

E.G.S.Pillay Engineering College, (Autonomous) Nagapattinam

Dept of Electrical and Electronics Engineering

INTERNAL CIRCULAR

2-05-2021

Value added course

It is informed to all final year (2017-21) students that a five day value added course on "ELECTRIC VEHICLES," been organized between 3-05-2021 to 7-05-2021. All the students of IV year EEE are instructed to attend the course without fail.

Time: 9.15 am – 4.30 Pm

Venue: EEE Seminar hall

(Circulated to IV year class)

V. Mohan
02/05/2021

HOD/EEE

Dr. V. MOHAN M.E., Ph.D.,
PROFESSOR & HEAD
Department of Electrical & Electronics Engg
E.G.S. Pillay Engineering College - Nagapattinam

ATTESTED

S. Ramabalan
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

**E.G.S. PILLAY
ENGINEERING COLLEGE
(AUTONOMOUS)**

Nagapattinam – 611 002

Affiliated to Anna University,
Chennai| Approved by AICTE, New
Delhi

ACCREDITED by NAAC With
GRADE 'A'

Department of Electrical and
Electronics Engineering
(Accredited by NBA)

VALUE ADDED COURSE
ON
“ Electric vehicle”

Syllabus

- **Introduction to electric vehicles**
- **Electric motors**
- **Power electronics for EVs**
- **Energy storage systems**
- **EV battery charging technologies**
- **Hybrid technologies**
- **Design & implementation**

Course Overview

Resource Person

Mr.S.Rajkumar,

Senior Engineer ,R& D

(Indiguard Systems Pvt Ltd), Thanjavur

Course Coordinator

Mr.R.Anandaraj,AP/EEE

course period : 3-5-2021 to 7-5-2021

Time : 9.30 am – 4.30 pm

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL**

E.G.S. Pillay Engineering College,
Thanji, Nagore - 611 002.

**E.G.S. Pillay ENGINEERING
COLLEGE**

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New Delhi**

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'A'**

**Department of Electrical
and Electronics
Engineering
(Accredited by NBA)**

VALUE ADDED COURSE

ON

"Electric vehicles"

Syllabus

- **Electric Vehicle
Foundations &
Supporting
Infrastructure**
- **Battery Technology
and Control Systems**
- **Electric Motors and
Power converters**



Resource Person

**Mr.R.Anandaraj
Associate Professor
EEE**

**E.G.S. Pillay Engineering college
,Nagapattinam**

Course Coordinator

Mrs.S.Latha,AP/EEE

ATTESTED



**Dr.S.RAMABALAN, M.E., Ph.D.,
PRINCIPAL**

**E.G.S. Pillay Engineering College,
Thothti, Nagore - 611 002**

Nagapattinam (Dt) Tamil Nadu.

E.G.S. PILLAY ENGINEERING, NAGAPATTINAM

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added course

On

ELECTRIC VEHICLES

About the institution :

Our college is offering value added courses for all the students intended to provide additional learner centric graded skill oriented technical training. The courses enhance the ability of students in their respective domains and progress in their respective field of studies.

About the department:

Our department intends to provide additional technical knowledge and ensure the active participation of students to practice in the multidisciplinary tasks and core related areas.

Course period

03-05-2021 to 07-06-2021

Course instructor:

Mr.R.Anandaraj AP/EEE

Objectives

Objectives of providing value added courses are to

- Gain knowledge from the subject experts
- Meet the expectations of industry
- Improve the employability skills of the students
- To reduce air pollution and curb the health emergency issues.

Courses Structure

- ✓ Industry experts / eminent academicians from other Institutes/ Subject Experts from the respective departments teach the value added course
- ✓ The registration for the courses will be done at the beginning of academic year
- ✓ The duration of each course is 40 hours of Theory / Practical / Both

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

Expected Outcomes

Students will be able to

- Demonstrate their technical and communication skills
- Apply the novel technologies in their respective fields
- Face the challenges in the current industry scenario

Evaluation & Result

Evaluation of value added courses shall be carried out annually for 100 marks. Students will be given certificates with the grades based on the marks scored in the Examination.

ATTESTED



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E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

Requisition letter

From

Mr.RAnandaraj.,Asst.Prof./EEE
Department of Electrical and Electronics Engineering
E.G.S. Pillay Engineering College (Autonomous)
Nagapattinam-611002

To

The Secretary,
E.G.S. Pillay Engineering College (Autonomous)
Nagapattinam-611002

(Through HoD)

Respected sir,

Sub: Request to approve and allocate a fund to conduct a course on "Electric vehicles" for II year EEE students.

We have planned to conduct a 5 days course on electric vehicles for the II EEE students during the period 03-05-2021 to 07-05-2021.Details of students, course fee, course details etc. are placed enclosed with this letter .we request you to approve and allocate fund for the same.

Thanking you

Encl:

1. Course details
2. Course fee
3. Expected budget.

28.04.21
Nagapattinam

[Handwritten signature in blue ink]

[Handwritten signature in black ink]

Yours obediently

ATTESTED

[Handwritten signature in green ink]
Dr.S.RAMAPALAN M.E Ph.D.,

E.G.S. Pillay Engineering College (Autonomous),
Nagapattinam-611002.

Nagapattinam-611002.

Department of Electrical and Electronics Engineering
ONE WEEK VALUE ADDED COURSE

On

“ELECTRIC VEHICLES”

Attendance register

Batch: 2017-2021

Academic Year: 2020-2021

SL.No	Reg. No	Name	3/5/21	4/5/21	5/5/21	6/5/21	7/5/21
1.	E17EER001	AJITHKUMAR J	P	P	P	P	P
2.	E17EER002	AKASH J	P	P	P	P	P
3.	E17EER003	AKASH S	A	A	A	A	A
4.	E17EER004	ANANTH N	P	P	P	P	A
5.	E17EER005	ARUNKUMAR R	P	P	P	P	P
6.	E17EER006	ASHOKRAJ B	P	P	P	P	P
7.	E17EER007	ATCHAYA R	P	P	P	P	P
8.	E17EER008	BALAJI S	P	P	P	P	P
9.	E17EER009	BALAKUMARAN V	P	P	P	P	P
10.	E17EER010	BALAMURUGAN R	P	P	P	P	P
11.	E17EER011	BHARATH S	P	P	P	P	P
12.	E17EER012	CHANDRU S	P	P	P	P	P
13.	E17EER014	DHANUSRI S	P	P	P	P	P
14.	E17EER015	DHIVAKAR A	P	P	P	P	P
15.	E17EER016	DIVYA J	P	P	P	P	P
16.	E17EER017	DURAIVALAVAN K	P	P	P	P	P
17.	E17EER018	GANESH P	P	P	P	P	P
18.	E17EER019	GIRISUNDAR M R	P	P	P	P	P
19.	E17EER020	HANIN FARAZ H	P	P	P	P	P
20.	E17EER021	HARISH T	P	P	P	P	P
21.	E17EER022	IBTHIHARUDEEN S	P	P	P	P	P
22.	E17EER023	JAYADEEPAN T	P	P	P	P	P
23.	E17EER024	JEROMIYA S	P	P	P	P	P
24.	E17EER025	KARTHIKESH K	P	P	P	P	P
25.	E17EER026	KRISHNARAJ D	P	P	P	P	P
26.	E17EER027	KURALARASAN S	P	P	P	P	P
27.	E17EER028	MADHAVAN S	P	P	P	P	P
28.	E17EER029	MANOJRAJ A S	P	P	P	P	P
29.	E17EER030	MOHANRAJ S	P	P	P	P	P
30.	E17EER031	NAVANEETHA KANNAN S	P	P	P	P	P
31.	E17EER032	NEETHIS RAM S	P	P	P	P	P
32.	E17EER034	PAVITHRAN T	P	P	P	P	P
33.	E17EER035	PRATHEEP S	P	P	P	P	P
34.	E17EER036	RAGUL D	P	P	P	P	P
35.	E17EER038	RAJESH KANNAN M	P	P	P	P	P
36.	E17EER039	RAJKUMAR R	P	P	P	P	P
37.	E17EER040	RAJMANI R	P	P	P	P	P
38.	E17EER041	RAMESH M	P	P	P	P	P
39.	E17EER042	RAMYA N	P	P	P	P	P
40.	E17EER043	RENUGA M V	P	P	P	P	P
41.	E17EER044	REVATHI M	P	P	P	P	P
42.	E17EER045	SAIVIGNESH M	P	P	P	P	P
43.	E17EER046	SANTHOSH	P	P	P	P	P

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Thethi, Nagore - 611 002

44.	E17EER048	SARAVANAN S	D	P	P	P	P	P
45.	E17EER049	SELVAKUMAR S	D	P	P	P	P	P
46.	E17EER051	SUVETHA M	D	P	P	P	P	P
47.	E17EER052	THARUMARAJA P	D	P	P	P	P	P
48.	E17EER053	THILEEBAN M	A	A	A	A	A	A
49.	E17EER054	VASANTH J	D	P	P	P	P	P
50.	E17EER055	VASANTHAN S	P	P	P	P	P	P
51.	E17EER056	VENKATESAN D	D	P	P	P	P	P
52.	E17EER057	VENKATESH K	D	P	P	P	P	P
53.	E17EER058	VIGNESH T	D	P	P	P	P	P
54.	E17EER059	VIJAY G	D	P	P	P	P	P
55.	E17EER060	VINITH A	P	P	P	P	P	P
56.	E17EER061	VINIYA S	A	A	A	A	A	A
57.	E17EER062	VISHAL N	D	P	P	P	P	P
58.	E17EER063	YUVARAJ G	A	A	A	A	A	A
59.	E17EEL301	AADHILL AHAMED S	P	P	P	P	P	P
60.	E17EEL303	DHARSHAN R	P	P	P	P	P	P
61.	E17EEL304	KEERTHIVASAN.S	P	P	P	P	P	P
62.	E17EEL305	MATHAVAN.A	P	P	P	P	P	P
63.	E17EEL306	MOHAMED AMANULLA M	D	P	P	P	P	A
64.	E17EEL307	MOHAMED FAIZ.J	P	P	P	P	P	P
65.	E17EEL308	MOHAMMED RIZWAN.S	P	P	P	P	P	P
66.	E17EEL309	RAJAMANIKANDAN.S	D	P	P	P	P	P
67.	E17EEL310	SATHIYA NARAYANAN D	D	P	P	P	P	P
68.	E17EEL311	SURYA R	D	P	P	P	P	P
69.	E17EEL312	SYED YAKINUL RAGMAN.H	P	P	P	P	P	P
70.	E17EEL313	VENKATRAMANAN .N	D	P	P	P	P	P
71.	E17EEL314	VIGNESH C	P	P	P	P	P	P
72.	E17EEL315	VINITH K	A	P	P	P	P	P
			35	45	55	65	75	

[Handwritten Signature]

HOD/EEE

Dr. V. MOHAN M.E., Ph.D.,
PROFESSOR & HEAD
 Department of Electrical & Electronics Engg.
 E.G.S. Pillay Engineering College - Nagapattinam

ATTESTED

[Handwritten Signature]

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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 Thethi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.



E.G.S PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611002

Accredited by NAAC with 'A' Grade | Accredited by NBA (EEE, MECH, CSE)

Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai

Value added course on

ELECTRIC VEHICLES

Organized by

Department of Electrical and Electronics Engineering



Certificate



This is to certify that Mr. / Ms. / Mrs. S. DHANUSRI

Of IY EEE has attended five days Value Added Course on "Electric

Vehicles" From 03rd May 2021 to 07th May 2021.

S. M
COORDINATOR

[Signature]
ATTESTED
DR. S. RAMABALAN, M.E., Ph.D.
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

[Signature]
HOD/EEE





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Value added course on

ELECTRIC VEHICLES

Organized by

Department of Electrical and Electronics Engineering



Certificate

This is to certify that Mr. / Ms. / Mrs. M. SAIVIGNESH

Of IV EEE has attended five days Value Added Course on "Electric

Vehicles" From 03rd May 2021 to 07th May 2021.

S. URS
COORDINATOR

ATTESTED

[Signature]
HOD/EEE

Dr.S.RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Theethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.


E.G.S. Pillay Engineering college, Nagapattinam
Department of electrical and electronics engineering
VALUE ADDED COURSE ON ELECTRIC VEHICLES


03.05.2021 to 07.05.2021

Expenditure statement

Sl.no	Particulars	Bill details	Amount spent (Rs)
1	Banner	New jeevi multimedia	475
2	Shawl	Saranya textiles	300
3.	Tea snacks	E.G.S.P. canteen	3600
4	Program report	voucher	400
Total expenditure			4775

Fund allotted for value added course : Rs. 5000
Fund utilized for the course : Rs. 4775
Fund to be remitted to the account : Rs. 225


Course coordinator


HoD/EEE
Dr. V. MOHAN M.E., Ph.D.,
PROFESSOR & HEAD
Department of Electrical & Electronics Engg
E.G.S. Pillay Engineering College - Nagapattinam

ATTESTED

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Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE ON
ELECTRIC VEHICLES
FEEDBACK FORM

DATE: 7.5.21

Give your feedback in 1 to 5 scale 1. Very poor 2.Poor 3.Good 4.Very good 5.Excellent

1. How much the Course is useful for you?

<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
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2. Course Content

<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
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3. Interaction with students

<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
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4. Content Delivery method

<input type="radio"/> 5	<input checked="" type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
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5. Whether all your queries are answered

<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
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6. How the difficult points are handled

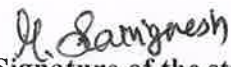
<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
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Any other points Good

.....
.....

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.


Signature of the student



E.G.S PILLAY ENGINEERING COLLEGE



NAGAPATTINAM -- 611002

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Value added course on

ELECTRIC VEHICLES

Organized by

Department of Electrical and Electronics Engineering



Certificate

This is to certify that Mr. / Ms. / Mrs. M. SAVIGNESH

Of EEE has attended five days Value Added Course on "Electric Vehicles" From 03rd May 2021 to 07th May 2021.

S. L. S.
COORDINATOR

ATTESIED
[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

HOD/EEE

E.G.S. Pillay Engineering College,
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Nagapattinam (Dt) Tamil Nadu.

E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

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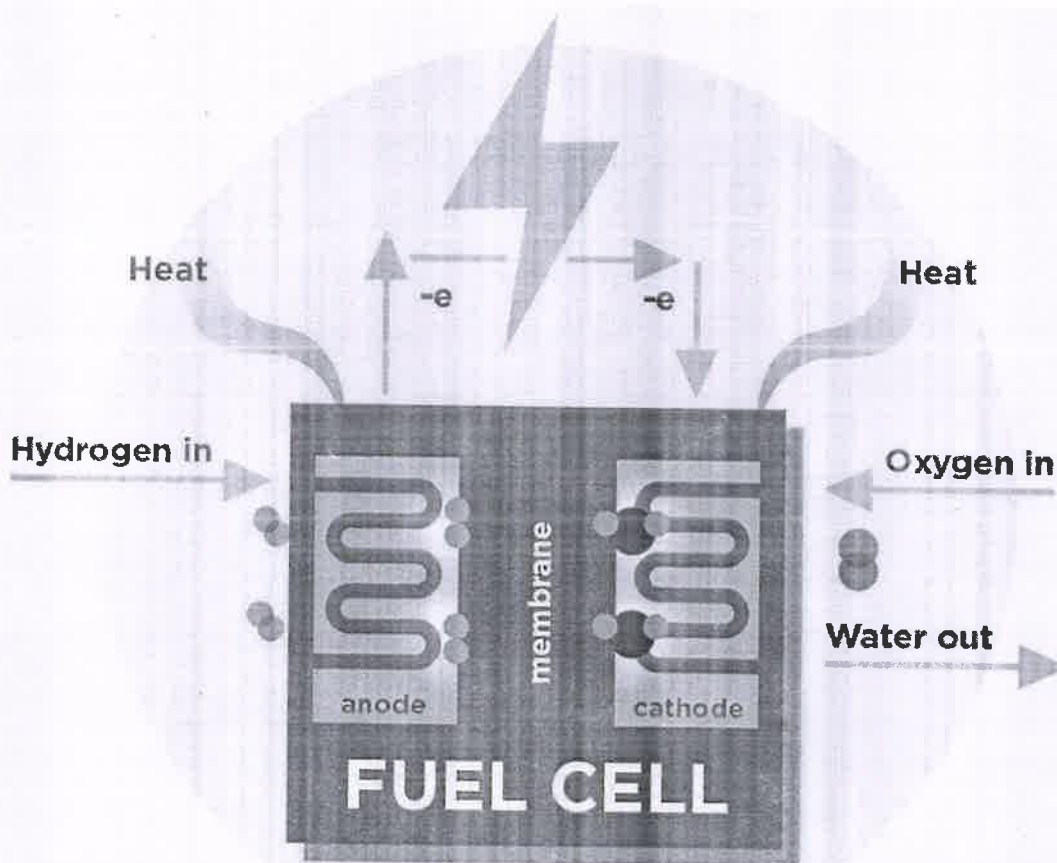
Department of Electrical and Electronics Engineering



Value Added Course

on

HYDROGEN AS A FUEL



ATTESTED

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PRINCIPAL**

**E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.**



E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

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Department of Electrical and Electronics Engineering

(Accredited by NBA)

A REPORT ON ONE Week Value Added Course

on

HYDROGEN AS A FUEL

REPORT

Department of Electrical and Electronics Engineering, E.G.S. Pillay Engineering College, Nagapattinam has planned to organize a one week value added course for the second year students of EEE department of E.G.S. Pillay Engineering College and through discussions it was coined as "HYDROGEN AS A FUEL". The coordinators identified for this program is Prof. SIVAMANI.S. EEE department. The program commences on 24.05.2021 and ended 28.05.2021.

This value added course was conducted by Dr.T.Suresh Padmanabhan, Professor. E.G.S. Pillay Engineering College for the one week of period. The main purpose of conducting this course for the second year student is to ignite student to develop interpersonal skills on renewable energy sources . The course comprises theory, demo and field visits in the five day period of training period. This course with the fund spend up of Rs.55, 500 was successfully conducted with the financial assistance of the management and the department of Electrical and electronics. Of the total 72 registered third year


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**E.G.S. Pillay Engineering College,
Thethi, Nagapattinam**

students 56 students successfully got trained in this one week course and they have been issued with the certificate with special prizes for the active performers in all sessions.

The students thoroughly utilize this one week course and acknowledge the outcome of this value added course with their feedback and suggestions. The department faculty Prof. S.Sivamani coordinate the entire course session with the assistance of the department head Prof Dr.V.Mohan and other teaching and non teaching staff members.


Reported by

- Course coordinator

ATTESTED

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E.S.S. Pillay Engineering College,
Theethi, Nargore - 611102.
Nagapattinam (Dt) Tamil Nadu.

E.G.S. PILLAY ENGINEERING COLLEGE
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Nagapattinam – 611002

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E'A'

Department of Electrical and
Electronics Engineering
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VALUE ADDED COURSE ON
“HYDROGEN AS A FUEL”

Syllabus

Properties of hydrogen

**Introduction to
hydrogen storage**

**Use of hydrogen in internal
combustion engines**

Fuel cells

Hydrogen sensing

Demonstrations

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E.G.S. Pillay Engineering College,
Thechi, Nagapattinam - 611 002.
Nagapattinam (Dt) Tamil Nadu.

Course Overview

Resource Person

Dr. T. Suresh Padmanabhan, Professor

(E.G.S. Pillay Engineering College)

Course Coordinator

Mr. S. Sivamani, AP/EEE

E.G.S. PILLAY

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Delhi

ACCREDITED by NAAC With
GRADE 'A'

Department of Electrical and
Electronics Engineering
(Accredited by NBA)

VALUE ADDED COURSE

ON

“HYDROGEN AS A FUEL”

Syllabus

Properties of hydrogen

**Introduction to
hydrogen storage**

Use of hydrogen in internal
combustion engines

Fuel cells

Hydrogen sensing

Demonstrations

ATTESTED



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PRINCIPAL**

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.

Course Overview

Resource Person

Dr. T.Suresh Padmanabhan, Professor

(E.G.S. Pillay Engineering College)

Course Coordinator

Mr.S.Sivamani ,AP/EEE

ABOUT THE INSTITUTION



E. G. S. Pillay Engineering College (Autonomous) is one of the pioneering non-grant engineering Colleges in the State. It was established by the G. S. Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamil Nadu, approval of the All-India Council for Technical Education, New Delhi and affiliated to Anna University, Chennai. The college has accredited by NAAC with 'A' Grade and all the UG programmes are accredited by NBA. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non-grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers.

Vision

Envisioned to transform our institution into a "Global Centre of Academic Excellence"

Mission

- ✓ To provide world class education to the students and to bring out their inherent talents
- ✓ To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes
- ✓ To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills
- ✓ To have regular interaction with the industries in the area of R&D and offer consultancy, training and testing services
- ✓ To establish centre of excellence in the emerging areas of research
- ✓ To offer continuing education and non-formal vocational education programmes that are beneficial to the society

Department Vision

The department is envisioned to produce globally competent electrical and electronics engineering

Department Mission

- To impart the contemporary knowledge in the field of electrical and electronics engineering with high human values
- To offer state-of-the-art facilities for conducive learning and conducting research
- To train the students for professional career and higher education by imparting self-learning and interpersonal skills.

Date: 24-05-2021 to 28-05-2021

(Five Days)

Time: 9.30 am to 4.30 pm

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (DT) Tamil Nadu.

E.G.S.Pillay Engineering College, Nagapattinam
Dept of Electrical and Electronics Engineering
VALUE ADDED COURSE

On
HYDROGEN AS A FUEL 2020-2021

About the institution :

Our college is offering value added courses for all the students intended to provide additional learner centric graded skill oriented technical training. The courses enhance the ability of students in their respective domains and progress in their respective field of studies.

About the department:

Our department intends to provide additional technical knowledge and ensure the active participation of students to practice in the multidisciplinary tasks and core related areas .

Course period:

24.05.2021 to 28.05.2021

Course instructor:

Resource Person Dr.T.Suresh Padmanabhan, Professor
(E.G.S. Pillay Engineering College)

Objectives

Objectives of providing value added courses are to

- Gain knowledge from the subject experts
- Meet the expectations of industry
- Improve the employability skills of the students

Courses Structure

- ✓ Industry experts / eminent academicians from other Institutes/ Subject Experts from the respective departments teach the value added course
- ✓ The registration for the courses will be done at the beginning of academic year
- ✓ The duration of each course is 40 hours of Theory / Practical / Both

Expected Outcomes

Students will be able to

- > Demonstrate their technical and communication skills
- > Apply the novel technologies in their respective fields
- ✓ Face the challenges in the current industry scenario

Evaluation & Result

Evaluation of value added courses shall be carried out annually for 100 marks. Students will be given certificates with the grades based on the marks scored in the Examination.

ATTESTED


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Nagapattinam, Tamil Nadu.

E.G.S.Pillay Engineering College, (Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering

CIRCULAR

20-05-2020

Value added course

It is informed to all Second year (2019-23) students that a five day value added course on "Hydrogen as a fuel," been organized between 24-05-2021 to 28-05-2021. All the students of II year EEE are instructed to attend the course without fail.

Time: 9.15 am – 4.30 Pm

Venue: EEE Seminar hall

(Circulated to II year class)


20/05/2020

HOD/EEE

**Dr. V. MOHAN M.E., Ph.D.,
PROFESSOR & HEAD**

Department of Electrical & Electronics Engg
E.G.S. Pillay Engineering College - Nagapattinam

ATTESTED


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E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam
Department of Electrical and Electronics Engineering

ONE WEEK VALUE ADDED COURSE

On

“ Hydrogen as a fuel ”

Students enrolled for the value added course

Batch: 2019 -23


Academic years: 2020-21

S. No	Name	Reg. No	24/5	25/5	26/5	27/5	28/5
1.	Aarthi.S	E19EER001	/	/	/	/	/
2.	Abilash.S	E19EER002	/	/	/	/	/
3.	AjithKumar.M	E19EER003	/	/	/	/	/
4.	Amos.R	E19EER004	/	/	AB	/	/
5.	Aravindh.M	E19EER006	/	/	/	/	/
6.	Dhivinraj.K	E19EER008	/	/	/	/	/
7.	Dinesh Kumar.R	E19EER009	/	/	/	/	/
8.	Dinesh.S	E19EER010	/	/	/	/	/
9.	Dominic Rosario.S	E19EER011	AB	AB	AB	AB	AB
10.	Durai Murugan.M	E19EER012	/	/	/	/	/
11.	Govindarajulu.M	E19EER013	/	/	/	/	/
12.	Jagajeevi.J	E19EER014	/	/	/	/	/
13.	Janane.K.S	E19EER015	/	/	/	/	/
14.	John Milton.A	E19EER016	/	/	/	/	/
15.	Kabilan.V	E19EER017	/	/	/	/	/
16.	Kamal Raj. K	E19EER018	/	/	/	/	/
17.	Karthik.S	E19EER019	/	/	/	/	/
18.	Karthikesan.P	E19EER020	/	/	/	/	/
19.	Kavinesh.R	E19EER021	/	/	/	/	/
20.	Keerthana.M	E19EER022	/	/	ATTESTED		

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 E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

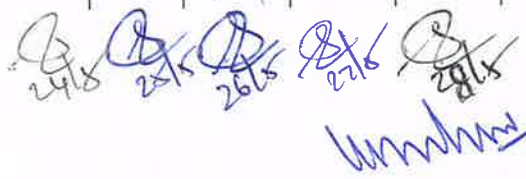
21.	Kesavan.R	E19EER023	✓	✓	✓	✓	✓
22.	Kulothungan.S	E19EER024	✓	✓	✓	✓	✓
23.	Manikandan.S	E19EER025	✓	✓	✓	✓	✓
24.	Manoj Kumar.S	E19EER027	✓	✓	✓	✓	✓
25.	Mathan Kumar.K	E19EER028	✓	✓	✓	✓	✓
26.	Mohamed Abul Fayasudeen M	E19EER029	✓	✓	✓	✓	✓
27.	Muhammed Bagurudeen H	E19EER030	✓	✓	✓	✓	✓
28.	Mukilan P	E19EER031	AB	AB	AB	AB	AB
29.	Muthu Krishnan R	E19EER032	✓	✓	✓	✓	✓
30.	Nagarajan S	E19EER033	✓	✓	✓	✓	✓
31.	Naveeth Ahamed T	E19EER034	✓	✓	✓	✓	✓
32.	Nivash Prasath V R	E19EER035	✓	✓	✓	✓	✓
33.	Niyasudeen N	E19EER036	✓	✓	✓	✓	✓
34.	Prakash Raj S	E19EER037	✓	✓	✓	✓	AB
35.	Ragunathan G	E19EER038	✓	✓	✓	✓	✓
36.	Rifath Ahamed E	E19EER040	✓	✓	✓	✓	✓
37.	Rishikeshi S	E19EER041	✓	✓	✓	✓	✓
38.	Salman Haris A	E19EER042	✓	✓	✓	✓	✓
39.	Santhosh R	E19EER043	✓	✓	✓	✓	✓
40.	Saravanan P	E19EER044	AB	AB	AB	AB	AB
41.	Sharmila M	E19EER045	✓	✓	✓	✓	✓
42.	Sivasankar S	E19EER046	✓	✓	✓	✓	✓
43.	Somnath R	E19EER047	✓	✓	✓	✓	✓
44.	Sriram J	E19EER048	✓	✓	✓	✓	✓
45.	Suraj Singh	E19EER049	✓	✓	✓	✓	✓
46.	Surendraprasad M	E19EER050	✓	✓	✓	✓	✓

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47.	Umamaheswari M	E19EER051	/	F	/	/	/
48.	Varatharajan J	E19EER052	/	/	/	/	/
49.	Vaseem Akram Y	E19EER053	AB	AB	AB	AB	AB
50.	Vignesh S	E19EER054	/	F	/	/	/
51.	Vijay K	E19EER055	/	/	/	/	/
52.	Vijaya Kumar G	E19EER056	/	/	/	/	/
53.	Ahamed A	E19EEL301	/	/	/	/	/
54.	Ashok Kumar R	E19EEL302	/	/	/	/	/
55.	Balaji A	E19EEL303	/	/	/	/	/
56.	Dinesh D	E19EEL304	/	/	/	/	/
57.	Keerthivasan D	E19EEL305	/	/	/	/	/
58.	Abikumar M	E19EEL306	/	/	/	/	/
59.	Mohamed Dhilsath Hussain M	E19EEL307	/	/	/	/	/
60.	Nitheesh	E19EEL308	/	/	/	/	/
61.	Rajeshkumar .K	E19EEL309	/	/	/	/	/
62.	Sabari S	E19EEL310	/	/	/	/	/
63.	Sajithram R	E19EEL311	AB	/	/	/	/
64.	Sathishkumar R	E19EEL312	/	/	/	/	/
65.	Sriram V	E19EEL313	/	/	/	/	/


Course coordinator


24/5, 25/5, 26/5, 27/5, 28/5

HOD/EEE

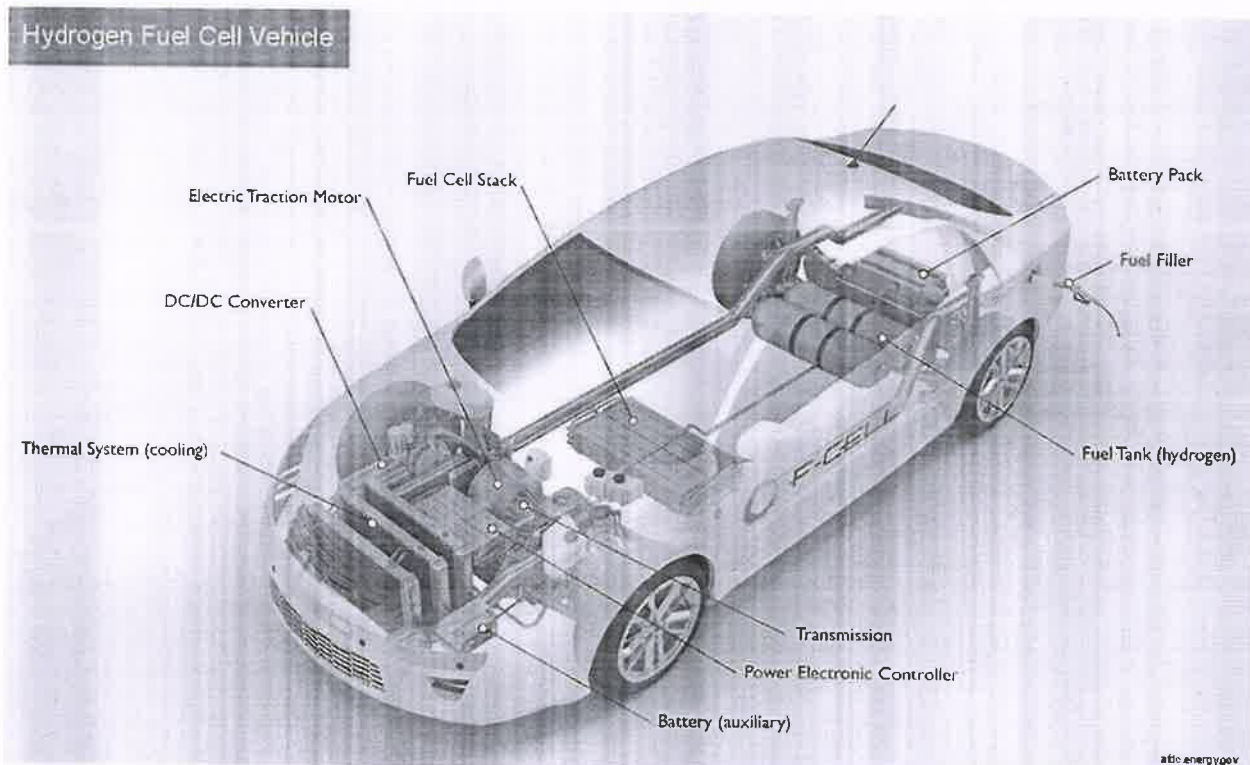
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COURSE MATERIAL

How Do Fuel Cell Electric Vehicles Work Using Hydrogen?

Like all-electric vehicles, fuel cell electric vehicles (FCEVs) use electricity to power an electric motor. In contrast to other electric vehicles, FCEVs produce electricity using a fuel cell powered by hydrogen, rather than drawing electricity from only a battery. During the vehicle design process, the vehicle manufacturer defines the power of the vehicle by the size of the electric motor(s) that receives electric power from the appropriately sized fuel cell and battery combination. Although automakers could design an FCEV with plug-in capabilities to charge the battery, most FCEVs today use the battery for recapturing braking energy, providing extra power during short acceleration events, and to smooth out the power delivered from the fuel cell with the option to idle or turn off the fuel cell during low power needs. The amount of energy stored onboard is determined by the size of the hydrogen fuel tank. This is different from an all-electric vehicle, where the amount of power and energy available are both closely related to the battery's size. Learn more about fuel cell electric vehicles.



Key Components of a Hydrogen Fuel Cell Electric Car

Battery (auxiliary): In an electric drive vehicle, the low-voltage auxiliary battery provides electricity to start the car before the traction battery is engaged; it also powers vehicle accessories.

Battery pack: This high-voltage battery stores energy generated from regenerative braking and provides supplemental power to the electric traction motor.

DC/DC converter: This device converts higher-voltage DC power from the traction battery pack to the lower-voltage DC power needed to run vehicle accessories and recharge the auxiliary battery.

Electric traction motor (FCEV): Using power from the fuel cell and the traction battery pack, this motor drives the vehicle's wheels. Some vehicles use motor generators that perform both the drive and regeneration functions.

Fuel cell stack: An assembly of individual membrane electrodes that use hydrogen and oxygen to produce electricity.

Fuel filler: A nozzle from a fuel dispenser attaches to the receptacle on the vehicle to fill the tank.

Fuel tank (hydrogen): Stores hydrogen gas onboard the vehicle until it's needed by the fuel cell.


Power electronics controller (FCEV): This unit manages the flow of electrical energy delivered by the fuel cell and the traction battery, controlling the speed of the electric traction motor and the torque it produces.

Thermal system (cooling) - (FCEV): This system maintains a proper operating temperature range of the fuel cell, electric motor, power electronics, and other components.

Transmission (electric): The transmission transfers mechanical power from the electric traction motor to drive the wheels.

A fuel cell uses the chemical energy of hydrogen or other fuels to cleanly and efficiently produce electricity. If hydrogen is the fuel, the only products are electricity, water, and heat. Fuel cells are unique in terms of the variety of their potential applications; they can use a wide range of fuels and feedstocks and can provide power for systems as large as a utility power station and as small as a laptop computer.

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Why Study Fuel Cells

Fuel cells can be used in a wide range of applications, providing power for applications across multiple sectors, including transportation, industrial/commercial/residential buildings, and long-term energy storage for the grid in reversible systems.

Fuel cells have several benefits over conventional combustion-based technologies currently used in many power plants and vehicles. Fuel cells can operate at higher efficiencies than combustion engines and can convert the chemical energy in the fuel directly to electrical energy with efficiencies capable of exceeding 60%. Fuel cells have lower or zero emissions compared to combustion engines. Hydrogen fuel cells emit only water, addressing critical climate challenges as there are no carbon dioxide emissions. There also are no air pollutants that create smog and cause health problems at the point of operation. Fuel cells are quiet during operation as they have few moving parts.

How Fuel Cells Work

Fuel cells work like batteries, but they do not run down or need recharging. They produce electricity and heat as long as fuel is supplied. A fuel cell consists of two electrodes—a negative electrode (or anode) and a positive electrode (or cathode)—sandwiched around an electrolyte. A fuel, such as hydrogen, is fed to the anode, and air is fed to the cathode. In a hydrogen fuel cell, a catalyst at the anode separates hydrogen molecules into protons and electrons, which take different paths to the cathode. The electrons go through an external circuit, creating a flow of electricity. The protons migrate through the electrolyte to the cathode, where they unite with oxygen and the electrons to produce water and heat. Learn more about:

Parts of a fuel cell

Fuel cell systems

Types of fuel cells.

View the Hydrogen and Fuel Cell Technologies Office's fuel cell animation to see how a fuel cell operates.

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Research and Development Goals

The U.S. Department of Energy (DOE) is working closely with its national laboratories, universities, and industry partners to overcome critical technical barriers to fuel cell development. Cost, performance, and durability are still key challenges in the fuel cell industry. View related links that provide details about DOE-funded fuel cell activities.

Cost—Research, development, and demonstration (RD&D) focuses on the development of low-cost fuel cell stack and balance of plant (BOP) components and advanced high-volume manufacturing approaches to reduce overall system cost. Platinum represents one of the largest cost components of a direct hydrogen fueled polymer electrolyte membrane fuel cell, so there is emphasis on approaches that will increase activity and utilization and reduce the content of current platinum group metal (PGM) and PGM-alloy catalysts, as well as PGM-free catalyst approaches for long-term applications.

Performance—To improve fuel cell efficiency and performance, RD&D focuses on innovative materials and integration strategies. Efforts include developing ion-exchange membrane electrolytes with enhanced efficiency and durability at reduced cost; improving membrane electrode assemblies (MEAs) with high power density through integration of state-of-the-art MEA components; modeling to understand system design and operating conditions; and developing stacks with high efficiency at rated power and high-performing BOP components, such as air management components with low parasitic losses.

Durability—Fuel cell applications generally require adequate performance to be maintained over long periods of time. DOE has set ultimate targets for fuel cell system lifetime under realistic operating conditions at 8,000 hours for light-duty vehicles, 30,000 hours for heavy-duty trucks, and 80,000 hours for distributed power systems. In the most demanding applications, system reliability and robustness is required under dynamic and harsh operating conditions. Realistic operating conditions include starting and stopping, freezing and thawing, impurities in the fuel and air, and humidity and dynamic load cycles that result in stresses on the chemical and mechanical stability of the fuel cell system materials and components. RD&D focuses on identifying and understanding the fuel cell degradation mechanisms and developing materials and strategies to mitigate their effects.

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE ON
HYDROGEN AS A FUEL
FEEDBACK FORM

DATE: 28/05/2021

Give your feedback in 1 to 5 scale 1. Very poor 2.Poor 3.Good 4.Very good 5.Excellent

- | | | | | | |
|-------------------------------------------|-------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| 1. How much the Course is useful for you? | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 2. Course Content | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 3. Interaction with students | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 4. Content Delivery method | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 5. Whether all your queries are answered | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 6. How the difficult points are handled | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |

Any other points

Excellent

ATTESTED

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Nagapattinam (Dt) Tamil Nadu.


Signature of the student

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FEEDBACK FORM


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- | | | | | | |
|-------------------------------------------|------------------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
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| 3. Interaction with students | <input checked="" type="radio"/> 5 | <input type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 4. Content Delivery method | <input checked="" type="radio"/> 5 | <input type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 5. Whether all your queries are answered | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 6. How the difficult points are handled | <input type="radio"/> 5 | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |

Any other points need more time.

.....
.....
.....

ATTESTED

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Signature of the student

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|-------------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------|-------------------------|
| 1. How much the Course is useful for you? | <input checked="" type="radio"/> 5 | <input type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
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| 6. How the difficult points are handled | <input checked="" type="radio"/> 5 | <input type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |

Any other points

good

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Kavin
Signature of the student

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE ON

HYDROGEN AS A FUEL

FEEDBACK FORM

DATE: 28-05-2021

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1. How much the Course is useful for you?

5 4 3 2 1

2. Course Content

5 4 3 2 1

3. Interaction with students

5 4 3 2 1

4. Content Delivery method

5 4 3 2 1

5. Whether all your queries are answered

5 4 3 2 1

6. How the difficult points are handled

5 4 3 2 1

Any other points

.....
.....

ATTESTED
[Signature]
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[Signature]
Signature of the student

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- | | | | | | |
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| 6. How the difficult points are handled | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |


Any other points *useful*

.....

.....

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Signature of the student



E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS)



NAGAPATTINAM - 611002

Accredited by NMAC with 'A' Grade | Approved by NBA (EEE, MECH, CSE)
Approved by AKCE - New Delhi and Affiliated to Anna University - Chennai

IQAC

One week VALUE ADDED COURSE on

HYDROGEN AS A FUEL

Organized by

Department of Electrical & Electronics Engineering



Certificate



This is to certify that Mr. / Ms. / Mrs. _____

JOHN MILTON A

of **EEE** has attended One week VALUE ADDED COURSE on
HYDROGEN AS A FUEL on 24th - 28th May 2021. **ATTESTED**

[Signature]

Course Coordinator

**Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL**

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611002
Nagapattinam (Dt) Tamil Nadu.

[Signature]

HOD

Requisition letter

From,

V. Yokeshwaran,
Assistant professor, EEE Dept
E.G.S.Pillay Engineering College,
Nagapattinam

To,

The principal,
E.G.S.Pillay Engineering College,
Nagapattinam.

Through proper channel,

Sub: requisition for conducting value added course on "Introduction to Electric vehicle"


Sir,

As part of the academic progress we have planned to conduct a five day value added course on "Introduction to Electric vehicles," from 01-03-2021 to 05-03-2021 for the III year students (2018-2022 batch). I request you to grant us permission to utilize the laboratory and other facilities for conducting the programme in a successful manner.

Thanking you.

24-02-2021

Nagapattinam


(V. Yokeshwaran)

ATTESTED

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E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

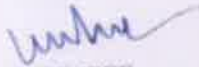
INTERNAL COMMUNICATION

28.02.2021

All the final year students are instructed to attend the value added course on "Electric Vehicle" to be held between 01.03.2021 to 05.03.2021.

Venue: Seminar Hall

Time: 09.30 am - 04.30 pm


HOD/EEE



**E.G.S. PILLAY
ENGINEERING COLLEGE
(AUTONOMOUS)**

Nagapattinam - 611 002

Affiliated to Anna University,
Chennai. Approved by AICTE, New
Delhi

ACCREDITED by NAAC With
GRADE 'A'

Department of Electrical and
Electronics Engineering
(Accredited by NBA)

**VALUE ADDED COURSE
ON
"Introduction to Electric
vehicle"**

Syllabus

- > **Introduction to electric vehicles**
- > **Electric motors**
- > **Power electronics for EVs**
- > **Energy storage systems**
- > **EV battery charging technologies**
- > **Hybrid technologies**
- > **Design implementation**

Course Overview

Resource Person

Mr. S. Rajkumar,

Senior Engineer, R&D

Automotive, Tata Motors

Course Coordinator

Mr. V. V. S. Swarna, EPEE

ABOUT THE INSTITUTION



E. G. S. Pillay Engineering College (Autonomous) is one of the premier non-gram engineering colleges in the State. It was established by the E. G. S. Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1965 with the sanction of the Government of Tamil Nadu, approval of the All India Council for Technical Education, New Delhi and affiliated to Anna University, Chennai. The college has accredited by NAAC with 'A' Grade and all the UG programmes are accredited by NBA. The College has earned the reputation of being one of the most preferred colleges by its students and parents all these years, known for its excellent infrastructure and facilities for learning, the outstanding non-gram engineering college has registered impressive performance records. A primary to success, the college has now set an long-term plan to "enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. A path may be success, the college has set an long-term plan to "enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers.

Vision

Envisioned to transform our institution into a "Global Centre of Academic Excellence"

Mission

- ✓ To provide world class education to the students and to bring out their inherent talents.
- ✓ To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes.
- ✓ To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills.
- ✓ To have regular interaction with the industries in the area of R&D and offer consultancy, training and testing services.
- ✓ To establish centre of excellence in the emerging areas of research.
- ✓ To offer continuing education and non-formal vocational education programmes that are beneficial to the society.

Department Vision

The department is envisioned to produce globally competent electrical and electronics engineering.

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- ✓ To impart the contemporary knowledge in the field of electrical and electronics engineering with high human values.
- ✓ To offer state-of-the-art facilities for conductive learning and conducting research.
- ✓ To train the students for professional career and higher education by imparting self-learning and interpersonal skills.

Phone: 01-4773021 - 05-82-3971

(199c: Diss)

Time: 9:30 am to 4:30 pm

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.**

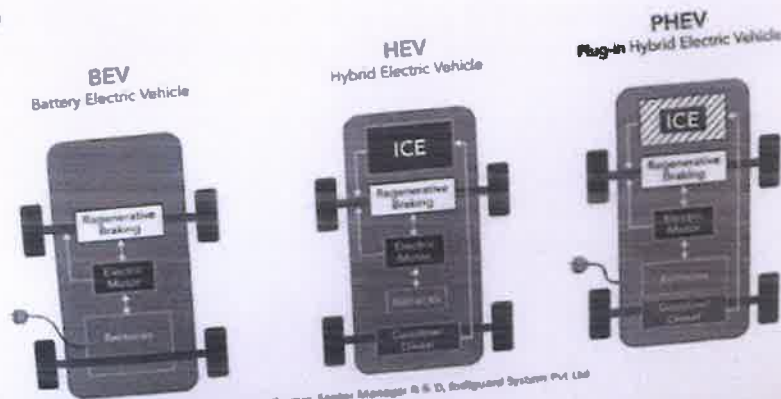
Introduction to Electric vehicle

1. Electric Vehicle (EV) draws electrical energy from the electrical energy storage system (EESS) to generate traction power.
2. About 24.5 % of air pollution is due to IC Engines.
3. HEV use two types of energy storage devices(ESS)
 1. High specific energy (Wh/kg) - Main Energy Storage system (MES) -extended driving range (Eg battery, Fuel cell).
 2. High specific power (W/kg) - Rechargeable Energy Storage System (RESS) - Good acceleration (Eg Ultra Capacitor).

Dr. S. Rajkumar, Senior Manager R & D, Intelligent System Pvt Ltd

Types of EV's

Electric vehicle - Battery electric vehicles (BEV), hybrid electric vehicles (HEV), Plug-in hybrid electric vehicle (PHEV)

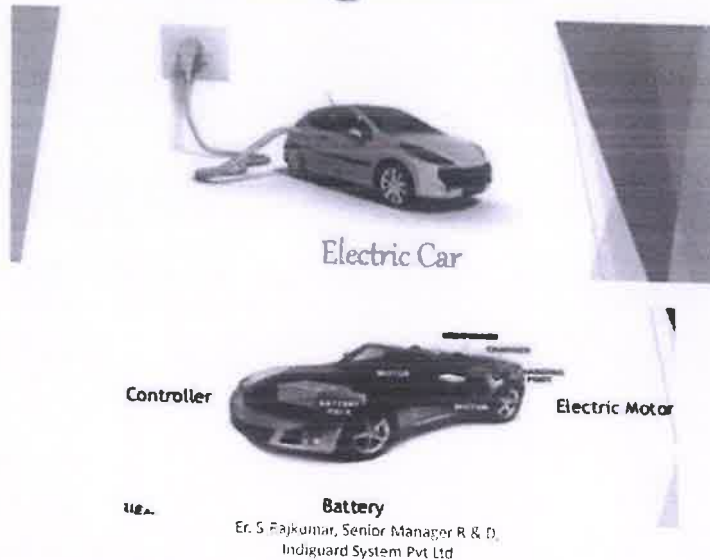


Dr. S. Rajkumar, Senior Manager R & D, Intelligent System Pvt Ltd

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.

Electric vehicles and power management



Introduction to electric vehicle

1. Unlike vehicles with combustion engines, electric vehicles do not produce exhaust gases during operation. This alone makes electric vehicles more environmentally friendly than vehicles with conventional technology.
2. However, the electrical energy for charging the vehicle does have to be produced from renewable sources, e.g. from wind, solar, hydroelectric or biogas power plants.
3. By combining different drive types, the overall efficiency of the vehicle can be improved and fuel consumption can be reduced.

Er. S. Rajkumar, Senior Manager R & D,
Indiguard System Pvt Ltd

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.

31	E18EER033	SRIRAM M	Sriram	Sriram	Sriram
32	E18EER034	SUJITHVARMAN S	Sujith	Sujith	Sujith
33	E18EER035	SURIYAPRAKASH M	Surya	Surya	Surya
34	E18EER036	TAMILSELVAN S	Tamil	Tamil	Tamil
35	E18EER037	VENKATESWARAN S	Venkat	Venkat	Venkat
36	E18EER038	VIGNESH P	Vignesh	Vignesh	Vignesh
37	E18EER039	VIGNESH R	Vignesh	Vignesh	Vignesh
38	E18EER041	VISHNU R	Vishnu	Vishnu	Vishnu
39	E18EEL301	AAKASH D	Aakash	Aakash	Aakash
40	E18EEL302	AJAY M	Ajay	Ajay	Ajay
41	E18EEL303	ANANTHAKUMAR S	Ananth	Ananth	Ananth
42	E18EEL304	ARAVINTHKUMAR K	Aravind	Aravind	Aravind
43	E18EEL305	ASHIQ FARHAD.M	Ashiq	Ashiq	Ashiq
44	E18EEL306	BHARATHIRAJA G	Bharath	Bharath	Bharath
45	E18EEL307	GOPIKRISHNAN P	Gopi	Gopi	Gopi
46	E18EEL308	HARIPRASAD .V	Hariprasad	Hariprasad	Hariprasad
47	E18EEL309	KARAN. K	Karan	Karan	Karan
48	E18EEL310	KARTHIKEYAN R	Karthi	Karthi	Karthi
49	E18EEL311	KARTHIKRAJA .R	Karthi	Karthi	Karthi
50	E18EEL312	MANIVANNAN .K	Mani	Mani	Mani
51	E18EEL313	MANOJ M	Manoj	Manoj	Manoj
52	E18EEL314	MOHAMMED ABBAS C	Mohammed	Mohammed	Mohammed
53	E18EEL315	RAMKUMAR R	Ram	Ram	Ram
54	E18EEL316	SATHISH S	Sathish	Sathish	Sathish
55	E18EEL317	TAMILPOONGULZHALLY I	Tamil	Tamil	Tamil
56	E18EEL318	VIGNESH R	Vignesh	Vignesh	Vignesh
57	E18EEL319	VIKNEISHWARAN S	Viknesh	Viknesh	Viknesh

Course Coordinator

HOD

ATTESTED
 Dr. S. RAMABALAN, M.E., Ph.U.,
 PRINCIPAL
 E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002,
 Nagapattinam (Dt) Tamil Nadu.

E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)
Department of Electrical Electronics & Engineering
Attendance

Sl.No	Register No	Student Name	1/3/2021	2/3/2021	3/3/2021
1	E18EER001	AAKASH M	Uday	Uday	Uday
2	E18EER002	AKASH P	P.Akash	P.Akash	P.Akash
3	E18EER003	AKASHRAJ A	Akashraj	Akashraj	Akashraj
4	E18EER004	AMIRTHAVARSHINI P	Amirtha	Amirtha	Amirtha
5	E18EER005	ARUNKUMAR R	Arunkumar	Arunkumar	Arunkumar
6	E18EER006	BALAGANESH S	S.Balaganesh	S.Balaganesh	S.Balaganesh
7	E18EER007	CHOZHAN M	Chozhan	Chozhan	Chozhan
8	E18EER008	DEEPAK T	Deepak	Deepak	Deepak
9	E18EER009	DHARIK AHAMED S	Dharik	Dharik	Dharik
10	E18EER010	DHEEPAK RAM R	Dheepak	Dheepak	Dheepak
11	E18EER011	IMRAN NAZIR N	Imran	Imran	Imran
12	E18EER012	ISHWARYA P	Ishwarya	Ishwarya	Ishwarya
13	E18EER013	JAGATHEESH R	Jagatheesh	Jagatheesh	Jagatheesh
14	E18EER014	KALAIYARASAN A	Kalaiyaran	Kalaiyaran	Kalaiyaran
15	E18EER015	KALIDOSS K	Kalidoss	Kalidoss	Kalidoss
16	E18EER016	KAMALESH K	Kamalesh	Kamalesh	Kamalesh
17	E18EER017	KEERTHIVASAN B	Keerthivasan	Keerthivasan	Keerthivasan
18	E18EER018	KEVIN CHRISTOPHER A	Kevin	Kevin	Kevin
19	E18EER019	KIRUPAKARAN M	Kirupakaran	Kirupakaran	Kirupakaran
20	E18EER020	KIRUTHIGA S	Kiruthiga	Kiruthiga	Kiruthiga
21	E18EER021	KUMARAVEL M	Kumaravel	Kumaravel	Kumaravel
22	E18EER022	MADESH B	Madesh	Madesh	Madesh
23	E18EER023	MANIKANDAN G	Manikandan	Manikandan	Manikandan
24	E18EER024	MURUGESH KANNAN C	Murugesha	Murugesha	Murugesha
25	E18EER025	MUTHUDHINESH G	Muthudhin	Muthudhin	Muthudhin
26	E18EER026	PREM P	Prem	Prem	Prem
27	E18EER027	PUYALARASAN R	Puyalarasan	Puyalarasan	Puyalarasan
28	E18EER028	REEHAN B	Reehan	Reehan	Reehan
29	E18EER029	SADEESHKUMAR P	Sadeesh	Sadeesh	Sadeesh
30	E18EER032	SHIRAZUDEEN H	Shirazudeen	Shirazudeen	Shirazudeen

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
 E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002,
 Naganathanam (RD) Trichy India

E.G.S PILLAY ENGINEERING COLLEGE (Autonomous)

NAGAPATTINAM - 611002

Accredited by NAAC with 'A' Grade | Accredited by NBA (EEE, MECH, CSE)
Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai

Department of Electrical and Electronics Engineering

Value Added Course

On

Introduction to Electric vehicle

IQAC

This is to certify that Mr. / Ms. **C. MOHAMMED ABBAS**.....
..... has attended Five days Value Added Course on
'Introduction to Electric vehicle' from 1-03-2021 to 5-03-2021 at
E.G.S. Pillay Engineering College, Nagapattinam.

W. S. Srinivasan

CONVENER

ATTESTED

S. Ramabalan

PRINCIPAL

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Thekkai, Nagapattinam - 611 002.

Nagapattinam - 611 002

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Department of Electrical and Electronics Engineering

Value Added Course

IQAC

On

Introduction to Electric vehicle

This is to certify that Mr. / Ms. **R.PHEERAK.BAN**
..... has attended Five days Value Added Course on
"Introduction to Electric vehicle" from 1-03-2021 to 5-03-2021 at
E.G.S. Pillay Engineering College, Nagapattinam.


CONVENER

ATTESTED



Dr S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

E.G.S. Pillay Engineering College,
Nagapattinam - 611002

PRINCIPAL

Faculty: Automobile Engineering

Expenditure	Invoice Address	Particulars	Particulars	CRS 5	Faculty: Automobile Engineering							Faculty	What was spent for?		
					No. of	Total	Value	of	Total	Total	Total			Total	Total

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.
 PRINCIPAL

E.G.S. Pillay Engineering College,
 Thethi, Nagore - 611 002,
 Pattinam (Dt) Tamil Nadu.

(Course Coordinator)

What was least useful?	Any other topics that you would like to add in the one credit course	Are there any ways you think the course could be improved?	Would you recommend this course to colleagues? Yes/No Why?	What other areas/skills would you like to develop/improve in the future related to what?(SUGGEST)	Any other comments?
No	Yes	Yes	Yes it's useful	Yes	No
Time	Electronics subjects	No	Yes because it will help in future	Project	No
All contents	No	No	Yes	Latest technology	No
None	More about charger and battery	Yes	No, I am a student	None	None
No	IC Manufacturing	Related Experiments Modes	Yes	Electrical Vehicles	Good
None	Battery	Improvement	Yes	Yes	No comments
No	Yes	No	Yes	Electrical related courses	No
Electrical-embedded where?	Embedded systems	Practical classes	Yes	Communication skill and network analysis	No
Nothing like that	How to model a ev	The video session of modeling can be involved	Yes. Since ev are the future and its useful to know about it.	lot	No
Yes	Detailed about BMS	Yes if doing more projects regardingly	Yes	About the battery	No
Nothing	No	No	Yes	Marketing	No
Very useful	No	No	Yes	No	No comments
yes	electric vehicles	yes	yes	yes	no
Electric vehicles	very useful	Yes	Yes	Yes	No
No	yes sir	I m improved	yes	skill	no
Not	Real Time example not worth	Pls add some real examples disassembly	Yes they want to know their field knowledge how they are going to use their knowledge so it is very useful	Add some software skills	This course is so useful
yes	yes	I m improved	yes	skill	no

ATTESTED


Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thefti, Nagore - 611 002,
Nagasthinam (Dt) Tamil Nadu.


(COURSE COORDINATOR)

E.G.S.Pillay Engineering College (Autonomous)

Nagapattinam

Department of Electrical and Electronics Engineering

Date : 05.03.2021

A Report of Value added Course on Electrical Vehicle for III Year EEE

Value added course on recent technologies was planned to conduct for the third year students. After much deliberation amongst the BoS Chairman/HoD and the value added courses coordinator along with class coordinator, it was decided to conduct Value added Course on Electrical Vehicle.

The class coordinator of III year EEE suggested the dates for the training program as 01st march to 03rd march 2021. He also appointed a course representative from the third year students, P.Amirthavarshini / III EEE.

The permission for the above mentioned program was received earlier by the value added courses coordinator from the HoD and Secretary of EGSPEC.

Since the regulations of EGSPEC allow the students to do value added courses on recent trends and employability, this course was opted which will provide more opportunities to get jobs in the field of Electrical Vehicle.

Students were actively engaged and participated in the Electrical Vehicle program. Every day activities were given to the students and the outputs shown by them showed their enthusiasm in acquiring new skills.

Based on the regulations of EGSPEC — R2017, three tests were conducted, First test was conducted on 02.03.2021 for 25 marks. Second test was conducted for 25 marks and the final test was conducted for 50 marks on 03.03.2021. All these tests were conducted with MCQ type of questions. The answers of students were evaluated and calculated the total marks of this training program.

This report was prepared by P.Amirthavarshini / III EEE.

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002,
Nagapattinam (Dt) Tamil Nadu.

E.G.S. PILLAY

ENGINEERING COLLEGE

(AUTONOMOUS)

Nagapattinam – 611 002

Affiliated to Anna University,

Chennai| Approved by AICTE, New

Delhi

ACCREDITED by NAAC With

GRADE 'A'

Department of Electrical and

Electronics Engineering

(Accredited by NBA)

VALUE ADDED COURSE

ON

**“DESIGN OF ELECTRIC
VEHICLES”**

Syllabus

- Introduction to electric vehicles
- Motor specifications
- Power electronics for electric vehicles
 - Energy storage systems
- Electric vehicle battery charging technologies

Course Overview

!

Resource Person

Mr.S.Rajkumar,

Senior Manager ,R&D

Indiguard system Pvt Ltd,

Thanjavur

Course Coordinator

Mr.K.Nandakumar,AP/EEE

ABOUT THE INSTITUTION



E. G. S. Pillay Engineering College (Autonomous) is one of the pioneering non-grant engineering Colleges in the State. It was established by the G. S. Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamil Nadu, approval of the All-India Council for Technical Education, New Delhi and affiliated to Anna University, Chennai. The college has accredited by NAAC with 'A' Grade and all the UG programmes are accredited by NBA. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non-grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers.

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- ✓ To train the students for professional career and higher education by imparting self-learning and interpersonal skills.

Date: 19-04-2021 to 23-04-2021

(Five Days)

Time: 9.30 am to 4.30 pm

E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering

15-04-2021

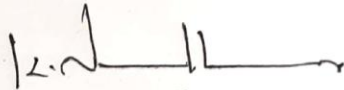
Internal circular

Value added course

All the post graduate III Semester students are hereby informed to attend the value added course on **“DESIGN OF ELECTRIC VEHICLES”** going to held between **19-04-2021 to 23-04-2021.**

Venue: Simulation laboratory

Time: 09.30 am -04.30 pm



Course coordinator



HOD/EEE

(Copy to: M.E II year class room)

E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering

List of the students registered for the

Value added course

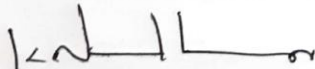
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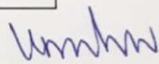
“DESIGN OF ELECTRIC VEHICLES”

Date: 19-04-2021- 23-04-2021

Batch :2019-2021

S.No	Name of the student	Register number
1.	DINESH KUMAR R	E19PEF001
2.	ISWARYA LAKSHMI S	E19PEF002
3.	LAKSHMI R	E19PEF004
4.	PITCHAI MUTHU M	E19PEF005
5.	RATHAKRISHNAN T	E19PEF007
6.	THIRUVATHIRAI KANNAN	E19PEF008


Course coordinator



HOD/EEE

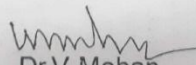



Certificate

The Consultancy Services Division of E.G.S. Pillay Engineering College (Autonomous), Certifies that *Mr/Ms...LAKSHAJ.B...* has been awarded this certificate for the successful completion of Value added course on "DESIGN OF ELECTRIC VEHICLES" from 19-04-2021 to 23-04-2021 organized by the Department of Electrical and Electronics Engineering, E.G.S.Pillay Engineering College.

Certificate No: EGSPCS/2021/EEE/TRG/01/004 Issue
Date: 26/04


Dr. T. Sureshpadmanabhan
Department co-ordinator


Dr. V. Mohan
HOD/EEE


Prof. M. Vijayakumar
Director Consultancy Services

EGSP
Consultancy Services
Training/Design/Consultancy

EGSPCS

Phone: 04365 251112
Web : www.egspec.org
Email : consultancy@egspec.org



Certificate

The Consultancy Services Division of E.G.S. Pillay Engineering College (Autonomous), Certifies that Mr/Ms.....*RATHA KRISHNAN T.*.....has been awarded this certificate for the successful completion of Value added course on "DESIGN OF ELECTRIC VEHICLES" from 19-04-2021 to 23-04-2021 organized by the Department of Electrical and Electronics Engineering, E.G.S.Pillay Engineering College.

Certificate No: EGSPCS/2021VEEE/TRG/01/001 Issue
Date: *26/04*

OSP
Dr.T.Sureshpadmanabhan
Department co-ordinator

Wm Mohan
Dr.V.Mohan
HOD/EEE

M. Vijayakumar
Prof.M.Vijayakumar
Director Consultancy Services

E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering

Value added course

On

"DESIGN OF ELECTRIC VEHICLES"

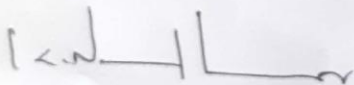
Date: 19-04-2021- 23-04-2021

Academic Year: 2020-21

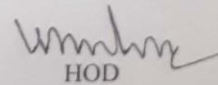
Batch: 2019 -21

COURSE ATTENDENCE

S.No	Name of the student	Register number	19/4	20/4	21/4	22/4	23/4
1.	DINESH KUMAR R	E19PEF001	pr	pr	pr	pr	A
2.	ISWARYA LAKSHMI S	E19PEF002	pr	pr	A	I	pr
3.	LAKSHMI R	E19PEF004	pr	pr	pr	pr	pr
4.	PITCHAI MUTHU M	E19PEF005	pr	pr	pr	pr	pr
5.	RATHAKRISHNAN T	E19PEF007	pr	pr	pr	A	pr
6.	THIRUVATHIRAI KANNAN	E19PEF008	pr	pr	pr	pr	pr



Course coordinator



HOD

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE ON
"DESIGN OF ELECTRIC VEHICLES"
FEEDBACK FORM

DATE: 23-04-2021

Give your feedback in 1 to 5 scale 1. Very poor 2. Poor 3. Good 4. Very good 5. Excellent

1. How much the Course is useful for you?

5	4	3	2	1
---	---	---	---	---

2. Course Content

5	4	3	2	1
---	---	---	---	---

3. Interaction with students

5	4	3	2	1
---	---	---	---	---

4. Content Delivery method

5	4	3	2	1
---	---	---	---	---

5. Whether all your queries are answered

5	4	3	2	1
---	---	---	---	---

6. How the difficult points are handled

5	4	3	2	1
---	---	---	---	---

Any other points

.....
.....

Ishwarya
Signature of the student