

### TARGET AREAS

- INTRODUCTION TO MICROWAVE SYSTEMS AND ANTENNA
- RADIATION MECHANISMS AND DESIGN ASPECTS
- LOW NOISE AMPLIFIER DESIGN
- FILTER DESIGN
- ANTENNA ARRAYS AND APPLICATIONS
- PASSIVE AND ACTIVE MICROWAVE DEVICES
- IMPEDANCE TRANSFORMATION, IMPEDANCE MATCHING
- RF OSCILLATOR
- MICROWAVE POWER AMPLIFIER DESIGN
- RF MIXER

### REGISTRATION DETAILS

- There is **no Registration fee** for the FDP.
- Registration for the FDP can be done using the **registration form and photocopy of the form should be uploaded online through the registration link and to the E-mail ID provided.**
- The faculty members of the AICTE approved institutions, Academicians & Research Scholars Graduate Students, Industry Professionals
- Participants will be selected on first come first serve basis.
- Selected candidates will be intimated by E-mail.
- Confirmation of participation is to be made by E-mail.

### ONLINE REGISTRATION LINK

<https://forms.gle/EWfs9qzCTaMe6EG37>

### REGISTRATION FORM

#### FIVE DAYS ONLINE FDP ON “EC8701 ANTENNAS AND MICROWAVE ENGINEERING” 18.07.2022 to 22.07.2022

- Name:
- Designation:
- Educational Qualification:
- Experience:
- Area of Specialization or Research:
- Department:
- Organization:
- Address for communication:
- Email ID:  
(G-Mail Preferably)
- Mobile Number

### AUTHORIZATION CERTIFICATE

Ms./Mr./Dr. \_\_\_\_\_  
is an employee of our college/ institution and is hereby permitted to attend the five days FDP at Department of Electronics and Communication Engineering, RVS College of Engineering and Technology, Coimbatore-641 402, if selected.

Date:  
Place:

Signature & Seal of the Authorizing Authority

### DECLARATION

The information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the FDP. If selected, I shall attend the FDP for the entire duration. I also undertake the responsibility to inform the Coordinator in advance in case of inability to attend the program.

Date:  
Place:

Signature of the Applicant

### CONTACT US

**The Co-ordinator**  
FIVE DAYS ONLINE FDP ON  
“EC8701 ANTENNAS AND MICROWAVE  
ENGINEERING”  
Department of Electronics and Communication  
Engineering  
RVS College of Engineering and Technology  
Kannampalayam Post, Coimbatore-641 402.  
Mail ID: [dhamotharan.c@gmail.com](mailto:dhamotharan.c@gmail.com)  
Phone. No: 0422 – 2687877  
Mob. No: +91 9789698660



  
**PRINCIPAL**  
RVS College of Engineering & Technology  
Coimbatore - 641 402

### ABOUT THE COLLEGE

Rathinavel Subramaniam Educational Trust was established in 1983 as a Public Charitable Trust, in fond memory of Master Rathinavel Subramaniam the elder son of the Chairman Lion. Vijayashree. Dr. K.V. Kuppusamy and Smt.K.Padmavathy. RVS College of Engineering and Technology (RVSCET) was established in the year 2007 by the RVS Educational Trust and is affiliated to Anna University Chennai. Our college is located 15 kms from Coimbatore Central Bus stand and 4 kms from sulur Airport.

### ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering is offering a full time four year B.E. degree course in Electronics and Communication Engineering since the inception of the Institution in the year 2007. This branch of Engineering imparts technical knowledge in fields of Electronics, Communication, VLSI, Embedded System, Image processing, Signal processing, Wireless Networks etc. The department also offers full time M.E degree course in Communication Systems. The department laboratory is well equipped with major components like spectrum analyzer, ARM Processor, Microprocessor, Microcontroller and interface kits, Spectrum Analyzer, Different antenna elements, Microwave test bench, Network Analyzer, Optical Transmitter and Receiver with different Modulation Schemes, various analog and digital communication related kit etc. The laboratory also consists of various software like FEKO-for the purpose of designing the antenna, LABVIEW , MATLAB, XILINX, MODELSIM, SCILAB (free software)etc.

### ORGANIZING COMMITTEE

#### CHIEF PATRON

Vijayashree Dr. K. V. Kuppusamy

Managing Trustee

#### PATRON

Dr. P.Rajendran

Principal

#### VICE- PATRON

Mr. M. Ramkumar

Administrative Officer

#### CHAIRPERSON

Dr. D. Jeyakumari

Professor & Head / ECE

#### CONVENOR

Dr. N.Shanmuga vadivu

Professor / ECE

#### CO-ORDINATORS

Mr.C.Dhamotharan

Assistant Professor / ECE

#### VENUE

Online Platform.

#### IMPORTANT DATES

Last Date for receiving application (by online)	:	15.07.2022
Intimation of Selection	:	16.07.2022
Confirmation by participants	:	16.07.2022



**RVS COLLEGE OF ENGINEERING AND TECHNOLOGY**  
KumaranKottam Campus, Kannampalayam (Po),  
Coimbatore – 641 402

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**FIVE DAYS  
ONLINE FDP ON**

**“EC8701 ANTENNAS  
AND MICROWAVE  
ENGINEERING”**

**18.07.2022 to 22.07.2022**

#### CO-ORDINATOR

Mr.C.Dhamotharan

Assistant Professor

Department of ECE

RVS College of Engineering and Technology  
Coimbatore-641 402

#### Organized by

Department of Electronics and Communication  
Engineering

RVS College of Engineering and Technology  
Kannampalayam Post  
Coimbatore-641 402

  
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Coimbatore - 641 402

08-07-2022

**From**

C.Dhamocharan,  
Assistant Professor-ECE,  
RVS College of Engineering and Technology,  
Coimbatore-641402.

**To**

The HOD,  
Department of ECE,  
RVS College of Engineering and Technology,  
Coimbatore-641402.

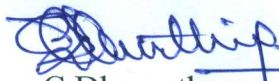
Respected Madam,

Sub: Permission -Organizing Faculty Development Program (FDP) – 18-07-2022  
to 22-07-2022 - online mode-Reg.

We have planned to conduct a Faculty Development Program (FDP) on “EC8701 ANTENNAS AND MICROWAVE ENGINEERING” from 18-07-2022 to 22-07-2022 through online mode in order to enhance the technical knowledge of faculty members in latest communication field. So, we kindly request that the permission may be granted to conduct the same.

Thanking you,

Yours faithfully,

  
C.Dhamocharan



HOD-ECE  
Head of the Department  
Department of ECE,  
RVS College of Engineering Technology,  
Coimbatore - 641 402.





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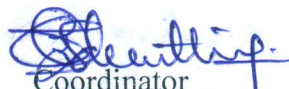


### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

12.07.2022

### CIRCULAR

This is to inform you that the department of Electronics and Communication Engineering is going to organize a Faculty Development Program (FDP) on “EC8701 ANTENNAS AND MICROWAVE ENGINEERING” from 18.07.22 to 22.07.22 through online mode. In this regard, the interested faculty members as well as Electronics background faculty members are asked to attend the same and share their knowledge with the external experts. The brochure and Schedule are given along with the circular.


  
Coordinator  
C. Dharmotharan, AP/ECE

  
Principal  
PRINCIPAL  
RVS College of Engg. & Technology  
Coimbatore-641, 402

#### Copy to

- 1) Advisor to the Hon'ble Chairman
- 2) Administrative Officer
- 3) IQAC
- 4) All HoD's( Circulation among faculty members)
- 5) Chief Librarian
- 6) File.



  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**Academic year 2022-2023**

Five days Faculty Development Program on  
**“EC8701 ANTENNAS AND MICROWAVE ENGINEERING”**  
18<sup>th</sup> - 22<sup>th</sup> JULY, 2022

**FACULTY DEVELOPMENT PROGRAMME - DAY WISE SCHEDULE**

<b>Day 1</b> 18.07.2022 Monday	10:30 - 10:45 am	INAUGURALSESSION	Dr.P.RajendranM.Tech.,Ph.D, Principal RVS College of Engineering and Technology Coimbatore -641402
	10.45am – 12.00pm	INTRODUCTION TO MICROWAVE SYSTEMS AND ANTENNA	Dr.P.Reba Associate Professor/ ECE, PSG Institute of Technology and Applied Research, Coimbatore-641 402
	2.30 pm- 4.00 pm	LOW NOISE AMPLIFIER DESIGN	Dr.N.Shanmugavadivu Professor /ECE RVS College of Engineering and Technology Coimbatore-641 402
<b>Day 2</b>	10.30am - 12 .00 pm	MICROWAVE POWER AMPLIFIER DESIGN	Dr.E.Gomathi Associate Professor /ECE Kalaigarkarananidhi Institute of Technology, Coimbatore - 641 402



  
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19.07.2022 Tuesday	2.30 pm- 4.00 pm	RF MIXER	Dr.M.Usharani Assistant Professor / ECE Er.PerumalManimekalai College of Engineering Hosur, Krishnagiri -635 117.
<b>Day 3</b> 20.07.2022 Wednesday	10.30am - 12 .00 pm	IMPEDANCE TRANSFORMATION, IMPEDANCE MATCHING	Dr. R. Sudarmani Associate Professor/ECE School of Engineering, Avinashilingam Institute for Home science and Higher education for Women, Coimbatore 108
	2.30 pm- 4.00 pm	ANTENNA ARRAYS AND APPLICATIONS	Dr.Chitra Associate Professor /ECE Sri Sairam Institute of Technology Chennai – 600044
<b>Day 4</b> 21.07.2022 Thursday	10.30am - 12 .00 pm	FILTER DESIGN	Mrs.C.Vanaja Associate Professor /ECE Paavai Engineering College, Namakkal- 637 018.
	2.30 pm- 4.00 pm	RADIATION MECHANISMS AND DESIGN ASPECTS	Dr. K.C. Sriharipriya, M.E, Ph.D, PDF Associate Professor/ECE VIT, School of Electronic Engineering Vellore.
<b>Day 5</b> 22.07.2022 Friday	10.30am - 12 .00 pm	PASSIVE AND ACTIVE MICROWAVE DEVICES	Dr.R.Rajkumar Associate Professor /ECE Siddartha Institute of Science and Technology Andhra Pradesh 517581
	2.30 pm- 4.00 pm	RF OSCILLATOR	Dr.N.Shanmugavadivu Professor /ECE RVS College of Engineering and Technology Coimbatore - 641 402

*Co-ordinator.*  
C. Phamotharan, AP/ECE



*Principal*  
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RVS College of Engg. & Technology  
Coimbatore-641 402

*Head of the Department*  
Head of the Department  
Department of ECE,  
RVS College of Engineering Technology,  
Coimbatore - 641 402.



## RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

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### EC8701 ANTENNAS AND MICROWAVE ENGINEERING

#### RESOURCE PERSONS PROFILE

SL.NO	NAME OF THE RESOURCE PERSON	PROFILE OF THE RESOURCE PERSON
1	Dr.P.Reba Associate Professor/ ECE,	<p>Reba P received her ME degree in Communication Systems from PSG College of Technology, Coimbatore, India in 2009. She completed her PhD from Anna University, Chennai, India in 2019. She has been part of the teaching fraternity since 2009 and from December 2016, she has been with the Department of Electronics and Communication Engineering, PSG iTech, Coimbatore, where she is currently an Associate Professor.</p> <p>Her research interests are in the area of wireless communication theory and signal processing, with main focus on design and analysis of energy- and spectrum-efficient system models for 5G wireless communications, Device-to-Device Communication, Simultaneous Wireless Information and Power Transfer – Wireless Body Area Networks, mmWave Massive MIMO, Visible Light Communication and Cognitive Radio.</p>
2	Dr.E.Gomathi Associate Professor /ECE	<p>E.Gomathi has been part of the teaching fraternity since 1995 and from December 2016, she has been with the Department of Electronics and Communication Engineering in Kalaignarkarunanidhi Institute of Technology, Coimbatore, where she is currently an Associate Professor. She has published multiple papers in high impacted journal/conference.</p>



  
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3	Dr.M.Usharani Assistant Professor / ECE	Presently working as Assistant Professor in Er.PerumalManimekalai College of Engineering Hosur, Krishnagiri. Having more than 15 years of teaching and research experience. She has published numerous technical papers in various National/International journals and conferences. She has published multiple papers in high impacted journal/conference
4	Dr. R. Sudarmani Associate Professor /ECE	She has completed her Ph.D in 2014.Presently working as Associate Professor/ECE ,School of Engineering, Avinashilingam Institute for Home science and Higher education for Women, Coimbatore. Having more than 20 years of teaching experience and guiding 5 Ph.D research scholars. She has published 2 books,25 journals,46 conferences, 1 patent. Recived best teaching faculty award from Dr. Kalam Educational Trust for Tribal, Chennai. Received Seminar grant from ICMR ,DST NIMAT. Life member of IETE, ISTE. Acting as Reviewer for JCIE, JCS, IJDSN etc.
5	Dr.V.Chitra Associate Professor /ECE	V.Chitra presently working as Assistant Professor in Sri Sairam Institute of Technology, Chennai. She is having more than 15 years of teaching experience. She conducted several programs for the benefit of students and faculty members. She has published multiple papers in high impacted journal/conference
6	Mrs.C.Vanaja Associate Professor /ECE	V.Chitra presently working as Assistant Professor in Paavai Engineering College, Namakkal. She is having more than 15 years of teaching experience. She conducted



  
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		several programs for the benefit of students and faculty members. She has published multiple papers in high impacted journal/conference.
7	Dr.S.Sangeetha Assistant Professor/ECE	She completed her M.E. in communication systems and Ph.D from the College of Engineering, Anna University, Guindy. Currently, working as an Assistant Professor with the School of Electronics Engineering, VIT University, and Vellore. I have 24 international journals, 10 indian patents published, 4 granted patents and 7 international conferences in the area of Microwave Engineering and Antenna & Wave Propagation. Her research interests are microwave sensors, microwave filters, Reconfigurable antennas, Antennas for hand-held devices and MIMO antennas.
8	Dr.R.Rajkumar Professor /ECE	Currently working as Professor, Department of ECE, Siddartha Institute of Science and Technology, Puttur, Tirupati, Andhra Pradesh.He is having 13 years of experience in teaching and research. He published huge numbers of papers in International Journals, Conference, Book chapters and Patents. He completed several certification courses in NPTEL, UDEMY. Also received funds from CSIR, AICTE –GOC Scheme to conduct seminars and workshops. His area of interest are Image Processing, Data Security, Machine Learning, and Optimization.



*[Signature]*  
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## RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

KumaranKottam Campus, Kannampalayam (Po), Coimbatore - 641 402

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Five day Faculty Development Program on “EC8701 ANTENNAS AND MICROWAVE ENGINEERING”

18<sup>th</sup> - 22<sup>th</sup> JULY, 2022

#### FACULTY ATTENDANCE SHEET



si no	Name	Designation	18.07.2022		19.07.2022		20.07.2022		21.07.2022		22.07.2022	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	A.Anandkumar	Assistant Professor	P	P	A	A	P	P	P	P	P	P
2	Arunkumar Chandrasekhar	Assistant Professor	P	P	P	P	P	A	P	P	P	P
3	B.M.Prabhu	Assistant Professor	P	P	A	A	P	P	P	P	P	P
4	B.Neeththi Aadithiya	Assistant Professor	P	P	P	P	P	P	P	P	P	P
5	Balaji J	Assistant professor	P	P	P	P	P	A	P	P	P	P
6	Baskaran M	Assistant Professor	P	P	P	P	P	P	P	P	P	P
7	Bhuvaneshwari R	Assistant Professor	P	P	A	P	P	P	A	A	A	P
8	Devipriya S	Assistant Professor	P	P	P	P	P	A	P	P	P	P
9	Dr Karthikeyan K	Assistant Professor	A	P	P	P	P	P	P	P	P	P
10	Dr Sahaya Sheela M	Associate Professor	A	P	P	P	A	A	P	A	P	P
11	Dr. Vetrieveeran Rajamani	Associate Professor	P	P	P	P	A	A	A	A	A	A
12	Dr.A.Christina Josephine Malathi	Assistant professor	A	P	P	P	P	P	P	P	P	P
13	Dr.K.Kalaivani	Associate Professor	A	P	P	P	P	P	P	P	P	P
14	Dr.P.Elayaraja	Associate Professor	P	P	P	P	P	A	A	P	P	P



  
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si no	Name	Designation	18.07.2022		19.07.2022		20.07.2022		21.07.2022		22.07.2022	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
15	Dr.P.Ramesh Kumar	Dean(R&D)	A	P	P	P	P	P	P	P	P	P
16	Dr.S.Vimalnath	Assistant Professor	P	P	P	P	P	P	P	P	P	P
17	Gayathri R	Assistant professor	P	A	A	P	P	P	P	P	P	A
18	Inbavalli V P	Assistant professor	P	P	P	P	P	P	P	P	P	P
19	Jayapal N	Assistant Professor	P	A	P	A	P	P	A	P	P	P
20	K Maheshkumar	Assistant Professor	P	P	P	P	P	P	P	P	P	P
21	K. Vijaipriya	Assistant professor	P	P	P	P	A	A	P	P	P	P
22	Kanagavalli.P	Assistant professor	P	P	P	P	P	P	P	P	P	P
23	Kishor	Assistant Professor	P	P	P	P	P	P	P	P	P	P
24	M.Abinayaa	Assistant Professor	P	P	P	A	P	P	P	P	P	P
25	Mani T	Assistant Professor	P	P	A	P	P	P	P	A	P	P
26	Meivel S	Assistant Professor	A	P	A	P	P	A	P	P	P	P
27	Monikavishnuvarthini. A	Assistant Professor	P	P	P	P	P	A	P	A	P	P
28	Mr.C.Dhamocharan	Assistant professor	P	P	P	P	P	P	P	P	P	P
29	Mr.C.Shanmugaraja	Assistant professor	A	A	A	A	P	P	P	P	P	P
30	P Periyathambi	Assistant professor	P	P	P	A	P	A	A	P	A	A
31	P Sasikala	Assistant Professor	P	P	P	P	P	P	P	P	P	P
32	P.Mohanraj	Assistant Professor	A	P	A	P	P	P	P	P	P	P
33	P.Sivamani	Associate Professor	P	P	P	P	P	P	P	P	P	P
34	Paranthaman M	Assistant Professor	A	P	P	P	P	P	P	P	P	A
35	R.Pushpavalli	Associate Professor	P	P	P	P	P	P	P	P	P	P
36	Reba P	Associate Professor	P	A	A	A	P	P	P	A	P	A



  
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**Coimbatore-641 402**

si no	Name	Designation	18.07.2022		19.07.2022		20.07.2022		21.07.2022		22.07.2022	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
37	S Purushothaman	Assistant Professor	P	P	P	P	P	P	P	P	P	A
38	S. Satheeshkumar	Assistant professor	A	P	P	A	A	A	P	P	P	P
39	Subaselvi S	Assistant professor	P	P	P	P	P	P	P	P	A	A
40	Suganya M	Assistant professor	P	P	P	P	P	P	P	P	P	P
41	Sundar Ganesh C S	Assistant professor	P	P	P	P	P	P	P	P	P	P
42	Suseendhar P	Assistant Professor	P	P	P	P	P	A	A	P	P	A
43	Thirandasu Bhavani	Assistant professor	P	P	P	P	P	P	P	P	P	P
44	Dr.B.Suganthi	Associate Professor	A	P	P	P	P	P	P	P	P	P
45	Dr.R.Kannan	Assistant professor	P	P	P	P	P	P	P	P	P	P
46	L.Mohanakannan	Assistant professor	P	P	P	P	P	P	P	P	P	P
47	L.Gowrishankar	Assistant professor	P	P	P	P	P	P	P	P	P	P
48	N.Shanmugavadivu	professor	P	P	P	P	P	P	P	P	P	P
49	P.Gowtham	Assistant professor	A	P	P	P	P	P	P	P	P	P
50	R.Rajkumar	Assistant professor	P	P	P	P	P	P	P	P	P	P
51	Arunadevi.P	Assistant professor	P	A	P	A	A	A	A	A	A	A
52	Dr. Vetriveeran Rajamani	Associate Professor	P	P	P	A	A	A	A	A	A	A
53	J Silamboli	Assistant professor	P	P	P	P	P	P	P	P	P	P

*[Handwritten Signature]*  
coordinator.

e. dhamotharan, AP/ECE



*[Handwritten Signature]*  
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RVS College of Engg. & Technology  
Coimbatore-641 402

*[Handwritten Signature]*  
Head of the Department  
Department of ECE,  
RVS College of Engineering Technology,  
Coimbatore - 641 402.



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**Academic year 2022-2023**

Five days Faculty Development Program on  
**“EC8701 ANTENNAS AND MICROWAVE ENGINEERING”**  
18<sup>th</sup> - 22<sup>th</sup> JULY, 2022

## **Report**

RVS College of Engineering and Technology organize a Five days FDP in the title **“EC-8701 Antenna and Microwave Engineering”**. With Tamilthai vazhthu the program is started. Our College **Principal Dr.P.Rajendran** delivered inaugural and FDP note to the gathering. **Dr.N.Shanmuga Vadivu** welcomed the gathering and in each session she introduced the resource person. Eight eminent experts from various parts of India are invited to share their technical knowledge and vast experience on the topic. Totally **53** Number of participants registered to the FDP.


**Day 1(18.07.2022):** Session 1:

**Dr.P.Reba** Associate Professor/ECE, PSG Institute of Technology and Applied Research, Coimbatore delivered her lecture on the topic of **“INTRODUCTION TO MICROWAVE SYSTEMS AND ANTENNA”**. Antenna types and its usage is taught clearly with suitable glimpse. Antenna parameters like wavelength, Bandwidth, Radiation intensity are discussed with the audience.

Session 2:

**Dr.N.Shanmugavadivu** Professor/ECE RVS College of Engineering and Technology, Coimbatore handled the second session on **LOW NOISE AMPLIFIER DESIGN**. The Various ways to achieve design aspects of the amplifier were presented and discussed with Block diagram. The doubts raised by the participants are clearly clarified.



  
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## Day 2(19.07.2022):

### Session 1:

**Dr.E.Gomathi**, Associate Professor /ECE KIT-Kalaignar Karunanidhi Institute of Technology, Coimbatore greetings the gathering and started her session in the topic of “**MICROWAVE POWER AMPLIFIER DESIGN**”. Role of Amplifier in RF is discussed with various factors. The Formula to achieve better performance is the key point in her speech.

### Session 2:

The topic of second session is **RF Mixer** and is delivered by **Dr.M.Usharani** Assistant Professor / ECE Er.Perumal Manimekalai College of Engineering, Hosur, Krishnagiri. Her Lecture is based on the new trends in the area of RF mixer and its design. Participants discussed over various aspects with the speaker and the discussion continued until 4.10pm.

## Day 3(20.07.2022) :


### Session 1:

**Dr.R.Sudarmani**, Associate Professor/ECE, School of Engineering, Avinashilingam Institute for Home science and Higher education for Women, Coimbatore. Professor delivered about **impedance matching** followed by procedure to find impedance matching with the help of smith chart for single and double stub matching. The role of impedance matching in improving the power and various factors are orated. The Speaker solved many critical problems during the session and discussed about the text books for the subject.

### Session 2:

Afternoon Session of the Day 3 of FDP is focused on “**ANTENNA ARRAYS AND APPLICATIONS**” by **Dr.V.Chitra**, Associate Professor /ECE, Sri Sairam Institute of Technology Chennai. The session is demonstrated the details about recent trends in Antenna and application with software. Feedback form in the Google is also provided for the participants to ask freely about their queries and doubts about the session and assignments.



  
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**Coimbatore-641 402**

#### Day 4 (21.07.2022) :

##### Session 1:

The program provides the detailed view about FILTER DESIGN by Mrs.C.Vanaja, Associate Professor /ECE, Paavai Engineering College, Namakkal. **Filter design** is the process of designing a signal processing filter that satisfies a set of requirements, some of which may be conflicting but adjusted to the design.

##### Session 2:

**RADIATION MECHANISMS AND DESIGN ASPECTS** is the topic handled by **Dr.S.Sangeetha**, Assistant professor, VIT, Vellore. Speaker added recent trends in radiation mechanisms with performance analysis of various design aspects. Her lecture not only includes the syllabus but also Design of antenna.

#### Day 5(22.07.2022):

##### Session 1:

**Dr.R.Rajkumar**, Assistant Professor from Siddhartha Institute of Science and Technology, Andhra Pradesh accepted to deliver his lecture in the topic of **PASSIVE AND ACTIVE MICROWAVE DEVICES**. The speech included O type device and M-Type devices. The concept behind the equation in microwave devices is the major idea of his speech.

##### Session 2:


**Dr.S.Logeshkumar**, Associate Program Head, Parihaa, Coimbatore shared his idea the role of Antenna in industry. Based on his experience, the speaker shared his suggestion regarding research in antenna design and simulation.

#### Outcome:

The participants should be able to

- i) Apply the basic principles and evaluate antenna parameters and link power budgets.
- ii) Design and assess the performance of various antennas and design a microwave system given the application specifications.



  
**PRINCIPAL**  
**RVS College of Engg. & Technology**  
**Coimbatore-641 402**

A Google form consist of question to check the understanding , analyzing , remembering new idea of the participants .Around 55 faculty members got benefitted by this FDP. Certificates are issued based on their test marks.

**Valedictory:**

Followed by test session, valedictory taken place **Mr.C.Dhamotharan**, Assistant professor/ECE delivered vote of thanks to the participants and resource person. Participants give positive feedback regarding quality of the FDP and content to the same. This FDP comes to end with National anthem.

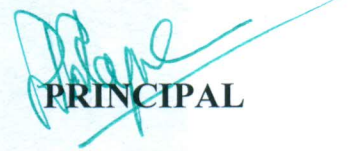
  
**CONVENOR**

Dr. N. Shanmuga  
Vadivu .



**CHAIRPERSON**

Head of the Department  
Department of ECE,  
RVS College of Engineering Technology,  
Coimbatore - 641 402.



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Coimbatore-641 402



Name	Email id	Designation	Were objectives of the Session clear to you?	FEEDBACK				What aspects of these lectures were most useful or valuable?	Any other suggestions
				Communication( Viz, delivery, pronunciation, modulation etc)	Were Session contents met your expectations	Would you Pursue Research in this Field	Did you have any technical difficulties participating in		
A.SILAMBARASAN	asilambarasan175@gmail.com	Assistant professor	Yes	Excellent	Yes	Yes	Yes	Useful	No
Inbavalli V P	inbavalli@gmail.com	Assistant professor	Yes	Excellent	Yes	Yes	No	-	-
Dr.B.SUGANTHI	Suganth.b@gmail.com	Associate Professor	Yes	Good	Yes	No	No	-	Good
Dr.B.SUGANTHI	Suganth.b@gmail.com	Associate Professor	Yes	Very good	Yes	No	No	-	Nice
SUGANYA M	sugvivi77@gmail.com	Assistant Professor	Yes	Very good	Yes	No	Yes	Valuable	No
Devipriya S	devipriyaselvamdd@gmail.com	Assistant Professor	Yes	Excellent	Yes	Yes	Yes	Valuable	Excellent
Dr.R.Pushpavalli	pushpahari882@gmail.com	Associate Professor	Yes	Excellent	Yes	No	No	Derivation aspect of lecture is very useful	
Abhinaya.M	jasmine.abinaya307@gmail.com	Assistant professor	Yes	Very good	Yes	No	Yes	Useful	Nil
P PERIYATHAMBI	ptguru1980@gmail.com	AP	Yes	Excellent	Yes	No	No	Antenna	Nothing
K. Maheshkumar	maheshkumarmtech@gmail.com	Assistant professor	Yes	Excellent	No	Yes	No	Valuable	
MOHANRAJ P	mohanraj@aaacet.ac.in	ASSISTANT PROFES	Yes	Very good	Yes	No	No	Valuable	Nil
Mr.C.Shanmugaraja	shanmugaraja0683@gmail.com	Assistant professor	Yes	Excellent	Yes	No	No	Valuable	Good
Dr. Vetriveeran Rajamani	vetriec86@gmail.com	ASSOCIATE PROFES	Yes	Excellent	Yes	Yes	No	Every part of lecture is	No suggestions.
MOHANRAJ P	mohanraj@aaacet.ac.in	ASSISTANT PROFES	Yes	Very good	Yes	No	No	Session was useful and	Good
Mr.C.Shanmugaraja	shanmugaraja0683@gmail.com	Assistant professor	Yes	Excellent	Yes	No	No	Useful in amplifier desi	Good
Dr Karthikeyan K	karthimems@gmail.com	Assistant Professor	Yes	Very good	Yes	Yes	No	technical	na
Dr Karthikeyan	karthimems@gmail.com	Assistant Professor EC	Yes	Very good	Yes	Yes	No	useful	na
MEIVEL S	meivel.embsys@gmail.com	Assistant professor	Yes	Excellent	Yes	Yes	Yes	Good presentation	Nil
MEIVEL S	meivel.embsys@gmail.com	Assistant professor	Yes	Very good	Yes	Yes	Yes	Good presentation	Nil
R.ARUL ARUMUGAM	arularumugam09@gmail.com	ASSISTANT PROFES	Yes	Excellent	Yes	Yes	No	Antenna	Excellent
P SASIKALA	sasini.karpagam@gmail.com	Assistant Professor	No	Excellent	Yes	Yes	Yes	All	Nil
P SASIKALA	sasini.karpagam@gmail.com	Assistant Professor	Yes	Excellent	Yes	Yes	Yes	All	Nil
Thirandasu bhavani	bhavanit409@gmail.com	Assistsnt professor	Yes	Very good	Yes	No	No	This session is very us	No
Dr.S.Vimalnath	s.vimal112@gmail.com	AP	Yes	Excellent	Yes	No	No	Yes	Nice session
Dr.B.Ramesh	mailrameshece@gmail.com	Associate Professor	Yes	Excellent	Yes	Yes	Yes	Good	Good
Dr.S.Vimalnath	s.vimal112@gmail.com	AP/ECE	Yes	Excellent	Yes	No	No	Yes	Nice
K Vijaipriya	k.vijaipriyaeece@gmail.com	Assistant Professor	Yes	Excellent	Yes	No	No	Useful	Informative session
P.Sivamani	sivamani.p@jit.ac.in	Associate Professor	Yes	Very good	Yes	No	No	Concept	Good
BHUVANESHWARI R	bhuvanaped2015@gmail.com	Assistant Professor	Yes	Excellent	Yes	Yes	No	To know the main conc	Good
Suseendhar P	suseendhar.paramasivam@kahedu.edu.in	Assistant Professor	Yes	Very good	Yes	Yes	No	Useful	Good
Arunadevi P	arunapothis@gmail.com	Assistant professor	No	Good	No	No	No	Useful	-
SUBASELVI S	subaselvis.ece@mkce.ac.in	Ph.D (thesis submitted)	Yes	Very good	Yes	Yes	No	Clear about the conce	NO
M.VENGATESHWARAN	mkvengatesh@gmail.com	Assistant Professor	Yes	Excellent	Yes	Yes	Yes	Good	Good
M.VENGATESHWARAN	mkvengatesh@gmail.com	Assistant Professor	Yes	Excellent	Yes	Yes	Yes	Good	Good
Dr SAHAYA SHEELA M	hisheelu@gmail.com	Associate Professor	Yes	Excellent	Yes	Yes	No	Impedance matching	No
Dr SAHAYA SHEELA M	hisheelu@gmail.com	Associate Professor	Yes	Excellent	Yes	Yes	No	Design of antennas	No



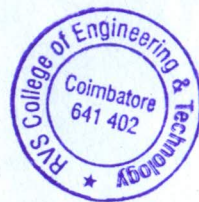
  
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 RVS College of Engg. & Technology  
 Coimbatore-641 402

Dr P.Ramesh Kumar	sprk2007@gmail.com	Dean(R&D)	Yes	Very good	Yes	Yes	No	Filter design	Nil
Jayapal N	jayapal385@gmail.com	Assistant professor	Yes	Excellent	Yes	Yes	Yes	Learning experience	Nil
Jayapal N	jayapal385@gmail.com	Assistant professor	Yes	Excellent	Yes	Yes	No	Nice experience	Nil
Dr.P.ELAYARAJA	sunandmun@gmail.com	Associate Professor	Yes	Excellent	Yes	Yes	No	Excellent	Nil
Dr.P.ELAYARAJA	sunandmun@gmail.com	Associate Professor	Yes	Excellent	Yes	Yes	Yes	Very nice	Nil
Baskaran M	baskaranmece@gmail.com	Assistant Professor	Yes	Excellent	Yes	No	No	Excellent Explanation	Very useful
Baskaran M	baskaranmece@gmail.com	Assistant Professor	Yes	Excellent	Yes	No	No	Explained concept clear	Very usefull
DENVAR PRAVIN JOY T	denvar12@gmail.com	Assistant Professor	Yes	Very good	Yes	Yes	Yes	All	No
DENVAR PRAVIN JOY T	denvar12@gmail.com	Assistant Professor	Yes	Very good	Yes	Yes	Yes	All	No
Sundar Ganesh C S	sundarganesh.cs@kce.ac.in	Assistant Professor	Yes	Excellent	Yes	No	No	To take class	Nil
Monikavishnuvarthini. A	monikaanandharaj1997@gmail.com	Assistant Professor	Yes	Very good	Yes	No	No	Able to know about the nil	
Monikavishnuvarthini. A	monikaanandharaj1997@gmail.com	Assistant Professor	Yes	Very good	Yes	Yes	No	By attend this season I nil	
ANANDKUMAR A	anandkumar.a88@gmail.com	Assistant Professor	Yes	Excellent	Yes	Yes	No		
Anand kumar A	anandkumar.a88@gmail.com	Assistant Professor	Yes	Very good	Yes	Yes	No		
Manimala P	gpmanimala96@gmail.com	Assistant Professor	Yes	Good	Yes	No	No	Very useful	Good presentation
Arunkumar Chandrasekhar	arunkumar.c@vit.ac.in	Assistant Professor Se	Yes	Excellent	Yes	Yes	Yes	Details about antennas	Good
Arunkumar Chandrasekhar	arunkumar.c@vit.ac.in	Assistant Professor Se	Yes	Excellent	Yes	No	No	Calculation and derivat	Good

*C. Phamotharan, AP/ECE*  
COORDINATOR

*[Signature]*  
HOD

Head of the Department  
Department of ECE,  
RVS College of Engineering Technology,  
Coimbatore - 641 402.



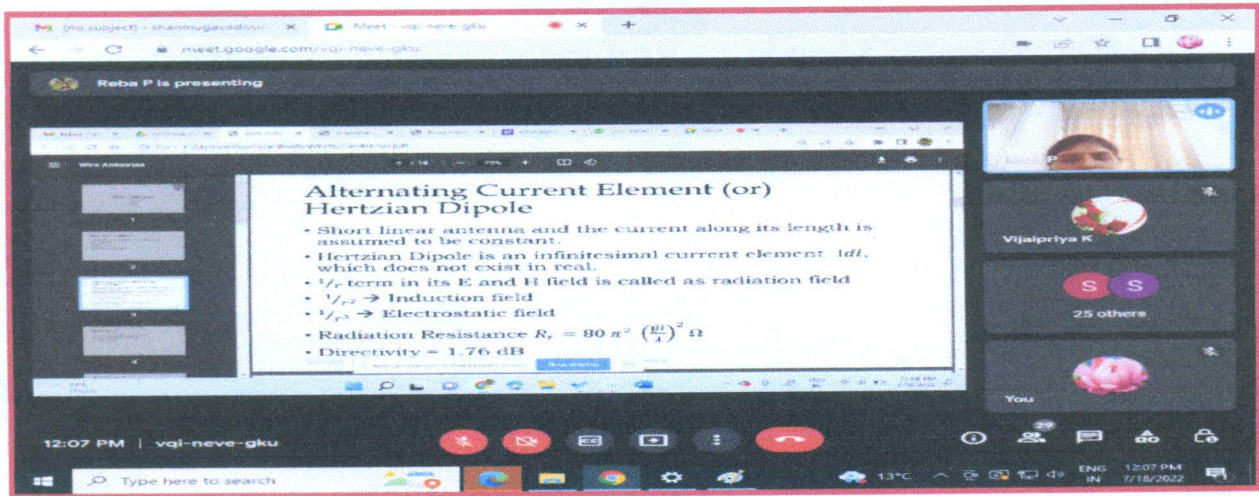
*[Signature]*  
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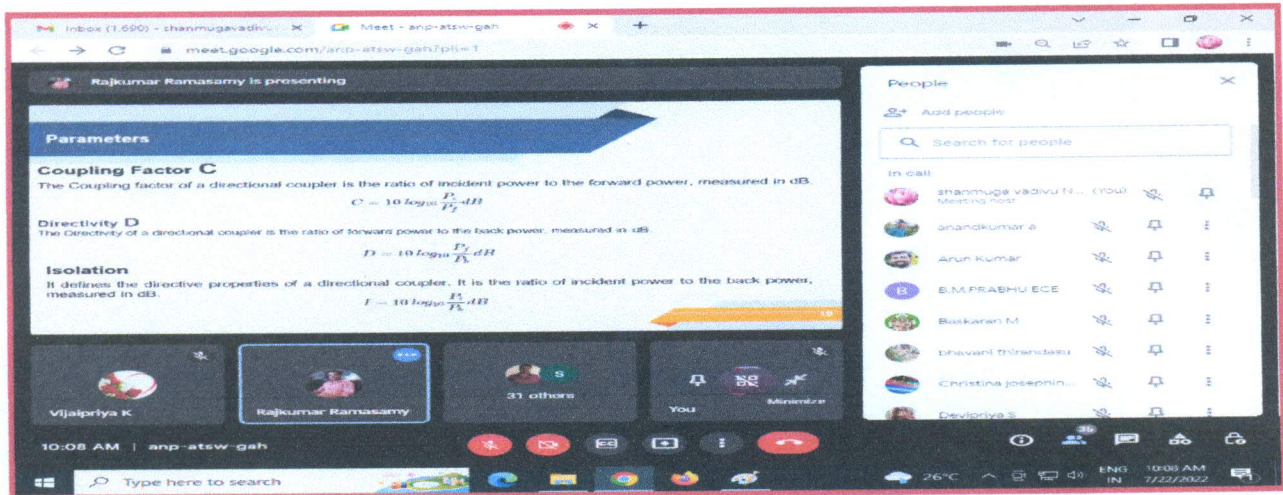
**EVENT PHOTOGRAPH**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Five days Faculty Development Program on  
**“EC8701 ANTENNAS AND MICROWAVE ENGINEERING”**  
 18<sup>th</sup> - 22<sup>th</sup> JULY, 2022



Discussion carried out on a online FDP on the topic Alternative Current Element by Dr. Reba on 18.07.2022



Discussion on coupling factor by Dr. R. Rajkumar in online FDP on 22.07.2022



*[Handwritten Signature]*  
**PRINCIPAL**

RVS College of Engineering & Technology  
 Coimbatore - 641 402

*[Handwritten Signature]*  
**Coordinator**

# FIVE DAYS ONLINE FDP ON EC 8701 ANTENNAS AND MICROWAVE ENGINEERING

## ATTENDANCE SHEET

Name	Email id	Designation	Were objectives of the Session clear to you?	FEEDBACK				What aspects of these lectures were most useful or valuable?	Any other suggestions
				Communication( Viz, delivery, pronunciation, modulation etc)	Were Session contents met your expectations	Would you Pursue Research in this Field	Did you have any technical difficulties participating in		
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Inbavalli V P	inbavalli@gmail.com	Assistant professor	Yes	Excellent	Yes	Yes	No	-	-
Dr.B.SUGANTHI	Suganth.b@gmail.com	Associate Professor	Yes	Good	Yes	No	No	-	Good
Dr.B.SUGANTHI	Suganth.b@gmail.com	Associate Professor	Yes	Very good	Yes	No	No	-	Nice
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Dr SAHAYA SHEELA M	hisheelu@gmail.com	Associate Professor	Yes	Excellent	Yes	Yes	No	Design of antennas	No

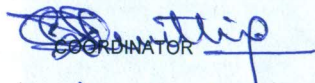


  
**PRINCIPAL**  
 RVS College of Engg. & Technology  
 Coimbatore-641 402

Dr P.Ramesh Kumar sprk2007@gmail.com  
 Jayapal N jayapal385@gmail.com  
 Jayapal N jayapal385@gmail.com  
 Dr.P.ELAYARAJA sunandmun@gmail.com  
 Dr.P.ELAYARAJA sunandmun@gmail.com  
 Baskaran M baskaranmece@gmail.com  
 Baskaran M baskaranmece@gmail.com  
 DENVAR PRAVIN JOY T denvar12@gmail.com  
 DENVAR PRAVIN JOY T denvar12@gmail.com  
 Sundar Ganesh C S sundarganesh.cs@kce.ac.in  
 Monikavishnuvarthini. A monikaanandharaj1997@gmail.com  
 Monikavishnuvarthini. A monikaanandharaj1997@gmail.com  
 ANANDKUMAR A anandkumar.a88@gmail.com  
 Anand kumar A anandkumar.a88@gmail.com  
 Manimala P gpmanimala96@gmail.com  
 Arunkumar Chandrasekhar arunkumar.c@vit.ac.in  
 Arunkumar Chandrasekhar arunkumar.c@vit.ac.in

Dean(R&D)	Yes	Very good	Yes	Yes	No
Assistant professor	Yes	Excellent	Yes	Yes	Yes
Assistant professor	Yes	Excellent	Yes	Yes	No
Associate Professor	Yes	Excellent	Yes	Yes	No
Associate Professor	Yes	Excellent	Yes	Yes	Yes
Assistant Professor	Yes	Excellent	Yes	No	No
Assistant Professor	Yes	Excellent	Yes	No	No
Assistant Professor	Yes	Very good	Yes	Yes	Yes
Assistant Professor	Yes	Very good	Yes	Yes	Yes
Assistant Professor	Yes	Excellent	Yes	No	No
Assistant Professor	Yes	Very good	Yes	No	No
Assistant Professor	Yes	Very good	Yes	No	No
Assistant Professor	Yes	Very good	Yes	Yes	No
Assistant Professor	Yes	Excellent	Yes	Yes	No
Assistant Professor	Yes	Very good	Yes	Yes	No
Assistant Professor	Yes	Good	Yes	No	No
Assistant Professor Se	Yes	Excellent	Yes	Yes	Yes
Assistant Professor Se	Yes	Excellent	Yes	No	No


Filter design	Nil
Learning experience	Nil
Nice experience	Nil
Excellent	Nil
Very nice	Nil
Excellent Explanation	Very useful
Explained concept clea	Very usefull
All	No
All	No
To take class	Nil
Able to know about the nil	
By attend this season I nil	
Very useful	Good presentation
Details about antennas	Good
Calculation and derivat	Good

  
 COORDINATOR  
 C. Phamothasan, AP/ECE

  
 HOD

Head of the Department  
 Department of ECE,  
 RVS College of Engineering Technology,  
 Coimbatore - 641 402.



  
 PRINCIPAL  
 RVS College of Engg. & Technology  
 Coimbatore-641 402

# RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

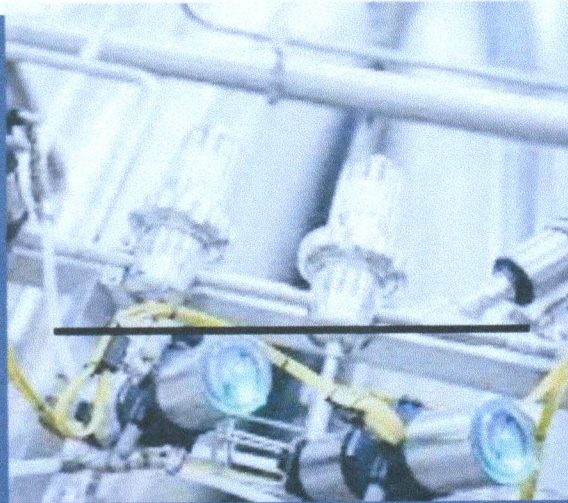
DEPARTMENT OF  
PETROCHEMICAL ENGINEERING

**Organizing**

ONLINE SIX DAYS FDP ON  
CH8653 - PROCESS  
INSTRUMENTATION, DYNAMICS  
AND CONTROL



AUGUST  
22nd -27th , 2022



Session 1 : 10:30 am to  
12pm  
Session 2 : 2.30pm to  
4 pm

**Coordinator**

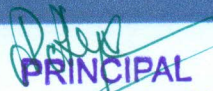
**Dr.B. Vijaya Kumar/AP**

Registration Link

<https://forms.gle/QcKuZdF5QP4QugWs7>

**LAST DAY OF REGISTRATION  
20.08.2022**



  
**PRINCIPAL**  
RVS College of Engineering & Technology  
Coimbatore - 641 402

Date: 16.08.2022

From,

Dr. B. Vijaya Kumar  
Assistant Professor  
Department of Petrochemical Engineering,  
RVSCET  
Coimbatore – 641402

To

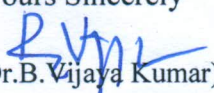
The Principal  
RVSCET  
Coimbatore – 641402

Respected Sir

Sub: Requisition to Organize ONLINE FDP – reg

I am indeed informing you that an **Online six days Faculty Development Program on the course Process Instrumentation, Dynamics and Control** is planned from 22<sup>nd</sup> to 27<sup>th</sup> August 2022. So kindly provide the approval for conducting the program.

Thank You

Yours Sincerely  
  
(Dr.B.Vijaya Kumar)



  
PRINCIPAL  
RVS College of Engineering & Technology  
Coimbatore - 641 402



## RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

KumaranKottam Campus, Kannampalayam (Po), Coimbatore – 641 402  
( Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

NAAC Accredited and ISO 21001:2018 certified Institution,





Ref: RVSCET/PCE/CIR I/2022-23/

### CIRCULAR

Date: 18.08.2022

We are pleased to inform you that Department of Petrochemical Engineering is organizing an **Online Six day Faculty Development Program on the course “CH8653 PROCESS INSTRUMENTATION, DYNAMICS AND CONTROL” from 22<sup>nd</sup> August - 26<sup>th</sup> August 2022.** In this regards, I request the Heads of the department to circulate the circular to their respective faculty members.

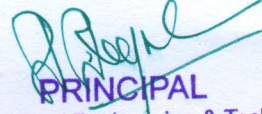
  
FDP Coordinator  
CDr. B. Vijay Kumar

  
HoD  
CDr. R. KANNAN

### Copy to

- 1) Advisor
- 2) Principal
- 3) IQAC
- 4) AO
- 5) All HoD's
- 6) Notice Board



  
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RVS College of Engineering & Technology  
Coimbatore - 641 402





**RVS COLLEGE OF ENGINEERING ANF TECHNOLOGY**  
**DEPARTMENT OF PETROCHEMICAL ENGINEERING**  
**ONLINE SIX DAY FDP on CH8653 PROCESS INSTRUMENTATION, DYNAMICS AND CONTROL**



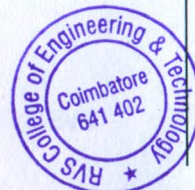
Duration: 1Hr 30 Min

**PROGRAMME SCHEDULE**

(22.08.2022 to 27.08.2022)

Day	Session 1 10.30 a.m. to 12 p.m.	Session 2 2:30 p.m. to 4 p.m.
<b>Day- 1</b> 22.08.2022 (Monday)	First order systems and their transient response for standard input functions, first order systems in series.  <b>Dr. Nitu Kumari</b> Assistant Professor (Sr. G.) Department of Chemical Engineering KPR Institute of Engineering and Technology	Laplace transformation and its application in process control.  <b>Dr. Nitu Kumari</b> Assistant Professor (Sr. G.) Department of Chemical Engineering KPR Institute of Engineering and Technology Coimbatore
<b>Day- 2</b> 23.08.2022 (Tuesday)	Principles of measurements and classification of process instruments  <b>Dr. P. Sivakumar</b> Associate Professor School of Petroleum Technology Pandit Deendayal Energy University, Gujarat	Closed loop control systems  <b>Dr. Nitu Kumari</b> Assistant Professor (Sr. G.) Department of Chemical Engineering KPR Institute of Engineering and Technology Coimbatore
<b>Day- 3</b> 24.08.2022 (Wednesday)	Development of block diagram for feed-back control systems.  <b>Dr. R. Bala Subramanian</b> Assistant Professor School of Petroleum Technology	Principles of measurements and classification of process instruments  <b>Dr. P. Sivakumar</b> Associate Professor School of Petroleum Technology

**Lunch Break**



  
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	Gujarat		
Day- 4 25.08.2022 (Thursday)	Advanced Control Schemes a) Feed forward b) ratio control. control of distillation towers and heat exchangers.  <b>Dr. Seshagiri Rao Ambati,</b> Associate Professor Department of Chemical Engineering National Institute of Technology Warangal	Measurement of, fluid flow, liquid weight, weight flow rate.  <b>Dr. P. Sivakumar</b> Associate Professor School of Petroleum Technology Pandit Deendayal Energy University, Gujarat	
Day- 5 26.08.2022 (Friday)	Measurement of pressure, temperature, viscosity, pH, concentration, electrical and thermal conductivity, humidity of gases  <b>Dr. R. Bala Subramanian</b> Assistant Professor School of Petroleum Technology Pandit Deendayal Energy University, Gujarat	Control systems with multiple loops  <b>Dr. R. Bala Subramanian</b> Assistant Professor School of Petroleum Technology Pandit Deendayal Energy University, Gujarat	
Day- 6 27.08.2022 (Saturday)	Test for Participants	Group Discussion	

Coordinator

HOD



PRINCIPAL

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Coimbatore - 641 402

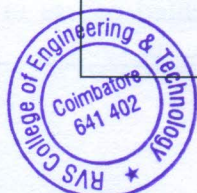


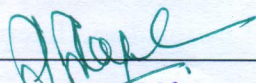
**RVS COLLEGE OF ENGINEERING AND TECHNOLOGY**  
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Kumaran Kottam Campus, Kannampalayam (Po),Coimbatore – 641 402



### PROFILE OF THE RESOURCE PERSON

S.No	Name of the Resource Person	Designation
1	Dr. Seshagiri Rao Ambati,	<p>Associate Professor Department of Chemical Engineering National Institute of Technology Warangal</p> <p>Education: Ph.D. - Indian Institute of Technology (IIT) Madras, Chennai (2007). M.Tech. - Indian Institute of Technology (IIT), Banaras Hindu University, Varanasi (2003). B.Tech. - Jawaharlal Nehru Technological University (JNTU), Hyderabad (2000)</p> <p>Research Interest: Process Control – Model based Control, Unstable Systems, Reinforcement Learning based control, Nonlinear control, Fractional order Controller Design, Process Dynamics – Nonlinear Dynamics and Analysis, Bifurcation</p> <p>Awards &amp; Honors Young Researcher Award from NIT Warangal for the year 2019 Indian National Academy of Engineering (INAE) Young Engineer Award, 2014 Indian Institute of Chemical Engineers (IIChe) Ame Dye-Chem Award for Excellence in Research and Development, 2014 Best teacher award from NIT, Tiruchirappalli for the year 2009 Invited workshop organizer at IFAC world congress, South Korea, 2008 Member of IFAC TC 2.1 Control Design (2020 - ) Executive member, Advanced Control and Dynamic Optimization (ACODS) Society (2020 - )</p>
2	Dr. Nitu Kumari	<p>Assistant Professor (Sr. G.)</p> <p>Department of Chemical Engineering KPR Institute of Engineering and Technology Dr. Nitukumari completed her PhD in Chemical Engineering, 2019, Sardar Vallabhbhai National</p>



  
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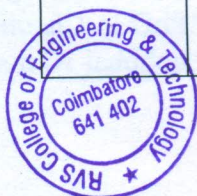
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		<p>Institute of Science &amp; Technology, Surat (Gujarat), M. Tech in Chemical Engineering, 2013, B.I.T Sindri, Dhanbad (Jharkhand), B.E in Chemical Engineering, 2009, B.I.T Sindri, Dhanbad (Jharkhand). Research area towards Energy Conversion and Storage Technologies, Green Synthesis of Nanomaterials. Regarding publication, she has published 8 research articles in the reputed journals and presented 6 papers in national and international conferences.</p>
3	Dr. P. Sivakumar	<p>Associate Professor School of Petroleum Technology, Pandit Deendayal Energy University, Gujarat</p> <p>Dr. P. Sivakumar having 12 Years of Teaching Experience from various institutions and three years of industry experience. Completed his undergraduate from Anna University in the field of Chemical Engineering in the year 2006, post graduate from Anna University in the field of Petroleum Refining and Petrochemicals in the year 2010 and Doctorate from Anna University in the field of Chemical Engineering in the Year 2012 with highly recommended class. Currently working in Pandit Deendayal Petroleum University, Gujarath. His research area in the field of Energy and Biofuels.</p>
4	Dr. R. Bala Subramanian	<p>Assistant Professor, School of Petroleum Technology</p> <p>Pandit Deendayal Energy University, Gujarat</p> <p>Dr. R. Bala Subramanian holding 10 years of teaching experience from JCT College of Engineering and Technology, Coimbatore and currently working in Pandit Deendayal Petroleum University, Gujarath. He has completed his Doctorate degree from Pandit Deendayal Petroleum University in the year 2020, Mater degree from Anna University in the field of Petroleum Refining and Petrochemicals in the year 2012, Bachelor degree from Kongu Engineering College, Erode in the field of Chemical Engineering in the year 2010. He has published nearly 10 research article in the reputed journals as well as presented papers in national and International conferences.</p>



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**Date: 31.08.2022**

**Report on the Online Six days FDP on  
“CH8653 - PROCESS INSTRUMENTATION, DYNAMICS  
AND CONTROL”**

The department of Petrochemical Engineering organized an online Six days Faculty development program on the course “CH8653 – Process Instrumentation, Dynamics and Control ” from 22.08.2022 to 27.08.2022. The Resource persons are Dr. Seshagiri Rao Ambati, Associate Professor, Department of Chemical Engineering, NIT Warangal, Dr. P. Sivakumar, Associate Professor, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, Dr. R. Bala Subramanian, Dr. Nitu Kumari, Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore.

The welcome address was given by Dr. Kannan, Professor, Department of Petrochemical Engineering, RVS College of Engineering and Technology, Coimbatore. The introduction speech about the resource person was given by Mr. B. Vijaya Kumar, Assistant Professor.

**Dr. Nitu Kumari** handled forenoon session 1 on 22.08.2022 (Monday) from 10:30 am to 12 pm on the topic Laplace transformation and its application in process and control. The basic concept pertaining to laplace transform and its importance in the area of process control was explained with day to day applications in a understandable way. During her session 22 faculty members were present and at the end for the session interaction took place , Dr. A.S Arunprasad asked a question to the speaker regarding, how this application is suitable in the mass transfer operation.

**Dr. P. Sivakumar** handled the afternoon session 2 on 22.08.2022 (Monday) from 2:30 pm to 4:00 pm on the topic Principles of measurements and classification of process instruments. The resource person briefed about the different measuring

  
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instruments briefly by showing short videos of how the measurement of the process variables are measured. The session undergone with 21 faculty members.

**Dr. Nitu Kumari** handled the fore noon session 3 on 23.08.2022 (Tuesday) from 10:30 am to 12:00 pm on the topic closed loop control systems. The controlling action which taking place in a closed loop was briefly explained with many examples. As well regarding servo and regulator problems were also discussed. Totally 22 faculty members were present for the session.

**Dr. P. Sivakumar** handled the afternoon session 4 on 23.08.2022 (Tuesday) from 02:30 am to 04:00 pm on the topic Measurement of, fluid flow, liquid weight, and weight flow rate. The discussion was carried out on the measurement of fluid flow and its behavior during the operations. Totally 16 faculty members were present for the session.

**Dr. Nitu Kumari** handled the fore noon session 5 on 24.08.2022 (Wednesday) from 10:30 am to 12:00 pm on the topic Similitude – relationship between dimensional analysis and similitude. She explained about the different types of similitude and its applications over developing a model and prototype. Totally 10 faculty members were present for the session.

**Dr. P. Sivakumar** handled the afternoon session 6 on 24.08.2022 (Wednesday) from 02:30 am to 04:00 pm on the topic Reynolds number regimes, internal flow – flow through pipes – pressure drop under laminar and turbulent flow conditions. He described about the nature of fluid flow occurrence (laminar flow and turbulent flow) with the Reynolds experiments. The flow of fluid inside a pipes and its pressure drop under laminar and turbulent flow conditions. Totally 21 faculty members were present for the session.

**Dr. Seshagiri Rao Ambati**, handled the fore noon session 7 on 25.08.2022 (Thursday) from 10:30 am to 12:00 pm on the topic Advanced Control Schemes a) Feed forward b) ratio control, control of distillation towers and heat exchangers. The session was started with by explaining about the advanced control and special cases of multi-loop



  
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control systems., followed by applications of CSTR. Totally 18 faculty members were present for the session.

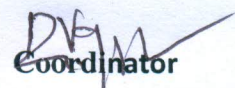
**Dr. R. Bala Subramanian** handled the afternoon session 8 on 25.08.2022 (Thursday) from 02:30 am to 04:00 pm on the topic Flow measurement – constant and variable head meters, velocity measurement techniques. He gave away a detailed explanation about the different types flow measurements and its application in various industries. Totally 20 faculty members were present for the session.

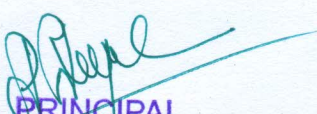
**Dr. R. Bala Subramanian** handled the fore noon session 9 on 26.08.2022 (Friday) from 10:30 am to 12:00 pm on the topic Performance and characteristics and sizing of pumps. The performance and the characteristics of different types of pump were explained in smoother manner. Totally 22 faculty members were present for the session.

**Dr. R. Bala Subramanian** handled the afternoon session 10 on 26.08.2022 (Friday) from 02:30 am to 04:00 pm on the topic Major and minor losses, line sizing. He provided the information regarding the energy loss during the flow through pipe, that too in turbulent conditions. Totally 10 faculty members were present for the session.

The votes thanks was given by Mr. N. Araindh, Assistant Professor, Department of Petrochemical Engineering, RVS College of Engineering and Technology, Coimbatore. He thanked the management persons, Principal, Administrative officer, Head of the department, Resource persons and all the participants from various institutions.



  
Coordinator

  
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## PHOTOGRAPHY OF THE EVENT

### DEPARTMENT OF PETROCHEMICAL ENGINEERING

**ONLINE SIX DAYS FDP ON CH8653-PROCESS INSTRUMENTATION DYNAMICS AND CONTROL FROM 22<sup>ND</sup> AUG TO 27<sup>TH</sup> AUG 2022**

**Cascade Control Strategy**

A cascade control configuration ensures rapid response to variations in  $T_c$  as well as in  $T_r$ .

The reactor temperature controller provides the set-point for the coolant temperature controller.

Feed ( $F_r, T_r$ )

Product ( $F, T$ )

Coolant ( $F_c, T_c$ )

CSTR

10:49 AM | vrw-irjz-oqk

Dr. Seshagiri Rao Ambati , Associate Professor from Department of Chemical Engineering, NIT Warangal gave away a lecture on the title “Advanced control scheme” on the 4<sup>th</sup> day (25.08.2022) of the FDP program .

**Example- Distillation Column**

Problem: Maintain desired top tray temperature  $T_n$  in the presence of disturbances in reflux flow rate  $F_R$  as well as variations in column pressure.

11:21 AM | vrw-irjz-oqk

Dr. Seshagiri Rao Ambati , Associate Professor from Department of Chemical Engineering, NIT Warangal gave away a lecture on the title “Distillation towers and heat exchangers” on the 4<sup>th</sup> day (25.08.2022) of the FDP program

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**RVS COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF PETROCHEMICAL ENGINEERING**  
**ONLINE SIX DAYS FACULTY DEVELOPMENT PROGRAM ON**  
**CH8653 - PROCESS INSTRUMENTATION DYNAMICS AND CONTROL**  
**ATTENDANCE SHEET FOR THE ONLINE FDP PROGRAM**

S.No	Name of the Participants	Day 1 (22.08.2022)	Day 2 (23.08.2022)	Day 3 (24.08.2022)	Day 4 (25.08.2022)	Day 5 (26.08.2022)	Day 6 (26.08.2022)
1	Selvaprakash P	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
2	Ms. B.Sindhu	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
3	Dr. A. Balasubramanian	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
4	Dr. M. Hemalatha	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
5	Dr.K.Balasubramani	PRESENT	PRESENT	ABSENT	PRESENT	PRESENT	PRESENT
6	G MAHENDRAN	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
7	Purushothaman V	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
8	R.Vivekanandan	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
9	K. Kaviyan	PRESENT	ABSENT	PRESENT	PRESENT	PRESENT	PRESENT
10	Murugesan K	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
11	Dr. B. Vijaya Kumar	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
12	Dr R.Perumal	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
13	Dr.T.Usharani	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT
14	Gangatharan R	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT	PRESENT
15	Dr. Nitu Kumari	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
16	Dr.M.Aynul rifaya	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
17	Kavin. G	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
18	Gokila S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
19	Dr. A.S. ArunPrasad	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
20	Gowsalya S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
21	Dr. Saravanan S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
22	Megala	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
23	Dr.J.Saravanan	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
24	Dr Hariharan Thangappan	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
25	Dr.P.Senthilkumar	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
26	ASWATHTHAMAN.T.R	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT
27	Dr. R. Kannan - PCE	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
28	Mr. N.Aravindh	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
29	Ms. A. Silvy A numegalai	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT

  
**Coordinator**



  
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**Coimbatore - 641 402**

  
**HoD**

**Dr. R.KANNAN, A.M.I.E., M.Tech., Ph.D.,**  
**Professor & Head**  
**Department of Petrochemical Engineering**  
**RVS College of Engineering and Technology**  
**Sulur, Coimbatore - 641 402**

**RVS COLLEGE OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF PETROCHEMICAL ENGINEERING  
ONLINE SIX DAYS FACULTY DEVELOPMENT PROGRAM ON  
CH8653 - PROCESS INSTRUMENTATION DYNAMICS AND CONTROL  
FEEDBACK SHEET FOR THE ONLINE FDP PROGRAM**

S.No	Name of the Participants	Name of the Institution	Designation	The course contents met with your expectations	The lecture sequence was well planned	The course exposed you to new knowledge and practices	The lectures were clear and easy to understand	What do you think were the weaknesses of this training?	What do you think were the strengths of this training?	Any additional comments or suggestions?
1	Selvaprakash P	Erode sengunthar engineering college	AP	Agree	Strongly agree	Strongly agree	Strongly agree	NO	YES	NO COMMENTS
2	Dr.B. Vijaya Kumar	RVS College of Engineering and Technology, Coimbatore	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
3	Dr. A. Balasubramanian	Saveetha Engineering College	Associate Professor	Strongly agree	Strongly agree	Agree	Strongly agree	No	Accepted	NO COMMENTS
4	Dr. M. Hemalatha	Saveetha Engineering College	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
5	Dr.K.Balasubramani	Hindustan college of Engineering and Technology, Coimbatore	Associate professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
6	G MAHENDRAN	Easa College of Engineering and Technology, Coimbatore	Associate Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
7	Purushothaman V	JCT college of engineering and technology	Assistant professor	Strongly agree	Strongly agree	Agree	Strongly agree	No	Accepted	NO COMMENTS
8	R.Vivekanandan	AAMEC	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
9	K. Kaviyan	DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE	Engineering	Strongly agree	Strongly agree	Strongly agree	Agree	No	Accepted	NO COMMENTS
10	Murugesan K	KPK Institute of Engineering and Technology, Coimbatore	Assistant Professor, Sr. Grade	Agree	Agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
11	Dr R.Perumal	Erode Sengunthar Engineering College	Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
12	Dr.T.Usharani	Erode Sengunthar Engg College	Associaye Professor	Strongly agree	Strongly agree	Strongly agree	Agree	No	Accepted	NO COMMENTS
13	Gangatharan R	Dhanalakshmi Srinivasan Engineering college	Assistant Professor	Agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS



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14	Dr. Nitu Kumari	KPRIET, Coimbatore	Assistant Professor	Strongly agree	Strongly agree	Agree	Strongly agree	No	Accepted	NO COMMENTS
15	Dr.M.Aynul rifaya	Erode sengunther engineering college DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE	Assistant professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
16	Kavin. G		B. Tech	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
17	Gokila S	Erode sengunthar engineering college	Assistant professor	Agree	Strongly agree	Agree	Strongly agree	No	Accepted	NO COMMENTS
18	Gowsalya S	VSB engineering college Karur	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
19	Dr. Saravanan S	VSB Engineering College, Karur	Associate Professor	Strongly agree	Strongly agree	Agree	Strongly agree	No	Accepted	NO COMMENTS
20	Megala	MVJ college of engineering	Assistant professor	Agree	Strongly agree	Strongly agree	Strongly agree	NO	YES	NO COMMENTS
21	Ms. B.Sindhu	RVS College of Engineering and Technology, Coimbatore	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	NO	YES	NO COMMENTS
22	ASWATHTHAMAN.T.R	EASA college of engineering and technology KVS College of Engineering and Technology, Coimbatore	Assistant professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
23	Mr. N.Aravindh		Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	NO	YES	NO COMMENTS
24	Ms. A. Silvy Anumegalai	RVS College of Engineering and Technology, Coimbatore	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	NO	YES	NO COMMENTS
25	Dr.J.Saravanan	Mohamed Sathak Engineering College	Assistant Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	NO	YES	NO COMMENTS
26	Dr Hariharan Thangappan	Mohamed Sathak Engineering College, Keelakarai	Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
27	Dr.P.Senthilkumar	Saveetha Engineering College, Thandalam	Associate Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS
28	Dr. R. Kannan - PCE	RVS College of Engineering and Technology, Coimbatore	Professor	Strongly agree	Strongly agree	Strongly agree	Strongly agree	No	Accepted	NO COMMENTS

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COORDINATOR



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HoD  
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Department of Electrical and Electronics Engineering

A Five-Day Online Faculty Development Program on “Emerging Technologies in Renewable Energy for Sustainable Development”

(23<sup>rd</sup> – 27<sup>th</sup> August, 2022)

Registration Details

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Department of Electrical and Electronics Engineering

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(23<sup>rd</sup> – 27<sup>th</sup> August, 2022)

Feedback

Email Address	Title	Name	Institution / Organization	How would you rate the event organization?	How informative did you find Day -2 session-4 ?	How clear were the ideas and concepts we presented?	Was the subject matter of this session too simple, too involved, or just right?	Overall how satisfied were you with Day-2 session-4?	Do you have any other comments or feedback?
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febindaya.jl@vit.ac.in	Dr.	Febin Daya J L	VIT	Very Good	Very informative	Very clear	Just right	Satisfied	Good
pands07@kluniversity.	Dr.	A. PANDIAN	Koneru Lakshmaiah Ed	Excellent	Extremely informative	Very clear	Just right	Very Satisfied	good
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karthikeyan249@gmail	Mr.	KARTHIKEYAN J	KONGUNADU COLLE	Very Good	Very informative	Extremely clear	A little simple	Satisfied	INFORMATIVE S
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## ABOUT THE INSTITUTION

RVSCET approved by AICTE and affiliated to the Anna University, Chennai is marching towards a new era in education was established in the year 2007 by our Chairman Dr. K. V. KUPUSAMY, and the college has attained the role of "Holistic Education" right from the start. The college is located 14 kms away from the cotton city of Coimbatore, Tamil Nadu spread over a sprawling campus area of 200 acres bordered by the serene beauty of Southern India. RVS is well connected by buses moving to various places in propinquity. RVS is attaining eminence as the favorite target for Engineering Education, for its immaculate infrastructure, outfitted with the best of facilities over a rambling campus area. Various courses offered are B.E. in CSE, ECE, EEE, MECH, PCE, and B.Tech in AI & DS, M.E(EST), M.E (CS), M.E (CSE) and M.E (Thermal).

## ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering of the RVSCET offers programmes leading to Bachelor's Degree, Master's Degree as well as Ph.D. The four year undergraduate programme leads to the Bachelor of Engineering (B.E) degree in Electrical and Electronics Engineering. Specialization for the Master's level programmes is Embedded System Technologies. The research programme in Electrical Engineering, Control Systems and other related areas leads to the Ph.D. Degree. In addition to these regular programmes, this department is also actively involved in conducting faculty development programmes, short-term training programmes for engineering professionals and academic faculty in association with foreign universities. The laboratories and research facilities in the Department are well maintained and regularly updated. Members of the faculty are actively involved in sponsored research and consultancy works.



## Chief Patron

Vijayasree Dr. K. V. Kupusamy,

Chairman

## Patron

Dr. P.Rajendran

Principal

## Convener

Dr. S. S. Sivaraju

Professor and Head-EEE

## Co-Convener

Dr. K. Thangarajan

Associate Professor-EEE

## Co-ordinator

Dr. L. Senthil Murugan

Assistant Professor-EEE

## Important Date

Last date for registration: August 10, 2022

## Contact Us

Dr. L. Senthil Murugan, Assistant Professor

Department of Electrical and Electronics Engineering

RVS College of Engineering and Technology

Kumaran Kottam Campus, Kannampalayam - 641402.

Coimbatore, Tamilnadu.

Mobile: +(91) 9791904645/9994155785

[senthilmurugan@rvsgroup.com](mailto:senthilmurugan@rvsgroup.com)

## Five day Online Faculty Development Program

(FDP)

on

## “EMERGING TECHNOLOGIES IN RENEWABLE ENERGY FOR SUSTAINABLE DEVELOPMENT”

August 23-27, 2022

Organized by

Department of Electrical and Electronics Engineering

RVS College of Engineering and Technology, India

In Association with

Universiti Teknologi MARA (UiTM), Malaysia



Department of Electrical and Electronics Engineering

RVS College of Engineering and Technology

Kumaran Kottam Campus, Kannampalayam - 641402.

Coimbatore, Tamilnadu, India

  
PRINCIPAL

RVS College of Engg. & Technology  
Coimbatore-641 402

## ABOUT FDP

Energy is the driving force behind all economic activities. Consequently the ever increasing population and associated energy requirements to meet the increasing living standard has become a matter of great concern. In particular availability of suitable and sufficient development of environmental friendly utilization technologies and the cost of energy have been extremely important factors needing immediate attention. The aim of this FDP is to impart research skills to the beginners, improve the quality of research among the existing researchers in the area of renewable energy and to give a brief knowledge about harnessing renewable energy. This FDP will bring a positive transformation among the faculty members towards research work and enable the participants to develop competence in understanding recent advances in renewable energy systems.

## TOPICS TO BE COVERED

- Recent advances in Solar photovoltaic Energy conversion
- Challenges in Solar cooling and power generation
- Design and installation of solar photovoltaic systems
- Wind power forecasting and energy conversion
- Recent developments in Ocean thermal energy conversion
- Advancements in E-vehicles
- Green buildings for sustainable development
- Research challenges in Solar Thermal Energy Storage
- Numerical Modeling of a Photo Voltaic Thermal (PV/T) System
- Computational modeling of energy systems

## RESOURCE PERSONS

23<sup>rd</sup> August, 2022, Session 1

Dr. Mohd Najib Mohd Hussain, M.E., Ph.D.,  
Solar Research Institute (SRI)  
UiTM, Malaysia



23<sup>rd</sup> August, 2022, Session 2

Dr. Baljit Singh, MSc., Ph.D.,  
Solar Research Institute (SRI)  
UiTM, Malaysia



24<sup>th</sup> August, 2022, Session 1

Dr.C.Thangaraj, M.E., Ph.D.,  
IIT Roorkee, India



24<sup>th</sup> August, 2022, Session 2

Dr. Kumaravel S, M.E.,Ph.D.,  
NIT Calicut, India



25<sup>th</sup> August, 2022, Session 1

Kanasottu Anil Naik, M.Tech., Ph.D.,  
NIT, Warangal, India



25<sup>th</sup> August, 2022, Session 2

Dr. Sankar Peddapati, M.Tech, Ph.D.,  
NIT, Andhra Pradesh, India



## RESOURCE PERSONS

26<sup>th</sup> August, 2022, Session 1

Dr.K Palanisamy, M.E., Ph.D.,  
VIT, Vellore India



26<sup>th</sup> August, 2022, Session 2

Dr. Muhammad Murtadha Othman,  
UiTM, Malaysia



27<sup>th</sup> August, 2022, Session 1

Dr. Nurfadzilah Ahmad, M.Eng., Ph.D.,  
Solar Research Institute (SRI)  
UiTM, Malaysia



27<sup>th</sup> August, 2022, Session 2

Dr. Alhassan Salami Tijani,  
Solar Research Institute (SRI)  
UiTM, Malaysia



## TARGET AUDIENCE

Faculty Members of Engineering Colleges, Polytechnic Colleges, Scientists, Engineers from R&D organizations and industries

## REGISTRATION FEE

No Registration Fee

## REGISTRATION LINK

<https://forms.gle/7Vjndu75HcRKmxv89>

  
PRINCIPAL



RVS College of Engg. & Technology  
Combatore-641 402



Date: 10.08.2022

Coimbatore

From

Dr.S.S.Sivaraju,  
Professor & Head,  
Department of Electrical and Electronics Engineering,  
RVS College of Engineering and Technology,  
Coimbatore-641402.

To

The Accounts Manager  
RVS Educational Trust,  
Sulur, Coimbatore-641402.

Through

The Principal / AO,  
RVS College of Engineering and Technology,  
Coimbatore-641402.

**Sub: Requesting financial assistance for Faculty Development Program (FDP)-reg**

**Dear Sir/Madam**

As per Anna University Regulation 2017, Renewable Energy Systems is considered one of the significant and core subject of EEE. Our Institution is planning to conduct one week online Faculty Development Program (FDP) associate with Solar Research Institute, Universiti Teknologi MARA (UiTM), Malaysia (We have already signed MoU with this university) from 22.08.2022 to 26.08.2022.

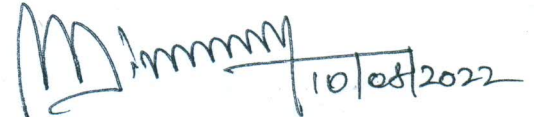
This is going to be a knowledge and idea exchange among our faculty members, outside experts and participants. In this regards, we have to provide a minimum remuneration to the resource person. We have invited resource person from IIT, NIT, VIT and Foreign University. Please sanction Rs.20,000/- ( Twenty Thousand Rupees Only ) to conduct FDP.

Thank You,

Yours Truly,


  
PRINCIPAL

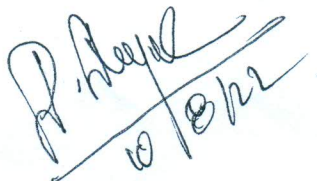
RVS College of Engineering & Technology  
Coimbatore - 641 402

  
10/08/2022

Dr. S. S. Sivaraju, M.E., Ph.D.,  
Professor & Head  
Electrical and Electronics Engineering  
RVS College of Engg. & Tech.  
Coimbatore-641 402

Forwarded

  
10/8/22  
L

  
10/8/22





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(Approved by AICTE and Affiliated to Anna University, Chennai)  
KumaranKottam Campus, Trichy Road, Kannampalayam, Coimbatore-641 402.  
Tele/ Fax: (0422) – 2688077, 2687877



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


Ref: EEE\FDP-1\2022-2023

Date: 04.08.2022

### Circular

Department of Electrical and Electronics Engineering, RVSCET in Association with UniversitiTeknologi MARA (UiTM), Malaysia is organizing a Five-Day Online Faculty Development Program on “**Emerging Technologies in Renewable Energy for Sustainable Development**” from 23<sup>rd</sup> – 27<sup>th</sup> August, 2022. The interested faculty members are requested to attend the same and share your knowledge with students.

**For more details, refer the attached brochure**

  
Coordinator

[Dr. L. Santosh Murgan]

Copy to:

1. Principal/ AO for kind information
2. Director-IQAC
3. All Dept. HoDs
4. File

  
HoD-EEE 4/8/2022

**Dr. S. S. Sivaraju, M.E., Ph.D.,**  
Professor & Head  
Electrical and Electronics Engineering  
RVS College of Engg. & Tech,  
Coimbatore-641 402

  
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Coimbatore-641 402

CSE



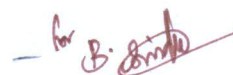
MECH



EEE



PCE



ECE



S&H



**Department of Electrical and Electronics Engineering-RVSCET and Associated with UiTM- Malaysia Organize  
Five Days Online Faculty Development Program(FDP)**

on

**“EMERGING TECHNOLOGIES IN RENEWABLE ENERGY FOR SUSTAINABLE DEVELOPMENT”**

**August 23-27, 2022- Resource Person Profile**

Date	Session 1 10.00am – 12.00 noon	Session 2 2.00pm – 4.00pm
23.08.2022	<b>Dr.MohdNajib Bin MohdHussain,</b> Senior Lecturer ,School of Electrical Engineering, Solar Research institute(SRI), UniversitiTeknologi MARA (UiTM), Pulau Pinang, Malaysia.	<b>Dr.Baljit Singh,</b> Associate Professor,School of Mechanical Engineering, Solar Research institute (SRI),UniversitiTeknologi MARA, Malaysia.
24.08.2022	<b>Dr.C.Thangaraj,</b> Associate Professor, Water Resources Development and Management,Indian Institute of Technology Roorkee, Roorkee, Uttar Pradesh, India.	<b>Dr. Kumaravel. S,</b> Assistant Professor-EEE, National Institute of Technology, Kozhikode,Kerala,India
25.08.2022	<b>Dr. K Palanisamy,</b> Deputy Director- EM and NP, Vellore Institute of Technology, Vellore,Tamilnadu, India.	<b>Dr. SankarPeddapati</b> Assistant Professor, Electrical Engineering Department National Institute of Technology Andhra Pradesh
26.08.2022	<b>Dr.Kanasottu Anil Naik,</b> Assistant Professor Department of Electrical Engineering, National Institute of Technology, Warangal, Telangana, India.	<b>Green Buildings for Sustainable Development</b> <b>Dr.MuhammadMurtadha Othman</b> Faculty of Electrical Engineering, UniversitiTeknologi MARA, Malaysia
27.08.2022	<b>Dr.Nurfadzilah Ahmad,</b> Head of Strategic and Corporate, Solar Research Institute (SRI) UniversitiTeknologi MARA (UiTM), Malaysia	<b>Dr.IngAlhassan Salami Tijani,</b> School of Mechanical Engineering,Solar Research institute (SRI), UniversitiTeknologi MARA, Shah Alam, Selangor, Malaysia.



  
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Coimbatore-641 402

  
**Dr. S. S. Sivaraju, M.E., Ph.D.,**  
Professsor & Head  
Electrical and Electronics Engineering  
RVS College of Engg. & Tech.  
Coimbatore-641 402



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KumaranKottam Campus, Trichy Road, Kannampalayam, Coimbatore-641 402.



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Report of Five-Day Online Faculty Development Program on  
**“Emerging Technologies in Renewable Energy for Sustainable Development”**

Event Type: Online Faculty Development Program (FDP)  
Program Date / Duration : 23<sup>rd</sup> – 27<sup>th</sup> August, 2022/(Five Days)  
No. of Participants: 72  
Organizers: **Department Electrical and Electronics Engineering, RVSCET,  
Coimbatore, India**  
&  
**Solar Research Institute, Universiti Teknologi MARA (UiTM),  
Malaysia.**

**Objective of the event:**

The main objective of this five day on line faculty development programme (FDP) is to discuss the Renewable Energy, with Future emerging technological aspects for sustainable development; Practical problems in the installation of Solar, Wind and Hydro systems are discussed from eminent personalities from prestigious institutions like IIT, NIT and UiTM. This FDP will bring together faculty members and researchers from engineering colleges and industries to update their technical knowledge in the field of Renewable Energy.

**Outcome of event:**

In this Five day online faculty development program the participants were able to acquire theoretical and practical knowledge on Integration of Renewable Energy Systems and challenges with grid connected systems.


**Description / Report on Event:**

The Department of EEE, RVSCET, Coimbatore, India in association with Solar Research Institute, Universiti Teknologi MARA (UiTM), Malaysia, conducted a Five-Day on line faculty Development Program on “Emerging Technologies in Renewable Energy for Sustainable Development”, during: 23<sup>th</sup> – 27<sup>th</sup> August, 2022/(Five Days) in online Google meet platform for international level faculty members.

**Day 1, (23.08.2022) Session 1:**

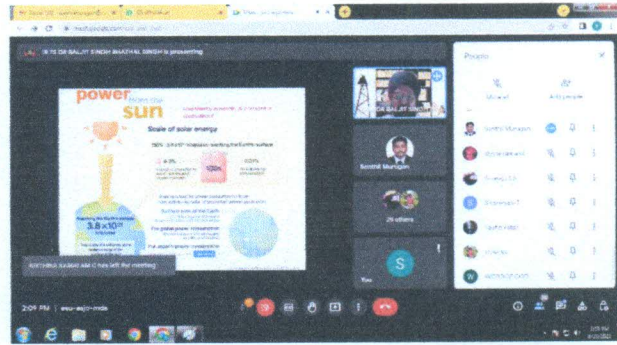
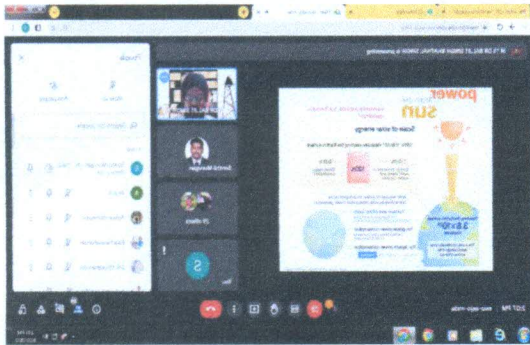
Dr. Mohd Najib Bin Mohd Hussain, Senior Lecturer, School of Electrical Engineering, Solar Research Institute (SRI), Universiti Teknologi MARA (UiTM) presented on the Topic Recent advances in Solar photovoltaic Energy Conversion. The resource person shared the global solar energy scenario and the present and future technologies in solar photovoltaic energy conversion.



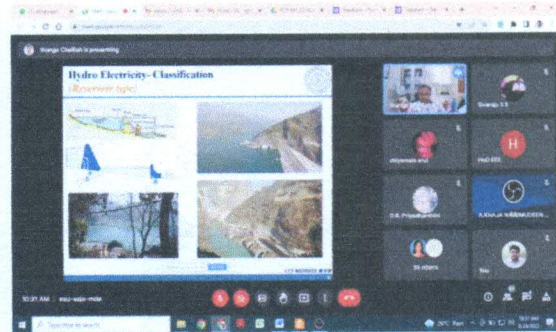
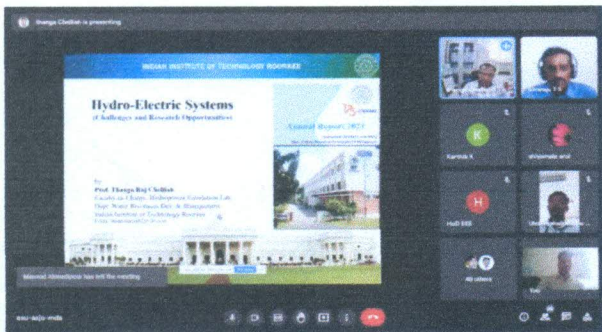
  
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RVS College of Engg. & Technology  
Coimbatore-641 402



**Session 2** is engaged by Dr. Baljit Singh, Associate Professor, School of Mechanical Engineering, Solar Research Institute (SRI), Universiti Teknologi MARA. He gave complete overview about Challenges in Solar Cooling and Power Generation for Renewable energy systems. He also discussed real time model designs.



**Day 2, (24.08.2022) Session 3** is engaged by **Dr. C. Thangaraj**, Associate Professor, Water Resources Development and Management, Indian Institute of Technology Roorkee, Uttar Pradesh, India. He presented an informative session on Hydro-Electric Systems: Challenges and Opportunities.



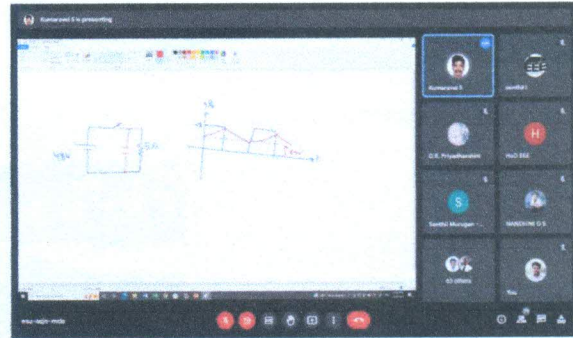
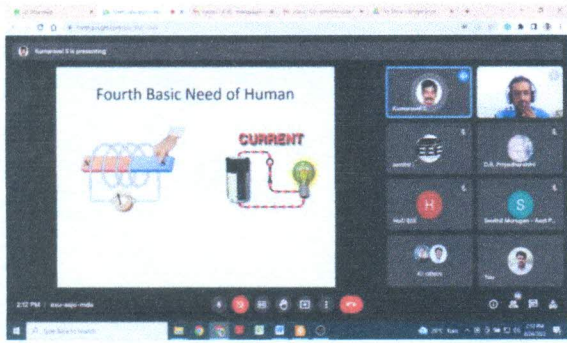
**Session 4** is handled by Dr. Kumaravel. S, Assistant Professor-EEE, National Institute of Technology, Kozhikode, Kerala, India on the topic Design and installation of solar photovoltaic systems. The participants have been given the important installation factors and methods of mitigating issues between solar and utility Grid. He also discussed some ongoing research problems to the participants in the area of integration of renewable energy systems.



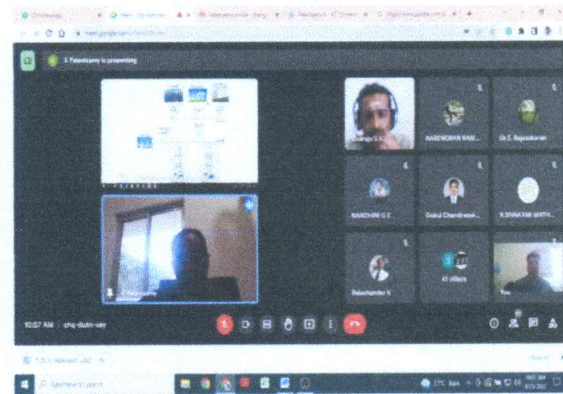
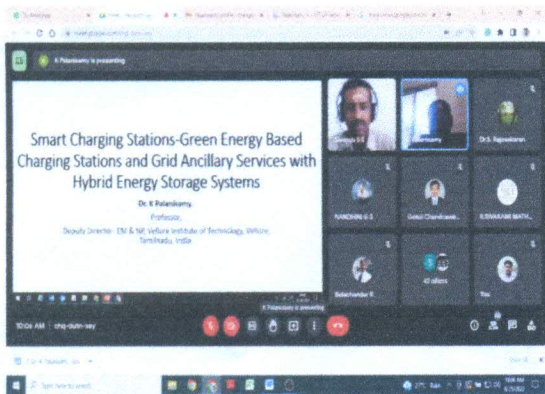
*Dr. Thangaraj*  
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Coimbatore-641 402

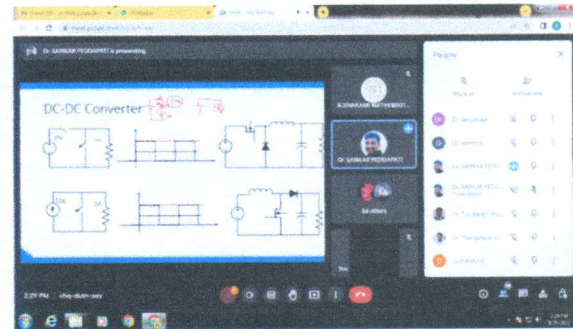
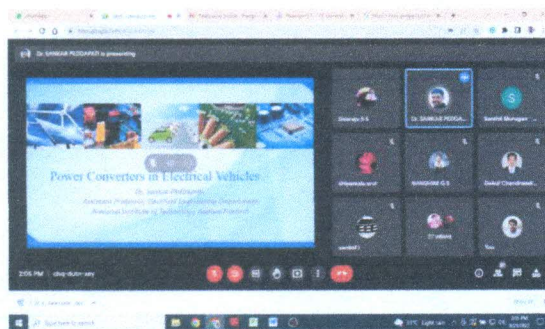




**Day3,(25.08.2022) Session 5:** is engaged by Dr. K Palanisamy, Deputy Director- EM and NP, Vellore Institute of Technology, Vellore,Tamilnadu, India. The resource person elaborated about Smart Charging Stations-Green Energy Based Charging Stations and Grid Ancillary Services with Hybrid Energy Storage Systems.



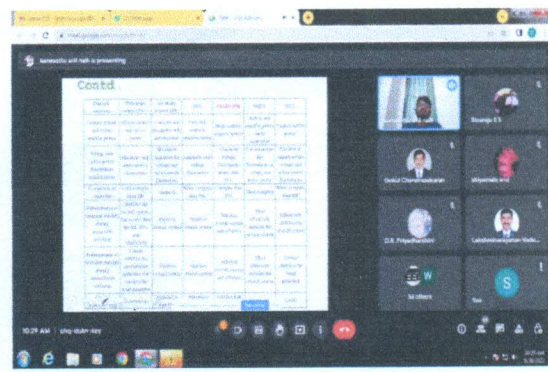
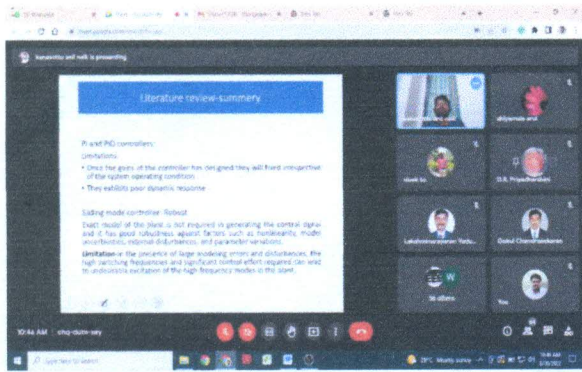
**Session 6** is engaged by Dr. Sankar Peddapati, Assistant Professor, Electrical Engineering Department National Institute of Technology, Andhra Pradesh. He gave the presentation on "Power Converters in Electric Vehicle Applications". He explained the converter topologies and rotor angle control methodologies in EV and upcoming technologies.



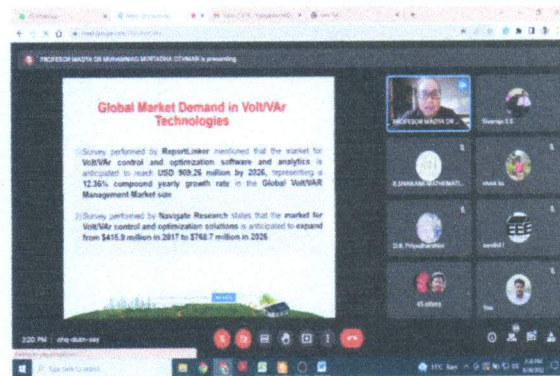
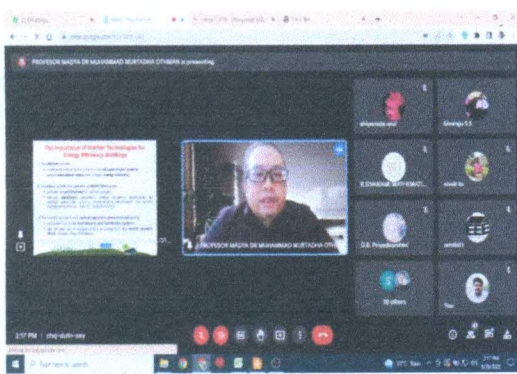
**Day4, (26.08.2022) Session 7:** is engaged by Dr.Kanasottu Anil Naik, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Warangal, Telangana, India.They discussed about the issues and Challenges in Wind energy grid integration and prospective solutions, it was also an interactive session with participants.



*[Signature]*  
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 Coimbatore-641 402



**Session 8** is engaged by Dr. Muhammad Murtadha Othman,UiTM , Malaysia.Hegave thepresentationon"Green buildings for sustainable development ". He explained the capacitor design and topologies and power control methodologies in green buildings with real time examples.



**Day 5, (27.08.2022) Session 9:** Session 9 is engaged by Dr. Nurfadzilah Ahmad, M.Eng., Ph.D.,UiTM , Malaysia. Shepresentedan over view on Research challenges in Solar Thermal Energy Storage to theparticipants in the area of solar energy systems.



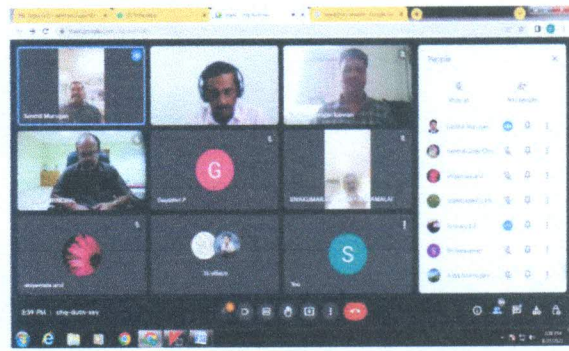
**Session 10** is engaged by Dr. Alhassan Salami Tijani,UiTM , Malaysia.Hegave thepresentationon"Research challenges in use of Nano materials for energy applications". He explained the Nano materials design and topologies in renewable energy applications.




*[Signature]*  
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 Coimbatore-641 402



The programme ended with FDP address by Dr.P.Rajendran, Principal, RVSCET, and vote of thanks by Dr. L.Senthil Murugan, Assistant Professor, Department of Electrical and Electronics Engineering. Feedback was received from the participants and E-certificates were sent to the participants by mail. On the whole the program was well appreciated by the participants.



  
**Dr. S. S. Sivaraju, M.E., Ph.D.,**  
Professor & Head  
Electrical and Electronics Engineering  
RVS College of Engg. & Tech,  
Coimbatore-641 402



  
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Coimbatore-641 402

# RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE, INDIA

&

# UNIVERSITI TEKNOLOGI MARA (UiTM)

SHAH ALAM, MALAYSIA



## CERTIFICATE

**DR. VADTHYA JAGAN**

VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY HYDERABAD

has participated five day online **Faculty Development Program** on  
**"EMERGING TECHNOLOGIES IN RENEWABLE ENERGY FOR SUSTAINABLE DEVELOPMENT"**  
organized by Department of Electrical and Electronics Engineering, RVS College of Engineering  
and Technology in association with Universiti Teknologi MARA (UiTM)  
held from 23 - 27 August, 2022.

Prof. Dr.S.S.SIVARAJU  
Head of the Department  
Electrical and Electronics Engineering  
RVS College of Engineering & Technology



Pro.Sr.Ir.Dr.HAJI SUHAIMI ABDUL TALIB  
Assistant Vice-Chancellor  
College of Engineering  
Universiti Teknologi MARA



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 Kumaran Kottam Campus, Trichy Road, Kannampalayam, Coimbatore-641 402.  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

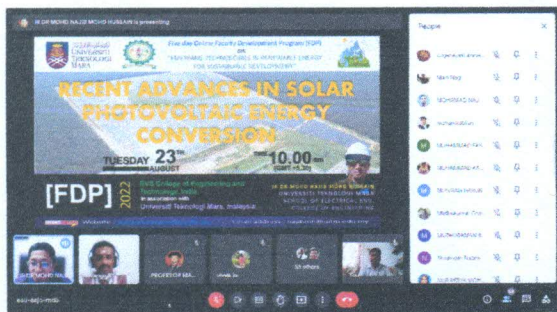


**Photo Graphs of the Event**  
**Online FDP**

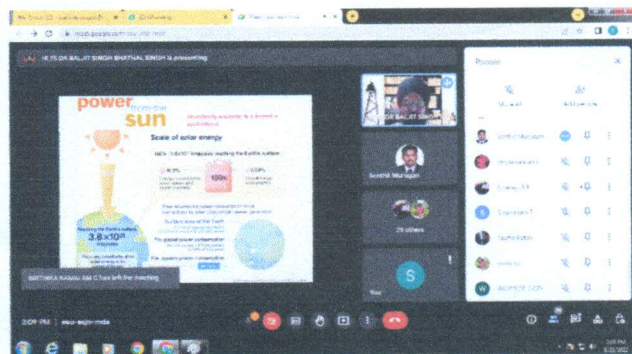
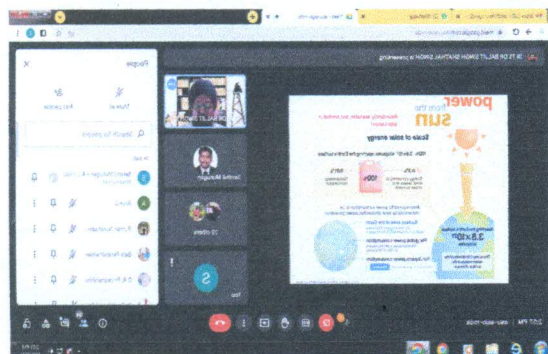
Title: Emerging Technologies in Renewable Energy for Sustainable Development  
 Event Type: Online Faculty Development Program (FDP)  
 Program Date / Duration : 23<sup>rd</sup> – 27<sup>th</sup> August, 2022/(Five Days)  
 No. of Participants: 72  
 Organizers: Department Electrical and Electronics Engineering, RVSCET,  
 Coimbatore, India  
 &  
 Solar Research Institute, UniversitiTeknologiMARA(UiTM),  
 Malaysia.

**Day 1, (23.08.2022) Session 1:**

Dr.Mohd Najib Bin MohdHussain, Senior Lecturer ,School of Electrical Engineering, Solar Research institute(SRI), UniversitiTeknologi MARA (UiTM) presented on the Topic Recent advances in Solar photovoltaic Energy Conversion.

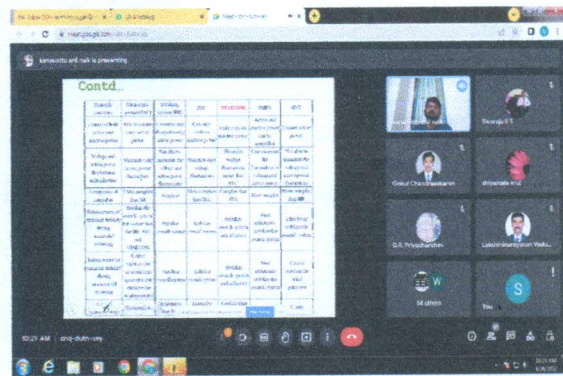
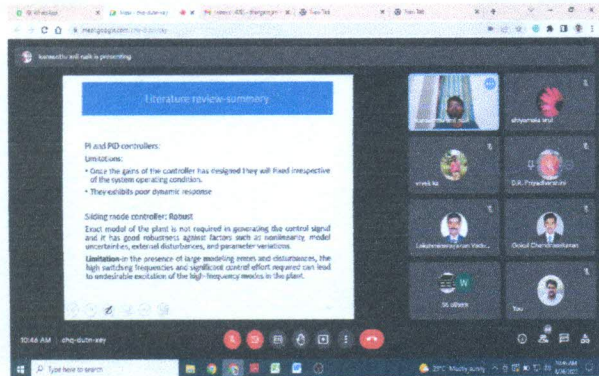


**Session 2:** Dr.Baljit Singh,Associate Professor,School of Mechanical Engineering, Solar Research institute (SRI),UniversitiTeknologi MARA. verview about Challenges in Solar Cooling and Power Generation for Renewable energy systems.

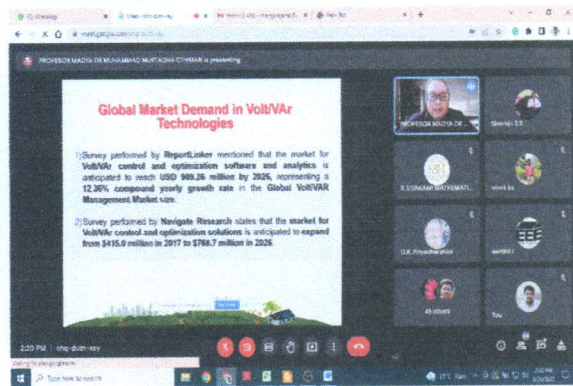
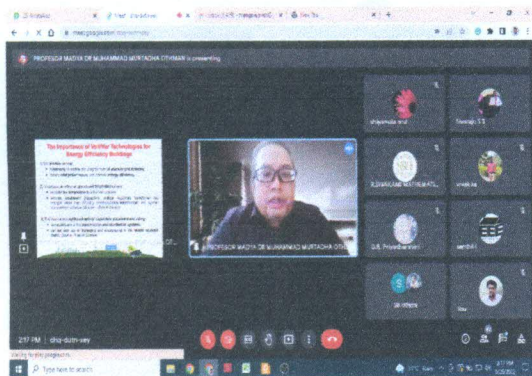


  
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 Coimbatore - 641 402

**Day4, (26.08.2022) Session 7: Dr.Kanasottu Anil Naik, Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Warangal, Telangana, India. The issues and Challenges in Wind energy grid integration and prospective solutions**



**Session 8- Dr. Muhammad Murtadha Othman,UiTM , Malaysia. "Green buildings for sustainable development "**



*Murugan*  
Coordinator

[Dr. L. Senthil Murugan]

*M. Sivaraju*  
HoD-EEE

**Dr. S. S. Sivaraju, M.E., Ph.D.,**  
Professor & Head  
Electrical and Electronics Engineering  
RVS College of Engg. & Tech.  
Coimbatore-641 402



*A. P. Rao*  
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Coimbatore - 641 402

**RVS COLLEGE OF ENGINEERING AND TECHNOLOGY**

Department of Electrical and Electronics Engineering

**Online Faculty Development Program (FDP) on Emerging Technologies in Renewable Energy for Sustainable Development  
( 23rd – 27th August, 2022)****ATTENDANCE SHEET FOR THE ONLINE FDP PROGRAM**

S.No	Name of the Participants	Day 1 (23.08.2022)	Day 2 (24.08.2022)	Day 3 (25.08.2022)	Day 4 (26.08.2022)	Day 5 (27.08.2022)
1	Dr. Vadthya Jagan	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
2	Muthukumar G G	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT
3	MUTHURAMAN A	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
4	Rajasundrapandianleebanon	PRESENT	PRESENT	ABSENT	PRESENT	PRESENT
5	NUR AESYA BINTI MOHAMAD FAIDZAL	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
6	T.Sivaranjani	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
7	Olive Fiera	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
8	NUR ATHIRAH BINTI KAMARUNZAMAN	PRESENT	ABSENT	PRESENT	PRESENT	PRESENT
9	NANDHINI G S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
10	MUNIRAH BINTI HARUN	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
11	Dr. Lal Raja Singh R	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
12	C. Madhankumar	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
13	Venkatesh kumar C	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
14	H UMESH PRABHU	PRESENT	PRESENT	ABSENT	PRESENT	PRESENT
15	LOGANAYAKI A	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
16	Dr. ANCY M	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
17	KASHIF AHMED	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
18	SARAVANA KUMAR M	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
19	Dr. Jamna.A	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
20	KARTHIKEYAN. J	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
21	Raihanah Naja Redan	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT
22	GOWRI SHANKAR S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
23	Dr. KARUNAMOORTHY B	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
24	K.Mohanraj	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT



  
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25	Dr. T S Balaji Damodhar	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
26	MUHAMMAD TAUFIQ BIN ABDUL FATAH	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
27	JERMANSHIYAMALA A	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
28	Dr.Mohamad Affan	PRESENT	ABSENT	PRESENT	PRESENT	PRESENT
29	Dr. K P Parthiban	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
30	A. Pradeep	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
31	Mani V	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
32	Dr. A PANDIAN	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
33	S.Arun	PRESENT	ABSENT	PRESENT	PRESENT	ABSENT
34.	L.SREEVIDYA	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
35	D.PRIYADHARSHINI	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
36	Gayathri P	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
37	Dr. N. CHIDAMBARARAJ	PRESENT	ABSENT	PRESENT	PRESENT	PRESENT
38	Narasimman. S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
39	ARAVINDHAN K	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
40	Krithika kamalam	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
41	Sujitha A	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
42	Shajini G Inbakani	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
43	Dr. P.ANAND	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
44	K.C.ANANDHAN	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
45	SHAGAR BANU M	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
46	VIVEK K S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
47	Dr. M SivaramKrishnan	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT
48	Dr. Masoud Ahmadipour	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
49	GOWRISHANKAR C	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
50	Dr. D SABAPATHI	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
51	Sureshkumaar G	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
52	Ayman Nurshazwan Bin Abdul Rashid	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
53	Dr. Reena Sri Selvarajan	PRESENT	PRESENT	ABSENT	PRESENT	PRESENT
54	BARATHKUMAR T	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
55	Muhamad Irsyad dhamiri bin rosini	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT



  
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56	Dr. Selvan P	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
57	S. SIVAPERUMAL	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT
58	Ramya M	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
59	RIDZUWAN BIN MOHD JAIS	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT
60	Dr. N.MADHANAKKUMAR	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
61	Dr. R.SIVAKAMI	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
62	M NANDHINI	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
63	Rafick S	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
64	MANIMALA P	PRESENT	ABSENT	PRESENT	PRESENT	PRESENT
65	SENTHILKUMAR C	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
66	S.Nithya	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
67	Dr. M . BHUVANESWARI	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
68	RATHINAVELSUBRAMANIAM V	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
69	Dr. B. NAGI REDDY	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
70	Dr. V. SARAVANAN	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
71	A.T.Ashmi Christus	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
72	Dr. MUHAMMAD KAMIL BIN HAMZAH	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
73	MOHAMAD NAJMUDDIN BIN MOHAMAD NAZRI	PRESENT	PRESENT	ABSENT	PRESENT	PRESENT
74	NANJUNDAMOORTHI T T	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
75	Dr. T. Rajesh	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT

*Mmmg/pt*  
Coordinator  
(Dr. I. Senthil Murgan)



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