

CSI COLLEGE OF ENGINEERING, KETTI

Approved by AICTE, New Delhi (F.No.730-52-301 (E)ET[97 dated NOV. 17, 1997),
Government of Tamil Nadu (vide GO Ms. No. 112, dated 23.3.1998),
Affiliated to Anna University, Chennai (Tamil Nadu Act 26 of 2001 w.e.f.31.12.2001).



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : Energy Management Systems

2023-2024

12/09/2023 to 16/09/2023

COURSE CONTENT

S.NO	DAY	CONTENT
1	12/09/2023	Key Features of EMS
2	13/09/2023	Benefits of EMS
3	14/09/2023	Components of EMS
4	15/09/2023	Applications of EMS
5	16/09/2023	Some popular EMS solutions


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KETTI-643 215



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : Energy Management Systems

2023 - 2024

Attendance from 12/09/2023 to 16/09/2023

Si No	Reg No	Name	Year	Signature				
				12/9/2023	13/9/2023	14/9/2023	15/9/2023	16/9/2023
1	710620105001	Cris Clarence	IV	<i>Cris</i>	<i>Clarence</i>	<i>Clarence</i>	<i>Clarence</i>	<i>Clarence</i>
2	710620105002	Praveen.J.H.P	IV	<i>J.H.P. Praveen</i>	<i>J.H.P. Praveen</i>	<i>J.H.P. Praveen</i>	<i>J.H.P. Praveen</i>	<i>J.H.P. Praveen</i>
3	710620105301	Ashik	IV	<i>Ashik</i>	<i>Ashik</i>	<i>Ashik</i>	<i>Ashik</i>	<i>Ashik</i>
4	710620105302	Kishore	IV	<i>B. Kishore</i>	<i>B. Kishore</i>	<i>B. Kishore</i>	<i>B. Kishore</i>	<i>B. Kishore</i>
5	710620105303	Mahendra kumar	IV	<i>Mahendra</i>	<i>Mahendra</i>	<i>Mahendra</i>	<i>Mahendra</i>	<i>Mahendra</i>
6	710621105001	Aravind P	III	<i>Aravind</i>	<i>Aravind</i>	<i>Aravind</i>	<i>Aravind</i>	<i>Aravind</i>
7	710621105002	Arjun S	III	<i>Arjun</i>	<i>Arjun</i>	<i>Arjun</i>	<i>Arjun</i>	<i>Arjun</i>
8	710621105004	Selvakumar S	III	<i>Selvakumar</i>	<i>Selvakumar</i>	<i>Selvakumar</i>	<i>Selvakumar</i>	<i>Selvakumar</i>
9	710621105301	Ashok Kumar	III	<i>Ashok</i>	<i>Ashok</i>	<i>Ashok</i>	<i>Ashok</i>	<i>Ashok</i>
10	710621105302	Bala murali M	III	<i>Bala</i>	<i>Bala</i>	<i>Bala</i>	<i>Bala</i>	<i>Bala</i>
11	710621105303	Imran A	III	<i>Imran</i>	<i>Imran</i>	<i>Imran</i>	<i>Imran</i>	<i>Imran</i>
12	710621105304	Jananthahul	III	<i>Jananthahul</i>	<i>Jananthahul</i>	<i>Jananthahul</i>	<i>Jananthahul</i>	<i>Jananthahul</i>
13	710621105305	Manikandan J	III	<i>Manikandan</i>	<i>Manikandan</i>	<i>Manikandan</i>	<i>Manikandan</i>	<i>Manikandan</i>
14	710621105306	Mohammed Moulana B.A	III	<i>Mohammed</i>	<i>Mohammed</i>	<i>Mohammed</i>	<i>Mohammed</i>	<i>Mohammed</i>
15	710621105307	Paul Esrome	III	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>
16	710621105308	Rohit Joshua J	III	<i>Rohit</i>	<i>Rohit</i>	<i>Rohit</i>	<i>Rohit</i>	<i>Rohit</i>
17	710621105309	Saravana kumar	III	<i>Saravana</i>	<i>Saravana</i>	<i>Saravana</i>	<i>Saravana</i>	<i>Saravana</i>
18	710622105002	Nikitha S	II	<i>S. Nikitha</i>	<i>S. Nikitha</i>	<i>S. Nikitha</i>	<i>S. Nikitha</i>	<i>S. Nikitha</i>
19	710622105003	Parthiban K	II	<i>Parthiban</i>	<i>Parthiban</i>	<i>Parthiban</i>	<i>Parthiban</i>	<i>Parthiban</i>
20	710622105005	Shreeram S	II	<i>Shreeram</i>	<i>Shreeram</i>	<i>Shreeram</i>	<i>Shreeram</i>	<i>Shreeram</i>
21	710622105301	Abisheck M	II	<i>M. Abisheck</i>	<i>M. Abisheck</i>	<i>M. Abisheck</i>	<i>M. Abisheck</i>	<i>M. Abisheck</i>
22	710623105001	Gokul	II	<i>M. Gokul</i>	<i>M. Gokul</i>	<i>M. Gokul</i>	<i>M. Gokul</i>	<i>M. Gokul</i>
23	710623105002	Masthan	II	<i>Siva</i>	<i>Siva</i>	<i>Siva</i>	<i>Siva</i>	<i>Siva</i>
24	710623105003	Navin G	I	<i>Navin</i>	<i>Navin</i>	<i>Navin</i>	<i>Navin</i>	<i>Navin</i>
25	710623105004	Ramar	I	<i>P. Ramar</i>	<i>P. Ramar</i>	<i>P. Ramar</i>	<i>P. Ramar</i>	<i>P. Ramar</i>
26	710623105005	Ramesh Babu	I	<i>G. Ramesh Babu</i>	<i>G. Ramesh Babu</i>	<i>G. Ramesh Babu</i>	<i>G. Ramesh Babu</i>	<i>G. Ramesh Babu</i>
27	710623105006	Sai Prasath	I	<i>Sai</i>	<i>Sai</i>	<i>Sai</i>	<i>Sai</i>	<i>Sai</i>
28	710623105007	ShamNithin	I	<i>P.H.Nithin</i>	<i>P.H.Nithin</i>	<i>P.H.Nithin</i>	<i>P.H.Nithin</i>	<i>P.H.Nithin</i>

Co Ordinator
Sankar P

Praveen
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Manu
Principal
C.S.I. COLLEGE OF ENGINEERING
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S. May Shanki
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NAME :- SELVA KUMAR . S

REG. NO :- 7106@1105004.

CSI COLLEGE OF ENGINEERING, KETTI
Department of Electrical and Electronics Engineering
2023-2024 (12/09/2023 to 16/09/2023)
Assessment Questions-Energy Management

9
10

- 1) Cloud base energy management system provides the ability to
 - a. Remotely control HVAC
 - b. Collect real time data
 - c. Generate intelligent, specific and real time guidance
 - d. Only b and c
 - e. All of these

- 2) The monitor and control of energy management system is done by using
 - a. MATLAB
 - b. SCADA
 - c. AUTO - CAED
 - d. All of these
 - e. None of these

- 3) The energy strategies of companies have the principle of
 - a. restoring and preserving the environment
 - b. reducing wastes and pollutants
 - c. educating the people about energy conservation
 - d. all of these
 - e. none of these

- 4) In passive potential energy strategies,
 - a. There is no systematic planning
 - b. Measures with low profitability is not considered
 - c. One should have high knowledge of the energy price
 - d. All of these

- 5) In Germany, the maximum energy consumption of a low energy house is
 - a. 50 kWh / m²a
 - b. 60 kWh / m²a
 - c. 70 kWh / m²a
 - d. 80 kWh / m²a

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6) IFMA stands for

- a. International Facility Management Association
- b. Indian Facility Management Association
- c. International Facility Management Academy
- d. Indian Facility Management Academy

7) Maximum demand charges are given in

- a. kWh
- b. kVA
- c. kVAr
- d. All of these
- e. None of these

8) Which among the following fuel is not available for thermal energy supply?

- a. LSHS
- b. LDO
- c. LPG
- d. All of these
- e. None of these

9) Energy management is a key component of

- a. Environmental management
- b. Carbon management
- c. Nitrogen management
- d. Water management

10) The main objective of energy management is to

- a. Minimize energy cost
- b. Minimum environmental effects
- c. Maintain optimum energy procurement and utilization
- d. Only A and B
- e. All of these

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2023-2024****Course Name - Energy Management Systems**

S.No	REG NO	Name of the Students	Marks	Pass/Fail
1	710620105001	Cris Clarence	10	Pass
2	710620105002	Praveen.J.H.P	7	Pass
3	710620105301	Ashik	7	Pass
4	710620105302	Kishore	8	Pass
5	710620105303	Mahendra kumar	9	Pass
6	710621105001	Aravind P	7	Pass
7	710621105002	Arjun S	8	Pass
8	710621105004	Selvakumar S	9	Pass
9	710621105301	Ashok Kumar	9	Pass
10	710621105302	Bala murali M	8	Pass
11	710621105303	Imran A	9	Pass
12	710621105304	Jananth ahul	7	Pass
13	710621105305	Manikandan J	7	Pass
14	710621105306	Mohammed Moulana B.A	8	Pass
15	710621105307	Paul Esrome	9	Pass
16	710621105308	Rohit Joshua J	9	Pass
17	710621105309	Saravana kumar	7	Pass
18	710622105002	Nikitha S	10	Pass
19	710622105003	Parthiban K	9	Pass
20	710622105005	Shreeram S	8	Pass
21	710622105301	Abisheck M	9	Pass
22	710623105001	Gokul	7	Pass
23	710623105002	Masthan	7	Pass
24	710623105003	Navin G	8	Pass
25	710623105004	Ramar	9	Pass
26	710623105005	Ramesh Babu	9	Pass
27	710623105006	Sai Prasath	8	Pass
28	710623105007	ShamNithin	8	Pass

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CERTIFICATE OF PARTICIPATION

This certificate is certify thatCHRIS CLARENCE. D.....attended
add on course held on “ENERGY MANAGEMENT SYSTEMS” from
12/02/2024 to 16/2/2024

A handwritten signature in green ink, appearing to read "R. Meyyandi".

PRINCIPAL

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KETTI-643 215.



A handwritten signature in black ink, appearing to read "Dr. PD Arumairaj".

PRINCIPAL

Dr.PD ARUMAIRAJ

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CERTIFICATE OF PARTICIPATION

This certificate is certify thatPRAVEEN J.H.P.....attended
add on course held on “ENERGY MANAGEMENT SYSTEMS” from
12/02/2024 to 16/2/2024



R. Muthusankar

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Dr. PD Arumairaj

PRINCIPAL

Dr.PD ARUMAIRAJ

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add on course held on “ENERGY MANAGEMENT SYSTEMS” from
12/02/2024 to 16/2/2024

L. Meyy Shank

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Dr. P. D. Arumairaj
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Dr.PD ARUMAIRAJ

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : WIRELESS POWER TRANSFER

2023-2024

7/8/2023 - 11/8/2023

COURSE CONTENT

S.NO	DAY	CONTENT
1	7/08/2023	Inductive coupling, Resonant inductive coupling
2	8/08/2023	Capacitive coupling.
3	9/08/2023	Electrodynamic wireless power transfer
4	10/08/2023	Magnetodynamic coupling
5	11/08/2023	Zenneck wave transmission

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2023 - 2024

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1	710620105001	Cris Clarence	IV	<i>Cris</i>	<i>Cris</i>	<i>Cris</i>	<i>Cris</i>	<i>Cris</i>
2	710620105002	Praveen.J.H.P	IV	<i>J.H.P</i>	<i>J.H.P</i>	<i>J.H.P</i>	<i>J.H.P</i>	<i>J.H.P</i>
3	710620105301	Ashik	IV	<i>S.Ashik</i>	<i>S.Ashik</i>	<i>S.Ashik</i>	<i>S.Ashik</i>	<i>S.Ashik</i>
4	710620105302	Kishore	IV	<i>B.Kishore</i>	<i>B.Kishore</i>	<i>B.Kishore</i>	<i>B.Kishore</i>	<i>B.Kishore</i>
5	710620105303	Mahendra kumar	IV	<i>M.Kumar</i>	<i>M.Kumar</i>	<i>M.Kumar</i>	<i>M.Kumar</i>	<i>M.Kumar</i>
6	710621105001	Aravind P	III	<i>Aravind</i>	<i>Aravind</i>	<i>Aravind</i>	<i>Aravind</i>	<i>Aravind</i>
7	710621105002	Arjun S	III	<i>Arjun</i>	<i>Arjun</i>	<i>Arjun</i>	<i>Arjun</i>	<i>Arjun</i>
8	710621105004	Selvakumar S	III	<i>S.Selvakumar</i>	<i>S.Selvakumar</i>	<i>S.Selvakumar</i>	<i>S.Selvakumar</i>	<i>S.Selvakumar</i>
9	710621105301	Ashok Kumar	III	<i>P.Ashok</i>	<i>P.Ashok</i>	<i>P.Ashok</i>	<i>P.Ashok</i>	<i>P.Ashok</i>
10	710621105302	Bala murali M	III	<i>M.Bala</i>	<i>M.Bala</i>	<i>M.Bala</i>	<i>M.Bala</i>	<i>M.Bala</i>
11	710621105303	Imran A	III	<i>Imran</i>	<i>Imran</i>	<i>Imran</i>	<i>Imran</i>	<i>Imran</i>
12	710621105304	Jananth ahul	III	<i>Jananth</i>	<i>Jananth</i>	<i>Jananth</i>	<i>Jananth</i>	<i>Jananth</i>
13	710621105305	Manikandan J	III	<i>J.Manikandan</i>	<i>J.Manikandan</i>	<i>J.Manikandan</i>	<i>J.Manikandan</i>	<i>J.Manikandan</i>
14	710621105306	Mohammed Moulana B.A	III	<i>M.Moulana</i>	<i>M.Moulana</i>	<i>M.Moulana</i>	<i>M.Moulana</i>	<i>M.Moulana</i>
15	710621105307	Paul Esrome	III	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>	<i>Paul</i>
16	710621105308	Rohit Joshua J	III	<i>Rohit</i>	<i>Rohit</i>	<i>Rohit</i>	<i>Rohit</i>	<i>Rohit</i>
17	710621105309	Saravana kumar	III	<i>Saravana</i>	<i>Saravana</i>	<i>Saravana</i>	<i>Saravana</i>	<i>Saravana</i>
18	710622105002	Nikitha S	II	<i>S.Nikitha</i>	<i>S.Nikitha</i>	<i>S.Nikitha</i>	<i>S.Nikitha</i>	<i>S.Nikitha</i>
19	710622105003	Parthiban K	II	<i>Parthiban</i>	<i>Parthiban</i>	<i>Parthiban</i>	<i>Parthiban</i>	<i>Parthiban</i>
20	710622105005	Shreeram S	II	<i>Shreeram</i>	<i>Shreeram</i>	<i>Shreeram</i>	<i>Shreeram</i>	<i>Shreeram</i>
21	710622105301	Abisheck M	II	<i>M.Abisheck</i>	<i>M.Abisheck</i>	<i>M.Abisheck</i>	<i>M.Abisheck</i>	<i>M.Abisheck</i>
22	710623105001	Gokul	I	<i>M.Gokul</i>	<i>M.Gokul</i>	<i>M.Gokul</i>	<i>M.Gokul</i>	<i>M.Gokul</i>
23	710623105002	Masthan	I	<i>Masthan</i>	<i>Masthan</i>	<i>Masthan</i>	<i>Masthan</i>	<i>Masthan</i>
24	710623105003	Navin G	I	<i>G.Navin</i>	<i>G.Navin</i>	<i>G.Navin</i>	<i>G.Navin</i>	<i>G.Navin</i>
25	710623105004	Ramar	I	<i>P.Ramar</i>	<i>P.Ramar</i>	<i>P.Ramar</i>	<i>P.Ramar</i>	<i>P.Ramar</i>
26	710623105005	Ramesh Babu	I	<i>G.Ramesh Babu</i>	<i>G.Ramesh Babu</i>	<i>G.Ramesh Babu</i>	<i>G.Ramesh Babu</i>	<i>G.Ramesh Babu</i>
27	710623105006	Sai Prasath	I	<i>Sai Prasath</i>	<i>Sai Prasath</i>	<i>Sai Prasath</i>	<i>Sai Prasath</i>	<i>Sai Prasath</i>
28	710623105007	ShamNithin	I	<i>P.Nithin</i>	<i>P.Nithin</i>	<i>P.Nithin</i>	<i>P.Nithin</i>	<i>P.Nithin</i>

U. Arunima
 Co Ordinator
Kowsalya M

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NAME: PAUL ESROME RAJ.E

REG NO: 710621105307

CSI COLLEGE OF ENGINEERING, KETTI
Department of Electrical and Electronics Engineering
2023-2024 (7/08/2023 to 11/8/2023)
Assessment Questions- Wireless Power Transmission

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18

1. What is the principle behind wireless power transmission?

- A. Electromagnetic induction
- B. Conduction
- C. Radiation
- D. Capacitance

2. Which method of wireless power transmission is most suitable for short distances?

- A. Inductive coupling
- B. Capacitive coupling
- C. Microwave power transmission
- D. Laser power transmission

3. What is the main challenge in long-distance wireless power transmission?

- A. High efficiency
- B. Low power density
- C. Environmental impact
- D. Cost

4. Which of the following applications is most likely to use wireless power transmission?

- A. Powering satellites
- B. Charging electric vehicles
- C. Providing electricity to remote areas
- D. All of the above

5. What is the primary advantage of wireless power transmission over traditional wired power transmission?

- A. Higher efficiency
- B. Lower cost

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- Greater flexibility
- D. All of the above
6. Which of the following is a disadvantage of wireless power transmission?
- A. Potential health risks
- B. Interference with other electronic devices
- C. Limited range
- All of the above
7. What is the primary component of an inductive coupling system for wireless power transmission?
- Transformer
- B. Capacitor
- C. Diode
- D. Transistor
8. Which of the following is a common application of capacitive coupling for wireless power transmission?
- A. Charging smart phones
- Powering medical implants
- C. Providing electricity to remote areas
- D. All of the above
9. What is the primary advantage of microwave power transmission over other methods?
- Long range
- B. High efficiency
- C. Low cost
- D. All of the above
10. Which of the following is a potential challenge for the widespread adoption of wireless power transmission?
- A. Regulatory hurdles
- B. Technical limitations
- C. Cost
- All of the above

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2023-2024

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S.No	REG NO	Name of the Students	Marks	Pass/Fail
1	710620105001	Cris Clarence	10	Pass
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28	710623105007	ShamNithin	8	Pass



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CERTIFICATE PARTICIPATION

This is to certify that

CHRIS CLARENCE. D

*attended add on course held on "WIRERLESS POWER TRANSMISSION" from 07/08/2024 to
11/08/2024*

R. May Shank
PRINCIPAL

CSI COLLEGE OF ENGINEERING

KETTI-643 215



Dr. PD Arumairaj

Principal

Dr.PD ARUMAIRAJ

CSI COLLEGE OF ENGINEERING KETTI, THE NILGIRIS-643215



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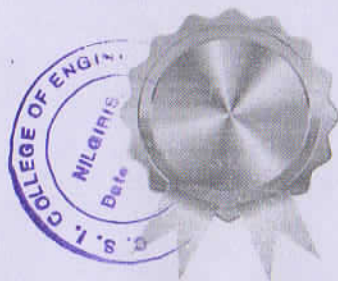
CERTIFICATE PARTICIPATION

This is to certify that

PRAVEEN J.H.P

*attended add on course held on "WIRERLESS POWER TRANSMISSION" from 07/08/2024 to
11/08/2024*

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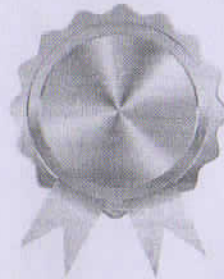
CERTIFICATE PARTICIPATION

This is to certify that

ASHIK S

attended add on course held on "WIRERLESS POWER TRANSMISSION" from 07/08/2024 to
11/08/2024

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Approved by AICTE, New Delhi (F.No.730-52-301 (E)ET/97 dated NOV. 17, 1997),
Government of Tamil Nadu (vide GO Ms. No. 112, dated 23.3.1998),
Affiliated to Anna University, Chennai (Tamil Nadu Act 26 of 2001 w.e.f.31.12.2001).



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : Smart Grid

2023-2024

12/02/2024 to 16/2/2024

COURSE CONTENT

S.NO	DAY	CONTENT
1	12/02/2024	Introduction to Smart Grid, Architecture of Smart Grid System.
2	13/02/2024	Distributed Generation Resources, Wide Area Monitoring Systems
3	14/02/2024	Wide Area Monitoring Systems, Phasor Estimation
4	15/02/2024	Islanding Detection Techniques Smart Grid Protection
5	16/02/2024	Operation and control of AC Micro grid Design of Smart grid and Practical Smart Grid case study

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[Signature]

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : Smart Grid

2023 - 2024

Attendance from 12/02/2024 to 16/2/2024

Sl No	Reg No	Name	Year	Signature				
				12/2/2024	13/2/2024	14/2/2024	15/2/2024	16/2/2024
1	710620105001	Cris Clarence	IV	Cris Clarence	Cris Clarence	Cris Clarence	Cris Clarence	Cris Clarence
2	710620105002	Praveen.J.H.P	IV	J.H.P	J.H.P	J.H.P	J.H.P	J.H.P
3	710620105301	Ashik	IV	S.Ashik	S.Ashik	S.Ashik	S.Ashik	S.Ashik
4	710620105302	Kishore	IV	Kishore	Kishore	Kishore	Kishore	Kishore
5	710620105303	Mahendra kumar	IV	Mahendra	Mahendra	Mahendra	Mahendra	Mahendra
6	710621105001	Aravind P	III	Aravind	Aravind	Aravind	Aravind	Aravind
7	710621105002	Arjun S	III	Arjun	Arjun	Arjun	Arjun	Arjun
8	710621105004	Selvakumar S	III	Selvakumar	Selvakumar	Selvakumar	Selvakumar	Selvakumar
9	710621105301	Ashok Kumar	III	P.Ashok	P.Ashok	P.Ashok	P.Ashok	P.Ashok
10	710621105302	Bala murali M	III	S.B.M	S.B.M	S.B.M	S.B.M	S.B.M
11	710621105303	Imran A	III	Imran	Imran	Imran	Imran	Imran
12	710621105304	Jananthrahul	III	Jananthrahul	Jananthrahul	Jananthrahul	Jananthrahul	Jananthrahul
13	710621105305	Manikandan J	III	Manikandan	Manikandan	Manikandan	Manikandan	Manikandan
14	710621105306	Mohammed Moulana B.A	III	Mohammed	Mohammed	Mohammed	Mohammed	Mohammed
15	710621105307	Paul Esrome	III	Paul	Paul	Paul	Paul	Paul
16	710621105308	Rohit Joshua J	III	Rohit	Rohit	Rohit	Rohit	Rohit
17	710621105309	Saravana kumar	III	Saravana	Saravana	Saravana	Saravana	Saravana
18	710622105002	Nikitha S	II	S.Nikitha	S.Nikitha	S.Nikitha	S.Nikitha	S.Nikitha
19	710622105003	Parthiban K	II	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban
20	710622105005	Shreeram S	II	Shreeram	Shreeram	Shreeram	Shreeram	Shreeram
21	710622105301	Abisheck M	II	Abisheck	Abisheck	Abisheck	Abisheck	Abisheck
22	710623105001	Gokul	II	M.Gokul	M.Gokul	M.Gokul	M.Gokul	M.Gokul
23	710623105002	Masthan	II	Masthan	Masthan	Masthan	Masthan	Masthan
24	710623105003	Navin G	I	G.Navin	G.Navin	G.Navin	G.Navin	G.Navin
25	710623105004	Ramar	I	P.Ramar	P.Ramar	P.Ramar	P.Ramar	P.Ramar
26	710623105005	Ramesh Babu	I	G.Ramesh	G.Ramesh	G.Ramesh	G.Ramesh	G.Ramesh
27	710623105006	Sai Prasath	I	Sai	Sai	Sai	Sai	Sai
28	710623105007	ShamNithin	I	P.S.Nithin	P.S.Nithin	P.S.Nithin	P.S.Nithin	P.S.Nithin

[Signature]
Co Ordinator

[Signature]
HOD EEE

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Principal
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NAME : R. HIT JOSHA J

REGISTER NO: 710621105308

CSI COLLEGE OF ENGINEERING, KETTI
Department of Electrical and Electronics Engineering
2023-2024 (7/08/2023 to 11/8/2023)
Assessment Questions-Smart Grid

9
10

1. Which of the following is one of the key features of a smart grid?
 - Limited sensors
 - ✓ Pervasive control
 - Centralized generation
 - Electromechanical operation
2. Which of the following is one of the wired communication modes used in smart grid communication?
 - Mesh network
 - satellite communications
 - ✓ Fiber optic communication
 - Cognitive Radio
- 3- Which of the following IEEE standard describes Design, Operation, and Integration of Distributed Resource Island Systems with Electric Power Systems ?
 - IEEE Std 1547TM-2003
 - IEEE Std 1547.2TM-2008
 - ✓ IEEE Std 1547.4TM-2011
 - IEEE Std 1547.3TM-2007
- 4- The PV installation target of India by 2022 is (GW: Giga Watt)
 - 60 GW
 - ✓ 90 GW
 - 100 GW
 - 85 GW
5. The smart grid will help electric company restore power more quickly after an outage.
 - ✓ True
 - False
6. Smart Grid goals include all but the following
 - Potentially reducing our carbon footprint
 - Introducing advancements and efficiencies yet to be envisioned
 - ✓ Assimilate all cultures, all categories of consumers
 - Maintaining grid affordability
7. Power quality monitoring and analysis in the smart grid is done using
 - past time data
 - ✓ utilizes real - time data
 - uses off line data
 - does not need any data

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8. Among the following, what is not the function of Smart grid.

- Interoperability is achieved smoothly among the grid
- Real time monitoring of Grid conditions
- ✓ Solve automatically grid disturbances
- Plug and Play ability to connect new generation plants to the grid

9. In relation to Smart home and building Automation, BAC is _____.

- ✓ Building Automation and control systems
- Bus Architecture for Communication
- Basic Automation and Communication
- Broad Area Communication

10. The _____ provides framework and roadmap for smart grid interoperability standards.

- National Institute of Smart Grid
- National Institute of Micro grid
- ✓ National Institute of Standard and Technology
- National Institute of Electrical and Electronic Advancements



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ASSESSMENT

Certificate is issued for the students scoring minimum 50% of marks
2023-2024

Course Name- Smart Grid

S.No	REG NO	Name of the Students	Marks	Pass/Fail
1	710620105001	Cris Clarence	10	Pass
2	710620105002	Praveen.J.H.P	7	Pass
3	710620105301	Ashik	7	Pass
4	710620105302	Kishore	8	Pass
5	710620105303	Mahendra kumar	9	Pass
6	710621105001	Aravind P	7	Pass
7	710621105002	Arjun S	8	Pass
8	710621105004	Selvakumar S	9	Pass
9	710621105301	Ashok Kumar	9	Pass
10	710621105302	Bala murali M	8	Pass
11	710621105303	Imran A	9	Pass
12	710621105304	Jananth rahul	7	Pass
13	710621105305	Manikandan J.	7	Pass
14	710621105306	Mohammed Moulana B.A	8	Pass
15	710621105307	Paul Esrome	9	Pass
16	710621105308	Rohit Joshua J	9	Pass
17	710621105309	Saravana kumar	7	Pass
18	710622105002	Nikitha S	10	Pass
19	710622105003	Parthiban K	9	Pass
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22	710623105001	Gokul	7	Pass
23	710623105002	Masthan	7	Pass
24	710623105003	Navin G	8	Pass
25	710623105004	Ramar	9	Pass
26	710623105005	Ramesh Babu	9	Pass
27	710623105006	Sai Prasath	8	Pass
28	710623105007	ShamNithin	8	Pass


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CERTIFICATE OF PARTICIPATION

This certificate is certify that
.....Sham Nithin P.....attended add on course held
on "SMART GRID" from 12/02/2024 to 16/2/2024

R. May Shank
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This certificate is certify that
.....**Ramesh Babu G**.....attended add on course held
on "SMART GRID" from 12/02/2024 to 16/2/2024

S. May Shank

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Dr. PD Arumairaj

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