



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
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Department of Automobile Engineering

Let us Skill - Series - Value Added Program



Season 1 - Essential Tools in Automotive Industry - **AUTOCAD**

SPEAKER: R. Kumarasubramanian - Assistant Professor - Department of Automobile Engineering

Zoom Meeting Details -

Meeting Link: <https://sathyabama-ac-in.zoom.us/j/5637933189?pwd=ZlJqZFJCTUFRTiYU44TmxoMHpMQT09>

Meeting ID: 563 793 3189 **Password:** 12345

Time: 1:00 - 3:00 PM

Date: 07/09/2020 - 24/09/2020

Chief Patrons:

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

Patrons:

Dr. S. Prakash, Dean, Mechanical

Conveners:

Dr. V. K. Bupesh Raja - 9444076294

Dr. A. Karthikeyan - 8667092520

Mr. Dillip Kumar Sahoo - 9444849804

Course Content

Let Us Skill – Series (2020) – AUTO CAD

Season 1 Schedule

S. no	Date	Session Topic
1	07/09/2020	Introduction to AutoCAD
2	08/09/2020	AutoCAD commands and relevant keyboard shortcuts
3	09/09/2020	Create basic drawing objects: Points, Lines
4	10/09/2020	Create basic drawing objects Circles, Arcs, Planes and their combinations
5	11/09/2020	Layout and sketching
6	14/09/2020	Setup a drawing with correct scales
7	15/09/2020	Draw with precision using Coordinate input and object Snaps
8	16/09/2020	Isometric drawings
9	17/09/2020	Orthographic projections
10	18/09/2020	Auxiliary views
11	21/09/2020	Dimensioning
12	22/09/2020	Dimension styles
13	23/09/2020	How to plot
14	24/09/2020	Creating and editing 3D solid objects
15	25/09/2020	Hands-on Exercise on AutoCAD

List of Participants

Let Us Skill Series – AUTOCAD Season 1 (2020)

Sr. No.	Register Number	Student Name
1	39860016	PRANAVAN. B
2	39860017	RAMESH KUMAR. P
3	39860018	SANJAI. R
4	39860019	SATHEESWARAN. S
5	39860020	SHAIK MAHAMMED SAYER
6	39860021	SIDDHARTHA BABU CHAUDHARY
7	39860022	SRINI. M
8	39860023	SRIRAM. M
9	39860024	THAI NAGA AVINASH
10	39860701	MURALI KRISHNA K
11	37860014	KASILINGAM. S
12	37860016	KONDAPPA YASHWANT
13	37860017	KUMRESH. N
14	37860018	MOHAMED ABAITH. S
15	37860019	NARAYANA ADITYA
16	37860020	NAVEEN PRASAD. K
17	37860021	NOBLE YUGESH. V
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19	37860023	PRANEETH. S. V
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22	37860026	ROHIT VADAPALLI
23	37860028	SAI KRISHNA SANJAY. D. R
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29	37860035	SIVADHARSHAN. I
30	37860036	SIVATHANIGAI. K
31	37860038	SURAJ RAMESH DAVANAPALLI
32	37860039	SURENDIRAN. Y
33	37860042	YALLA KRISHNA SAI DURGA SRINIVAS
34	37860701	SACHIN. S
35	37860002	AKASH M GLADIN
36	37860005	BH JASHWANTH VARMA

37	37860006	DEEPAK RAJ. L
38	37860007	DEVENDRA SAI. N. V
39	37860010	GANESH. M
40	37860011	GOKUL. V
41	39860002	AJAY ESHWAR. M
42	39860003	AJITH. A
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44	39860005	AKTHAR
45	39860006	ANTONY MARSHALL. R
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47	39860008	KILARI LIKITH KUMAR
48	39860009	KOTHA SATHWIK
49	39860010	MANEPALLI SURYA CHANDRA RAO
50	39860011	MOHAMMED MUSTHAKEEM BASHA
51	39860012	MUHAMMED ARSHAD
52	39860013	MUTHUPANDI. K
53	39860014	NASSION NEUPANE
54	39860015	PONBARANI. R
55	37860012	HUBERT JOE. K
56	37860013	JANESWARAN. G

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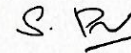
CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Akash M Gladin has successfully participated in the **Let Us Skill**
Series: Season 1 - Essential Tools in Automotive Industry - **AutoCAD** organized by the
Department of Automobile Engineering, Sathyabama Institute of Science and Technology,
Chennai held online from 07th September 2020 to 24rd September 2020.



Dr. V. K. BUPESH RAJA

CONVENER & HOD AUTOMOBILE



Dr. S. PRAKASH

DEAN MECHANICAL



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Department of Automobile Engineering

Let us Skill - Series - Value Added Program



Season 2 - Electrical Vehicles - Transition from IC engines

SPEAKER: Dr. A. Karthikeyan - Professor - Department of Automobile Engineering

Zoom Meeting Details -

Meeting Link: <https://sathyabama-ac-in.zoom.us/j/5637933189?pwd=ZTJqZFJCTUFRTiYyZU44TmxoMHpMQT09>

Meeting ID: 563 793 3189 **Password:** 12345

Time: 1:00 - 3:00 PM

Date: 05/10/2020 - 23/10/2020

Chief Patrons:

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

Patrons:

Dr. S. Prakash, Dean, Mechanical

Conveners:

Dr. V. K. Bupesh Raja - 9444076294

Dr. A. Karthikeyan - 8667092520

Mr. Dillip Kumar Sahoo - 9444849804

Course Content

Let Us Skill – Series (2020)

Electrical Vehicles – Transition from IC Engines

Season 2 Schedule

S. no	Date	Session Topic
1	05/10/2020	Overview of Electric Vehicles in India
2	06/10/2020	EV Subsystems
3	07/10/2020	Introduction to Battery Parameters
4	08/10/2020	Batteries in Future
5	09/10/2020	Battery Pack Development
6	12/10/2020	Computation of Effective cost of battery
7	13/10/2020	Fundamentals of Battery Pack Design
8	14/10/2020	BMS Design of Electric Vehicle
9	15/10/2020	EV Motors and Controllers - Understanding Flow
10	16/10/2020	Speed and Back EMF
11	19/10/2020	Field-oriented Control
12	20/10/2020	EV Chargers
13	21/10/2020	Battery Swapping
14	22/10/2020	Standardization and On-board Chargers
15	23/10/2020	Economics of Public Chargers in context

List of Participants

Let Us Skill – Season 2 (2020)

Sr. No.	Register Number	Student Name
1.	37860012	HUBERT JOE. K
2.	37860013	JANESWARAN. G
3.	37860014	KASILINGAM. S
4.	37860015	KEERTHEESWAR. K
5.	37860016	KONDAPPA YASHWANT
6.	37860017	KUMRESH. N
7	37860018	MOHAMED ABAITH. S
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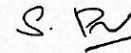
CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Sabinesh V has successfully participated in the **Let Us Skill Series:**
Season 2 - Electrical Vehicles –Transition from IC engines organized by the Department of
Automobile Engineering, Sathyabama Institute of Science and Technology, Chennai held online
from 5th October 2020 to 25th October 2020.



Dr. V. K. BUPESH RAJA

CONVENER & HOD AUTOMOBILE



Dr. S. PRAKASH

DEAN MECHANICAL



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Department of Automobile Engineering

Let us Skill - Series - Value Added Program



Season 3 - Application of Materials in Automotive Industries

SPEAKER: Dr. V.K. Bupesh Raja - Professor & HOD - Department of Automobile Engineering

Zoom Meeting Details -

Meeting Link: <https://sathyabama-ac-in.zoom.us/j/5637933189?pwd=ZlJqZFJCTUFRTiYyZU44TmxoMHPMQT09>

Meeting ID: 563 793 3189 **Password:** 12345

Time: 1:00 - 3:00 PM

Date: 02/11/2020 - 20/11/2020

Chief Patrons:

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

Patrons:

Dr. S. Prakash, Dean, Mechanical

Conveners:

Dr. V. K. Bupesh Raja - 9444076294

Dr. A. Karthikeyan - 8667092520

Mr. Dillip Kumar Sahoo - 9444849804

Course Content

Let Us Skill – Series (2020)

Application of Materials in Automobile Industries

Season 3 - Schedule

S. no	Date	Session Topic
1	02/11/2020	Introduction of Light Weight Alloys
2	03/11/2020	Magnesium Alloy & its Characterization in Automobile Industry
3	04/11/2020	Weldability of Light Weight Alloys
4	05/11/2020	Light Weighting Through Joining
5	06/11/2020	Advanced Welding Processes & their Application in Automotive Industry
6	09/11/2020	Titanium Alloys for Automotive Applications
7	10/11/2020	Composites & Shape Optimization in Electrical Car
8	11/11/2020	Weight reduction techniques in automotive
9	12/11/2020	Machining dissimilar metal components
10	13/11/2020	Material Characterization techniques
11	16/11/2020	High Temperature Materials
12	17/11/2020	Advances in Metal Forming
13	18/11/2020	Automobile and Aerospace materials
14	19/11/2020	Applications of Smart Materials and Polymers
15	20/11/2020	Advanced Ceramic Materials

List of Participants

Let Us Skill – Season 3 (2020)

Sr. No.	Register Number	Student Name
1	37860031	SARAVANAN. S
2	37860033	SEELAM PAVAN KUMAR REDDY
3	37860034	SHINO ASWIN. R
4	37860035	SIVADHARSHAN. I
5	37860036	SIVATHANIGAI. K
6	40860006	ANSHUL MALATHKAR
7	40860702	KARTHICK KUMARAN
8	40860703	SATYAM SHRIVASTAV
9	37860012	HUBERT JOE. K
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29	40860003	SABINESH
30	40860004	SHAYANDHAN
31	40860005	YASWANTH GANESH ALLA
32	37860038	SURAJ RAMESH DAVANAPALLI
33	37860039	SURENDIRAN. Y
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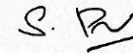
CERTIFICATE OF PARTICIPATION

This is to certify that Naveen Prasad K has successfully participated in the **Let Us Skill Series: Season 3 – Applications of Materials in Automotive Industries** organized by the Department of Automobile Engineering, Sathyabama Institute of Science and Technology, Chennai held online from 2nd November 2020 to 20th November 2020.



Dr. V. K. BUPESH RAJA

CONVENER & HOD AUTOMOBILE



Dr. S. PRAKASH

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Department of Automobile Engineering

Let us Skill - Series - Value Added Program



Season 4 - Optimization Techniques in Automotive Industries

SPEAKER: Dillip Kumar Sahoo - Assistant Professor - Department of Automobile Engineering

Zoom Meeting Details -

Meeting Link: <https://sathyabama-ac-in.zoom.us/j/5637933189?pwd=ZTJqZFJCTUFRTiYyZU44TmxoMHPMQT09>

Meeting ID: 563 793 3189 **Password:** 12345

Time: 1:00 - 3:00 PM

Date: 01/02/2021 - 19/02/2021

Chief Patrons:

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

Patrons:

Dr. S. Prakash, Dean, Mechanical

Conveners:

Dr. V. K. Bupesh Raja - 9444076294

Dr. A. Karthikeyan - 8667092520

Mr. Dillip Kumar Sahoo - 9444849804

Course Content

Let Us Skill – Series (2021)

Optimization Techniques

Season 4 Schedule

S. no	Date	Session Topic
1	01/02/2021	Direct Search Methods, Gradient-Based methods
2	02/02/2021	Simplex Method and Linear Programming
3	03/02/2021	Integer Linear Programming
4	04/02/2021	Genetic Algorithm
5	05/02/2021	Particle Swarm Optimization
6	08/02/2021	Ant Colony Optimization Algorithm
7	09/02/2021	Teaching Learning Based Optimization Algorithm
8	10/02/2021	Single Variable Optimization Methods
9	11/02/2021	Multi-Variable Optimization Methods
10	12/02/2021	Neural Network and its Applications
11	15/02/2021	Fuzzy Logic
12	16/02/2021	Hybrid Intelligent Systems
13	17/02/2021	Case Studies on Soft Computing and Meta-Heuristic
14	18/02/2021	Optimization Algorithms in Engineering Applications
15	19/02/2021	Multi-Criteria Decision-Making Methods

List of Participants

Let Us Skill – Series (2021)

Sr. No.	Register Number	Student Name
1	37860011	GOKUL. V
2	39860001	ABISHEK JEREMIAH. J
3	39860002	AJAY ESHWAR. M
4	39860003	AJITH. A
5	39860004	AKASH SUNDARAESWAR. K
6	39860005	AKTHAR
7	39860006	ANTONY MARSHALL. R
8	40860703	SATYAM SHRIVASTAV
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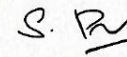
CERTIFICATE OF PARTICIPATION

This is to certify that Saravana Kumar S has successfully participated in the **Let Us Skill Series: Season 4 – Optimization Techniques in Automotive Industries** organized by the Department of Automobile Engineering, Sathyabama Institute of Science and Technology, Chennai held online from 1st February 2021 to 19th February 2021.



Dr. V. K. BUPESH RAJA

CONVENER & HOD AUTOMOBILE



Dr. S. PRAKASH

DEAN MECHANICAL



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Department of Automobile Engineering

Let us Skill - Series - Value Added Program



Season 5 - Essential Tools in Automotive Industry - ANSYS

SPEAKER: R. Kumarasubramanian - Assistant Professor - Department of Automobile Engineering

Zoom Meeting Details -

Meeting Link: <https://sathyabama-ac-in.zoom.us/j/5637933189?pwd=ZTJqZFJCTUFRTiYyZU44TmxoMHPMQT09>

Meeting ID: 563 793 3189 **Password:** 12345

Time: 1:00 - 3:00 PM

Date: 01/03/2021 - 19/03/2021

Chief Patrons:

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

Patrons:

Dr. S. Prakash, Dean, Mechanical

Conveners:

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Dr. A. Karthikeyan - 8667092520

Mr. Dillip Kumar Sahoo - 9444849804

Course Content

Let Us Skill – Series (2021)

ANSYS Fluent

Season 5 Schedule

S. no	Date	Session Topic
1	01/03/2021	Welcome and Introduction to ANSYS
2	02/03/2021	Introduction to CFD
3	03/03/2021	Governing equations
4	04/03/2021	Boundary Conditions and Cell Zones
5	05/03/2021	Grid generation
6	08/03/2021	Solver Settings
7	09/03/2021	Turbulence Modelling 1
8	10/03/2021	Heat Transfer Modelling 2
9	11/03/2021	Phase change Modelling
10	12/03/2021	User-Defined Functions
11	15/03/2021	Advanced Physics
12	16/03/2021	Transient Flow Modelling - 1
13	17/03/2021	Transient Flow Modelling - 2
14	18/03/2021	Post processing with FLUENT and CFD-Post
15	19/03/2021	Graphs and Visualization

List of Participants

Let Us Skill – Session 5 (2021)

Sr. No.	Register Number	Student Name
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6	40860006	ANSHUL MALATHKAR
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10	37860013	JANESWARAN. G
11	37860014	KASILINGAM. S
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13	37860016	KONDAPPA YASHWANT
14	37860017	KUMRESH. N
15	37860018	MOHAMED ABAITH. S
16	37860019	NARAYANA ADITYA
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18	37860021	NOBLE YUGESH. V
19	37860022	PARTHIBA KRISHNA. K
20	37860023	PRANEETH. S. V
21	37860024	RAM PRAWIN. S
22	37860025	REDDY AJAY SHIVSHARAN
23	37860026	ROHIT VADAPALLI
24	37860028	SAI KRISHNA SANJAY. D. R
25	37860029	SANJAY
26	37860030	SARAVANA KUMAR. S
27	37860031	SARAVANAN. S
28	37860033	SEELAM PAVAN KUMAR REDDY
29	37860034	SHINO ASWIN. R
30	37860035	SIVADHARSHAN. I
31	37860036	SIVATHANIGAI. K
32	37860038	SURAJ RAMESH DAVANAPALLI
33	37860039	SURENDIRAN. Y
34	37860040	VENKATESH KUMAR. V
35	37860042	YALLA KRISHNA SAI DURGA SRINIVAS
36	37860701	SACHIN. S
37	37860002	AKASH M GLADIN
38	37860005	BH JASHWANTH VARMA

39	37860006	DEEPAK RAJ. L
40	37860007	DEVENDRA SAI. N. V
41	37860008	DOMINIC MATHEW. R
42	37860009	FAIYAZ MUHAMMED. A
43	37860010	GANESH. M
44	37860011	GOKUL. V
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46	39860002	AJAY ESHWAR. M
47	39860003	AJITH. A
48	39860004	AKASH SUNDARAESWAR. K
49	39860005	AKTHAR
50	39860006	ANTONY MARSHALL. R
51	39860007	DEV PRASAD. V
52	39860008	KILARI LIKITH KUMAR
53	39860009	KOTHA SATHWIK
54	39860010	MANEPALLI SURYA CHANDRA RAO
55	39860011	MOHAMMED MUSTHAKEEM BASHA
56	39860012	MUHAMMED ARSHAD
57	39860013	MUTHUPANDI. K
58	39860014	NASSION NEUPANE
59	39860015	PONBARANI. R
60	39860016	PRANAVAN. B
61	39860017	RAMESH KUMAR. P
62	39860018	SANJAI. R
63	39860019	SATHEESWARAN. S
64	39860020	SHAIK MAHAMMED SAYER
65	39860021	SIDDHARTHA BABU CHAUDHARY
66	40860001	IGNATIUS RAJA
67	40860002	RAHUL KAVVAMPALLY
68	40860003	SABINESH
69	40860004	SHAYANDHAN

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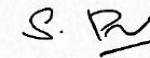
CERTIFICATE OF PARTICIPATION

This is to certify that Praneeth S.V has successfully participated in the **Let Us Skill Series:**
Season 5 – Essential Tools in Automotive Industry – ANSYS organized by the Department of
Automobile Engineering, Sathyabama Institute of Science and Technology, Chennai held online
from 1st March 2021 to 19th March 2021.



Dr. V. K. BUPESH RAJA

CONVENER & HOD AUTOMOBILE



Dr. S. PRAKASH

DEAN MECHANICAL