

Certificate Course

Solid Edge Foundation

From 16th September 2019 to 21st September 2019



ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING AVANTHI INSTITUTE OF ENGINEERING ANDTECHNOLOGY,

Approved by AICTE, Permanently Affiliated to JNT University Kakinada, ACCREDITED BY NAAC and Recognized under 2(f) &12 (b) by UGC, NewDelhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M. Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second-best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering department was started in the year 2005 with intake strength of 60 seats, this was increased to 120 students in 2012 and this was increased to 180 students in 2013. The department has well qualified and trained faculty members. It has well equipped laboratories and workshops and includes a CAD/CAM laboratory where students are imparted training in advanced production techniques and design and analysis of machine elements.

The department of Mechanical Engineering has been contributing its humble share of the Mechanical Engineering graduates for national needs. Several of the graduates who have passed out of this department are occupying responsible positions in various Engineering Industries like Hindustan Shipyard Limited, Renault Nissan, Varun Motors, Tata Consultancy Services, HP and IBM and holding responsible positions in the premier educational institutes in and outside India.

ABOUT WORKSHOP

With the increasing demand of variety of products, the industry of manufacturing is aiming to produce quality and economical products. This process depends on many parameters and intermediate correlations. New and innovative designs need to be developed to meet the demands of the customer and industry. The Design software have become powerful tool for the continuous improvement of quality in designing the products. The faculty members in the engineering institutions should have potential in the area of design and impart their knowledge to the students so that the students graduated are fruitful to the society.

TOPICS TO BE COVERED

- ➤ Solid Edge Fundamentals
- Part Design
- ➤ Assembly Editing and designing the assemblies
- Drafting
- Solid Edge Simulation

For Registration, please contact Mr. A.N.S.Surya Prakash, Assistant Professor, Mechanical Engg.

CHIEF PATRON

Smt .M.Gnaneswari President, Avanthi Educational Society PATRON

Dr. C P V N J Mohan Rao Principal, Avanthi Institute Of Engineering And Technology CHAIRMAN

Sri. V. Harikiran Head of the Department Mechanical Engineering



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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 08/09/2019

We are happy to inform you that, Department of Mechanical Engineering, AIET is organizing six day certificate course on "Solid Edge Foundation" from 16th September, 2019 to 21st September, 2019 in physical mode for all II B. Tech students. Interested candidates are directed to enrol above course on or before 15/09/2019. For further details contact Course Coordinator Mr. A. N. S. Surya Prakash, Assistant Professor, Mechanical Engineering.

Resource Person Details:

1. M. Visalakshi,

Trainer,

APSSDC.

V. Harikirar

HOD of Mechanical Engineering Department

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam - 531113.

Copy to: Principal, AIET



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DEPARTMENT OF MECHANICAL ENGINEERING

A six-day workshop on

SOLID EDGE FOUNDATION

16th September – 21st September 2019

Syllabus of the Workshop:

Chapter-1

Introduction to Solid Edge Software

Chapter-2

• Part Design (Profile/Sketcher, 2D, Part Design)

Chapter-3

• Assembly (Assembly methods, Relationships)

Chapter-4

• Editing and Designing the Assemblies (EXPLORE, RENDER, ANIMATE tools)

Chapter-5

• Drafting (2D to 3D design workflow and view types- tools for faster display and response on large assemblies)

Chapter-6

- 3D sections, view styles and shortcuts
- Viewing tools: modify the look and content of the views w/o leaving the draft file.

EXPECTED OUTCOMES

- To understand how to create a 2D parametrically constrained sketch
- To create a 3D model using sketch driven features
- Create a 3D model using Synchronous driven features
- Combine individual parts into assemblies and build a BOM
- Create a 2D draft file driven from part and assembly files.

COORDINATOR

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam - 531113.



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DEPARTMENT OF MECHANICAL ENGINEERING

Solid Edge Foundation

From 16th September 2019 to 21th September 2019

Schedule

DAY - 1 (16.09.2019)

09:00AM-09:30AM - Inaugural Session

09:30AM-10:30AM - Introduction about the workshop and Solid Edge Fundamentals

10:30AM-11:30AM – usage of Various types of tools in Solid Edge and their applications and create, save various types of Solid Edge documents.

11:30AM-12:00PM – Explanation about Differentiate and switch between a selection of workbenches

12:00PM-12:30PM - Perform various tasks concerning 3D Navigation and geometry selection

12:30PM-01:00PM - Create and constrain sketches and describe the functional capabilities and general usage of: Part Design

01:00PM - 01:30PM - Lunch Break

01:30PM - 03:30PM - Generative Shape Design & Assembly Design

03:30PM - 04:00PM - Doubts Clarification session

DAY - 2 (17.09.2019)

09:00AM-09:30AM - About CATIA V5 Sketcher Module

09:30AM-11:30AM – Title bar, Menu Bar, Specification Tree, Navigation Tab, Drawing area, DAY1 Sketcher, Profile tool bar, Constraint tool bar.

11:30AM-11:40PM - Tea Break

11:40AM-01:00PM - Operation tool bar, Sketch tools and Sketch analysis

01:00PM - 01:30PM - Lunch Break

01:30PM - 04:00PM - Excercises-10 No's practice session

DAY - 3 (18.09.2019)

09:00AM-09:30AM - Introduction to Solid Edge Part Design and utility of part design

09:30AM-11:30AM - Creating and modifying sketch-based features, Perform Boolean operations such as Trim/Quick Trim

11:30AM-11:40PM - Tea Break

11:40AM-01:00PM - Explaining how to Manage profiles using the sketcher workbench,

Apply draft, Thickness and fillets to sketch based features

01:00PM - 01:30PM - Lunch Break

01:30PM - 04:00PM - Practice session and Doubts clarification session.

DAY - 4 (19.09.2019)

09:00AM-09:30AM – Introduction to areas for the part design workbench while interacting with sketcher and reference elements to create modifiable parts.

09:30AM-11:30AM - Tree Structure, Introduction to tool bars, Sketch Based Features

11:30AM-11:40PM - Tea Break

11:40AM-01:00PM - Dress-up Features, Transformation Feature, Reference elements

01:00PM - 01:30PM - Lunch Break

01:30PM - 04:00PM - Practice session and Doubts clarification session.

DAY - 5 (20.09.2019)

09:00AM-09:30AM - Solid Edge Generative Shape Design

09:30AM-11:30AM - Create wireframe elements, Create surfaces, Fillet features

11:30AM-11:40PM - Tea Break

11:40AM-01:00PM - Trim elements, Manage the Specific tree, CatLog templates

01:00PM - 01:30PM - Lunch Break

01:30PM - 04:00PM - Practice session and Doubts clarification session.

DAY - 6 (21.09.2019)

09:00AM-09:30AM - Solid Edge Generative Shape Design - Creating Drawings and Creating Views

09:30AM-11:30AM - Dimensioning Toolbar, Dimensioning Modifications, Editing, Deleting &

Updating Views

11:30AM-11:40PM - Tea Break

11:40AM-01:00PM - Dress up elements, Annotations Toolbar, Creating PDF's

01:00PM - 01:30PM - Lunch Break

01:30PM - 04:00PM - Valedictory Session

COORDINATOR

нов

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam-531113.



TAMARAM (V), MAKAVAAPALEM (M), VISAKHAPATNAM - 531113 DEPARTMENT OF MECHANICAL ENGINEERING

Workshop on SolidEdge Foundation

From 16-09-2019 to 21-09-2019 STUDENTS ATTENDANCE LISTS

S.NO	Roll Number	Name of the student	16.09.2019	17.09.2019	18.09.2019	19.09.2019	20.09.2019	21.09.2019
1	18811A0311	GUMMUDU PRAVEEN	~	_	~	~	_	
2	18811A0312	KAMIREDDY RAJA VIVEK RAGHU VARDHAN	/	~	~		/	~
3	18811A0313	KARANAM JAGADEESH		~	~	~	~	
4	18811A0314	KONDRA TRINADH	~	X	~	~		~
5	18811A0315	KOVVADA MANIKANTA	V	~	~	~	~	×
6	18811A0316	LALAM SAMPATH KUMAR		~	~	~	~	~
. 7	18811A0317	LINGETI GNANESWAR	~		~	/	V	~
8	18811A0318	LOKAVARAPU NAIDU	V	/	~		~	~
9	18811A0319	MARRI SIVA	V	V	/	V		~
10	18811A0320	OMMI PARAMESH	~	/	~	×	~	~
11	18811A0321	PALIPINI SURYA APPALA RAJU	~	V	/	/	~	_
12	18811A0322	PANTAGOLUSULA NAVEEN		V		/	~	~
13	18811A0323	PASAGADUGULA VAMSI	X	/	/	/	\ \ \ \	
14	18811A0324	POLIREDDI DIVAKAR		/		~	/	~
15	18811A0325	PUCHHA RAVI KUMAR			/	/		
16	18811A0326	RAPARTHI SAI	/	/			~	~
17	18811A0327	RONGALA GNANESWAR	/	~	/	_	~	
18	18811A0328	RUTHALA MANIKISHORE			/		-	
19	18811A0329	RUTTALA KALYAN	×	~		~		
20	18811A0330	SINGAMPALLI CHANDRA SEKHAR		/	V		×	~
21	18811A0332	SURISETTI SAI RAM		V		~	~	~
22	18811A0333	VENUKOTI PRASANTH	/	1	/	~	V	V
23	18811A0334	YAKA DEVA BHASKAR	/	/	~	-	V	
24	18811A0335	YENNAMSETTI MAHESH	~	~	~	~	~	-
25	18811A0336	VELAGA VASU	~	~	×		~	-
26	18811A0337	KOTARU TEJA APPALA DURGA PRASAD	V	~	~	-	-	~

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18811A0339 GARAGA SRAVAN	17	18811A0338	KANDREGULA YASWANTH						
18811A0340	28	18811A0339	GARAGA SRAVAN						
30 19815A0302 ALKARATUS HANKAR	29		KALAGA THALUPULESWARA RAO						~
31 19815A0302 ALLA RAVI SHANKAR			AKKIREDDY JAGADEESH KUMAR		V		~		
19815A0303 ALLAMPALLI SATISH	31		ALLA RAVI SHANKAR	~	~	~	~		×
34 19815A0305 BORA VARMA	<u> </u>			~		~	~	~	
35 19815A0306 BUDDHA SUNIL NAGA SATYANARAYANA					V .	/			~
36 19815A0307 CHALAPAREDDI NAGADURGAPRASAD		19815A0305	BORA VARMA	~	V	~	~	~	~
37 19815A0308 CHINTAKAYALA ADI VAMSI	35	19815A0306	BUDDHA SUNIL NAGA SATYANARAYANA		~	V	V	~	~
38 19815A0309 CHODIPALLI RAJESH	36	19815A0307	CHALAPAREDDI NAGADURGAPRASAD	~	~	~			~
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71		KATTOJU S V N GOPAL SATHWIK	V	~	~			~
62		KOLAGANI NARASIMHA NAIDU	~		~	X		~
63		KOMMOJU DHILIP MANIDHAR SAI		×	~	~	~	
64		KONDA NAGA RAJU	V			~		~
65	19815A0336	KOONISETTI VARA PRASAD	/		~	~		~
66		KORUKONDA SRAVAN KUMAR	~	~	~	~	~	
67		KORUPROLU SYAMALA	V	~	~	* /	~	~
68		KOSURI BHARATH VAMSI	V	~	~	~	レ	
69		KOTA GANESH	~	/		~	~	
70	19815A0341	KUNCHA NARESH	~	~	/	/		×
71	19815A0342	KUNDIRI VIVEKANANDA		/	~	~	/	
72		KUNDRAPU KRUSHI TEJA	✓ /	~		~		~
73	19815A0344	KURRA VENKATA DURGA APARNA	V		~	~	~	~
74	19815A0345	KODURU SANTHOSH	~	~	×	~		
75	19815A0346	MALASALA SAI VENKATA RAMCHARAN	/	/	/	/		
76	19815A0347	MALLAPUREDDY SIVA SANKAR						~
77	19815A0348	MANEPALLI SATYA DEVA PRAVEEN CHAKRAVARTHI	/	/	~		~	
78	19815A0349	MINNAKURTHI SATISH				_	~	
79	19815A0350	MOHAMMAD KHAJA SUBHANI			~			
80	19815A0351	MOLUGU GYANESHWAR		~	~	~		~
81	19815A0352	MUVVALA ANIL	/	/				~
82	19815A0353	MUVVALA KRISHNA RAO		/	/			~
83	19815A0354	NANDARAPU VASANTH KUMAR	~	/	~	~	~	~
84	19815A0355	NANDAVARAPU CHANDRA SEKHAR	/	/	_	/	×	
85	19815A0356	PAKKURTI TALUPULA RAO	~	/	~			
86	19815A0357	PALLA GANGADHAR	~	/	/	~		~
87	19815A0358	PANCHADARLA SAI PAVAN KUMAR	V	/	_	/	~	
88	19815A0359	PAVAN KALYAN DODDI	/					
89	19815A0360	PEDAGADI RENUKA MOHAN PRASANTH	~	/		~	~	~
90	19815A0361	PEDAPUDI ANAND	V	~				
91	19815A0362	PEDIREDLA SAI		V				
92	19815A0363	PENTAKOTA ARUNKUMAR				-	~	
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200	.4								
	1	19815A0365	PILAKA NAVEEN SAI KUMAR	~		~		./	
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/9			PRAGADA GIRI ANANDA KUMAR	~			~	×	
1 9	_		RAJANA HARISH	~	/				
9	8	19815A0369	RAVVA RAKESH RAVINDRA	×	~			~	

COORDINATOR

HOD

He Depart Avanthi Makavarapa em Department
Cechanical Engg.
CECHANGE & Tech.,
MARGERIAN.



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs	ofof					
	has participated	in the Certific	cate Course entitled			
on "Solid Edge Foundation" during from	16 th September	2019 to 21st	September 2019 in			
Department of Mechanical Engineering.						
Coordinator HO	D	Pr	rincipal			



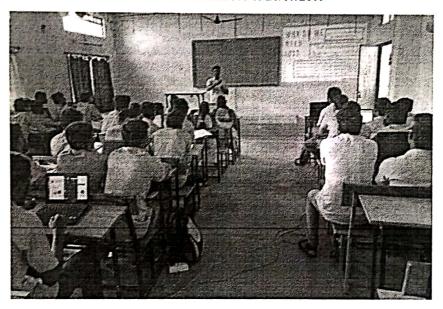
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DEPARTMENT OF MECHANICAL ENGINEERING

A 6-Day Workshop on

Solid Edge-Foundation

Dated on - 16/09/2019 to 21/09/2019



COORDINATOR

нов

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam-531113.



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Department of Mechanical Engineering

Dt: 23/09/2019

BRIEF REPORT

Department of Mechanical Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on "SOLID EDGE ST10 BASICS AND BEYOND" from 16th sept 2019 to 21st sept 2019

We had M. Visalakshi, Trainer from APSSDC, as the speaker to explain each and every detail Introduction of Solid Edge fundamentals. She started off with the need of Solid Edge applications, she extensively explained the plus points of this technology, one of the major advantage for users to create quality 3D models from 2D drawings. Then after she went on to explain Generative shape Design & Assembly Design. She gave the limitations that workflows in Solid Edge are not very easy to follow and require previous experience with a specific tool to be able to figure out how to use it. She discussed the general assembly modelling and 2D orthographic view functionality for mechanical designers. Some of the topics are focused during course Trim elements, Catlog templates, Dimensioning tool bar, Editing, and for Designing the Assemblies (EXPLORE, RENDER, ANIMATE TOOLS). She finally explained about Fillet features, Transformation Feature, viewing tools, view styles and shortcuts. She concluded with the real time applications of Solid Edges in industries.

Coordinator

Head of the Department

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam-531113.