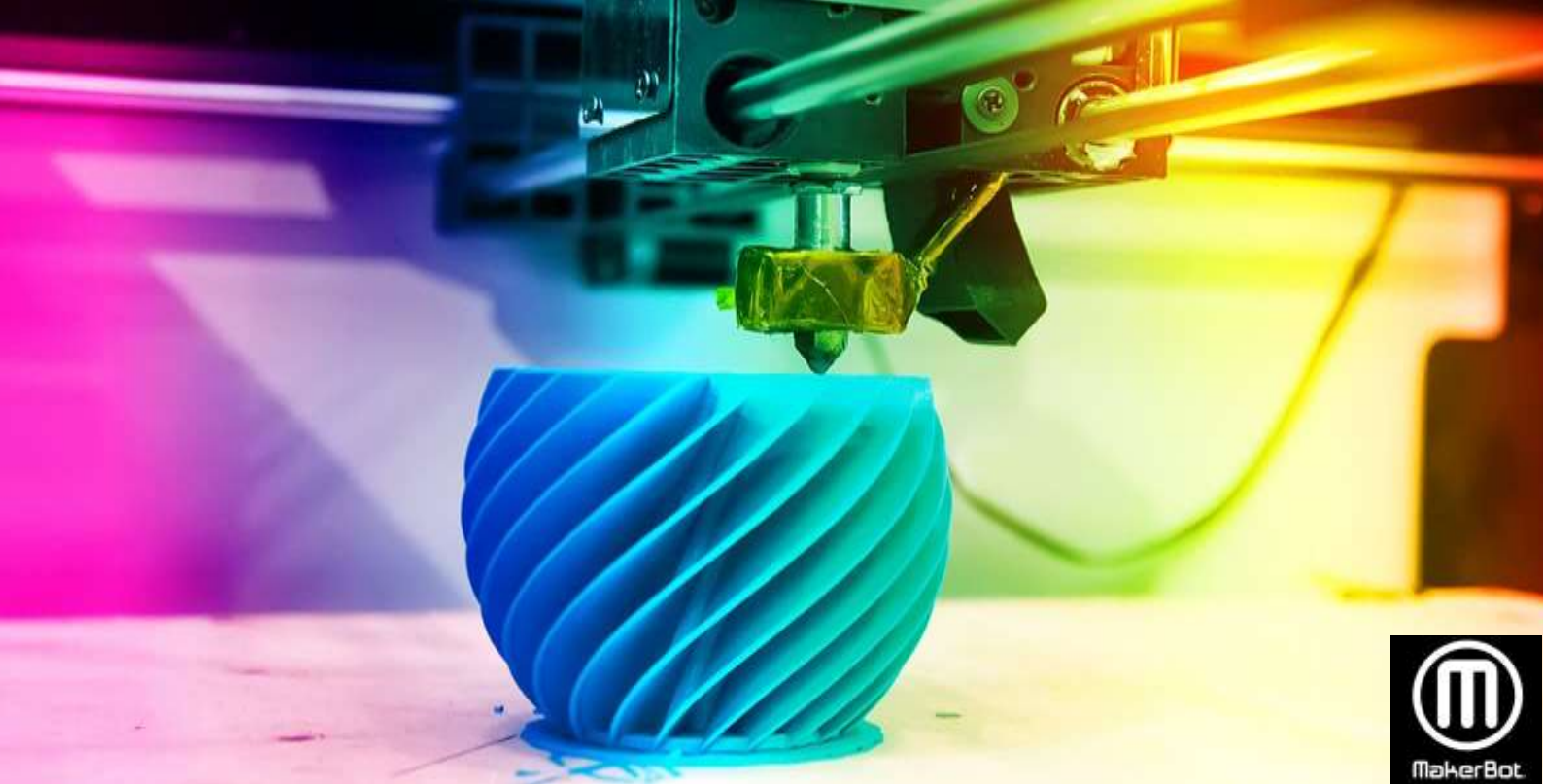




**3 WEEKS VIRTUAL HANDS-ON TRAINING PROGRAMME
ON
3D PRINTING**

2nd November to 20th November 2020

Organized by

Centre of Excellence for Collaborative Product Design and Development
Department of Mechanical Engineering



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

Accredited with Grade "A" by NAAC | Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119, Tamil Nadu, India

www.sathyabama.ac.in

3 WEEKS VIRTUAL HANDS-ON TRAINING PROGRAMME ON

3D PRINTING



Sessions Handled by:



Mr. NIVIN JOY

Assistant Professor, Department of Mechanical Engg
Topic: **Introduction to 3D Printing and various 3D Printing Technologies**

02.11.2020 to 13.11.2020



Mr. JAGADISH

Regional Manager, Makerbot
Topic: **Virtual Live Demo of Makerbot**

16.11.2020 to 20.11.2020



All Days
10.00 AM – 12.00 Noon



Zoom Meeting ID : **868 6247 9742**
Passcode : **12345**
bit.ly/SathyabamaMechWebinarSeries

REGISTRATION FREE

E CERTIFICATE WILL BE ISSUED

Register at: bit.ly/3DPrintingVirtualTraining



CHIEF PATRONS

Dr.Mariazeena Johnson
Chancellor

Dr.Marie Johnson
President

PATRON

Dr.T.Sasipraba
Vice Chancellor

Dr.S.Prakash
Dean, Mechanical

Dr.G.Arunkumar
HOD, Mechanical

CONVENERS

Mr.Nivin Joy
Asst Professor, Mechanical

Mr.S.Lakshmisankar
Asst Professor, Mechanical

For Registration Call:
+91 9884843539

3 WEEKS VIRTUAL HANDS-ON TRAINING PROGRAMME ON 3D PRINTING

2nd November to 20th November 2020

Topics to be Covered

- Technology overview of additive and subtractive manufacturing.
- Model generation methods and CAD data processing techniques.
- Additive manufacturing technologies.
- Additive manufacturing processes, systems and materials.
- Computational Geometry.
- Reverse Engineering.
- Additive manufacturing of precision components in plastics, metals, bio-materials. and quality control issues.
- Concurrent Engineering and DFM.
- Design for Additive Manufacturing.
- Recent advances and scope for research in rapid manufacturing technology.
- Aerospace, defence, Bio medical, automobile applications of additive manufacturing technologies.
- 3D printing in packaging – software.

Course Outcome

Upon successful completion of the course the participants will be able to

- Enhance the effectiveness in prototyping creation for early stage design checking and post 3D design
- Able to handle different types of 3D printing technology; FDM and Polyjet, and apply in work.

3-Weeks virtual hands on Training programme on 3D Printing
(02-11-20 to 20-11-20)
Participants list

S. No.	Reg. Number	Student Name
1	37150008	ALAN SHAJI LUKOSE
2	37150009	AMALADOSS VINOD CASTRO. C
3	37150010	AMIRTHARAJAMANI. M
4	37150011	ANDLURU NAVEEN REDDY
5	37150012	ANSHUL
6	37150013	ANSON ASRATH. A
7	37150014	ANTHONY JUDE. S
8	37150101	KONIDENA DHARMA TEJA
9	37150102	KUNCHAPU SIVA KISHORE
10	37150147	RAGHULRAM. U.P
11	37150148	RAHUL .V
12	37150149	RAHUL SRIVATSAN. M.R
13	37150150	RAJU. R
14	37150151	RAMIREDDYGARI MANJUNATHA REDDY
15	37150184	STEFFIN. S
16	37150185	SUBASH. P
17	37150186	SURAJ. K.K
18	37150187	SURENDHAR. M
19	37150188	SURIYA. K
20	37150190	SYED MUDASIR. M
21	37150191	SYED SIRAJ
22	37150192	TEKUMUDI YASHWANTH
23	37150193	TELU BHARGAV
24	37150194	THOTA HARISH
25	37150195	THOTAKURA AYYAPPA
26	37150223	YAKA VENU GOPAL
27	37150224	YANDAMURI URDHWA SRIKIRAN
28	37150226	YERUKALA PREM CHAND
29	37150227	YESH NEGI
30	37150228	PENAMADI VINOD KUMAR REDDY
31	37150701	ANTONY SHELTON. A
32	37150702	AVULAPATI SRIHARI
33	37150703	DEVANAND. K.R
34	37150704	KENLIN LIJU. R
35	37150705	KISHAN. K

36	37150706	NAVEEN. K
37	37150707	NAVIN KUMAR
38	37150708	SANGANABOYINA VISHNU VARDHAN
39	37150709	SIVA. J
40	37150710	SRIRAM PRASHATH. M



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DEPARTMENT OF MECHANICAL ENGINEERING



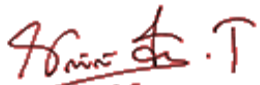
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**3 WEEKS VIRTUAL HANDS-ON TRAINING PROGRAMME
ON 3D PRINTING**

2nd to 20th NOVEMBER 2020

PARTICIPATION CERTIFICATE

This is to certify that **ANTHONY JUDE S** has actively participated in the
3 weeks virtual hands-on training programme on **3D PRINTING** organized by the Department of
Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai from 2nd to 20th
November 2020.


Mr. NIVIN JOY
CONVENER


Dr. G. ARUNKUMAR
HOD MECHANICAL


Dr. S. PRAKASH
DEAN MECHANICAL

SHORT TERM COURSE ON BIODIESEL PRODUCTION, CHARACTERIZATION, TESTING AND ENGINE STUDY

Session Handled By:



Dr. S. GANESAN
Centre Head,
Engine Testing Centre
Associate Professor,
Department of Mechanical Engg

OPEN TO ALL STUDENTS AND FACULTY OF
SCHOOL OF MECHANICAL ENGINEERING

REGISTRATION FREE | E CERTIFICATE WILL BE ISSUED

Zoom Link for sessions will be sent through Email

For Registrations Call: 99940 69306

18TH AUG - 4TH SEP 2020

2.00 – 4.00 PM

CONVENERS

Dr.J.Hemanandh
Asso Prof, Mech

Dr.J.Jayaprabakar
Asso Prof, Mech

PATRONS

Dr.Mariazeena Johnson
Chancellor
Dr.Marie Johnson
President

COORDINATORS

Dr.S.Prakash, Dean Mech
Dr.G.Arunkumar, HOD Mech



Organized By:
Engine Testing Centre
Department of Mechanical Engineering



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A Short Term course on Biodiesel Production, Characterization, Testing and Engine Study

Course outline

Sathyabama Institute of Science and Technology, Department of Mechanical Engineering offers this course on Biodiesel providing information on cultivation technology of Waste cooking Oil, and other commercial crops used as biodiesel feedstocks and, production and use of biodiesel. The course discusses about the biomass resources and their composition; types of biofuels; conversion technologies (thermochemical, supercritical water, and biochemical conversion processes); biodiesel from vegetable oils, algae to biofuels; economic and environmental assessments; and future R&D needs. The course is designed to teach students about biofuels and biodiesel. The course covers biodiesel production, types of feedstocks, characterization, trans-esterification, fuel properties testing as per ASTM Standards.

COURSE CONTENTS

I PRESENTATION

Overview of biofuels

- What are biofuels
- Different types of biofuels including ethanol, biodiesel, biogas and sustainable aviation fuels
- How biofuels are being used around the world
- Biofuel mandates and regulations
- Sustainability of biofuels

Production of biofuels

- Biodiesel production
- Different types of feedstocks
- Key technologies
- Costs of producing biofuels

Characterisation

- Acid and Alkaline trans esterification
- Fuel properties testing as per ASTM Standards
- GC-MS Chromatography

II PRACTICAL TRAINING

After the presentations, the practical demonstration of following shall be made.

- Determination of fatty acid content
- Biodiesel production process
- Separation process
- Glycerol recovery
- Methanol

- Fuel Property Testing

Engine Testing

- Blend Preparation using Ultra sonication
- Performance, Combustion and Emission analysis

Course Outcome

On successful completion of this course students will be able to:

- 1 Describe available resources for plant-based biodiesel production
- 2 Describe the productions methods for biodiesel-Transesterification
- 3 Compare the prepared biodiesel's Properties with ASTM Standards
- 4 Demonstrate the Biodiesel fuel properties Testing.
- 5 Demonstrate the biodiesel production through pilot study
- 6 Conduct Engine study using biodiesel blends

Couse Handling Faculty

Dr.S.Ganesan

Dr.J.Jayaprabakar

Dr.J.Hemanandh

Short term course on Biodiesel Production, Characterization, Testing and Engine Study
(18-08-20 to 04-09-20)

Participants list

S. No.	Reg. Number	Student Name
1	38150001	ABBAS ARAFATH
2	38150002	ABDUL REHMAN
3	38150007	AJAY SUNIL
4	38150008	AJHAY VENKATESAN . H
5	38150009	AKSHAY BHASKAR
6	38150010	ALAN JOHN FRANCIS
7	38150011	AMARNATH. A
8	38150012	ARAVIND KUMAR. V. N
9	38150013	ARAVIND. K
10	38150014	ARJUN BHARATH. K
11	38150015	ARJUN. P
12	38150016	ASHOKAN VIKRAM
13	38150017	AVVARU VENKATA NAGA DATTA SAI SIVA AKHIL
14	38150023	CHUNDRU TARUN TEJA
15	38150024	CYRIL PRAVEEN RAJ. J
16	38150025	CYRUS MATHEW FRANK
17	38150026	DUDEKULA MADAR BASHA
18	38150027	EATHA SRI SAI PRASANNA KUMAR
19	38150028	ELAVARTHI ROMEETH
20	38150029	GANESH. A
21	38150030	GANTA SRINIVAS
22	38150031	GEESALA HARSHITH
23	38150033	GOPINATH. S
24	38150034	HARIKRISHNAN. M
25	38150035	HARIVIGNESH. S
26	38150036	HRITHIK. M
27	38150037	IDRIS KHAN. M
28	38150038	IMANDI B V V L S BASANTH KUMAR
29	38150040	JAI AMAR. V
30	38150041	JAYASURYA. J
31	38150042	JEEVA. M
32	38150043	JENO. R
33	38150044	JOHN SHERWIN ABHISHEK. J
34	38150049	KAUSHIK. S
35	38150050	KIRAN KUMAR. A
36	38150058	LAKKIMSETTI DIMANTH

37	38150059	LAKKU DHARMA TEJA
38	38150060	LEONARD IGNATIUS. P. L
39	38150061	LOGESWAR. R.S
40	38150073	NITHISH. S
41	38150074	PAGIDI GURU SAI SIMHA
42	38150076	PASTAPOOR PITHAMBER
43	38150077	PAVAN SURI KAKUSTHAM
44	38150078	PERURI SURYA VAMSI KRISHNA
45	38150079	POLAVARAPU MITRANAND
46	38150081	PRANAV CHANDRAN. M. V
47	38150083	PRITHIVI RAJ. R.S
48	38150117	SUMAN. D
49	38150119	THEJUAL KRISHNA. B. C
50	38150120	TITUS RAJ. K
51	38150121	UDDAGIRI DILEEP
52	38150122	VANGANURI BHARGAV RAM
53	38150123	VELKUMAR. M
54	38150124	VENKATESH. T
55	38150125	VINITH. K
56	38150127	YALAMARTHI P VENKATA SURYA PAVAN KUMAR



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BIODIESEL PRODUCTION, CHARACTERIZATION, TESTING AND ENGINE STUDY**

from

18th AUGUST to 4th SEPTEMBER 2020

PARTICIPATION CERTIFICATE

This is to certify that ARJUN BHARATH K has
actively participated in the Short Term Course on **BIODIESEL PRODUCTION, CHARACTERIZATION,
TESTING AND ENGINE STUDY** organized by the Department of Mechanical Engineering, Sathyabama
Institute of Science and Technology, Chennai from 18th August to 4th September 2020.

Dr. J. JAYAPRABAKAR
CONVENER

Dr. G. ARUNKUMAR
HOD MECHANICAL

Dr. S. PRAKASH
DEAN MECHANICAL



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**Centre of Excellence for Collaborative Product Design and Development
Department of Mechanical Engineering**

in association with

CADD Technologies, Coimbatore

offers

**Hands on Training and Certification Program
on
CATIA Modelling Software**

**From
8th February to 26th February 2021**

Session content:

- ✓ Sketcher, Part Design
- ✓ Assembly Design, Drafting
- ✓ Generative Shape Design (GSD), Sheetmetal Design

**OPEN TO ALL STUDENTS OF
SCHOOL OF MECHANICAL ENGINEERING**

**REGISTRATION FREE
(First Come First serve basis)**

For more details & Registration Contact

**Mr.Nivin Joy,
Centre Head
Centre of Excellence for Collaborative Product Design and Development
Assistant Professor,
Department of Mechanical Engineering
Mob: 988 484 3539**

CATIA Modelling

INTRODUCTION to CATIA and sketcher workbench

Introduction- software overview – importance of Solid modeling-layout Design and Drafting-

Importance of solid Modling -creating a positioned sketch-Tools colors-smart pick-cutting the part by sketch plane-sketch and surface based feature

WIREFRAME AND SURFACE WORKBENCH and Generative shape design

Creating points-circle-splines-corners-projection -conic curves-managing open body in specification tree-Hide and showing the open body-Creating Extruded elements-spine-combine curves-parallel curves-reflect lines-Adaptive swept bodies-customizing the Generative shape design

Assembly Design and drafting workbench

Create Assembly Documents-inserting components-Assemble constraints and features-sectioning-Exploding constrained assembly-detecting interference.managing sheets-views of Parts-creating projectory and Auxiliary views-clipping view-scaling the view-modify the geometry- Automations-Editing properties

Interactive Drafting

Tools-Toolbar-Defining view plane-using folding lines-Creating multiple view projection-reframing view-constraints-Rerouting dimensions.

COURSE OUTCOME

Students will be able to

- Identify, interpret and apply the current standards on Industrial Technical Drawing,Create and Save various types of CATIA V5 documents.
- Differentiate and switch between a selection of workbenches.
- Perform various tasks concerning 3D Navigation and geometry selection.
- Create and constrain sketches and Describe the functional capabilities and general usage of: Part Design.

CATIA Modelling Software (08-02-2021 to 26-02-2021)
Participants list

S. No.	Reg. Number	Student Name
1	39150001	AANSTON ANTONY
2	39150002	ABIJEETH. X
3	39150003	AHINO SHELLY. P
4	39150005	AMBATI CHIRANJEEVI
5	39150006	ANANTH. M
6	39150007	ARAVINDH. G
7	39150008	ARISH. A
8	39150014	BADAM SAKETH SAI BHAGAVAN
9	39150015	BALAJE. S. M
10	39150016	BALAJI. B
11	39150017	BALAJI. C. P
12	39150018	BARATH. C
13	39150019	BHARADHAN. C
14	39150021	CHAGANTI SAI PAVAN KUMAR
15	39150022	CHAVALA DINESH
16	39150023	CHEKURI SATYA AVINASH VARMA
17	39150024	CHIDAMBARA KANNAN. A
18	39150025	CHILAKA SHASHI KUMAR GOUD
19	39150027	CLARANCERAJ. D
20	39150028	DADI AVANTH KUMAR
21	39150029	DANDU. V. S. AJAY CHANDRA VARMA
22	39150030	DEVA DHARSHAN. G
23	39150038	DRONAMRAJU. V. S. MOHAN SUBBA RAO
24	39150039	EDUMUDI GOWTHAM
25	39150040	EDWIN KISHORE. J
26	39150041	FRANKO JESLIN. D
27	39150042	GADDEY VARSHINI
28	39150044	GOVINDALAPUDI SRI SOMANAATH
29	39150045	HARIHARAN. R
30	39150046	HARIS. P
31	39150055	JEMILSON. J
32	39150056	JOE ROZZARIO DOSS. S
33	39150057	JOESSAM MARIO. J
34	39150058	JOTHEESWARAN. S
35	39150059	KABILAN. K
36	39150060	KAILASH. S. V
37	39150061	KAIPA SAI VISHNU CHARAN

38	39150062	KALAPARTHI LEELA DHANUSH NAIDU
39	39150063	KAMARSU SAI SRI NIMAY
40	39150064	KARTHIKEYAN. M
41	39150065	KAUSHIK SUBBIAH GANESAN
42	39150066	KEVIN JOHN MOOLAYIL
43	39150067	KIRAN KUMAR. B
44	39150068	KISHOR KUMAR. J
45	39150069	KUMARA REDDY RAO
46	39150070	LAKKA BHUVANESWAR REDDY
47	39150098	PRAJUVAL REDDY POLU
48	39150099	PRASANNA VENKATESH. A
49	39150100	PRAVEEN KUMAR. N
50	39150101	PREM. P. N
51	39150102	PRIYARANJAN KUMAR MANDAL
52	39150103	RABIN. S
53	39150104	RAHUL. R
54	39150105	RAJ KUMAR. R
55	39150106	RAJAMAHENDRAVARAPU VARUN
56	39150107	RAJASEKAR THARUN
57	39150114	SAI RAM MOVVA
58	39150115	SANCHIT KUMAR. T
59	39150116	SANTHOSH. A
60	39150124	SUNIL ABRAHAM. J
61	39150125	SUNIL. R
62	39150126	SUSHIL. G
63	39150127	VANAPALLI SAI KRISHNA
64	39150128	VARADALA KARTHIK
65	39150129	VEGI DHANANJAI SAI SANKAR
66	39150130	VELAGA BHARGAV DEEPAK
67	39150131	VENKADESHWARAN. R
68	39150132	VETRIVELAN. S
69	39150133	VINITH KANNAN. L
70	39150134	VISHAL. S



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DEPARTMENT OF MECHANICAL ENGINEERING

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**HANDS ON TRAINING AND CERTIFICATION PROGRAM
ON
CATIA MODELLING SOFTWARE**

from

8th to 26th FEBRUARY 2021

PARTICIPATION CERTIFICATE



This is to certify that **AHINO SHELLY P** has participated in the Hands on training and certification program on **CATIA MODELLING SOFTWARE** organized by the Department of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai from 8th to 26th February 2021.


Mr. NIVIN JOY
CONVENER


Dr. G. ARUNKUMAR
HOD MECHANICAL


Dr. S. PRAKASH
DEAN MECHANICAL