

#### **CIRCULAR**

Ref No:22-23/Even/EEC/05

Date:20.4.2023

The Department of Mechanical Engineering is organising a Employability Enhancement Course on SOLAR ENERGY, ALTERNATIVE FUELS AND WIND ENERGY from 27.4.2023 TO 3.5.2023. All the final year Mechanical students are requested to register and participate for the course.

The invitation is herewith attached.



HOD

Circulated to:	1. All the faculty members
	2. All the students
Copy to	1. Principal Office
	2. Department Notice Board



# **DEPARTMENT OF MECHANICAL ENGINEERING**

# Cordially invites you all for

EMPLOYABILITY ENHANCEMENT COURSE

ON

SOLAR ENERGY, ALTERNATIVE FUELS AND WIND ENERGY

DATE & TIME: 27.4.2023 TO 3.5.2023 9.00am

**Resource Persons** 

Mr.K.Vinoth, Technical Officer, CVRDE, Avadi, Chennai

Dr.J.M.Babu Prof/Mech

Veltech Dr.Sagunthala R&d Institute of Science and technology

Dr.M.Rajesh Prof/Mech

Hindustan Institute of technology&Science

**Presidential Address** 

Dr.G.Selvakumar

Principal

Welcome Address

Dr.M.Prabhahar Professor&HOD-MECHANICAL

Coordinator Mr.R.Mahesh, AP/ MECH/AVIT



# **DEPARTMENT OF MECHANICAL ENGINEERING**

# BROCHURE



### AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

#### Ref: 22-23/Even/EEC/05

Date: 05.05.2023

From

Mr.R.Mahesh Assistant Professor Gr II Mechanical Engineering Aarupadai Veedu Institute of Technology Paiyanoor-603 104

То

The Principal, Aarupadai Veedu Institute of Technology Paiyanoor-603 104

Respected Sir,

Sub: Submission of Mechanical Engineering Department Event-Report- Reg.

The Department of Mechanical Engineering has organized an Employability Enhancement

Course on solar energy, alternative fuels and wind energy from.

27.4.2023 to 03.05.2023. The report of the programme is herewith attached for your kind perusal.

Thanking you,

With regards,

**Event Coordinator** 

HOD



## DEPARTMENT OF MECHANICAL ENGINEERING Association with ENERGY AND FUEL USERS'ASSOCIATION (ENFUSE) Organizes

# Employability Enhancement Skill Development Course on "SOLAR ENERGY, ALTERNATIVE FUELS AND WIND ENERGY" (From 27.4.2023 TO 03.5.2023-30 Hours)

The Department of Mechanical Engineering in association with Energy and Fuel users' Association & Institution's Innovation Council (IIC)organised a five day's **Employability Enhancement Skill Development Course** on "SOLAR ENERGY, ALTERNATIVE FUELS AND WIND ENERGY " From 27.4.2023 TO 03.05.2023 –(30 Hours). The program was inaugurated by **Dr.M.Prabhahar**, HOD / Mech. Totally 10 sessions were conducted for five days with various resource persons. Around 68 Mechanical Engineering students have participated.

The students had an interaction with the experts and the following topics were discussed.

# SESSION 1: NON CONVENTIONAL ENERGY SOURCES 27.4.23 (9 AM to 12 PM)

The First session on **NON CONVENTIONAL ENERGY SOURCES** was conducted by **Dr.M.RAJESH** Prof/Mech Hindustan Institute of technology and science He has shared his awesome speech on

- Non-Conventional Energy sources sources that are continuously replenished by natural processes like solar energy, wind energy, bio-energy bio-fuels grown sustain ably), hydropower etc.,
- Tidal Energy Power produced by the surge of ocean waters during the rise and fall of tides.
- Geothermal Energy- Heat is continuously produced inside the earth which can be used for electricity production.
- Hydel Energy The use of falling or fast-running water to produce electricity or to power machine.
- Open and closed systems of OTEC The process that can produce electricity by using the temperature difference between deep cold ocean water and warm tropical surface waters.



# SESSION 2: VCR ENGINE 27.4.23(1 PM to 3.30 PM)

The Second session on Variable compression ratio engine testing was conducted by **Mr.B.SAMUVEL MICHEAL**, AP/MECH/AVIT

He has shared his fine presentation on

- The VCR engine operating on liquid fuels and dual-fuel mode,
- Different compression ratios

- Combinations with different blends
- Various Nozzles usage in VCR engine
- Multi-fuel capability, Increasing of fuel economy and reduction of emissions
- Gas Analysers



# SESSION 3: ENERGY AUDITING 28.4.23(9 AM to 12 PM)

The Eighth session on Energy Auditing was conducted by **Mr.K.VINOTH** Technical Officer, CVRDE AVADI,Chennai.

He has shared his outstanding speech on

- Energy audit An inspection survey and an analysis of energy flows for energy conservation in a building.
- Purpose of Energy Auditing- To determine whether your home wastes energy, and to pinpoint where energy is being lost so you can evaluate what measures you can take to make your home more energy efficient.
- Methods and Instruments of Energy Auditing- Like Flue Gas Analysers, Temperature Indicators, Infrared Thermometers, Thermal Insulation scanner, Steam Trap Monitor Energy consumables
- Utilization of Energy in Industries Energy is used in the industrial sector for a wide range of purposes, such as process and assembly, steam and cogeneration, process heating and cooling, and lighting, heating, and air conditioning for buildings

Employment opportunities in Energy Auditing – Job such as assisting in

identifying energy efficiency projects, their estimated cost, estimated energy savings, and estimated return on investment for clients.



#### SESSION 4: BIO FUELS 28.4.23 (1 PM to 3.30PM)

The fourth session on Bio fuels was conducted by **Dr.J.M.BABU**,Prof/Mech Veltech Rangarajan Dr,Sagunthala R&D Institute of science and technology.He has shared his magnificent proficiency on

- Biodiesel production and Ethanol production
- Transesterification and Esterification methods of biodiesel production
- Biogas production from vegetables and animal fats
- Biodiesel production from sugarcane Bagasse and wood waste
- Biogas production from KVIC digester



# SESSION 5: SOLAR ENERGY 29.4.23 (9 AM to 12PM)

The Fifth session on Solar Energy was conducted by Mr.P.KUMARAN AP/MECH/AVIT

- Energy production from solar How Solar radiation is converted directly into electricity by solar cells.
- Methods of energy production from Solar The two main methods: photovoltaic cells and solar thermal collectors.
- CSP System How plants use mirrors to concentrate the sun's energy to drive traditional steam turbines or engines that create electricity.
- Solar Collectors How the Flat plate collectors and Concentrator collectors works
- Energy storage systems The capture of energy produced at one time for use at a later time to reduce imbalances between energy demand and energy production.
- Solar power plant The type of facility that converts sunlight either directly, like photovoltaics, or indirectly, like solar thermal plants, into electricity



## SESSION 6: INDUSTRIAL SAFETY 29.4.23 (1PM to 3.30PM)

The sixth session on Industrial safety was conducted by **Dr.S.PRAKASH** AP/Mech/AVIT.

He has shared his spectacular articulation on

- Safety management practices that apply to the industrial sector
- To protect industrial workers, machinery, facilities, structures, and the environment.
- General safety, Material safety, Fire safety, Electrical safety, Building and Electrical safety and Environmental safety
- The Importance of Industrial Safety
- Industrial safety planning-Plant layout, Fire prevention systems, Health and hygiene, Safety training, Alarms and warning systems



# SESSION 7: ALTERNATIVE FUELS 2.5.23 (9 AM to 11.30AM)

The Seventh session on **ALTERNATIVE FUELS** was conducted by **Mr.G.ANTONY CASMIR JAYASEELAN** AP/Mech AVIT.

He has shared his spectacular articulation on

- Biodiesel production- the process of producing the biofuel, biodiesel, through the chemical reactions of Transesterification and Esterification.
- Ethanol preparation- The steps in the ethanol production process include milling, Liquefaction, Saccharification, Fermentation Distillation and Dehydration
- Methodology for biodiesel Various biodiesel production methods have been introduced, such as direct use and blending, microemulsion, transesterification, and pyrolysis.
- Energy production from Waste- Waste-to-energy plants burn municipal solid waste (MSW), often called garbage or trash, to produce steam in a boiler that is used to generate electricity.
- Usage of Ethanol in I.C.Engines- Pros and cons of ethanol usage.



### SESSION 8: WIND ENERGY 2.5.23 (12PM to 2.30 PM)

The third session on Wind energy was conducted by **Mr.A.ELANTHIRAIYAN** AP/MECH/AVIT. He has shared his magnificent speech on

- Production of Wind Energy Wind turbines use blades to collect the wind's kinetic energy. The blades are connected to a drive shaft that turns an electric generator, which produces (generates) electricity.
- Design parameters The turbine performance has been varying with the design parameters such as, pitch angle, number of blades, airfoil type, turbine radius and its chord length.
- Availability If the turbine is "available" and grid-connected, and the wind and other conditions are within the turbine specification, then power will be generated.
- Types of axis in wind turbines Horizontal-Axis Turbines and Vertical-Axis Turbines
- Employment opportunities in Wind Energy system The partial list of the **types** of engineers employed in the **wind** power industry: aerospace engineers, civil engineers, computer engineers, electrical engineers, environmental engineers, health and safety engineers, industrial engineers, materials engineers, and mechanical engineers.



## SESSION 9: ON BOARD DIAGNOSTICS (9 AM to 12 PM)

The Second session on Bosch lab was conducted by

### Dr.M.SARAVANA KUMAR, AP/Mech, AVIT.

He has shared his outstanding presentation on

- The present engineering industries are rapidly moving to adopt Industry 4.0 approach.
- The Automation in present engineering practices
- Vehicle air-conditioning systems
- Engine diagnostics
- Auto electrical test bench
- Industrial Sensors
- Industrial Mechatronics and Robotics



#### SESSION 10: BIOMASS (1 PM to 2.30 PM)

The sixth session on Biomass was conducted by **Mr.R.MAHESH** AP/Mech AVIT. He has shared his outstanding presentation on

- Biomass Plant or animal material used as fuel to produce electricity or heat.
- Biomass collection Biomass is collected from waste of Grasses, agricultural crops (such as corn and sugar cane), landfill waste, and manure.
- Energy production from waste- There are number of ways of generating energy from waste. These include combustion, gasification, Pyrolysis, anaerobic digestion and landfill gas recovery.
- Opportunities in waste technology- The prospects of Waste Management in our country have reached its highest level today and the field is considered to be a great career option.,
- Biogas preparation from Animal waste, Food waste .wood waste etc The method of using anaerobic digestion of organic waste (food waste and animal manure) to produce biogas as an alternative process to reduce food waste and generate energy.



### End of the session:

Online test was conducted at the end of tenth session. Feedback regarding the sessions was collected from the students Course completion certificates was issued to the students

### **ONLINE TEST**



## FEEDBACK FROM STUDENTS



## **CERTIFICATE DISTRIBUTION**



#### **Outcome:**

The programme was conducted on the employability enhancement for Mechanical students. The students gained knowledge in Production of energy, Utilisation of energy, Estimation and Cost return investment on Energy Auditing, Bio-fuels, Wind Energy, Solar systems, and various renewable resources. They received information on various job opportunities in Wind power industry, Aerospace areas, Environmental, Health areas, solar power plants and Energy production Industries. They were provided adequate details on self employment in the same field.

The Employability Enhancement Course was conducted by Mr.R.Mahesh,AP/Mech,AVIT.



# DEPARTMENT OF MECHANICAL ENGINEERING Employability Enhancement Course on "SOLAR ENERGY, ALTERNATIVE FUELS AND WIND ENERGY" (From 27.4.2023 TO 03.5.2023-30 Hours) PARTICIPANTS NAME LIST

## DEPARTMENT OF MECHANICAL ENGINEERING NAME LIST IV YEAR MECHANICAL

SN	NAME OF THE STUDENT	<b>REGISTER NUMBER</b>
1	ANEES	3441873502
2	ABHAY VERMA	3441910501
3	ABHINANDH LAL	3441910502
4	AJAY KUMAR	3441910503
5	AMIT KUMAR	3441910505
6	ASHISH KUMAR	3441910506
7	ASTLIN SAM S	3441910509
8	BRAJESH KUMAR	3441910511
9	BRAJESH KUMAR	3441910512
10	DEVARJUN V S	3441910513
11	GOBIND MAURYA	3441910515
12	IRSHAD ANSARI	3441910517
13	MANGAMPATLA PAVAN	3441910520
14	MANISH KUMAR	3441910521
15	MD ABDULLAH KHAN	3441910522
16	MD JAFAR ALAM	3441910523
17	MOHAMED RASHID A	3441910524
18	NADEEM ALAM	3441910525
19	NAUSHAD ALAM	3441910526
20	NIRANJAN KUMAR	3441910527
21	RAHUL KUMAR	3441910529
22	RAHUL KUMAR	3441910530
23	RAKESH KUMAR	3441910532
24	RANJIT TIWARY	3441910533
25	SANJEEV KUMAR	3441910536
26	SHAIK RIYAZ	3441910539
27	VIKASH KUMAR SINGH	3441910543
28	NITHISH S	3442020502
29	RAKESH M	3442020503
30	UDHAYAKUMAR J	3442020504
31	YOGESHWARAN D	3442020505
32	DEEPAK P V	3442054501

33	AMAL S	3442155501
34	DIAZ K BIJU	3442155502
35	JITHIN Y OOMMEN	3442155503
36	AMAL SANTHOSH	3442156501
37	ANANDHU K RAGHUNATHAN	3442156502
38	ARJUN GIRISH	3442156503
39	AROMAL K S	3442156504
40	JERIN MATHEW THOMAS	3442156505
41	JISHNU RAJU	3442156506
42	MELWIN P EBIN	3442156507
43	MIDHUN SHAJI	3442156508
44	RIBO JOHN ABRAHAM	3442156509
45	ADAM JOSEPH CHIYEZHAN	3442257501
46	ADARSH R S	3442257502
47	AKHIL CHANDRAN	3442257503
48	AKSHAY PRADEEP	3442257504
49	AMALJITH BIJU	3442257505
50	ASHISH SEBASTIAN	3442257506
51	ASHISH VARGHESE	3442257507
52	ASWANTH S P	3442257508
53	ATHUL JOHNSON	3442257509
54	DHEERAJ S	3442257510
55	HISHAM KARIM	3442257511
56	JACOB ALEXANDER PHILIP	3442257512
57	MOHAMMAD NAMEER	3442257513
58	MUHAMMAD SALIH K	3442257514
59	MUHAMMED P	3442257515
60	NUKA NAGA PRASADA REDDY	3442257516
61	PRATHYUSH PREMARAJAN	3442257517
62	SAJAD S	3442257518
63	SAURAG R	3442257519
64	SHAIQUE FAREEDH BABU	3442257520
65	SIDHARTH K R	3442257521
66	SURYAPRAKASH T	3442257522
67	VENKATESHAN G	3442257523
68	YADHUKRISHNA SURESH	3442257524

# FEEDBACK

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17	2023/05/03 1:35:56	adamjoser	Adam joseph	3442257501	IV YEAR	Mechanical	5	5	5	5	5	5	5	5	5	5	5
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# **ONLINE TEST**

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14 2023/05/03 1:3 yogeshwar25.00 / 25 D yogeshwaran	3442020505	IV Year	Mechanica	d (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	fti 1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
15 2023/05/03 1:3 astlinsam@24.00 / 25 Astlin sam	3441910509	IV Year	Mechanica	I (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft+1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
16 2023/05/03 1:3 midhunshe 24.00 / 25 midhunshaji510@gmail.com	3442156508	IV Year	Mechanica	d (D) all of th 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft+1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	_
17 2023/05/03 1:3 aromalks6 24.00 / 25 AROMAL KS	3442156504	IV Year	Mechanica	(D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft=1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	_
18 2023/05/03 1:3 manishkdiį 25.00 / 25 Manish Kumar	3441910521	IV Year	Mechanica	il (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft 1.00/1	(A) ethano 1.00/1	1 (B) transes	1,00/1	(B) electric 1.00 / 1	
19 2023/05/03 1:3 mdjafarale 25.00 / 25 MD JAFAR ALAM	3441910523	IV Year	Mechanica	I (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft+1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
20 2023/05/03 1:3 melwin938 24.00 / 25 Melwin P Ebin	3442156507	IV Year	Mechanica	il (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	fti 1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
21 2023/05/03 1:3 dheerajsaj 21.00 / 25 Dheeraj S	3442257510	IV Year	Mechanica	d (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	fti1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
22 2023/05/03 1:3 amalspl10 23.00 / 25 Amal Santhosh	3442156501	IV Year	Mechanica	l (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
23 2023/05/03 1:3 jishnuraju2 23.00 / 25 Jishnu raju	3442156506	IV Year	Mechanica	il (D) all of ti 1.00	/1 (A) Iceland	1.00 / 1 (B) trans	apc 0.00 / 1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
24 2023/05/03 1:3 nbojohn44 23.00 / 25 Ribo John Abraham	3442156509	IV Year	Mechanica	il (D) all of ti 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	fti1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
25 2023/05/03 1:3 arjungirish 24.00 / 25 ARJUN GIRISH	3442156503	IV Year	Mechanica	d (D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft#1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
26 2023/05/03 1:3 panipavan 25.00 / 25 Mangampatla pavan	3441910520	IV Year	Mechanica	il (D) all of th 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	fti 1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
27 2023/05/03 1:3 amalgth95 21.00 / 25 Amaljith biju	3442257505	IV Year	Mechanica	d (D) all of th 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft  1.00 / 1	(A) ethano 1.00 / 1	1 (D) none o	0.00/1	(C) mechai 0.00 / 1	
28 2023/05/03 1:3 adamjoser 20.00 / 25 ADAM JOSEPH CHIYEZHAN	3442257501	IV Year	Mechanica	il (D) all of ti 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft 1.00/1	(A) ethano 1.00 / 1	1 (D) none o	0.00/1	(C) mechai 0.00 / 1	
29 2023/05/03 1:3 jerinmathe 20.00 / 25 Jerin Mathew Thomas	3442156505	IV Year	Mechanica	(D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft 1,00/1	(A) ethano 1.00 / 1	1 (D) none o	0.00/1	(C) mechar 0.00 / 1	
30 2023/05/03 1:3 rsadarsh56 22.00 / 25 ADARSH RS	3442257502	IV Year	Mechanica	I (D) all of th 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	fti 1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
31 2023/05/03 1:3 anandhuk123.00 / 25 Anandhu K Raghunathan	3442156502	IV Year	Mechanica	(D) all of the 1.00	/1 (A) Iceland	1.00 / 1 (D) all o	ft 1.00/1	(A) ethano 1.00 / 1	1 (B) transes	1.00/1	(B) electric 1.00 / 1	
32 2023/05/03 1-3 neathweaks 23 00 / 25 DRATHVLISH DREMARAIAN	3442957517	IV Year	Mechanica	/D) all of this 00	/ 1 (A) Iceland	1 00 / 1 /D) all o	EH1.00/1	(A) ethano 1.00 / 1	(R) transes	1 00 / 1	(R) electric 1 (0) / 1	
Raady						C.M.					100% (-)	1 ÷