

SOLID WORKS 2020 is indispensable software for modeling manufacturing parts and assemblies with proper sequence in order to have perfect motion of the mechanism so associated. It is important to understand the format of the software in order to use it effectively. This software is designed to be used along with an instructor; however, you will need to do a lot of reading as well, in order to fully understand SOLID WORKS 2020. The exercises in this software will list steps for you to complete, along with explanations that inform you. Before design in any software tool like Autocad, Creo, CATIA it is mandatory to students to be little sound in engineering drawing and graphics.

**Chief Patron: Prof.(Dr.) ManojKapil
Prof.(Dr.) Ravish Kumar Srivastava**

Course Coordinators:

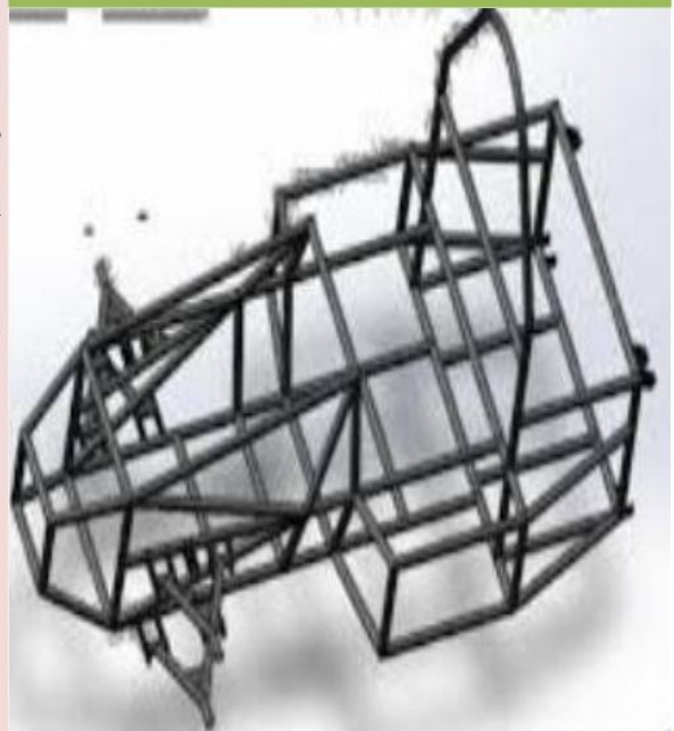
Mr. Sachin Kumar(7017002605)

Mr. Krishna Kumar Sharma(7905121871)

Course Content:

SOLIDWORKS part design and assembly design
SOLIDWORKS Drafting and Sheet Metal Design
SOLIDWORKS Model Based Definition
SOLIDWORKS Surface Design

**Value Added Course on “SOILD
WORKS 2020” Training Organized
by Department of Mechanical
Engineering, SITE, SVSU**



DATE 13TH SEPT,2021 TO 21ST SEPT,2021

**Organized By
Department of Mechanical Engineering
Subharti Institute of Technology &
Engineering, Meerut**

About Subharti University

SUBHARTI IS A MISSION OF SERVICE It is committed to provide basic necessities of life such as healthcare and education to everyone without any bar of caste, creed, religion or any other man made factors, by establishing schools, colleges, hospitals, ashrams and Service Centers. SUBHARTI IS A REVOLUTION OF LOVE AND SACRIFICE. It aims to bring people together by removing hatred, spreading love, building up of moral & national character and extending service to mankind so as to make the dream of VASUDHAIV KUTUMABKAM come true.

ABOUT SOLID WORKS 2020 SOFTWARE

SOLID WORKS 2020 is indispensable software for modeling manufacturing parts and assemblies with proper sequence in order to have perfect motion of the mechanism so associated. It is important to understand the format of the software in order to use it effectively. This software is designed to be used along with an instructor; however, you will need to do a lot of reading as well, in order to fully understand SOLID WORKS 2020. The exercises in this software will list steps for you to complete, along with explanations that inform you. Before design in any software tool like Autocad, Creo, CATIA it is mandatory to students to be little sound in engineering drawing and graphics.

Large assembly drawing for working faster, faster assembly drawing, Flexible components

Creating assembly designs faster while maintaining an accurate bill of materials, Faster calculation and improved accuracy for simulation, expanded interoperability with 3D interconnect, direct mesh editing, automobile part design.

COURSE OBJECTIVE

- To impart fundamental knowledge to students in the latest technological topics on Computer Aided Design.
- To create congenial environment that promotes learning, growth and imparts ability to work with inter-disciplinary groups in professional, industry.
- To broadens and deepens their capabilities in analytical and experimental research methods.
- To provides guidance to students for their choices in research and professional career outlook and to encourage students to take up research.

➤ Course Content

- SOLIDWORKS part design and assembly design
- SOLIDWORKS Drafting and Sheet Metal Design
- SOLIDWORKS Model Based Definition
- SOLIDWORKS Surface Design

➤ Course Duration

16 hours

➤ Chief Patron

Prof. (Dr.) Manoj Kapil (Principal)

Prof. (Dr.) Ravish Srivastava (HOD-ME)

➤ Course Coordinator

Mr. Sachin Kumar

Sachin819851@gmail.com, 7017002605

Mr. Krishna Kumar Sharma


Registrar
Swami Vivekanand
Subharti University
MEERUT

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SUBHARTI INSTITUTE OF TECHNOLOGY
AND ENGINEERING,
SWAMI VIVEKANAND SUBHARTI
UNIVERSITY

NH-58, Delhi-Haridwar Bypass Road
Subhartipuram, Meerut, Uttar Pradesh, 250005

VALUE ADDED COURSE
ON
SOLID WORKS 2020

Organized By

Department of Mechanical Engineering

13th SEPT. 2020 to 21st SEPT. 2020

REGISTRATION FORM

1. Name of Participant: _____

2. Department: _____

3. Year & Sem: _____

4. Phone Number: _____

5. Email: _____

I undertake to abide by the rules and Regulations of the competition imposed by the organizing Department and will participate with utmost discipline for the same.

Date: _____ Signature of Applicant

SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE: SOLID WORKS 2020

CODE: ET-VA-21

CONTENT:

- 1. Introduction** to solid work, SOLIDWORKS Part Design: GUI of SOLIDWORKS application, Create 2D sketches and apply Constraint, Create 3D models in OLIDWORKS Part design, About Sketcher workbench, Learn Sketch Based Features, Apply Dress-up Features, Create configuration at part level, Create parts using Boolean operations
- 2. SOLIDWORKS ASSEMBLY DESIGN:** About basic Assembly Constraints, Create SOLIDWORKS Assembly Design Constraints, Use advanced commands to create assembly, Customize the settings to work with large assemblies.
- 3. SOLIDWORKS DRAFTING:** GUI of Drafting workbench, Generate different views, Apply dimension and customize dimension styles, Generate Sectional and Auxiliary views, Generate BOM and modify table
- 4. SOLIDWORKS SHEET METAL DESIGN,** GUI of Sheet Metal workbench, Create Base Flange, Convert Solid body into Sheet Metal, Different types of Flanges, Create Forming tool, Understand the Fold, Unfold and Flatten views.
- 5. SOLIDWORKS MODEL BASED DEFINITION:** Importance of MBD, Learn the various GD&T options in SOLIDWORKS, Apply annotations on 3D parts and products, Capture 3D views and publish drawings to 3D PDF, Generate e-drawings and convert them to various file formats. SOLIDWORKS Surface Design: Introduction to GUI of Surface Design workbench, Create Curves and Wireframes using 3D Lines, Points, Planes and Splines, Learn to use Extruded, Revolved and Lofted commands, Create Boundary, Fill, Freeform, Planar surface and Knit surface, Use of Delete, Extend and Replace commands, Create 3D Corner and Projection Curves, Create Swept surfaces and Blend features, Connect surfaces using Split, Trim and Join commands, Add thickness to surface



Registrar
Swami Vivekanand
Subharti University
MEERUT



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SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING
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DEPARTMENT OF MECHANICAL ENGINEERING
(Approved by AICTE.)



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Report
On
Value Added Course on Solid Works


Dated : 13/09/2021. to 21/09/2021.

Timings: 04:00 pm to 06:00 pm (daily)

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 (**SOLID WORKS 2020**) in the Mechanical engineering department. **SOLID WORKS 2020** training is successfully completed by the students in the institute. Following are the outcomes that the students have learned during the training.

SOLID WORK 2020 is the software that prepares 3D technical drawings. These drawings are used as blueprints to construct automobile parts and structures, such as buildings, machinery, toys, microchips, plumbing & electrical systems, vehicles and a host of other manufactured goods. Solid work 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.


Prof. (Dr). Ravish Kumar Srivastava
HOD (ME), SITE, SVSU
Meerut


Registrar
Swami Vivekanand
Subharti University
MEERUT




VAC: SOLID WORKS

SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING, MEERUT
SWAMI VIVEKANAND SUBHARTI UNIVERSITY MEERUT
DEPARTMENT OF MECHANICAL ENGINEERING

Attendance for Value Aided Course : Solid Works 2020

S. No.	Name of Participants	13 Sept. 21	14 Sept. 21	15 Sept. 21	16 Sept. 21	17 Sept. 21	18 Sept. 21	20 Sept. 21	21 Sept. 21
1	AJIT KUMAR	P	P	P	P	P	P	P	P
2	MD ASHRAF	P	P	P	P	P	(A)	P	P
3	Raman Kumar Jha	P	P	P	P	P	P	P	P
4	RAJ KUMAR SAHANI	P	P	P	P	A	P	P	P
5	PRAMOD KUMAR	P	P	P	P	P	P	P	P
6	PUSHPANSHU SUMAN	P	P	(A)	P	P	P	P	P
7	RAVI KUMAR	P	P	P	P	P	P	P	P
8	REHAN AHMAD KHAN	P	P	P	P	P	P	P	P
9	SHOAIB AKHTAR	P	(A)	P	P	P	P	P	P
10	SONU KUMAR	P	P	(A)	P	P	P	P	P
11	CHHOTU KUMAR CHAUDHARY	P	P	P	P	P	P	P	P
12	SHUBHAM KUMAR S/O ANANDI	P	P	P	P	(A)	P	P	P
13	PUSP RANJAN KUMAR CHAURASIYA	P	P	P	P	P	P	P	P
14	SAJID EQBAL	P	P	P	P	P	P	P	P
15	BALMIKI KUMAR	P	P	P	P	P	P	P	P


 Prof. (Dr.) Ravish Kumar Srivastava
 HOD (ME), SITE, SVSU
 Meerut


 Registrar
 Swami Vivekanand
 Subharti University
 MEERUT

ALUE ADDED COURSES

SESSION: 2020-21

COURSE NAME: SOLID WORKS

COURSE CODE: ET-VA-21

LIST OF STUDENTS

S. NO.	STUDENT NAME
1	AJIT KUMAR
2	MD ASHRAF
3	Raman Kumar Jha
4	RAJ KUMAR SAHANI
5	PRAMOD KUMAR
6	PUSHPANSHU SUMAN
7	RAVI KUMAR
8	REHAN AHMAD KHAN
9	SHOAIB AKHTAR
10	SONU KUMAR
11	CHHOTU KUMAR CHAUDHARY
12	SHUBHAM KUMAR S/O ANANDI
13	PUSP RANJAN KUMAR CHAURASIYA
14	SAJID EQBAL
15	BALMIKI KUMAR





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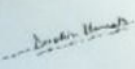
VAC/ME/2021/010

CERTIFICATE OF TRAINING


This Certificate is presented to

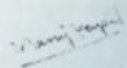
SONU KUMAR

For Successfully Completing "SOLID WORKS 2020 TRAINING"
As the Part of Value aided Course Organized by Mechanical Engineering Department
During 13 September 2020 to 21 September 2021.


Mr. Sachin Kumar
Course Coordinator


Mr. K K Sharma
Course Coordinator


Prof. (Dr.) Ravish Shrivastava
HOD ME Department


Prof. (Dr.) Manoj Kapil
Principal



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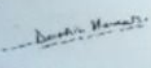
VAC/ME/2021/005


CERTIFICATE OF TRAINING


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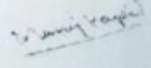
PRAMOD KUMAR

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Mr. Sachin Kumar
Course Coordinator


Mr. K K Sharma
Course Coordinator


Prof. (Dr.) Ravish Shrivastava
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Prof. (Dr.) Manoj Kapil
Principal


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