes, Referencing other Drawing- Working with External Databases

SUBJECT TITLE : **AUTO CAD-3D PRACTICAL**
SUBJECT CODE : **AC 104**
PERIODS/WEEK : **06**
PERIODS/YEAR : **75**

S.NO.	MAJOR TOPICS	NUMBER OF PERIODS
01	Drawing in Three Dimensions	10
02	Creating 3D Surfaces	15
03	Rendering in 3D	10
04	Drawing: components	10
05	Working with other Applications,	10
06	Customizing Menus	20
	TOTAL	75

UNIT-1: Drawing in Three Dimensions: Specifying 3D Coordinates, Viewing 3D Drawing

UNIT-2: Creating 3D Surfaces, Solids and Editing in 3D

UNIT-3: Rendering in 3D

UNIT-4: Organizing and Managing Drawing: components, Setting Standards, Tracking

UNIT-5: Working with other Applications, and Internet - Customizing Auto CAD: Commands, Toolbars, Macros, Slide Shows

UNIT-6: Line Types, Hatch Patterns, Shapes and Fonts, Customizing Menus - Programming Auto CAD: Understanding and Exploring Auto LISP and Visual LISP