

**ELECTRICAL AND ELECTRONICS
ENGINEERING**



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



Requisition Letter

From,
Head of the Department,
Department of Electrical and Electronics Engineering,
JKK Munirajah college of Technology,
T.N. Palayam.

To,
The Principal,
JKK Munirajah college of Technology,
T.N. Palayam.

Respected Sir,


Sub: Seeking permission for conducting a Certificate Programme-Reg

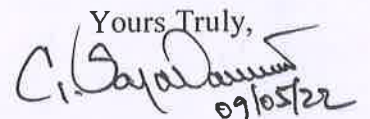
We have planned to conduct a certificate Programme for II-, III- and IV-year Electrical and Electronics students on "Battery Energy Storage System" from 16.05.2022 to 21.05.2022 by Programme coordinator Mr. A. Vigneshkumar , So, I request you to kindly provide permission to conduct the certificate Programme.

Thanking You,

Place: T.N.Palayam

Date: 09.05.2022


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Yours Truly,

09/05/22



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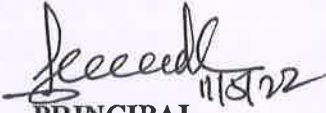


JKKMCT/CIRCULAR/MAY-22

DATE: 11/05/2022


CIRCULAR

The Department of Electrical and Electronics Engineering is planning to organize a Certificate Programme on **"BATTERY ENERGY STORAGE SYSTEM"** (36 Hours) for the benefit of the students from **16/05/2022 (Monday) to 21/05/2022 (Saturday)**. Students those who are willing to attend the course can enroll their names to their class in-charge respectively on or before **13/05/2022**.


11/5/22
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Copy To,

**All the HODs and Staff Members,
The Student's circulation,
Notice Boards and File**


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAMME SYLLABUS

Programme Name: **BATTERY ENERGY STORAGE SYSTEM**

Programme Code: **22EEEBEESCC01**

Programme Coordinator Name: Mr. A. Vignesh kumar, M.E.,

Total Hours: 36 Hrs

CHAPTER 1:

Electrical System Analysis

- Engineering Planning of storage system
- Identification type of load pattern (Continuous, intermitted or backup)
- Identifications of existing electrical network and system information's
- Study of load pattern and load type to be served by BESS
- Calculation of on grid / off grid load.
- Calculation existing demand and future requirement
- System study for BESS.
- Electrical load and energy consumption calculation

CHAPTER 2:

Scheme of Battery Energy Storage System

- Solar-plus-storage system architectures
- Advantage and disadvantage of AC Coupling
- Advantage and disadvantage of DCC Coupling
- Selection of AC coupling equipment's
- Selection of DC coupling equipment's
- Comparison between AC coupling and DC coupling



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CHAPTER 3:

Battery Sizing and Selection

- Type of battery and its selection (Li-ion, Ni-cd , lead acid etc.)
- Selection of battery cell and types
- Standardized sizes and shapes pertaining to both primary and secondary batteries
- Selection of Key technical terms: end of life ,Depth of discharge (DOD),State of charge (SoC),Cycling rate (C-rate)
- Study Battery critical parameters selection (voltage of cell , Specific energy, Charge (C-rate), discharge (C-rate),Cycle life, current density , Thermal runaway and Applications
- Battery series parallel connection and String size.
- Battery mounting arrangement and installation methodology.
- Battery backup hours

CHAPTER 4:

Selection & Sizing of PCU and grid ties solar inverter

- Selection & sizing of PCU and grid tied solar inverter
- Working principle of bi-directional PCU
- Selection & sizing AC rating of PCU.
- Selection & sizing AC rating of grid tied solar inverter.
- Selection critical parameter of inverter and PCU: input AC, AC output DC Input, DC output, Battery charger parameters, efficiency, protection, communication, Auxiliary power requirement
- Energy Management System.
- Batteries and battery management systems:

CHAPTER 5:

Selection & sizing of Balance of system for BESS

- Selection sizing of inverter duty transformer



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- Sizing of BESS container & ventilation arrangement
- Selection of ACDB , DCDB and switchgear selection
- Selection of DC cable between DC DB to PCU
- Selection AC Cable between ACDB to transformer
- Cable section for PCU and Inverter
- Type of Earthing and calculation
- Section of string inverter or central inverter
- Protection scheme of HT side

CHAPTER 6:

Engineering drawings and Layouts

- Preparation of BESS single line diagram
- Preparation of AC single line diagram
- Preparation of DC single line diagram
- Preparation of BESS container layout & location
- Preparation of earthing layout
- Preparation of cable layouts

Prepared by:

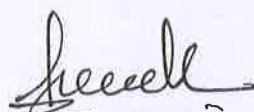
Name: Mr. A. Vigneshkumar

Designation: AP/ EEE


PROGRAMME COORDINATOR


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SCHEDULE PROGRAMME: TRAINING ON BATTERY ENERGY STORAGE SYSTEM

SCHEDULE PERIOD: 16.05.2022 TO 21.05.2022

Dates/ Duration	09:30 AM to 11:30 AM (02.00 hr)		11.45 AM to 1.15 PM (01.30 hr)		2:00 PM to 4.20 PM (02.30hr)
16.05.2022	Registration and Inauguration		Introduction about Battery Energy Storage System		Electrical System Analysis *Engineering Planning of storage system *Identification type of load pattern (Continuous, intermitted or backup)
17.05.2022	*Study of load pattern and load type to be served by BESS, *Calculation of on grid / off grid load. *Calculation existing demand and future requirement	BREAK	Scheme of Battery Energy Storage System *Solar-plus-storage system architectures *Advantage and disadvantage of AC Coupling	LUNCH	*Advantage and disadvantage of DCC Coupling *Selection of AC coupling equipment's
18.05.2022	Battery Sizing and Selection *Type of battery and its selection (Li-ion, Ni-cd , lead acid etc.) *Selection of battery cell and types *Standardized sizes and shapes pertaining		*Battery series parallel connection and String size. *Battery mounting arrangement and installation methodology.		Selection & sizing of PCU and grid ties solar inverter *Selection & sizing of PCU and grid tied solar inverter *Working principle of bi-directional PCU Selection & sizing AC rating of grid tied solar inverter.



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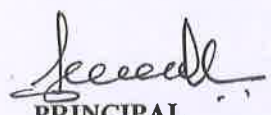


	to both primary and secondary batteries			
19.05.2022	<p>*Energy Management System.</p> <p>*Batteries and battery management systems:</p>		<p>Selection & sizing of Balance of system for BESS</p> <p>*Selection sizing of inverter duty transformer</p> <p>*Sizing of BESS container & ventilation arrangement</p>	<p>*Selection of ACDB , DCDB and switchgear selection</p> <p>*Selection of DC cable between DC DB to PCU</p>
20.05.2022	<p>*Selection AC Cable between ACDB to transformer</p> <p>*Cable section for PCU and Inverter</p>		<p>*Type of Earthing and calculation</p> <p>*Section of string inverter or central inverter</p>	<p>*Protection scheme of HT side</p>
21.05.2022	<p>Engineering drawings and Layouts</p> <p>*Preparation of BESS single line diagram</p> <p>*Preparation of AC single line diagram</p>		<p>*Preparation of DC single line diagram</p> <p>*Preparation of BESS container layout & location</p>	<p>*Preparation of earthing layout</p> <p>*Preparation of cable layouts</p>


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Resource Person Profile

Title of the Programme	Training On Battery Energy Storage System
Duration and Timing of the Programme	16/05/2022 to 21/05/2022
Name of the Resource Person	Mr. A. Vigneshkumar,
Photo Image of the Resource Person	
E-mail	vigneshkumara@jkkmct.edu.in
Mobile No:	9500678747
Designation	AP/EEE
Official Address	Department Of EEE, JKKMCT, T.N. Palayam-638506, Erode (Dt)
Educational Qualification	B.F. (Electrical and Electronics Engineering), M.E. (Applied Electronic)
Experience	13 years of Teaching Experience as Assistant Professor
Field of Interest	Linear Integrated Circuits



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE PROGRAMME TRAINING ON BATTERY ENERGY STORAGE SYSTEM STUDENTS WILLING LIST

S.N O	REG NO	NAME OF THE STUDENT	WILLING STUDENTS SIGNATURE
IV EEE			
1	731218105001	ABINAYA S	S. Arj
2	731218105002	DASAPPA L	D. S. L.
3	731218105003	GAYATHIRI S	S. Gay.
4	731218105004	GOBINATHAN L	G. Binath
5	731218105005	HARINI K V	H. K. V.
6	731218105006	JEEVITHA R	J. Vitha
7	731218105007	KATHIRVEL P	P. Kathir
8	731218105008	KAVEENA E	E. Kaveena
9	731218105012	MERINKUMAR G	← Not willing →
10	731218105013	MICHAL C	C. Michal
11	731218105014	NAVEENMARSHAL Y	Z. Naveen M

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12	731218105017	POOMANI S	P. S.
13	731218105018	PRAVEEN T	P. T.
14	731218105019	RANGARAMA K	Rangarama .K
15	731218105021	ROOPANDURAI G	Roopandurai
16	731218105022	SANJAYSELVA V	S. Jay Selva
17	731218105023	SARANYA K	S. Saranya
18	731218105026	SUGANPRIYA S	Suganpriya
19	731218105029	VARATHARAJAN N	N. Varatharajan
20	731218105030	VASANTH S	V. S.
21	731218105301	DILLIP SUNDHI	← Not willing →
22	731218105302	GOKULNATH A	A. Gokulnath
23	731218105303	PAVITHRAN M	M. Pavithran
III EEE			
24	731219105003	BHARATHIDASAN S	S. Bharathy
25	731219105004	DEEPA S	S. Deepa
26	731219105005	DEEPAK P	P. Deepak
27	731219105006	DHARANI P	P. Dhara

Sreedh
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28	731219105007	DHIVAKARAN R	R. Dhivakaran...
29	731219105010	JANAKRISHNAN M	M. Janakrishnan
30	731219105012	KARTHIKPRABHU P	Selvi
31	731219105013	MAGESHWARI K	J.K. Mageshwari
32	731219105014	MURALITHARAN P	← not willing →
33	731219105015	NANDHAKUMAR S	← Not willing →
34	731219105016	NANDHINI G	G. Nandhini
35	731219105017	NIVETHAVARANI V	V. Nivethavarani
36	731219105019	SELVI S	S. Selvi
37	731219105021	TAMILSELVAM A	A. Tamilselvam
38	731219105022	YUVARAJA S	S. Yuvaraja
39	731219105301	AMSAVENI.M	M. Amshaveni
II EEE			
40	731220105002	DHINESH.P	P. Dhinesh
41	731220105003	ISAKKIRAJA.P	P. Isakkiraja
42	731220105004	KIRUBASANKAR.C	← Not willing →

Principals
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43	731220105005	MUKESH.S	<i>[Signature]</i>
44	731220105006	NAVEENKUMAR.G	<i>[Signature]</i>
45	731220105007	ROHAN.R	<i>[Signature]</i>
46	731220105009	SIVAGIRI.K	<i>[Signature]</i>
47	731220105011	THIRUMARAN DILEEBAN.S	<i>[Signature]</i>
48	731220105301	MAHESWARI.P	<i>[Signature]</i>
49	731220105302	SUNDARAMOORTHI.K	← not willing →
M.E.(PED)-II YEAR			
50	731220415001	VIJAYAPRABAKARAN.S	<i>[Signature]</i>
M.E.(PED)-I YEAR			
51	731221415001	DEIVAMANI.P	<i>[Signature]</i>
52	731221415002	MANIMEGALAI.P	<i>[Signature]</i>

[Signature]
PROGRAM COORDINATOR

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE - TRAINING ON BATTERY ENERGY STORAGE SYSTEM

STUDENTS NAME LIST

S.NO	REG NO	NAME OF THE STUDENT
IV EEE		
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11	731218105017	POOMANI S
12	731218105018	PRAVEEN T
13	731218105019	RANGARAMA K
14	731218105021	ROOPANDURAI G



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15	731218105022	SANJAYSELVA V
16	731218105023	SARANYA K
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29	731219105013	MAGESHWARI K
30	731219105016	NANDHINI G
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44	731220105301	MAHESWARI.P
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M.E.(PED)-I YEAR		
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8	KAVEENA E	/	/	/	/	/	/	/	/	/	/	/	/
9	MICHAL C	/	/	/	/	/	/	/	/	/	/	/	/
10	NAVEENMARSHAL Y	a	a	/	/	/	/	/	/	/	/	/	/
11	POOMANI S	/	/	/	/	a	a	/	/	/	/	/	/
12	PRAVEEN T	/	/	/	/	/	/	/	/	/	/	/	/
13	RANGARAMA K	/	/	/	/	/	/	/	/	a	a	/	/
14	ROOPANDURAI G	/	/	/	/	/	/	/	/	/	/	/	/
15	SANJAYSELVA V	/	/	a	a	/	/	/	/	/	/	/	/
16	SARANYA K	/	/	/	/	/	/	/	/	/	/	/	/
17	SUGANPRIYA S	/	/	/	/	/	/	/	/	/	/	a	a
18	VARATHARAJAN N	/	/	/	/	/	/	/	/	/	/	/	/
19	VASANTH S	/	/	/	/	/	/	a	a	/	/	/	/



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ASSESSMENT - TRAINING ON BATTERY ENERGY STORAGE SYSTEM

ANSWER ALL THE QUESTIONS

(15*2=30 MARKS)

1. The most common used primary cell is :
 - A. Nickel-iron cell
 - B. Lead acid cell
 - C. Nickel cadmium cell
 - D. Lithium cell

2. Capacity of dry cells is
 - A. More when it is supplying current for intermittent periods
 - B. More when it is supplying current for continuous periods
 - C. Unaffected by the type of discharge
 - D. None of the above

3. Level of electrolyte in a cell should be _____ the level of plates
 - A. Below
 - B. Equal to
 - C. Above
 - D. None of the above

4. Extent of corrosion in the underground metal work depends upon
 - A. Amount of moisture
 - B. Type of metals
 - C. Type of soil chemicals
 - D. All above factors



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5. When two batteries are connected in parallel, it should be ensured that
 - A. They have same e.m.f.
 - B. They have same make
 - C. They have same ampere-hour capacity
 - D. They have identical internal resistance

6. Satellite power requirement is provided through
 - A. Solar cells
 - B. Dry cells
 - C. Nickel-cadmium cells
 - D. Lead-acid batteries

7. The mass of an ion liberated at an electrode is directly proportional to the quantity of electricity". The above statement is associated with
 - A. Newton's law
 - B. Faraday's law of electromagnetic
 - C. Faraday's law of electrolysis
 - D. Gauss's law

8. In dry cells, free electrons are released at:
 - A. outside the electrolyte chamber
 - B. anode
 - C. cathode
 - D. cathode and anode both

9. The dc output voltage of a lead-acid cell is:
 - A. 1.35 V
 - B. 1.5 V
 - C. 2.1 V



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- D. about 12 V
10. A type of electrical battery which can be charged, discharged into a load, and then recharged many times is called _____.
- A. Rechargeable battery
 - B. Secondary battery
 - C. Primary battery
 - D. Both 1 and 2
11. The output voltage of a charger is
- A. Less than the battery voltage
 - B. (B) Higher than the battery voltage
 - C. (C) The same as the battery voltage
 - D. (D) None of the above
12. A battery charger acts like a _____.
- A. converter
 - B. rectifier
 - C. cycloconverter
 - D. chopper
13. When the specific gravity of the electrolyte of a lead-acid cell is reduced to 1.1 to 1.15 the cell is in
- A. Charged state
 - B. Discharged state
 - C. Both (A) and (B)
 - D. Active state
14. In order to increase the ampere-hour rating of a battery, cells are connected in
- A. Series
 - B. Parallel



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- C. Series parallel
 - D. Star
15. When the hydrometer reads 1.26 then what is the status of the lead acid cell?
- A. Fully charged
 - B. 25% charged
 - C. 50% charged
 - D. Discharged



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CERTIFICATE COURSE - TRAINING ON BATTERY ENERGY STORAGE SYSTEM

STUDENTS MARK LIST

S.N O	REG NO	NAME OF THE STUDENT	MARKS
IV EEE			
1	731218105001	ABINAYA S	94
2	731218105002	DASAPPA L	87
3	731218105003	GAYATHIRI S	92
4	731218105004	GOBINATHAN L	84
5	731218105005	HARINI K V	94
6	731218105006	JEEVITHA R	85
7	731218105007	KATHIRVEL P	40
8	731218105008	KAVEENA E	94
9	731218105013	MICHAL C	89
10	731218105014	NAVEENMARSHAL Y	88
11	731218105017	POOMANI S	85
12	731218105018	PRAVEEN T	74
13	731218105019	RANGARAMA K	63
14	731218105021	ROOPANDURAI G	91
15	731218105022	SANJAYSELVA V	83
16	731218105023	SARANYA K	90
17	731218105026	SUGANPRIYA S	81
18	731218105029	VARATHARAJAN N	93



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19	731218105030	VASANTH S	59
20	731218105302	GOKULNATH A	68
21	731218105303	PAVITHRAN M	57
III EEE			
22	731219105003	BHARATHIDASAN S	39
23	731219105004	DEEPA S	72
24	731219105005	DEEPAK P	93
25	731219105006	DHARANI P	88
26	731219105007	DHIVAKARAN R	85
27	731219105010	JANAKRISHNAN M	94
28	731219105012	KARTHIKPRABHU P	69
29	731219105013	MAGESHWARI K	79
30	731219105016	NANDHINI G	92
31	731219105017	NIVETHAVARANI V	86
32	731219105019	SELVI S	79
33	731219105021	TAMILSELVAM A	58
34	731219105022	YUVARAJA S	81
35	731219105301	AMSAVENI.M	73
II EEE			
36	731220105002	DHINESH.P	84
37	731220105003	ISAKKIRAJA.P	92
38	731220105004	KIRUBASANKAR C	41
39	731220105005	MUKESH.S	74
40	731220105006	NAVEENKUMAR.G	69
41	731220105007	ROHAN.R	86
42	731220105009	SIVAGIRI.K	81



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43	731220105011	THIRUMARAN DILEEBAN.S	91
44	731220105301	MAHESWARI.P	89
M.E.(PED)-II YEAR			
45	731220415001	VIJAYAPRABAKARAN.S	91
M.E.(PED)-I YEAR			
46	731221415001	DEIVAMANI.P	89
47	731221415002	MANIMEGALAI.P	94

Note: The students those who have secured 50 Marks and above are considered eligible for Programme completion.


PROGRAMME COORDINATOR


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SUMMARY / OUTCOME REPORT

Name of the Certificate Programme: **TRAINING ON BATTERY ENERGY STORAGE SYSTEM**

Course Code : **22EEEEBEESCC01**

Name of the Course Coordinator : Mr.A Vignesh kumar

I hereby affirm that the entire Programme contents in the Certificate Programme

“TRAINING ON BATTERY ENERGY STORAGE SYSTEM”

” listed in the Add on course Syllabus have been actually performed by the students as the part of the prescribed co-curricular activities through Add on course by NAAC and NBA.

I confirmed that the Certificate Programme title as **TRAINING ON BATTERY ENERGY STORAGE SYSTEM** Bench was done by me in the beginning of this semester and course delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Course were actively attended and performed well throughout the duration of this course. And all students were successfully completed and eligible to receive the participation certificate.

Outcome: Students shall be able to gain the knowledge in

1. To provide a training course on description of the primary battery energy storage technologies, how they work and their advantages and disadvantages.
2. Our courses cover training on Technical, Economic and Regulatory Drivers For Large-Scale Energy Storage Systems.
3. The ability of battery energy storage to provide grid support functionality as well as the issues pertaining to integration of energy storage into electricity networks

Name : Mr. A.Vignesh kumar,

Designation : AP/EEE

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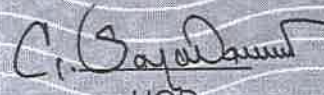



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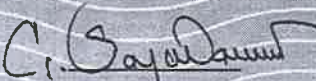


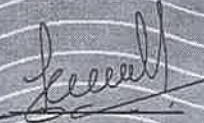
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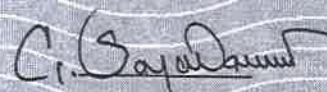
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