



TECHNICAL REPORT

One-Week Faculty Development Programme on “Modelling & Simulation of Renewable Energy Systems” April 25 – 29, 2023



Department of Mechanical Engineering
**Swami Keshvanand Institute of Technology,
Management and Gramothan**

Table of Content

Table of Content	1
Approval letter of the Event.....	2
Event Brochure	3
Schedule of the Event	4
List of Invited Guest/Speakers.....	5
List of registered participants.....	6
Photographs of event.....	14
Copy of E-certificates	28
Feedback report.....	29
Media Coverage.....	31
Day Wise detailed report	32
Objectives and Outcomes	35
Utilization report.....	36

Approval letter of the Event



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



DEPARTMENT OF MECHANICAL ENGINEERING
Plan & Details of Events to be Organized in Session:2022-23

S. No.	Type of Event	Title of Event	Mode of Conduction	Proposed Date	Name of Coordinator	Any Collaboration	Budget Required
1	Student Workshop	Student Workshop on applications of SCI LAB	Online	October 3-7, 2022	Dr. Manu Augustine Mr. Arun Beniwal	Spoken Tutorial, IIT Bombay ASME Student Section SKIT	1000
2	Student Workshop	Analysis of Engineering Systems using Croo	Physical	November 7-9, 2022	Dr. Prem Singh Mr. Sudesh Garg Md. Suhail Ansari		20000
3	Student Workshop	Project based Training on "Arduino, Raspberry Pi and their Application"	Physical	January 4-6, 2023	Brijmohan Sharma Sudesh Garg	Robotics Club, SKIT	12000
4	Student Workshop	Development and Characterization of Materials	Physical	January 16-18, 2023	Dr. Vikash Gautam Ms. Namita Soni		10,000
5	Student Workshop	Workshop on HVAC - Heating, Ventilation & Air Conditioning	Online	January 23-25, 2023	Mr. Amit Bansal Mr. Vinay Singh Marwal		40000
6	Student Workshop	Student Workshop on Data Analytics	Online	March 14-18, 2023	Dr. Achin Srivastav Dr. Deepak Kumar	-	30,000
7	Expert Lecture Series	Expert Lectures Series	Physical	Sep 2022 to June 2023	Mr. Dinesh Kumar Sharma		20000



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



DEPARTMENT OF MECHANICAL ENGINEERING
Plan & Details of Events to be Organized in Session:2022-23

S. No.	Type of Event	Title of Event	Mode of Conduction	Proposed Date	Name of Coordinator	Any Collaboration	Budget Required
8	FDP	Advanced Optimization Techniques	Online	January 9-13, 2023	Dr. Prem Singh Mr. Sudesh Garg		35000
9	FDP	Ansys software and its applications	Online	February 14-18, 2023	Dr. Manu Augustine Mr. Arun Beniwal Mr. Naveen Kumar Saini		30,000
10	FDP	Energy simulation tools for renewable energy systems	Online	March 21-25, 2023	Dr. Chandan Kumar Mr. Dinesh Kumar Sharma Mr. Ankit Agarwal	IGBC, ASHRAE Rajasthan Chapter	30000
11	Non-Teaching Staff Workshop	Hands on training on 3-D printing for Non Teaching Staff	Physical	October 10-14, 2022	Prof. Dheeraj Joshi Mr. Praveen Saraswat	e Yantra	5000
12	International Conference	Smart Industries and Manufacturing Systems for Sustainable Development (SIMS 2022)	Online	November 11-12, 2022	Prof. Dheeraj Joshi Dr. Manoj Kumar Saini Mr. Praveen Saraswat	Evergreen Journal	30000
13	International Conference	ICONRER 2023	Physical	May 18-20, 2023	Prof. Ashish Nayyar	Universiti of Malaysia, Pahang and Assiut University, Egypt	300000

Prof. Dheeraj Joshi
Head, Mech. Eng. Deptt

Copy to: Principal
Dean
DFA

1. Proposed budget exceeds by sanctioned amount under this head
2. Therefore, events may be adjusted to according to sanctioned budget.
Approved Conditionally as above
M. Keshy.
28.9.22

Approved
Be
18/10/2022

Event Brochure

PATRON

Shri Raja Ram Meel, Patron, SKIT
Shri Surja Ram Meel, Chairman, SKIT

ADVISORS

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Mrs. Rachna Meel, Registrar
Prof. (Dr.) Ramesh Kumar Pachar, Principal
Prof. (Dr.) R. K. Jain, Dean
Prof. (Dr.) Dheeraj Joshi, HOD (ME)
Prof. (Dr.) Ashish Nayyar, ME

COORDINATOR

Dr. Chandan Kumar, Associate Professor
Mr. Dinesh Kumar Sharma, Assistant Professor
Mr. Ankit Agarwal, Associate Professor

ORGANIZING COMMITTEE

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Dr. Amit Jhalani, Assistant Professor
Mr. Brij Mohan Sharma, Assistant Professor
Mr. Naveen Kumar Sain, Assistant Professor
Ms. Monika Khurana, Assistant Professor
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REGISTRATION FORM

To join this FDP, you are requested to register your name by clicking the following registration link / QR code:

<https://forms.gle/g4ZcEVvZWaK4dv4X6>



Note:

- ✓ The FDP will be conducted through hybrid mode.
- ✓ The registration for the FDP is on first come first serve basis.
- ✓ During registration, please join the WhatsApp group to receive FDP related information instantly.
- ✓ E-Certificate will be provided to the participants who will attend 80% of the session and submit assignments including feedback of FDP.
- ✓ Kindly join the FDP with same email id which is provided during registration.

One-Week International

Faculty Development Program

On

“Modelling & Simulation of Renewable Energy Systems”

(Hybrid Mode)

April 25 – 29, 2023



ORGANIZED BY



Department of Mechanical Engineering
Swami Keshvanand Institute of Technology,
Management & Gramothan, Ramnagar,
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Web: www.skit.ac.in

ABOUT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no.1 engineering institute in Rajasthan by RTU, Kota consecutively for the last five years. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programs in Engineering and Management. The institute is accredited by NAAC with A++ grade in its first cycle. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching learning methods, state of the art infrastructures and core value of discipline. The various undergraduate programs of the institute are accredited by the National Board of Accreditation (NBA).

DEPARTMENT OF MECHANICAL ENGINEERING

The department started academic activities in the year 2003-04 with the admission of its first batch of undergraduates. The Department offers B. Tech. in Mechanical Engineering, M. Tech. in Renewable Energy Technology and Ph.D research. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia. Consistent pursuit of excellence by the department is clearly reflected in

the fact that the department has been accredited by National Board of Accreditation (NBA) (India).

OUTCOMES OF THE FDP

After attending this FDP, an attendee will be able to:

- Get acquainted with various simulation tools and techniques used for modelling and simulation of renewable energy systems.
- Develop models and simulations for renewable energy systems, and to analyze their performance and efficiency.
- Improve teaching strategies and methodologies for incorporating modelling and simulation of renewable energy systems into the curriculum.
- Enhance research productivity in the area of renewable energy systems modelling and simulation, resulting in publications and presentations at conferences and other academic forums.
- Promote industry and government initiatives related to renewable energy systems through consulting, research collaborations, and policy advocacy.

RESOURCE PERSON

The various sessions of this FDP will be taken by renowned experts from various institutions of National and International repute including IITs and NITs.

CONTENTS OF THE FDP

- Role of Modelling and Simulation Software in the Design and Optimization of Renewable Energy Systems
- System Advisory Model Software
- TRNSYS Software
- e-Quest Software
- COMSOL Multiphysics Software
- ANSYS Fluent Software
- PVSyst Software
- Diesel RK Software
- Design Builder Software
- HOMER Software
- POLYSUN Software

FDP SCHEDULE

Day 1 to Day 5 (April 25 - 29, 2023)	12:00 PM - 01:30 PM	Session I
	02:00 PM - 03:30 PM	Session II

REGISTRATION FEE

There is no registration fee.

TARGETED AUDIENCE

This FDP will be very helpful for PG students, research scholars, faculty members and research scientists who are working in the area of renewable energy systems, its design and simulation.

Schedule of the Event



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Faculty Development Program on

“Modelling and Simulation of Renewable Energy Systems” (MASRES-2023)

(April 25 – 29, 2023)



Schedule of the Program

Day/Date	Session – I 12.00 PM - 01.30 PM	Session – II 02.00 PM - 03.30 PM
Tuesday 25.04.2023	Inaugural Session (11.30 AM-12.00 PM) https://shorturl.at/cnyRT	TRNSYS Modelling of Residential and Commercial Heat Pump Water Heaters and Solar Water heaters Dr. Alastair McDowell, Energy Analysis and Engineering, Australia Link: https://shorturl.at/cnyRT
Wednesday 26.04.2023	Present Status and Way Forward for ECBC Compliances in Rajasthan (Design Builder) Dr. Hari Singh, Design2Occupancy Services, PAT Cell, RRECL, Jaipur Link: https://shorturl.at/ay089	Modelling and Simulation with POLYSUN software Mr. Tushar Sharma, Vela Solaris AG, Switzerland Link: https://shorturl.at/ay089
Thursday 27.04.2023	Solar Energy Harvesting using Pyroelectric Material (COMSOL Multiphysics) Dr. S. N. Patel, IIT, Indore Link: https://shorturl.at/wAORY	Basics of Computational Fluid Dynamics using ANSYS Dr. Manish Dadhich, Maxbrain Technologies, Jaipur Link: https://shorturl.at/wAORY
Friday 28.04.2023	Modelling and Simulation of Wind Turbine using ANSYS and FORTRAN Dr. B. Tripathi, RTU, Kota Link: https://shorturl.at/bnyG3	Modelling and Simulation with System Advisory Model Software Mr. Dinesh Kumar Sharma, SKIT, Jaipur Link: https://shorturl.at/bnyG3
Saturday 29.04.2023	Analysis of Diesel Engine with RK Diesel Software Prof. Dilip Sharma, Malaviya National Institute of Technology, Jaipur Link: https://shorturl.at/xINW9	Simulation Software for Solar based Systems Dr. Sudhakar Kumarasamy, Universiti Malaysia Pahang, Malaysia Link: https://shorturl.at/xINW9
		Valedictory Session (03.30-04.00 PM) https://shorturl.at/xINW9

Note: The event is being hosted on CISCO Webex platform and the link for the sessions are provided here.

**Organising Team
FDP MASRES-2023**

List of Invited Guest/Speakers

Faculty Development Programme						
“Modelling and Simulation of Renewable Energy Systems” (MASRES-2023)						
(April 25 – 29, 2023)						
S. No.	Schedule Date	Time for Talk	Name of Expert	Organisation	Email Id	Contact No.
1	25.04.2023	12.00 PM	Dr. M.V. Reddy	New Graphite World, Montreal, Canada	reddymvvr@gmail.com	+1 (514) 2269783
2	25.04.2023	2.00 PM	Dr. Alastair McDowell	Energy Analysis and Engineering, Australia	alastair.mcdowell@energyae.com	+642108345347
3	26.04.2023	12.00 PM	Dr. Hari Singh	Design2Occupancy Services, PAT Cell,	dr.hksingh37@gmail.com	9982689095
4	26.04.2023	2.00 PM	Mr. Tushar Sharma	Vela Solaris AG, Switzerland	tushar.sharma@velasolaris.com	9325111066
5	27.04.2023	12.00 PM	Dr. S. N. Patel	IIT, Indore	spatel@iiti.ac.in	9816650106
6	27.04.2023	2.00 PM	Dr. Manish Dadhich	Maxbrain Technologies, Jaipur	manish.ddh1988@gmail.com	9414236163
7	28.04.2023	12.00 PM	Dr. Brijesh Tripathi	Rajasthan Technical University, Kota	btripathi@rtu.ac.in	9891855857
8	28.04.2023	2.00 PM	Mr. Dinesh Kumar Sharma	Swami Keshvanand Institute of Technology,	dinesh.sharma@skit.ac.in	9785449998
9	29.04.2023	12.00 PM	Prof. Dilip Sharma	Malaviya National Institute of Technology, Jaipur	sharmadmnit@gmail.com	9414250328
10	29.04.2023	2.00 PM	Dr. K. Sudhakaran	Faculty of Mechanical Engineering, University of	nittsudhakar@gmail.com, sudhakar@ump.	+60 19 7308925

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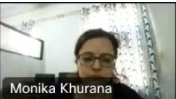
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Photographs of event


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 Dr. Chandan Kumar


**Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur**
(MASRES-2023)
 Day 1 (April 25, 2022), Session 1
Topic:
**Application of Computer Software
for Energy Storage & Conversion**

Dr. M. V. Reddy
 Nouveau Monde Graphite,
Quebec, Canada
 Organized by
(Department of Mechanical Engineering, SKIT)


 Dr. M V Reddy, NMG, ...

Monika Khurana

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<https://nmg.com/>


<https://www.hydroquebec.com/ce-electrification-transport-stockage-energie.html>

<http://www.nus.edu.sg>
 Ranking : world : 11 (QS) 21,
 Asia :1

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Energy**AE**

**Australian Renewable Energy Modelling
Heat Pump & Solar Water Heaters**

Alastair McDowell – Director, EnergyAE
SKIT Conference

4/25/2023

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Alastair McDowell - Director, EnergyAE

EnergyAE:

- Consultant for 80% of Australian Heat Pump & Solar Manufacturers
- Australian distributor for TRNSYS software & training
- Experienced in using & developing methods for Australian rebate schemes

Background:

- Masters in Mechanical Engineering at University of Canterbury, New Zealand
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- Works with manufacturers, test laboratories, and government departments



Date

Project # Title

2

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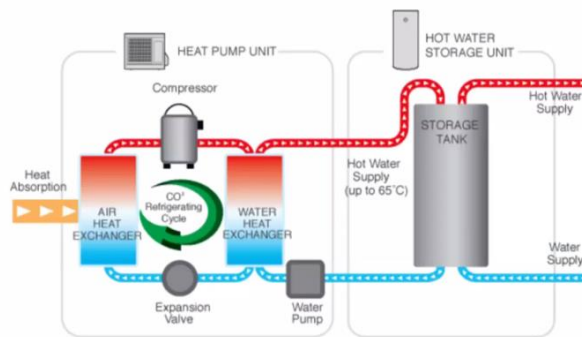
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EnergyAE

Heat Pump Water Heater - Split



- Pumped circulation
- Stratified tank

4/25/2023

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FDP on Modelling and Simulation of Renewable Energy Systems

Organized by Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur



Topic:

Present Status and Way forward for ECBC Compliance in Rajasthan

Presented By: Dr. H.K Singh (Energy Manager D20)



Dr. H.K Singh

Dinesh Kumar S...

Ankit Kumar Aga...

Dr. Chandan Ku...

Ankit

Wizard_Staybridge Suites of Franklin.pd2-2 - eQUEST Quick Energy Simulation Tool 3.65

File Edit View Mode Tools Help

Project Building Loads HVAC Water Side HVAC Utility & Economics

Component Tree

Project: 'Wizard_Staybridge Suites of Franklin'

- Global Parameters
- EL1 Below-Grade Flr
 - EL1 WSW Perim Spc (B.WSW1)
 - EL1 WNW Perim Spc (B.WNW2)
 - EL1 WNW Perim Spc (B.WNW3)
 - EL1 WNW Perim Spc (B.WNW4)
 - EL1 WSW Perim Spc (B.WSW5)
 - EL1 WNW Perim Spc (B.WNW6)
 - EL1 NNN Perim Spc (B.NNN7)
 - EL1 WNW Perim Spc (B.WNW8)
 - EL1 WNW Perim Spc (B.WNW9)
 - EL1 WNW Perim Spc (B.WNW10)
 - EL1 Core Spc (B.C11)
 - EL1 SSW Perim Spc (B.SSW12)
 - EL1 South Perim Spc (B.S13)
 - EL1 WSW Perim Spc (B.WSW14)
 - EL1 NW Perim Spc (B.NW15)
 - EL1 North Perim Spc (B.N16)
 - EL1 NE Perim Spc (B.NE17)
 - EL1 NNE Perim Spc (B.NNE18)
 - EL1 NNE Perim Spc (B.NNE19)
 - EL1 North Perim Spc (B.N20)
 - EL1 ESE Perim Spc (B.ESE21)
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 - EL1 ESE Perim Spc (B.ESE97)
 - EL1 ESE Perim Spc (B.ESE98)
 - EL1 ESE Perim Spc (B.ESE99)
 - EL1 ESE Perim Spc (B.ESE100)

Display Mode: Occupancy

Space Name	Parent Floor	Activity Desc.	Occupancy Schedule	Area/Person (sq ft)	Number of People	Total Ht Gain (Btu/h-person)	People Sens (Btu/h-person)	People Lat (Btu/h-person)
1 EL1 WSW Perim Spc (B.WSW1)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.54	450	240	200
2 EL1 WNW Perim Spc (B.WNW2)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.77	450	240	200
3 EL1 WNW Perim Spc (B.WNW3)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.77	450	240	200
4 EL1 WNW Perim Spc (B.WNW4)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.73	450	240	200
5 EL1 WSW Perim Spc (B.WSW5)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	2.03	450	240	200
6 EL1 WNW Perim Spc (B.WNW6)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	3.79	450	240	200
7 EL1 WNW Perim Spc (B.WNW7)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.88	450	240	200
8 EL1 WNW Perim Spc (B.WNW8)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.98	450	240	200
9 EL1 WNW Perim Spc (B.WNW9)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.73	450	240	200
10 EL1 WNW Perim Spc (B.WNW10)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.72	450	240	200
11 EL1 Core Spc (B.C11)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.10	450	240	200
12 EL1 SSW Perim Spc (B.SSW12)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.77	450	240	200
13 EL1 South Perim Spc (B.S13)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.08	450	240	200
14 EL1 WSW Perim Spc (B.WSW14)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.08	450	240	200
15 EL1 NW Perim Spc (B.NW15)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.41	450	240	200
16 EL1 North Perim Spc (B.N16)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.09	450	240	200
17 EL1 NE Perim Spc (B.NE17)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.99	450	240	200
18 EL1 NNE Perim Spc (B.NNE18)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.69	450	240	200
19 EL1 NNE Perim Spc (B.NNE19)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.77	450	240	200
20 EL1 North Perim Spc (B.N20)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.00	450	240	200
21 EL1 ESE Perim Spc (B.ESE21)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	2.50	450	240	200
22 EL1 East Perim Spc (B.E22)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	1.19	450	240	200
23 EL1 SE Perim Spc (B.SE23)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	2.61	450	240	200
24 EL1 ESE Perim Spc (B.ESE24)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	2.11	450	240	200
25 EL1 ESE Perim Spc (B.ESE25)	EL1 Below-Grade F	Residential (Multi/Family Bldg Occup Sc		575	0.49	450	240	200
26 EL2 WSW Perim Spc (B.WSW26)	EL2 Ground Flr	Residential (Multi/Family Bldg Occup Sc		540	1.74	450	240	203

Ready 91°F Haze

ENG IN 117 PM 4/26/2023

+1



Tushar Sharma

Ankit Kumar Aga...

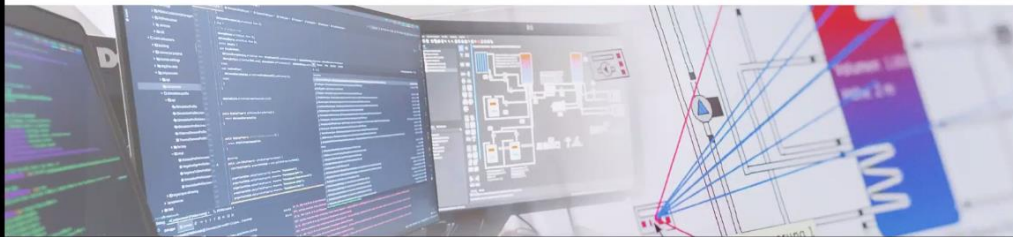
Dinesh Kumar S...

ashish nayyar

POLYSUN®
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POLYSUN INTRODUCTION WEBINAR

26.04.2023; Start : 10:30 (CEST)



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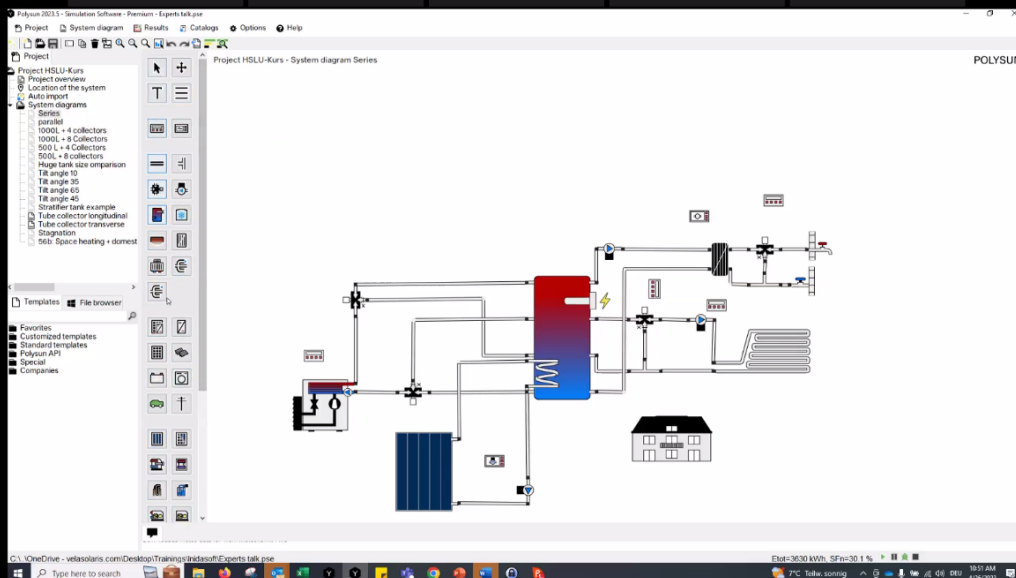
Tushar Sharma

Dr. Chandan Ku...

Ankit Kumar Aga...

Dinesh Kumar S...

Ankit





Dr. Satyanarayan Pa...



Ankit Agarwal

Ankit Kumar Aga...

Solar Energy Harvesting using Pyroelectric Material (COMSOL Multiphysics)

Activate Windows
Go to Settings to activate Windows.

Ankit Kumar Aga...



Ankit Agarwal



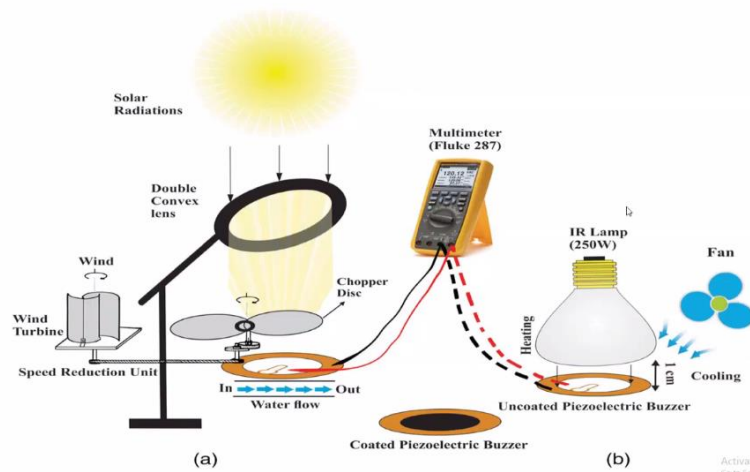
Dr. Satyanarayan Patel



Ankit Agarwal

Ankit Kumar Aga...

Solar energy harvesting using lead-free pyroelectric bulk ceramics



27.04.2023. | 7

Azad et al., *physica status solidi (a)*, 216(20), p.1900440 (2019).



Naveen Kumar S...

Ankit Kumar Aga...



Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur

(MASRES-2023)

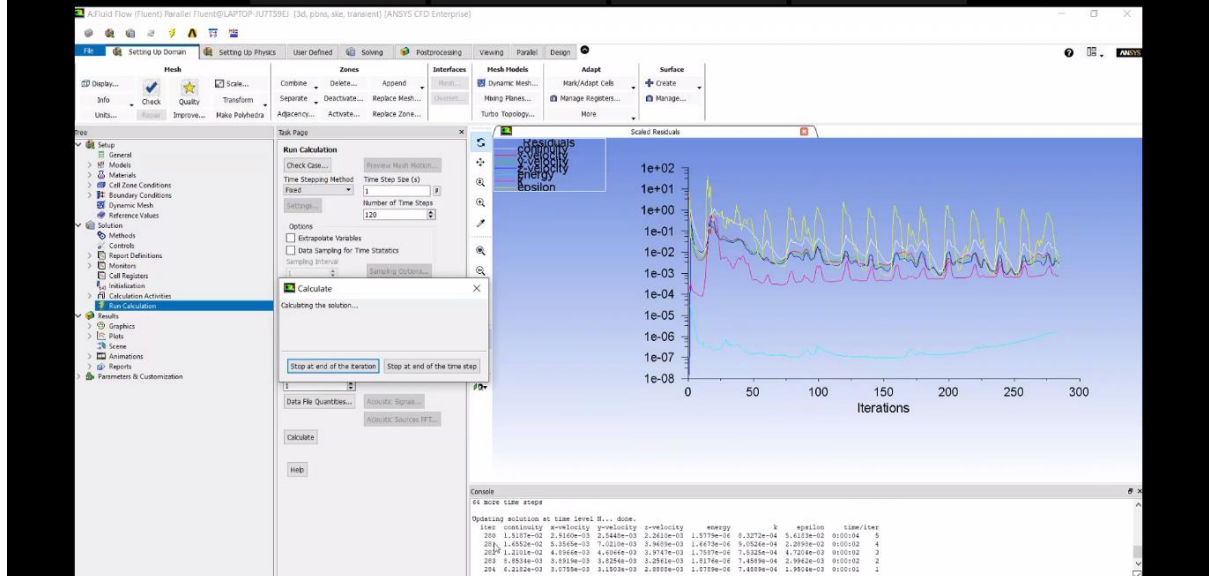
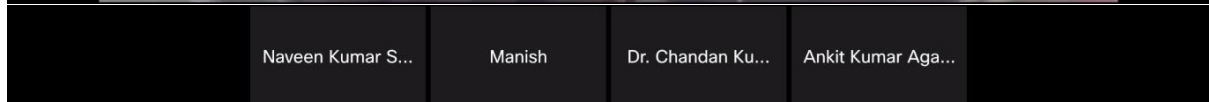
Day 3 (April 27, 2023), Session 2



Dr. Manish Dadhich,
Maxbrain Technologies,
Jaipur

Topic:
**Basics of Computational Fluid
Dynamics using ANSYS**

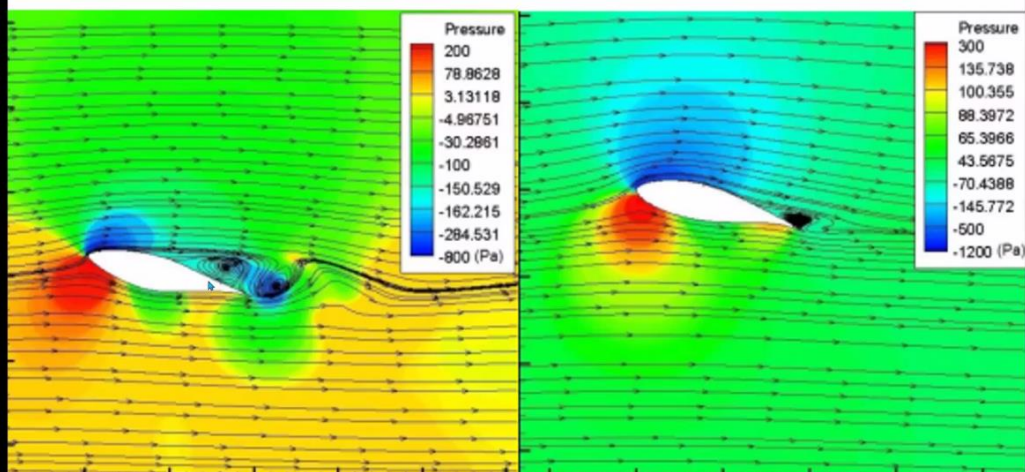
Organized by
(Department of Mechanical Engineering, SKIT)



MODELLING AND SIMULATION OF WIND TURBINE USING ANSYS AND FORTRAN

B. Tripathi
RTU Kota

1



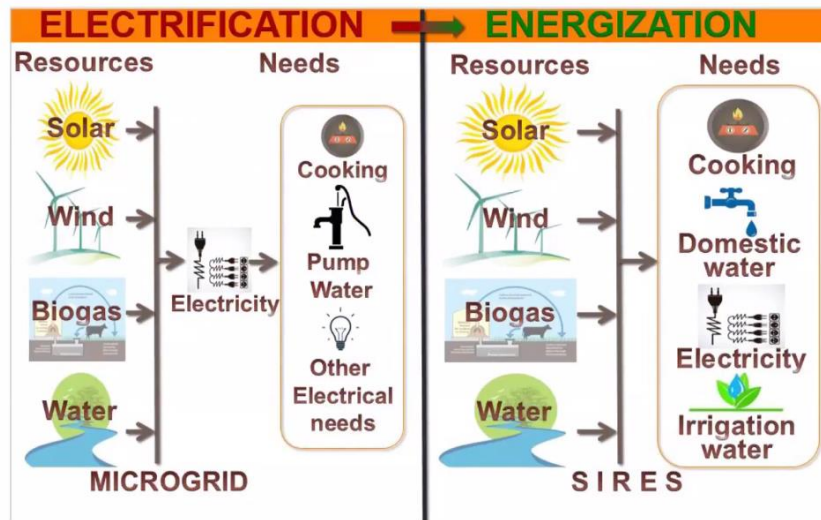


Brij Mohan Shar...

Dr. Chandan Ku...

Ankit Kumar Aga...

Brij Mohan Sharma



Dr. Chandan Ku...

Ankit Kumar Aga...

Brij Mohan Sharma



System Advisor Model (SAM)

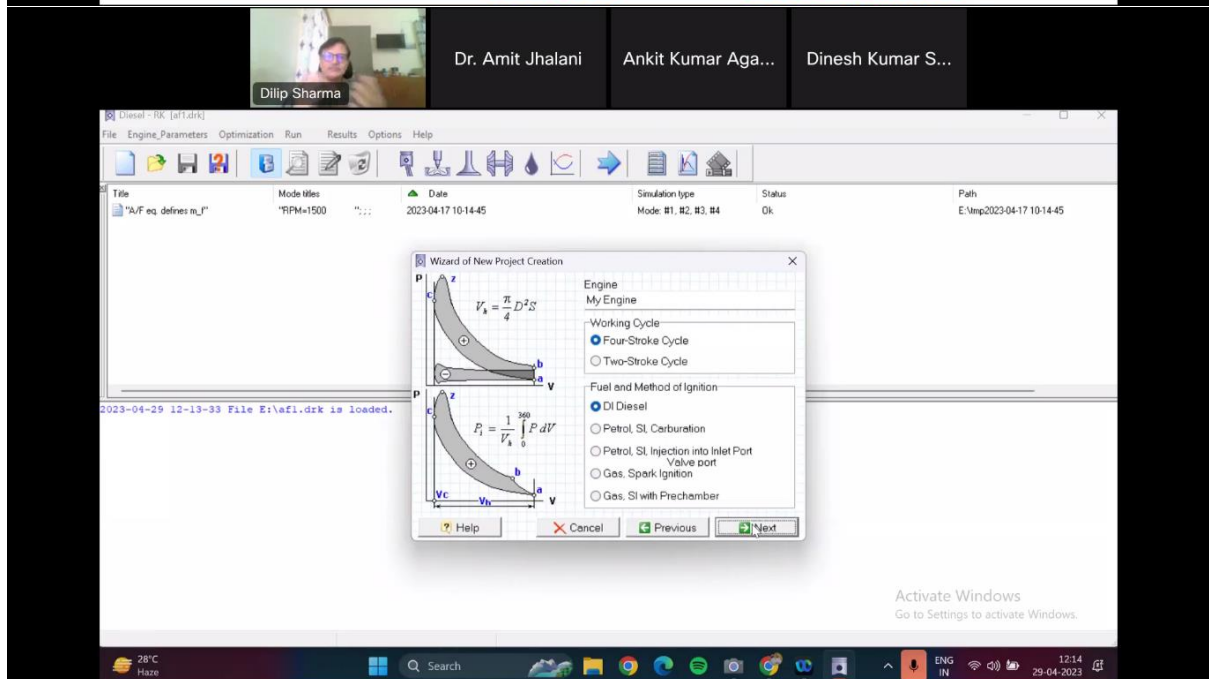
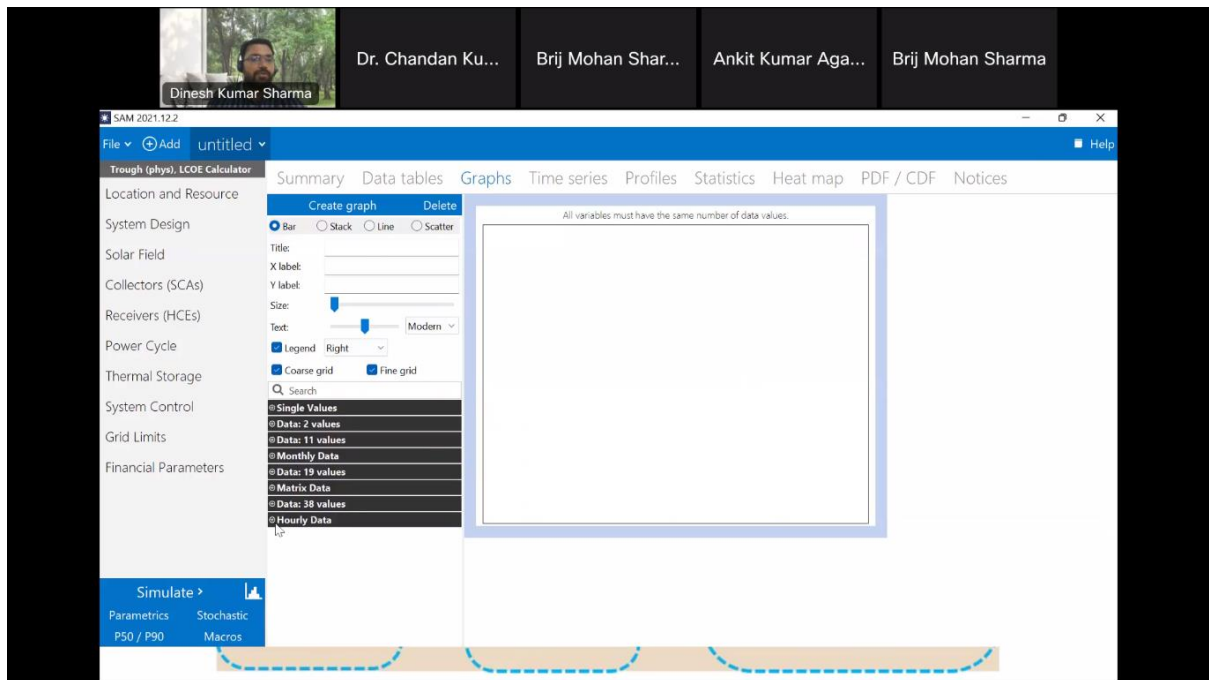
Modeling and Simulation of Renewable Energy Systems using System Advisory Model (SAM)

Dinesh Kumar Sharma

Assistant Professor

Department of Mechanical Engineering

Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur





Dr. Amit Jhalani

Ankit Kumar Aga...

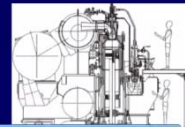
Dinesh Kumar S...

Dilip Sharma

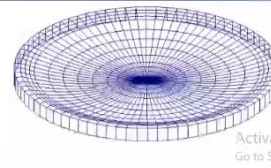
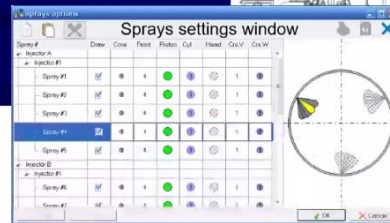
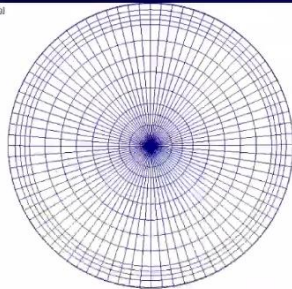
3D Fuel Spray Evolution

3D visualization of sprays evolution in 2 stroke large marine engine with 3 injectors in cylinder.

Yellow bullets mark spatial intersection of sprays



3D (deg)



Activate Windows
Go to Settings to activate Windows.

Dark Green bullets mark spray # 4, #9 & # 14; Blue bullets mark Near Wall Flows on cylinder head; Dark Blue -- their intersections



Dr. Amit Jhalani

Ankit Kumar Aga...

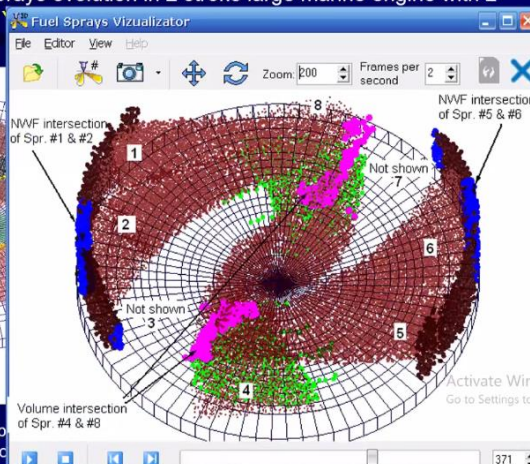
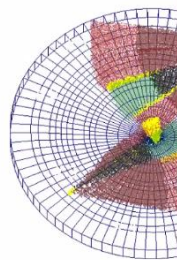
Dinesh Kumar S...

Dilip Sharma

Fuel Spray Visualization code

3D visualization of sprays evolution in 2 stroke large marine engine with 2 injectors in cylinder.

CA - 383.4 (deg)



Activate Windows
Go to Settings to activate Windows.

Dark Green bullets mark spray # 4, #9 & # 14; Blue bullets mark Near Wall Flows on cylinder head; Dark Blue -- their intersections

Ankit Kumar Ag...Coordinator FDP

Naveen Kumar Sain

ashish nayyar

Sudhakar

Sudhakar

Naveen Kumar S...Ankit Kumar Aga...ashish nayyarCoordinator FDP

Microsoft Edge
is using the webcam




اوتنورسييتي مليسيا فاهغ
UNIVERSITI MALAYSIA PAHANG

Simulation software for Solar PV analysis

Dr Sudhakar Kumarasamy

Faculty of Mechanical & Automotive Engineering Technology

Universiti Malaysia Pahang

Email : sudhakar@ump.edu.my

MASRES 2023 ,28th April,2023



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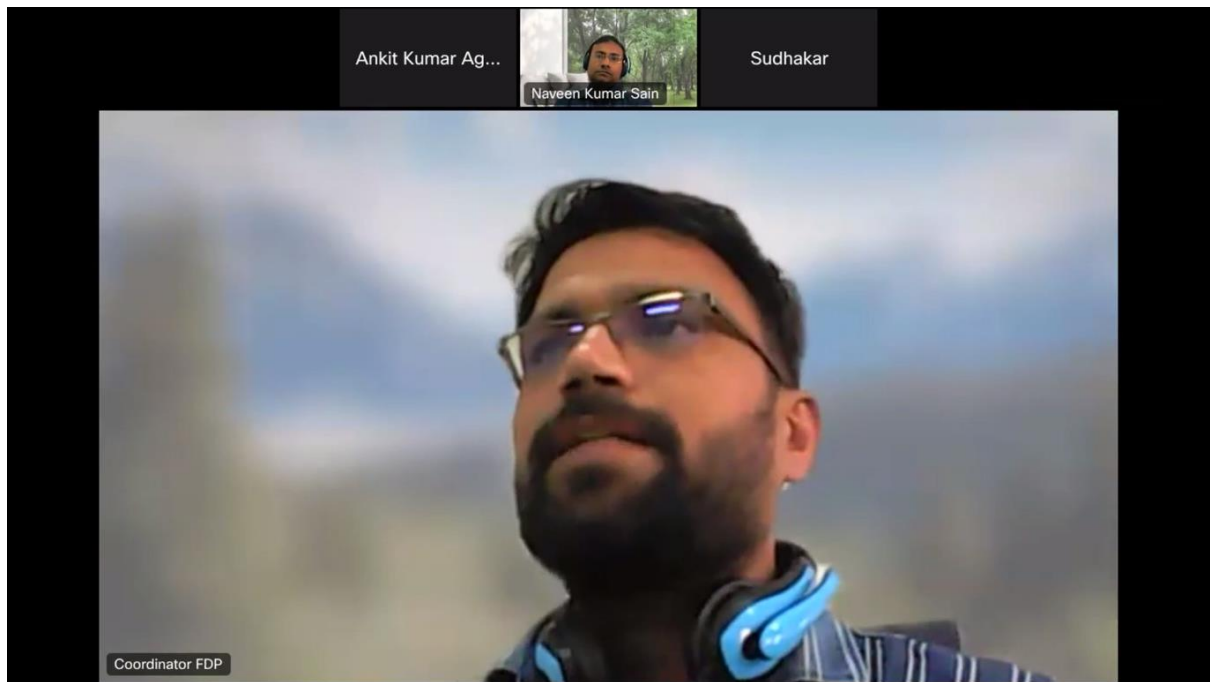


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One-Week International
Faculty Development Programme
on

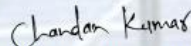


**Modelling and Simulation of Renewable
Energy Systems (MASRES - 2023)**
(Hybrid Mode)

Certificate of Participation

This is to certify that *Mr. Aakash Baburao Gawai* of *A C Patil College of Engineering, Kharghar, Navi Mumbai, Maharashtra* has attended a One-Week International Faculty Development Programme on "Modelling and Simulation of Renewable Energy Systems" held from 25/04/2023 to 29/04/2023 organised by Department of Mechanical Engineering, **Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, India.**


Prof. Dheeraj Joshi
HOD, ME


Dr. Chandan Kumar
Coordinator


Prof. Ramesh Kumar Pachar
Principal

Feedback report

Feedback of FDP was taken from the participants through a Google form. 208 responses were recorded. Overall, the FDP is of value by the participants. Most of the participants appreciated the efforts put by the organizers and the experts.

Level of effort put by



Figure 1. Level of Efforts

More than 80% of the participants considered the course to be of value addition. They have actively participated in the sessions.

Contribution of the course to your knowledge/learning



Figure 2. Contribution of the course to your knowledge/learning

Course content was

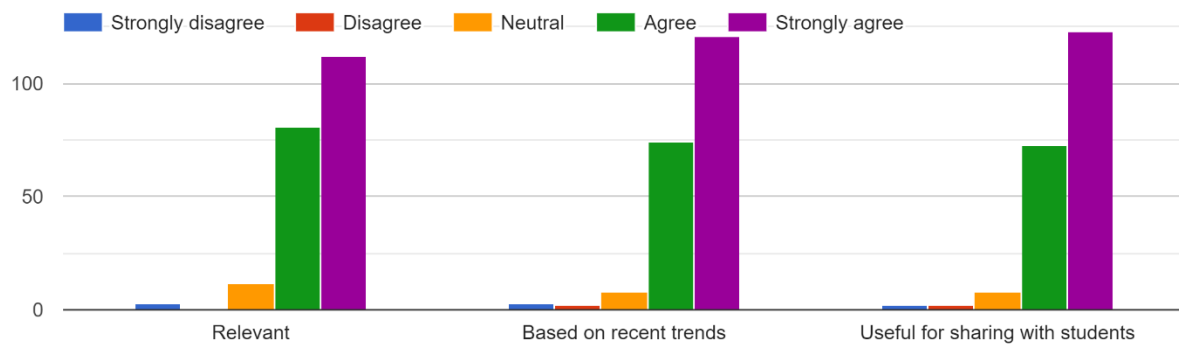


Figure 3. Course content Quality

In suggestions, many participants has suggested to provide the presentations used during the FDP for further study. More than 200 participants had 80% attendance or more. The session on IC Engine Simulation Software RK Diesel Software by Dr. Dilip Sharma from MNIT Jaipur and session on Solar Energy Software by Dr. K. Sudhakar from University of Malaysia, Pahang were the most liked sessions by the participants. They got their future research ideas from the different sessions.

The participants have shown their interest to join such FDPs in future also.

Day Wise detailed report

Renewable energy and sustainable development are the key technologies to offer solutions to the ever-increasing environmental pollutions and depleting conventional fuel reserves. However, it is well known that these systems are cost intensive and complex. Thus, there is a wide scope and need for modelling and simulation of Renewable Energy Systems. With an aim to discuss the advanced modelling and simulation software capable to offer accurate and efficient model of renewable energy systems, a one-week international faculty development programme on “Modelling and Simulation of Renewable Energy Systems-MASRES, 2023” was organized by Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur from April 25 to 29, 2023.

First day of the FDP started with the Inaugural session which was graced by the presence the Chief Guest Dr. M V Reddy, Senior Researcher, New Graphite World, Montreal, Hydro-Quebec, Canada, Prof. Dheeraj Joshi, HoD, Department of Mechanical Engineering, SKIT and Prof. Ashish Nayyar (Professor, ME). Prof. Dheeraj Joshi welcomed the Chief Guest, dignitaries and all the participants. Prof. Joshi discussed the need of such FDPs as a very important development activity for upliftment of Faculty. He thanked the entire team of FDP for choosing such a relevant topic of general interest addressing the solutions to energy crisis currently being faced by the world. Dr. MV Reddy, Chief Guest addressed the gathering. Dr Reddy highlighted the need of modelling and simulation of renewable energy systems. Prof. Ashish Nayyar proposed a formal vote of thanks.

Dr MV Reddy addressed the gathering in the First session of Day 1. Dr. Reddy presented advances in high energy storage materials for electric vehicles. He discussed about the various software used for simulation of battery-operated electric vehicles. Dr. Alastair McDowell, Director Energy Analysis and Engineering, Australia presented his expert talk during second session on TRNSYS Modelling of Residential and Commercial Heat Pump Water Heaters and Solar Water heaters with emphasis on Incentives and subsidy offer for

renewable energy installations in Australia. He highlighted the ease and effectiveness of modelling of renewable energy systems through TRNSYS.

Second Day First Session started with the talk by Dr Hari Singh, Dsign2 Occupancy, PAT Cell, RRECL, Jaipur. Dr Singh presented his talk on Present Status and Way Forward for ECBC Compliances in Rajasthan. Dr Singh discussed the use of e-Quest software to calculate the heating/cooling load profile of a multistory building. Mr. Tushar Sharma, Vela Solaris AG, Switzerland presented a practice session on Modelling and Simulation of Solar Water heating systems with thermal energy storage using PolySUN Software in the session II of the Day 2. He discussed the capability and accuracy of the models developed.

Day 3 started with the session on use of COMSOL MultiPhysics for Solar Energy Harvesting using Pyroelectric Material by our expert Dr S.N. Patel, IIT Indore. In the second session of the day Dr. Manish Dadhich, Maxbrain Technologies, Jaipur presented his expert session on the use of ANSYS Fluent for modelling of flow. Prof. Brajesh Tripathi, Rajasthan Technical University, Kota delivered his expert talk on Modelling and Simulation of Wind Turbine using ANSYS and FORTRAN in the first session of Day 4. In the Second Session of the day Mr. Dinesh Kumar Sharma delivered an expert talk on the modelling and analysis of CSP based solar power plant using System Advisory Model Software.

On Day 5 Session 1, Prof. Dilip Sharma, Professor (HAG), Malaviya National Institute of Technology, Jaipur interestingly shared use of RK Diesel software for modelling and simulation of IC engines. During second session of the day, Dr K. Sudhakaran Univeristi of Malaysia, Pahang addressed the gathering with his highly informative talk on the solar based simulation software. Dr. Sudhakaran very interestingly discussed many advanced software used for Solar PV installations and estimation of performance and productivity.

Organizing team of FDP-MASRES express my sincere gratitude to all experts from worldwide for accepting our invitation and delivering the talks covering literally all aspects of modelling and simulation of renewable energy systems and made this event meaningful for our participants. There were over 400

registrations in this FDP from all corners of the world. Most of the participants were attending the sessions very attentively. Certificates have been awarded to the participants with more than 80% attendance. This FDP helped to the participants to get acquainted with the state of art simulation and modelling software in the field of Renewable Energy Technology.

Objectives and Outcomes

After attending this FDP, an attendee will be able to:

- Get acquainted with various simulation tools and techniques used for modelling and simulation of renewable energy systems.
- Develop models and simulations for renewable energy systems, and to analyze their performance and efficiency.
- Improve teaching strategies and methodologies for incorporating modelling and simulation of renewable energy systems into the curriculum.
- Enhance research productivity in the area of renewable energy systems modelling and simulation, resulting in publications and presentations at conferences and other academic forums.
- Promote industry and government initiatives related to renewable energy systems through consulting, research collaborations, and policy advocacy.

Utilization report

Swami Keshvanand Institute of Technology, Management and Gramothan
Department of Mechanical Engineering

One-week International
Faculty Development Program

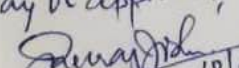
on
"Modelling & Simulation of Renewable Energy System"

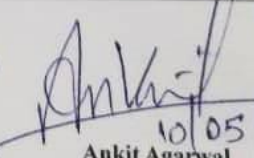
(MASRES-2023)

April 25 to 29, 2023

Honorarium Bill

S. NO.	NAME OF EXPERT	BANK DETAILS	PAN NO.	AMOUNT
1	VENKATASHAMY REDDY M	ACC. - 068310101665 IFSC - CNRB0000683 BRANCH - CANARA BANK, BANGLORE IISC CAMPUS	AUUPV9583D	3000/-
2	HARI SINGH	ACC. - 919010029464250 IFSC - UTIB0000763 BRANCH - AXIS BANK, SIKAR	BRVPS1982E	3000/-
3	TUSHAR SHARMA	ACC. - 007405006840 IFSC - ICIC0000074 BRANCH - ICICI BANK LTD, PUNE - KONDHWA	AABCI0540H	3000/-
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6	BRAJESH TRIPATHI	ACC. - 6660000400000758 IFSC - PUNB0666000 BRANCH - PNB, GAUTAM BUDDHA UNIV., GREATER NOIDA	AHLPT2891A	3000/-
7	DILIP SHARMA	ACC. - 676801116690 IFSC - ICIC0006768 BRANCH - ICICI BANK M R E C BRANCH, Jaipur Jaipur	AJSPS2017G	3000/-
8	K. SUDHAKAR	ACC. - 30530963500 IFSC - SBIN0001608 BRANCH - STATE BANK OF INDIA, MANIT, BHOPAL	BURPS2114R	3000/-
Total amount in rupees				24000/-

May be approved,

Prof. Dheeraj Joshi
(Head of Department, Mech. Engg.)
10/05/2023


Ankit Agarwal
(Coordinator, MASRES-2023)
10/05/2023