

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

AMSCE/ME/VAC001/2020-2021

It is informed to all the students of Mechanical Engineering, it is proposed to conduct Value Added Courses on “**AUTODESK-INVENTOR**” (40 hours duration) offered in our campus **CAD/CAM LAB** that the course starts from 18.02.2021. Detailed Schedule along with information for taking up this Industry based courses are shared before the commencement of the program. All the students of Second year Mechanical Engineering are requested to follow the guidelines given to derive the maximum benefits from the resource person.

Note:

*Minimum 80 % attendance mandatory to receive the certificates.

*Assessment Test will be conducted at the end of session.


RESOURCE PERSON:

Er.R.Ranjith

I3 design Technologies-Chennai.


Head – Mechanical Engineering




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DEPARTMENT OF MECHANICAL ENGINEERING

*Organise
Value Added Course*

on

“Autodesk - Inventor”



Course Details:

Resource Person:

Mr. R. Ranjith, i3 Design Technologies, Chennai.

Duration: 40Hrs

Course start: 18/02/2021 to 01/04/2021

Time: 2.00 pm to 5:00pm.

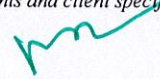
Venue: CAD/CAM Laboratory, Mechanical/Civil Block.

Contact (resource person): +91-9003298576

Course Objectives:

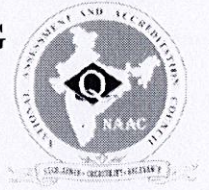
- **Mastery of Autodesk Inventor Fundamentals:** Equip participants with a comprehensive understanding of Autodesk Inventor's core functionalities. This includes learning the basics of 3D modeling, sketching, part creation, and assembly design, ensuring participants can proficiently navigate the software and utilize its primary features for effective design.
- **Advanced Design and Simulation Techniques:** Develop advanced skills in Autodesk Inventor, focusing on complex modeling, surface design, sheet metal design, and simulation tools. Participants will learn to create detailed and accurate models, perform simulations to test and optimize designs, and generate documentation and technical drawings to industry standards.
- **Application of Autodesk Inventor in Real-World Projects:** Foster the ability to apply Autodesk Inventor skills to real-world engineering and design projects. Through practical exercises, case studies, and project-based learning, participants will develop critical problem-solving skills, innovative thinking, and the capability to create efficient, high-quality designs that meet industry requirements and client specifications.




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REPORT FOR THE VALUE ADDED COURSE ON AUTODESK
INVENTOR

Course Name: Autodesk Inventor

Date: 18/02/2021 to 01/04/2021

Time: 2.00pm to 5.00pm

Course Hours:40

Attended Students:30

Students Certified:30

Course Overview

The Autodesk Inventor Essentials course aimed to equip participants with foundational skills in 3D mechanical design, product simulation, and documentation using Autodesk Inventor software.

Key Topics Covered


- Introduction to 3D modeling
- Part and assembly creation
- Drawing and documentation techniques
- Advanced modeling features (e.g., assemblies, simulations)
- Customization and automation in Inventor

Participant Feedback

- **Content Relevance:** High satisfaction with the relevance of topics to real-world applications.
- **Instructor Effectiveness:** The instructor received positive feedback for their knowledge and engaging teaching style.
- **Hands-On Learning:** Participants valued the practical exercises, which reinforced theoretical concepts.

Areas for Improvement




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- **Pacing of Advanced Topics:** Some participants suggested slowing down the coverage of complex subjects for better understanding.
- **More Industry Examples:** Including additional examples relevant to various industries could enhance learning.


Overall Satisfaction

Participants reported a high level of satisfaction, with an overall rating of **4.6/5**. Many expressed interest in future courses or advanced workshops.

Conclusion

The Autodesk Inventor Essentials course successfully achieved its objectives and provided participants with essential skills for effective 3D design. Recommendations for improvement will be considered for future sessions to enhance the learning experience.




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From

Date: 08/02/2021

The Head of the Department
Department of Mechanical Engineering,
Aalim Muhammed Salegh college of Engineering,
Muthapudupet, Avadi, I.A.F.,
Chennai- 600 055.

To

The Principal,
Aalim Muhammed Salegh college of Engg.
Muthapudupet, Avadi I.A.F.,
Chennai - 600 055.

Sub: Requisition for the Approval to conduct Value Added Course in
Mechanical department - Regarding.

Respected Sir,

We would like to conduct a Value Added Course on the title "AUTO DESK INVENTOR" for second year mechanical students by the resource person, Er. R. Ranjith i3 dersign technologies, Chennai, who will be leading the course. The scheduled date for the value added course is from 18/02/2021.to 01/04/2021 So we kindly request you to provide approval for the same.

Thanking you

Yours Faithfully



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8/2/2021
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Permitted
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8/2/2021



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DEPARTMENT OF MECHANICAL ENGINEERING




Value Added Course Details

Course Name: Auto Desk Inventor
Time: 2.00 pm to 5.00 pm

Date : 18-02-2021 to 01-04-2021

Week	Content	Total Hours
1	Topic : 1 <ul style="list-style-type: none">• 1.New for Autodesk Inventor<ul style="list-style-type: none">➤ Professional – Grade Design Tools➤ Collaboration and Storing Data in the Cloud➤ Subscription Enhancements➤ Part Updates e. Assembly Enhancements• 2. Introduction to Autodesk Inventor<ul style="list-style-type: none">➤ Welcome to Autodesk Inventor➤ Getting Started with Inventor• 3. Sketching<ul style="list-style-type: none">➤ Sketching with Inventor➤ More Sketching Feature• 4.Constraints and Dimensions<ul style="list-style-type: none">➤ Adding Parametric Constraints➤ Utilizing Parametric Dimensions	9
2	Topic : 2 <ul style="list-style-type: none">• 5. Sketch Tools<ul style="list-style-type: none">➤ Sketching Tools➤ Patterning➤ 3D Sketching• 6. Building the 3D Model<ul style="list-style-type: none">➤ Sketched Features➤ More Part Tools➤ Work Features➤ Parameter• 7. Adding Part Features<ul style="list-style-type: none">➤ Placed Features➤ More Features c. Freeform Modelling	9




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3	Topic : 3 <ul style="list-style-type: none"> • 8. Building More Advanced Parts <ul style="list-style-type: none"> ➤ Sweeps and Lofts ➤ More Part Features ➤ Surfacing Tools • 9. Assembly Modeling <ul style="list-style-type: none"> ➤ Assembling Components ➤ More Constraint Options ➤ More Assembly Tools • 10. More Assembly Modeling <ul style="list-style-type: none"> ➤ Working with Components ➤ Duplicating Components ➤ Representations 	9
4	Topic : 4 <ul style="list-style-type: none"> • 11. Creating the Drawing <ul style="list-style-type: none"> ➤ Generating Views ➤ Working with Drawing Views • 12. Detailing and Annotation <ul style="list-style-type: none"> ➤ Dimensioning ➤ Part List, Balloons, and Text 	7
5	Topic : 5 <ul style="list-style-type: none"> • 13. Presentations <ul style="list-style-type: none"> ➤ Creating Presentations ➤ Sharing the Information • 14. Sheet Metal <ul style="list-style-type: none"> ➤ Using the Sheet Metal Module ➤ More Sheet Metal Features • 15. Weldments <ul style="list-style-type: none"> ➤ Weldments ➤ Working with Weldments 	6
Total Hours		40



S. Praveen
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Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAC Accredited Institution

"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.

ANNA UNIVERSITY COUNSELLING CODE : 1101



Value Added Course Tentative Time Table And Schedule

Value Added Course Name: Auto Desk Inventor

Date of Commencement: From 18/02/2021

Timing: 2.00 pm to 5:00 pm

Tentative Date of Exam- 01/04/2021

Tentative Course Schedule - 18/02/2021 to 01/04/2021 (As per following)

No. Of Days: 13

Course Hours: 40

Speaker: Er.R.RANJITH

Topic : 1- New for Autodesk Inventor, Introduction to Autodesk Inventor, Sketching & Constraints and Dimensions - 18.02.2021 to 25.02.2021-9 hrs

Topic : 2 - Sketch Tools, Building the 3D Model, Adding Part Features-01.03.2021 to 08.03.2021-9 hrs

Topic : 3- Building More Advanced Parts, Assembly modeling & More Assembly Modeling-11.03.2021 to 18.03.2021- 9 hrs

Topic : 4- Creating the Drawing & Detailing and Annotation
22.03.2021 to 25.03.2021- 7 hrs

Topic : 5- Presentations, Sheet Metal & Weldments 29.03.2021 to 01.04.2021- 6 hrs




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DEPARTMENT OF MECHANICAL ENGINEERING
SHORT TERM COURSE ON "AUTODESK INVENTOR"

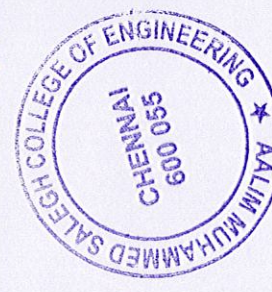


STUDENTS ATTENDANCE LIST

COURSE INSTRUCTOR: MR. R. RANJITH

REG NO	NAME	18.02.2024	22.2.2024	25.2.2024	01.3.2024	04.03.2024	08.03.2024	11.03.2024
110119114006	ALTHAF HUSSAIN S A	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114007	AUFIQ HASMI M	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114010	FARITH AHAMED J	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114011	HAJA MUENUDEEN A	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114015	MOHAMED ABBAS M	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114016	MOHAMED ABDUR RAHEEM PS	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114024	MOHAMED RASEETH M	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114026	MOHAMED SALIH J	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114027	MOHAMED SHAMEEM F	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114030	MOHAMMED ABDULLAH RIYAS P	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114031	MOHAMMED ARAFATH M	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114032	MOHAMMED ARSHATH A	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114034	MOHAMMED FAIZAL P	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114036	MOHAMMED MUZZAMMIL A	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114037	MOHAMMED YUNUSH M	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114039	RAHUL KRISHNA S	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114040	RIYAS AHAMED K	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114041	SHAHUL HAMEED S M	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114044	SYED MOHAMED ABDUL KAYOUM H	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114045	SYED MOINUDDIN AMEENULLAH	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114046	VIJAY S	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114047	VIMAL RAJ G	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114301	Abdul Malik G	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114304	Hayath Basha A	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114305	Jogeshware Rao	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114309	Pugazhendhi R	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114313	Streeman Pandi A	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114314	Thoufiq Abdur Rehman N	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114315	Venkatesh K	ALF	ALF	ALF	ALF	ALF	ALF	ALF
110119114701	Arshad Hasan A	ALF	ALF	ALF	ALF	ALF	ALF	ALF

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DEPARTMENT OF MECHANICAL ENGINEERING
SHORT TERM COURSE ON "AUTODESK INVENTOR"



STUDENTS ATTENDANCE LIST

COURSE INSTRUCTOR: MR. R. RANJITHA

REG NO	NAME	15.3.21	18.3.21	22.3.21	25.3.21	29.3.21	31.4.21
110119114006	ALTHAF HUSSAIN S A	A	A	A	A	A	A
110119114007	AUFIQ HASMIL M	A	A	A	A	A	A
110119114010	FARITH AHAMED J	A	A	A	A	A	A
110119114011	HAJA MUENUDEEN A	A	A	A	A	A	A
110119114015	MOHAMED ABBAS M	A	A	A	A	A	A
110119114016	MOHAMED ABDUR RAHEEM PS	A	A	A	A	A	A
110119114024	MOHAMED RASEETH M	A	A	A	A	A	A
110119114026	MOHAMED SALIH J	A	A	A	A	A	A
110119114027	MOHAMED SHAMEEM F	A	A	A	A	A	A
110119114030	MOHAMMED ABDULLAH RIYAS P	A	A	A	A	A	A
110119114031	MOHAMMED ARAFATH M	A	A	A	A	A	A
110119114032	MOHAMMED ARSHATH A	A	A	A	A	A	A
110119114034	MOHAMMED FAIZAL P	A	A	A	A	A	A
110119114036	MOHAMMED MUZZAMMIL A	A	A	A	A	A	A
110119114037	MOHAMMED YUNUSH M	A	A	A	A	A	A
110119114039	RAHUL KRISHNA S	A	A	A	A	A	A
110119114040	RIYAS AHAMED K	A	A	A	A	A	A
110119114041	SHAHUL HAMEED S M	A	A	A	A	A	A
110119114044	SYED MOHAMED ABDUL KAYOUM H	A	A	A	A	A	A
110119114045	SYED MOINUDDIN AMBENULLAH	A	A	A	A	A	A
110119114046	VIJAY S	A	A	A	A	A	A
110119114047	VIMAL RAJ G	A	A	A	A	A	A
110119114301	Abdul Malik G	A	A	A	A	A	A
110119114304	Hayath Basha A	A	A	A	A	A	A
110119114305	Jogeshware Rao	A	A	A	A	A	A
110119114309	Pugazhendhi R	A	A	A	A	A	A
110119114313	Sreeman Pandi A	A	A	A	A	A	A
110119114314	Thoufiq Abdur Rehman N	A	A	A	A	A	A
110119114315	Venkatesh K	A	A	A	A	A	A
110119114701	Arshad Hasan A	A	A	A	A	A	A

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CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS PROUDLY PRESENT TO

MOHAMMED ARSHATH A

In acknowledgement for completion of Value Added Course entitled "AUTODESK - INVENTOR" organized by the Department of Mechanical Engineering held at Aalim Muhammed Salegh College of Engineering.



DATE: 08-APRIL-2021

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MOHAMMED YUNUSH M

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CO - OFFICIAL
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Avadi, Chennai - 53

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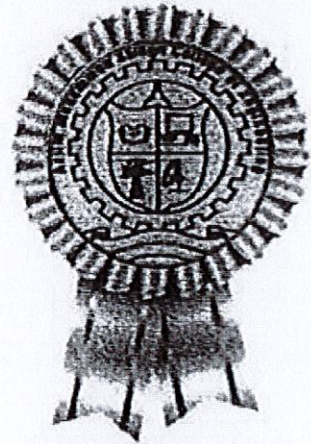
CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS PROUDLY PRESENT TO


RAHVI KRISHNA S


In acknowledgement for completion of Value Added Course entitled "AUTODESK - INVENTOR" organized by the Department of Mechanical Engineering held at Aalim Muhammed Salegh College of Engineering.



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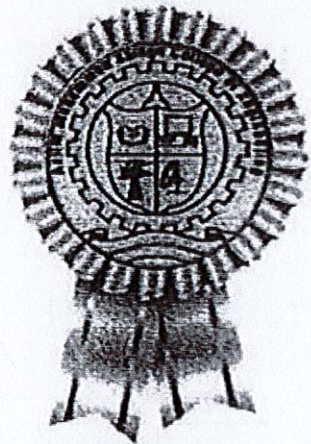


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MOHAMMED FAIZAL P

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DATE: 08-APRIL-2021



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AMS College of Engineering
Avadi, Chennai - 53

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CO -ordinator
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Avadi, Chennai - 53



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