AUTOCAD



SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING

(College established in 2005 & Approved by AICTE) 1-2439043/52, Fax: 0121-2439067, E-mail: engineering@subharti.org, Web. www.engineering.subharti.org

A constituent college of

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)

SITE (ME) VA (2019 11 1

Department of Mechanical Engineering

Dated: 03-10-2019

NOTICE

The Department of ME starts a value added course on "AUTOCAD 2018". For interested students which will provide them the opportunity to enhance their knowledge in the field of CAD/CAM technology. The proposed course will be open only for ME students and the students will be enrolled on first come first serve basis. The course will be provided to the student with a cost of Rs.700/- only. This course will be coordinated by Er. Sachin Kumar & Er Krishna Kumar Sharma, Assistant professor, Department of ME.

Important Dates:

- Last date for receipt of application- 5 Oct, 2019
- Last date for acceptance application- 11 Oct, 2019

CC

- Principal
- Department of ME

Registration Form

MEERUT

Prof. (Dr.) RAVISH KUMAR SRIVASTAVA HOD (ME)

SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE

TITLE NAME: AUTOCAD 2018 CONTACT HOUR: L: 3 T: 1

Course Objective

As morning to a second

On completion of this Subject/Course the student shall be able to:

1. Understanding the AutoCAD workspace and user interface. Navigate throughout AutoCAD using major navigating tools.

2. Understand the concept and techniques to draw. Create multiple designs using several of tools. Create layers to control the objects' visibility.

3. Explain drawing using annotations. Plot or print the drawing by scale.

4. 3D modeling concepts in AutoCAD

5. Materials, lights & rendering. Working with images.6. To use constraint for certain design.

MODUL E	PARTICULAR	
	Introduction of AutoCAD, Units control, Draw Menu (Illitroduction to computer), Introduction to AutoCAD Screen layout, Line; Circle; Arc, Ellipse; Erase, Opps; New , Open, Save, Save As.; Close, Closed, Quit, exit , lext, Style, Spell, Mtext , View, Color, Line type, Line weight., Zhim, pan , Regen., Disviewer , Regenauto, Redraw, Find, Layer , Matchprop, Properties, Osefect, Louder , Tolerance, Closder , Xline, Rey , Dimstyle; Polygon, Move , Copy , Assist , Aircy , Break , Mitrori, Offset , Scale , Rotate , Solid, Denut , Revoloud , Limits, Disettings (cisnap, ortholidy) nouting , Units , Trim , Extend , Stretch , Bhatch, Hatch , Pline, Pedit , Fillet, Chamfer , Rename , Gripedit , Matchprop , Id., List, Dist, Area , Lengthon , Spline, Spline , Spline , Spline, Circle, Arc, Hatch, Gradlent, Pagitin, Point, Table, Vitext, Rectangle, Spline, etc.) Modifying command Color, Line type, Function Keys Pt., E2, F3, F4, (erase, copy, mirror, offset, arrey, roll, Le, Scale, stretch, break , oin, fill or , chamfer.	4
2	explode, trim, extend atc). Inculry Commands, Dimensions (Diminear, Dimoligned, Dimidlameter, Dimendius, Dimordinate, Dimoenter, Dimbaseline, Dimountinuous, Qdim, Fictor, Shoup, Cal, Blocks, Wblock, Insert, sketch, Blocks v. Xref, Xref, Design content Productivity Commands (Tool Palettes, Layout Management, Layout Winner, Productivity Layout, Mview, Minsert, Divide, Measure, Mskirle, Vslide, Script, Sidelie, Rscript, OLE concepts, Poste, Pastespec, Pastoblock, Posteorig, Insertobj, Olefriks, Olescale, Hyperlink, Intro to Plotter and printer, Plot style Table, Plotting, DWF format, etc). 20-drawing Exercise 1, Exercise 2, Exercise 3, Exercise 4	4
3	Introduction of 3dD modeling Standard Printives(80x, Cvillae, Solid Sphere, Sphere	4
4	Modifying 3D (union, subtract, Intersect, slice etc) Working with viewports and layout Mirroring Objects in 3D, Moving Objects in 3D, Aligning Objects in 3D,	2

Rotating Objects in 3D, Creating a 3D Rectangular Array, Creating a Stepped 3D Rectangular Array, Creating a 3D Release	-
	-
Creating a 3D Path Array, Scaling Objects in 3D, 3D drawing Exercise 1, Exercise 2, Exercise 4, AUTOCAD REVIEW	2

Course Outcome

Upon successful completion of this course, it is expected that:

- 1. Student's ability to hand letter will improve.
- Student's ability to perform basic sketching techniques will improve.
- 3. Students will be able to draw projections and sections.
- 4. Student's ability to use engineering scales will increase
- 5. Student's ability to produce engineered drawings will improve.
- 6. Students will become familiar with office practice and standards.
- Students will become familiar with Auto Cad two-dimensional and three dimensional drawings.

REFERENCE BOOKS

- Nelson Johnson (1989) AutoCAD, McGraw-Hill, Inc.
- Prof Sham Tickoo Purdue Univ. August 2, 2017AutoCAD Plant 3D 2018.Publications, CADCIM Technologies.
- 3. Cheryl R. Shrock and Steve Heather Advanced AutoCAD 2018, Publications Industrial Press.
- 4. Fane, Bill, (June 12, 2019) AutoCAD for Duramies:
- James (April 30, 2015), AutoCAD 2016 SDC Publications.

Additional Learning Source

- 1. https://skillscouter.com/online-autocad-courses/
- https://www.linkedin.com/learning/autocad-2018-essential-training
- 3. https://blog.scitraining.com/what-is-drafting-in-autocad/
- 4. https://www.hitechcaddservices.com/news/autocad-mechanical-2d-drawings-not-going-obsolete-in-3d-
- 5. https://www.thesourcecad.com/autocad-basic-3d-practice-drawing-tutorial/
- 6..https://cloud2k.edupage.org/cloud/vykresy.pdf?z%3A5aKAaqrcDvLVDsKtShHKvUgL%2B5hZLRjW RIiXjY0jEF3KDjsWzOKIEA0UhtVacTuM

REPORT OF COMPLETION

AutoCAD -18

We are highly grateful to Dr. Manoj Kapil, principal, Subharti institute of technology and engineering Meerut for providing permission to conduct the fifteen days value added course (AutoCAD-2018) in the Mechanical engineering department. The AutoCAD-18 training is successfully completed by the students in the institute. Following are the outcomes that the students have learned during the training.

AutoCAD18 is the software that prepares 2D and 3D technical drawings. These drawings are used as blueprints to construct products and structures, such as buildings, machinery, toys, microchips, plumbing & electrical systems, vehicles and a host of other manufactured goods. AutoCAD drafting professionals hold a range of job titles, including engineer, drafter, estimator, designer, modeler, architect and illustrator.

The constant guidance and encouragement received from Principal, SITE has been of great help in carrying out the training and is acknowledged with reverential thanks.

CO-ORDINATOR

HOD (ME)



Participants during value added course

LIST OF STUDENTS

S. NO.	STUDENT NAME	FATHER NAME
1	Hrishikesh	Hrishikesh
2	Aman Ansari	Aman Ansari
3	AmrendraPratap Singh	AmrendraPratap Singh
4	Anup Kumar Sharma	Anup Kumar Sharma
5	Avinash Kumar	Avinash Kumar
6	Balram Sharma	Balram Sharma
7	Irshad Khan	Irshad Khan
8	Md. KhurshidAlam	Md. KhurshidAlam
9	Mohammad Adnan	Mohammad Adnan
10	Rahul Monga	Rahul Monga
11	RanjeetGautam	RanjeetGautam
12	Ravi Ranjan	Ravi Ranjan
13	SafdarAsharaf	SafdarAsharaf
14	Chandan Mani	Chandan Mani
15	Mohit Shama	Mohit Sharma
16	Sharoon Safi	Sharoon Safi
17	Sulanthung N Jami	Sulanthung N Jami
18	ArchitShukla	ArchitShukla
19	ShivamPratap Singh	ShivamPratap Singh









CERTIFICATE OF TRAINING

This Certificate is Presented to

AMAN ANSARI

For Successfully Completing "AUTOCAD TRAINING"

As the Part of Value aided Course Organized by Mechanical Engineering Department

During 14 October 2019 to 04 November 2019.

- Jewel Harrie

Mr. Sachin Kumar Course Coordinator Ir K K Sharm

Mr. K K Sharma Course Coordinator Odi

Prof. (Dr.) Ravish Shrivastava HOD ME Department Prof. (Dr.) Manoj Kapil

Principal







CERTIFICATE OF TRAINING

This Certificate is Presented to

RAHUL MONGA

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During 14 October 2019 to 04 November 2019.

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Mr. Sachin Kumar Course Coordinator 9

Mr. K K Sharma Course Coordinator O Se

Prof. (Dr.) Ravish Shrivastava HOD ME Department Prof. (Dr.) Manoj Kapil Principal







CERTIFICATE OF TRAINING

This Certificate is Presented to

SHAROON SAFI

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During 14 October 2019 to 04 November 2019.

There's promise

Mr. Sachin Kumar Course Coordinator 9

Mr. K K Sharma Course Coordinator of (Dr.) Pavish Shrivasi

Prof. (Dr.) Ravish Shrivastava HOD ME Department

Prof. (Dr.) Manoj Kapil Principal







CERTIFICATE OF TRAINING

This Certificate is Presented to

RAVI RANJAN

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During 14 October 2019 to 04 November 2019.

Mr. Sachin Kumar Course Coordinator Mr. K K Sharma Course Coordinator Prof. (Dr.) Ravish Shrivastava HOD ME Department

Prof. (Dr.) Manoj Kapil Principal