



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

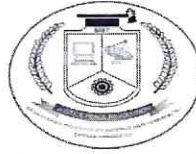
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Department of Electrical and Electronics Engineering

1.3.2 Number of value-added courses for imparting transferable and life skills offered during the year

S.No	Name of the value added courses	Year of offering	Dates	Duration of the course	Number of students enrolled
1.	Need Based Training Program	2020	6.7.20 to 11.7.20	48 hours	93
2.	Company Specific Aptitude Cracker	2020	15.7.20,17.7.20, 20.7.20& 22.07.20	30 hours	93
3.	Refresher Training Phase 1	2020	28.9.20 to 4.10.20	48 hours	93
4.	Refresher Training Phase 2	2021	4.1.21 to 6.1.21	30 hours	93
5.	Multi-Scale Renewable Energy Tools for Modern Power Grids	2021	23.4.21 to 8.5.21	30 hours	85

Value Added Course 1: Need Based Training Program



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Placement Cell

Campus Recruitment Training '2021

Ref:SIST-PC-2021-TRA-008

25.06.2020

Students' Circular

Sub: Need Based Training Program | IV Year B.E / B.Tech

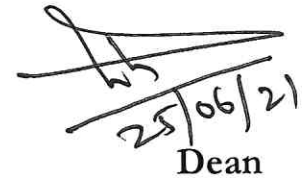
This is further to inform all Final year B.E / B.Tech students who have not cleared CRET Phase-1 and not eligible for the placement ID card yet, that a Need based training program on Aptitude, Technical and Soft Skill will be conducted as per the Schedule given below

Training Timing : 8.00 AM to 5 PM

S.No	Module	Dates
1	Aptitude Training	06.07.20 & 07.07.20
2	Technical Training	08.07.20 & 09.07.20
3	Soft skill Training	10.07.20 & 11.07.20

Note :

1. Batches will be allotted based on the performance of students in the CRET(Phase-1).
2. Venue for training will be communicated through group mail.
3. * indicates classes scheduled on Saturdays.


25/06/21
Dean

Placements & Corporate Affairs

Copy to:

1. Vice Chancellor & Pro Vice Chancellor ,Registrar, COE & Director-Research
2. All Deans & All HODs ,All Placement Heads & All Final year Placement Coordinators
3. Executive Office & Placement Cell

Display in:

All Final Year B.E/B.Tech - Class rooms, Notice Boards – Dining Halls and Hostels

Value Added Course 2:Company Specific
Aptitude Cracker



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Placement Cell

Campus Recruitment Training'2021

Ref: SIST-PC-2021-TRA-009

10.07.2020

Sub: Company Specific Aptitude Cracker Schedule | IV Year B.E/ B.Tech

This is to inform all final year Placement registered students of B.E/B.Tech that, a **Company Specific Aptitude Cracker Program** is planned for 4 days. This training program is designed to prepare you specifically on our eminent recruiter's test pattern.

The training timings are as given below

Branch	Date & Training Timings
CSE, IT,ECE, EEE, ETCE, EIE	15, 17, 20, 22.07.20
Aero, Auto, Bio Info, Bio Med, Bio Tech, Civil, Chem, Mech & MnP	16, 18, 21, 23.07.20

NOTES:

- Regular Company Specific training classes will happen between 8:00 AM and 3:00 PM.
- Venue and batch details will be shared with you through the group mail.
- Online tests(Company specific pattern) will be associated continuously throughout the above mentioned CSAC training program.
- This training is mandatory for all students who are eligible for Placement. Students with 100% attendance in all sessions (Including tests) only will be allowed for future recruitment.
- * indicates classes scheduled on Saturdays.


10/07/20
Dean

Placements & Corporate Affairs

Copy to:

1. Vice Chancellor & Pro-Vice Chancellor
2. Directors, Registrar & COE, All Deans & HODs
3. All Placement Heads & Final year Placement Coordinators,
4. Placement Cell & Executive Office

Display in: Notice Boards – Dining Halls and Hostels

Value Added Course 3: Refresher Training Phase 1



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Placement Cell

Campus Recruitment Training '2021

Ref: SIST-PC-2021-TRA-011

25.09.2020

Students' Circular

Sub: Refresher Training(Phase-1) Program | IV Year B.E / B.Tech

This is further to inform all Final year B.E / B.Tech students who have not cleared CRET Phase-1 and not eligible for the placement ID card yet, that a Refresher (Phase-1) training on Aptitude, Technical and Soft Skill will be conducted as per the Schedule given below

Training Timing : 8.00 AM to 5 PM

S.No	Module	Dates
1	Aptitude Training	28.09.20 & 29.09.20
2	Technical Training	30.09.20 & 01.10.2020
3	Soft skill Training	03.10.2020 & 04.10.2020

Note :

1. Batches will be allotted based on the performance of students in the CRET(Phase-2).
2. Venue for training will be communicated through group mail.
3. * indicates classes scheduled on Saturdays.


25/09/20
Dean

Placements & Corporate Affairs

Copy to:

1. Vice Chancellor & Pro Vice Chancellor, Registrar, COE & Director-Research
2. All Deans & All HODs, All Placement Heads & All Final year Placement Coordinators
3. Executive Office & Placement Cell

Display in:

All Final Year B.E/B.Tech - Class rooms, Notice Boards – Dining Halls and Hostels

Value Added Course 4: Refresher Training Phase 2



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Placement Cell

Campus Recruitment Training '2021

Ref: SIST-PC-2021-TRA-013

02.01.2021

Students' Circular

Sub: Refresher Training(Phase-2) Program | IV Year B.E / B.Tech

This is further to inform all Final year B.E / B.Tech students who have not cleared CRET Phase-3 and not eligible for the placement ID card yet, that a Refresher (Phase-2) training on Aptitude, Technical and Soft Skill will be conducted as per the Schedule given below:

Training Timing: 8.00 AM to 5 PM

S.No	Module	Dates
1	Aptitude Training	04.01.21
2	Technical Training	05.01.21
3	Soft skill Training	06.01.21

Note :

1. Batches will be allotted based on the performance of students in the CRET(Phase-3).
2. Venue for training will be communicated through group mail.


02/01/21
Dean

Placements & Corporate Affairs

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Display in:

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Value Added Course 5: Multi-Scale Renewable Energy Tools for Modern Power Grids



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SCHOOL OF ELECTRICAL AND ELECTRONICS

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE

On

**MULTISCALE RENEWABLE ENERGY TOOLS FOR
MODERN POWER GRIDS**

CHIEF PATRONS

Dr. MARIAZEENA JOHNSON

CHANCELLOR

Dr. MARIE JOHNSON

PRESIDENT

Ms. MARIA BERNADETTE TAMILARASI JOHNSON

VICE PRESIDENT

PATRON

Dr. T. SASIPRABHA,

VICE CHANCELLOR

CONVENOR

Dr N.M. Nandhitha

Dean/EEE

Dr. V. Sivachidambaranathan

HOD/EEE

ORGANISERS

Dr. M. Kavitha AP / EEE

Dr.W. Abitha Memala Asso. Prof. / EEE

Mrs. M. Pushpavalli AP/EEE

Mrs. V.Geetha AP / EEE

Mrs. P. Abirami AP / EEE

Mrs. P. Sivagami AP /EEE

Mrs.C.Bhuvaneswari AP / EEE

Registration Details

Duration: 30 Hrs(APRIL-MAY 2021)

Link: <https://forms.gle/6NHBfEdJDcafawL27>

For Queries

Contact us:

renewabletools@gmail.com



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Jeppiaar Nagar, Rajiv Gandhi Salai (OMR), Chennai – 600 119, Tamil Nadu, India.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value Added Courses

Tentative Schedule

Course Title : Multi-Scale Renewable Energy Tools for Modern Power Grids

Course Coordinator : Dr.V.Sivachidambaranathan, Professor & Head of EEE Department.

Resource Persons: Mrs.P.Abirami AP / EEE, Mrs.P.Sivagami AP / EEE, Mrs.M.Pushpavalli AP / EEE,
Mrs.V.Geetha AP / EEE, Dr.M.Kavitha AP / EEE, Mrs.C.Bhuvaneswari AP / EEE,
Dr.W.Abitha Memala Associate Professor / EEE

Course Duration : 30 Hours (April and May 2021)

No.of Weeks	Course Topic	Course Content	Resource Person
Day 1	Introduction to Renewable Sources	Solar Energy Wind Energy	Dr.M.Kavitha
Day 2	Introduction to Renewable Sources	Other Renewable sources	Dr.M.Kavitha
Day 3	Description of components involved in Energy Conversion using PV	OFF – Grid PV ON – Grid PV	Mrs. P.Abirami
Day 4	Design Calculations for PV Installation	For a Specific Load	Mrs.P.Sivagami
Day 5	PV SYST	Introduction PV SYST	Mrs.C.Bhuvaneswari
Day 6	Hands on Training	A Case Study using PV SYST	Mrs.P.Sivagami
Day 7	PV SOL	Introduction to PV SOL	Mrs.M.Pushpavalli
Day 8	Hand on Training	A case study using PV SOL	Mrs.C.Bhuvaneswari
Day 9	Case Study on Renewable Energy	For Various Applications	Mrs.M.Pushpavalli /Mrs.P.Abirami
Day 10	HOMER Pro	Case Study ON HOMER Pro	Dr.W.Abitha Memala
Day 11	Hands on Training	A case study using HOMER Pro	Mrs.P.Abirami
Day 12	SOLARGIS	Simulation tool	Mrs.V.Geetha
Day 13	SISIFO	Simulation tool	Dr.W.Abitha Memala
Day 14	SAM	Simulation tool	Mrs.V.Geetha
Day 15	SAM	Simulation tool	Mrs.M.Pushpavalli



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VAL	Multi-Scale Renewable Energy Tools for Modern Power Grids	Course
		7 Weeks

COURSE OBJECTIVES:

- To learn various simulation tools for renewable sources
- To implement real time applications using software tools.

COURSE OUTCOMES:

Upon successful completion of this course students should be able to:

- Understand the importance of renewable energy sources.
- Design principles of PV installation.
- Analysis of PV based stand alone applications
- Apply modern Renewable Energy Tools for Power Grids
- Techno-Economic analysis for hybrid sources of energy.
- Estimate the cost of energy for grid-connected power projects.

COURSE CONTENT:

WEEK1: (3Hours)

Introduction:

Role and potential of Renewable Energy Source: Wind, Solar, Tidal, Geo Thermal and biomass - Resources, Types & Characteristics - Applications of Renewable Energy based on ON-grid and OFF Grid - Environmental impact of Renewable Energy & Cost analysis.

WEEK2:**(4Hours)****A CASE STUDY ON COMPLETE OFF-GRID MANUAL CALCULATIONS**

Required Energy + Angles Design, System Efficiency Calculations, Panels Design, Batteries Design, Charger Controller & Inverter Designs, Required Area Design, Complete Off-Grid Manual Design

WEEK3:**(5 Hours)****PVSYST SOFTWARE**

Introduction-Theoretical Concepts-Different tools used in PVSYST -Designing of Grid Connected System-Design of Stand-alone systems- Simulation process - Case Studies

WEEK4:**(5 Hours)****PV Sol Software**

Introduction- Selection of PV module, Battery, Inverter, Electric Vehicle and Electrical Appliances - Energy Flow - Energy Forecasting- Financial Forecasting- Hands on training - Case studies on Grid connected PV system, Standalone PV system.

WEEK5:**(5 Hours)****HOMER Pro:**

Introduction to HOMER Pro, Solving Problems with HOMER - Feasible Power Sources, Storage Devices, Accessible Loads, Usable Modules, Designing a Model using HOMER, Simulation results and Optimization results, HOMER Calculations, Simulation of OFF grid PV supplying a load, Simulation of ON grid PV supplying a load, Simulation of Hybrid Renewable sources supplying a load.

WEEK 6: SOLARGIS

(4Hours)

INTRODUCTION TO PVPLANNER-

PV system configuration and run simulations-Data retrieval-Solar database..SIMULATION APPROACH-Input parameters - Site parameters-Sun path-Terrain -Technical parameters-Installed power-Mounting system -Type of modules -Other DC losses-Inverter efficiency-AC losses-PV system availability-output parameter-ACCURACY OF RESULTS.Use of solar resource and temperature data in PV system design software.

SISIFO

Introduction - Input Interface-PV Modules, PV Generators, Converters, Wiring -Grid-connected PV systems-large grid-connected plants and building integrated installations. -PV pumping system - Daily, monthly and yearly parameters.

WEEK7:

(4Hours)

System Advisory Model

SAM Overview-software downloads-input and default values-Performance models-Financial models-simulation tools.

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Multi-Scale Renewable Energy Tools for Modern Power Grids- Feed Back

Timestamp	NAME OF THE STUDENT	REGISTER NUMBER	BATCH	MAIL ID OF THE STUDENT	TOPICS DELIVERED ON DAY 1	WAS THE SESSION INTERESTING?	WAS THE PRESENTATION IN EXPECTED WAY?	WOULD YOU RATE THE COURSE ?	WOULD YOU RATE THE RESOURCE PERSON?	YOUR VALUABLE SUGGESTIONS FOR FURTHER IMPROVEMENT
4/21/2021 15:46:40	Prithi k	39140043	2019- 2023	prithikamaraj17@gmail.com	Renewable resources	YES	YES	5	5	Everything was perfect
4/21/2021 15:47:02	P.Pavithra	39140036	2019-2023	pavithraprakash555@gmail.com	Renewable energy	YES	YES	5	5	No
4/21/2021 15:47:05	Dhanush G	39140011	2019-2023	dhanushsekar02@gmail.com	Introduction on electronics	YES	YES	4	4	Good mam
4/21/2021 15:47:28	PAVITHRA V	39140038	2019 - 2023	v2002pavithra@gmail.com	Introduction to Renewable Sources	YES	YES	5	5	Very nice
4/21/2021 15:47:39	S.KOWSALYA	40140020	2020	kowsi138suresh@gmail.com	Solar energy and wind energy	YES	YES	5	5	Conduct assessment
4/21/2021 15:47:42	Ignatius Raja	40860001	2020-2024	ignatiusraja@ymail.com	Introductory session about renewable sources of energy.	YES	YES	5	5	Polls during session would make it more interesting.
4/21/2021 15:47:43	Logeshwari.A	39140027	2019 to 2023	geethalogeshwari04@gmail.com	Introduction to renewable sources	YES	YES	5	5	Excellent
4/21/2021 15:47:53	Thirumal Azagan K	39130474	2019	thiruazagan14@gmail.com	.	YES	YES	4	4	Yes
4/21/2021 15:48:05	E.Narmadha	39140033	B.E-EEE (2 nd year)	narmadhaelango277@gmail.com	Multi scale renewable energy tools for modern power grid	YES	YES	4	4	Overall good
4/21/2021 15:48:17	AMUDHA SUBRAMANI	39140002	2019-23	ananthiamudha2002@gmail.com	Introduction, Renewable Energy	YES	YES	5	5	No suggestion
4/21/2021 15:48:23	Poovarasig.G	39140040	2019 batch	poovarasig04@gmail.com	Introduction	YES	YES	4	5	Nothing
4/21/2021 15:48:36	Iswarya . S	39140018	2019-2023	iswarya3101@gmail.com	Introduction of renewable energy, solar energy, solar Pv	YES	YES	5	5	-
4/21/2021 15:48:37	Machavarapu lalitha sree	39140709	2019-2023	lalithasreem2@gmail.com	Introduction to renewable energy sources	YES	YES	5	5	Everything is good

4/21/2021 15:48:37	Saravana kumar	37860030	2017	saravanakumar17699@gmail.com	introduction about renewable energy and introduction to solar system	YES	YES	4	5	can you say how the solar panels were been tested and their efficiency was evaluated?
4/21/2021 15:48:42	N.P.Tharini	39140061	2nd year, EEE	tharini0202@gmail.com	About Renewable energies, inverters and its types, PV cells etc..	YES	YES	5	5	No
4/21/2021 15:48:43	Gundlapudi Surya teja	39130156	2019-2023	suryatej0476@gmail.com	Introduction of Different types of renewable resources and breif on solar energy	YES	YES	4	5	No suggestions
4/21/2021 15:48:49	Akhtar	39860005	2019-23	ak3327742@gmail.com	Introduction	YES	YES	5	5	No
4/21/2021 15:48:51	Vishveswar Reddy	39130453	Ece	vishu1062002@gmail.com	Introduction of Solar energy and wind energy and lithium batteries	YES	YES	5	5	Kindly Reduce timings from 2 hours to 1 hour
4/21/2021 15:49:01	Rohit Sharma	40130198	2020-2024	rsrohitsharma13579@gmail.com	Introduction about solar	YES	YES	5	5	Faculty is requested to increase voice.
4/21/2021 15:49:13	Ashwini S	39140004	2019-2023	ashwiniradha248@gmail.com	About solar grid and energy	YES	YES	5	5	Overall good
4/21/2021 15:49:14	Pasagadugula Jnana Teja	38860011	2018-2022	jnanateja.pasagadugula@gmail.com	Renewable resources	YES	YES	5	5	everything is good, hope it continues this way
4/21/2021 15:50:09	Male Sai Vamshi	39130270	2019-2023	saivamshim143@gmail.com	Solar energy and battery,DC power topics etc...	YES	YES	5	5	Could you please make the timings because of at Wednesday afternoon data science course is there(value added course)
4/21/2021 15:50:22	PARISA MAHENDRA NADH	39130339	2019_2023	parisamahendra@gmail.com	Renewable energy sources	YES	YES	5	5	No suggestions to say
4/21/2021 15:50:33	D. SNEHA	39140053	2019-2023	Snehaumayal@gmail.com	Solar and device	YES	YES	5	5	Very use ful
4/21/2021 15:50:40	M Shiva	39140704	Electrical and electronics engineering	shivamogili31@gmail.com	Introduction about the renewable energy sources	YES	YES	5	5	The session was good

4/21/2021 15:51:19	D.Kamaleeswari	40140017	1st year	dkamaleeswari@gmail.com	Introduction about renewable energy	YES	YES	5	5	Its very useful for me
4/21/2021 15:51:24	Nikesh Kumar	39140034	2019	Nikkijilla007@gmail.com	Renewable resources, solar cells ,PC cells, gel thermal energy	NO	YES	3	3	Good
4/21/2021 15:51:34	Bharathi.S	39140009	2019-2023	subrayalukesavan@gmail.com	Introduction class, Role and potential of Renewable energy source,pv,wind, solar, tidal and geo thermal energys	YES	YES	5	5	Was an interesting session.....waiting for further more classes
4/21/2021 15:52:44	Ravuri Aravind	39140045	BE EEE	ravuriaravind2005@gmail.com	Renewable thing	YES	YES	4	4	None
4/21/2021 15:54:49	M.Madhusudhana rao	39140028	2019-2023	madhumahanthi2002@gmail.com	renewble energies	YES	YES	5	5	none
4/21/2021 15:55:31	B. Hari Krishna	39140007	2019 - 2023	banothuharikrishna30@gmail.com	Renewable energy	YES	YES	4	4	None
4/21/2021 15:57:38	SUJOY HALDER	39140058	ELECTRICAL AND ELECTRONIC S ENGINEERING	sujoy.sh9830@gmail.com	Power Grid	YES	YES	5	5	Excellent
4/21/2021 15:57:43	BHUVANESWARI	123456	2020	bhuvaneswarichandraseker@gmail.com	INTRODUCTION	YES	YES	5	5	POWER GRIDS
4/21/2021 15:58:45	M sai sathvikh	39130298	2019	sathvikh2001@gmail.com	Solar energy, thermal energy, projects invertors, shadow effect	YES	YES	4	4	Send materials on time after completion topics
4/21/2021 16:01:12	Pradeena.G	39140041	2019-23	Pradeenaganesan0410@gmail.com	Introduction ,renewable resources,tidal energy ,solar energy etc	YES	YES	5	5	Very useful,and gaining knowlege
4/21/2021 16:01:31	Jahnavi.K	39130236	2019-2023	jahnavichowdary1009@gmail.com	Batteries	YES	YES	4	4	Continue the same way
4/21/2021 16:02:37	PECCHETI PRAVEEN KUMAR	39130345	2019	praveenkumar8333847077@gmail.com	Introduction to renewable resources	YES	YES	5	5	Gud
4/21/2021 16:03:21	Rahul Kavvampally	40860002	2020-2024	kavvampallyrahul@gmail.com	Renewable Energy and Sources, Solar Energy	YES	YES	5	5	Everything is good.

4/21/2021 16:09:07	Neha V	39130323	BE	sweeneha60@gmail.com	2	YES	YES	5	5	No suggestions
4/21/2021 16:13:45	Abhijeet kumar	38140002	2018-2022	abhi009krlal@gmail.com	Introduction to Renewable Sources	YES	YES	5	5	Looking forward to get more courses like this
4/21/2021 16:15:54	VIJAYA RAAGHAVAN.S	39140063	2019-2023	vijayraaghavan1@gmail.com	introduction to renewable sources	YES	YES	5	5	nil
4/21/2021 16:40:08	P.sitaram	39130351	2019-2023	ponnagantiseetharam5@gmail.com	Batteries	YES	YES	5	5	Good session
4/21/2021 17:09:39	Ravoori Sujitha	39130447	2019-2023	ravoorisujitha@gmail.com	Role and potential of renewable energy sources , applications of them	YES	YES	4	4	Good one
4/21/2021 17:56:10	VALUGONDA VINAYKUMAR	39130495	2019-2023	vinaykumar6386@gmail.com	Different ways to get electricity	YES	YES	4	5	No
4/21/2021 18:30:57	Yedla Sai Mahesh	39130525	2019-2023	maheshyedla315@gmail.com	Solar energy , battery and etc...	YES	YES	3	3	Nothing
4/21/2021 18:31:57	SINDHU V	39140052	EEE	Sindhuveliappan2002@gmail.com	Good	NO	YES	4	4	Good
4/21/2021 19:53:02	K Parimalnath Reddy	39130229	2019-23	parimalnathreddy@gmail.com	Solar energy and batteries	YES	YES	4	5	good
4/22/2021 11:08:36	Prabavathi. B	40140026	2020-2024	prabacm.18@gmail.com	Solar energy and wind energy	YES	YES	4	5	Conduct test



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Jeppiaar Nagar, Rajiv Gandhi Salai (OMR), Chennai – 600 119, Tamil Nadu. India.

E-Certificate

This is to certify that

NAME

has successfully completed the VALUE ADDED COURSE on “**MULTI-SCALE RENEWABLE ENERGY TOOLS FOR MODERN POWER GRIDS**” organized by the Department of Electrical & Electronics Engineering, School of Electrical and Electronics from 23/4/2021 to 8/5/2021(30 hours).

A handwritten signature in blue ink, likely belonging to Dr V Sivachidambaranathan, is positioned above his name.

Dr V Sivachidambaranathan
Professor & Head
Department of EEE

A handwritten signature in blue ink, likely belonging to Dr N M Nandhitha, is positioned above his name.

Dr N M Nandhitha
Professor & Dean
School of EEE