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Department of Electrical & Electronics Engineering

One day workshop Report

"Electrical substation Design"

Organised by

Department of Electrical and Electronics Engineering in Association with IEEE- MITS –Student Chapter, 25-06-2021, 10.00AM to 12PM

Submitted by: Dr M.Vaigundamoorthi, Professor., Dept. of EEE

Resource Person: SATHEESHKUMAR JEGADEESAN, (Senior Electrical Engineer)

Mott MacDonald & Company LLC, Oman

Attended: II/III/ IV B-Tech students, Faculties of our institution, participants from other institution (Total Number: 123)

Mode: Microsoft Team

The one-day workshop session was started at 10 AM. The Workshop was initiated by Dr. A. V. Pavan Kumar, HOD-EEE Department. The resource person **SATHEESHKUMAR JEGADEESAN**, was introduced by Dr.M. Vaigundamoorthi, Dept. of EEE. The industry expert addressed the gathering about Electrical Substation Design – Overview

- 1. At the beginning of the presentation, the resource person discussed about the introduction to substation, types of power system network, components, Types of substation based on voltage level and insulation level
- 2. The speaker has explained Overview of substation planning such as site selection, switching scheme, security of supply, extendibility ,maintainability ,operational flexibility etc
- 3. The resource person highlighted the need for electrical clearness ,types and methods to control, switching scheme etc .
- 4. The speaker suggested the engineering deliverables such as 1.Drawing single line diagram, layout, protection, metering, earth layout, cable tray layout, lightning protection, lightning layout etc
- 5. The speaker had explained the interlocking philosophy, substation control such as level 0,1,2,3,. (control local to equipment, Bus bar control, station HMI, Load dispatch) and discussed about earthing grid design , earthing design procedure , EDSA output
- 6. <u>Feedback</u>: The students were moreover passionate to know about the design issues for Substation and software used such as ETAB, The session was concluded followed by a vote of thanks which was given by Dr M .Vaigundamoorthi, Professor –EEE.

Event Photos:



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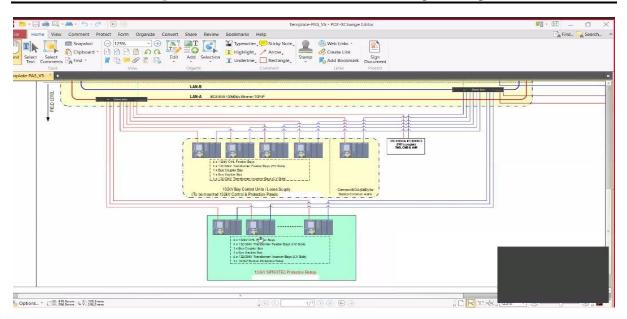




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FEEDBACK ANALYSIS

Feedback of one day workshop on "Electrical Substation Design "

Name of the Guest Speaker: SATHEESHKUMAR JEGADEESAN, (Senior Electrical Engineer)

Mott MacDonald & Company LLC, Oman

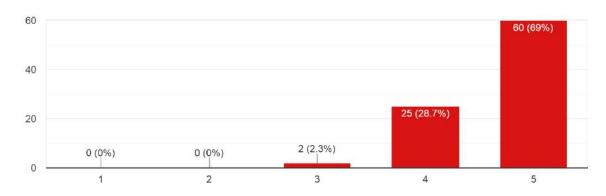
Organized By Dept. of EEE and IEEE Students chapter MITS, Madanapalle Institute of Technology and Science

Faculty co-ordinators: Dr A.V.Pavan Kumar, HOD/EEE & Dr M Vaigundamoorthi, Professor, Dept. of EEE.

Link:

https://docs.google.com/forms/d/e/1FAIpQLSfIP7tWCIheqpJ_D_6i0Tu_XeKMVkAU1wq6bYJ _H2wjUNvFPg/viewform?usp=pp_url

1. The interactive session was scheduled at a suitable time 87 responses



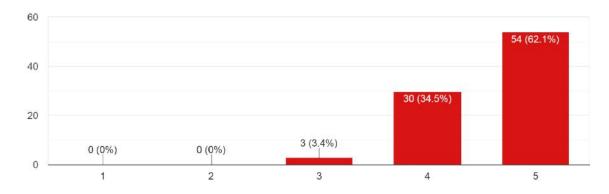


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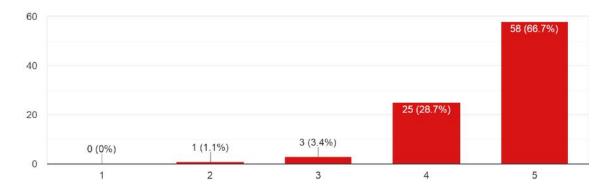


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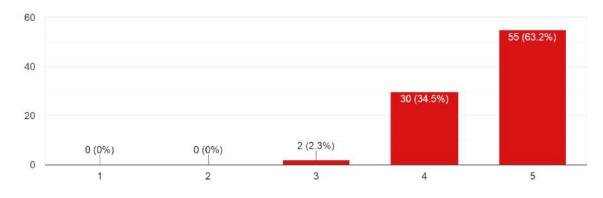
2. The interaction was useful and resource person explanation. 87 responses



3. The information in the interaction was presented in a clear and organized manner. 87 responses



4. The presenter responded to questions an informative, appropriate and satisfactory manner. 87 responses



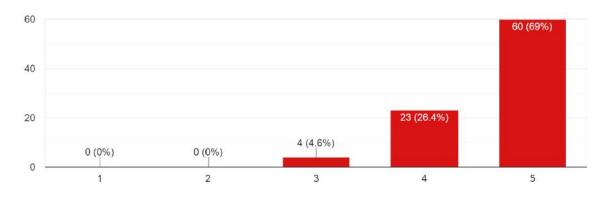


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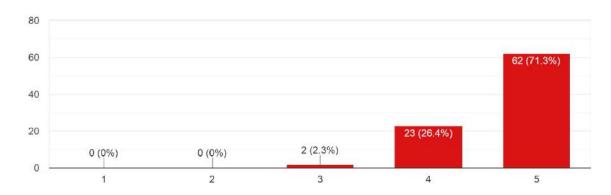


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5. your impression of facilities provided by the institute for interaction. 87 responses



6. Overall, the session was informative and valuable. 87 responses



7. In what ways could this interaction have been improved to better suit your

needs?50 responses

Nothing
Good
No
Yes
it is good
Ya really very useful.because of this interaction season improve our knowledge and knowing about outside what happen after coming out what use evarything knowing.
Interacting with students directly in a Seminar
As today we seen about substation operations . So explanation with an animation is good to understand.As by theory and the practical both were different. So if you show an animation's like then we can easily see how the work and how was the theory states.
Ntg



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SUID



nowing about the substation
Il good
es it is improved our knowledge on the substation
by showing practical things
's great and gainedknowledge
t's perfectly suits my needs.
Aore than enough
low it is good
's very useful and we came to know about substation, awarenessand jobs
Ve get knowledge on designing and how to improve our skills to get core job.
n sharing screen
ts nice
o improve more knowledge about working system of a sub-station
t's good
o know about the skills.
ession time need to increase for more depth of understanding
t was good
Overall Excellent
o listen more classes
o improve our knowledge
esearch work
uture useful concepts
lo improvements it is so nice
o explain with experimental process or showing how it will work in real or explain with some ideo process.
t was so useful to my future
nough
Basic concepts
Vell known person about app which is used for the meeting.
lelping in improving the knowledge about substation and it's equipment.
As we don't know about the knowledge of industries.so,firstly briefly explain the outer structure of industries and things whatever there. Then we will understand about them by the inner part of them and their working etcso, please explain the outer structure of substations firstthe explain all the things since we are freshers.anyway good session sir. Thank you for your valuab ession.
bout the electrical substation design.

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with the vedios clops or clear photos of physical components which will give small practical expetience

8. Any Other Comments 39 responses

No		
Nothing		
Good		
Good		
Good useful session		
Nothing		
The webinar is good		
Thank you for conducting workshop		
It is very useful to the who go to the core side		
Not required		
no		
It helps us to gain knowledge so keep on doing webinars sir		
Useful topic		
This program is so useful and informative		
No comments		
No comments		
Session is nice sir.		

List of Participants:

S NO	Full Name	User Action	Timestamp
1	HOD- EEE	Joined	6/25/2021, 11:33:06 AM
2	Mahendra Babu. T	Joined before	6/25/2021, 11:33:06 AM
3	satheeshkumar (Guest)	Joined before	6/25/2021, 11:33:06 AM
4	Mallesh Naik. S	Joined before	6/25/2021, 11:33:06 AM
5	Siva Nanda Kishore. G	Joined before	6/25/2021, 11:33:06 AM
6	Thejeswini. R	Joined before	6/25/2021, 11:33:06 AM
7	Yaswanth Kumar P	Joined before	6/25/2021, 11:33:06 AM
8	Mohammed Afzal. S	Joined before	6/25/2021, 11:33:06 AM
9	Dr Vaigundamoorthi M	Joined before	6/25/2021, 11:33:06 AM
10	Howdekar Eshaal Prem	Joined before	6/25/2021, 11:33:06 AM
11	Ramesh. U	Joined before	6/25/2021, 11:33:06 AM
12	shivasaignanesh	Joined before	6/25/2021, 11:33:06 AM
13	Upendra. K	Joined before	6/25/2021, 11:33:06 AM
14	Hemalatha. Nossam	Joined before	6/25/2021, 11:33:06 AM
15	Sreemanth Reddy. S	Joined before	6/25/2021, 11:33:06 AM



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16	Sumatha. K	Joined before	6/25/2021, 11:33:06 AM
17	Sumanth. S	Joined before	6/25/2021, 11:33:06 AM
18	Vishnu Vardhan. E	Joined before	6/25/2021, 11:33:06 AM
19	Bharadwaj. T L	Joined before	6/25/2021, 11:33:06 AM
20	Shaik Afzal Ali	Joined before	6/25/2021, 11:33:06 AM
21	Nanda Kishore. V	Joined before	6/25/2021, 11:33:06 AM
22	K.Mallikarjuna Reddy	Joined before	6/25/2021, 11:33:06 AM
23	Mounika. A	Joined before	6/25/2021, 11:33:06 AM
24	Venkata Chandra Kanth. V	Joined before	6/25/2021, 11:33:06 AM
25	Reddy Nagaraja. M	Joined before	6/25/2021, 11:33:06 AM
26	Hemanthi.p	Joined before	6/25/2021, 11:33:06 AM
27	Wafiqah Naaz. M	Joined before	6/25/2021, 11:33:06 AM
28	challa silpi priyanka	Joined before	6/25/2021, 11:33:06 AM
29	Siva Kiran Reddy. B	Joined before	6/25/2021, 11:33:06 AM
30	Sai Girish. N	Joined before	6/25/2021, 11:33:06 AM
31	B.Amaravathi	Joined before	6/25/2021, 11:33:06 AM
32	Praneeth Kumar. V	Joined before	6/25/2021, 11:33:06 AM
33	SHOBHA. R	Joined before	6/25/2021, 11:33:06 AM
34	Sai Pradeep. P	Joined before	6/25/2021, 11:33:06 AM
35	Vamsi. K	Joined before	6/25/2021, 11:33:06 AM
36	Bhargavi. K	Joined before	6/25/2021, 11:33:06 AM
37	Vijay Kumar. A	Joined before	6/25/2021, 11:33:06 AM
38	Dr. A. Muni Sankar (Guest)	Joined before	6/25/2021, 11:33:06 AM
39	Manideep. K	Joined before	6/25/2021, 11:33:06 AM
40	Syed Maaz	Joined before	6/25/2021, 11:33:06 AM
41	Sameer. S M D	Joined before	6/25/2021, 11:33:06 AM
42	Naveen. P	Joined before	6/25/2021, 11:33:06 AM
43	Sai Teja. N	Joined before	6/25/2021, 11:33:06 AM
44	Uday Kiran Reddy. B	Joined before	6/25/2021, 11:33:06 AM
45	Rukmini. K	Joined before	6/25/2021, 11:33:06 AM
46	Venkatesh. L	Joined before	6/25/2021, 11:33:06 AM
47	Rajakumar.B	Joined before	6/25/2021, 11:33:06 AM
48	Mounika. N	Joined before	6/25/2021, 11:33:06 AM
49	Himabindhu.R	Joined before	6/25/2021, 11:33:06 AM
50	Sai Praneeth. G	Joined before	6/25/2021, 11:33:06 AM
51	S.Girivardhan	Joined before	6/25/2021, 11:33:06 AM
52	Sharif. V	Joined before	6/25/2021, 11:33:06 AM
53	Leela Murali. S	Joined before	6/25/2021, 11:33:06 AM
54	Naveen Kumar. Katrimal	Joined before	6/25/2021, 11:33:06 AM
55	Devan Dilip. M	Joined before	6/25/2021, 11:33:06 AM
56	Indra Sena Reddy. V	Joined before	6/25/2021, 11:33:06 AM
57	Venkata Swaroop Kumar. C	Joined before	6/25/2021, 11:33:06 AM



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59	Saritha. C	Joined before	6/25/2021, 11:33:06 AM
60	Bhargavi. T	Joined before	6/25/2021, 11:33:06 AM
61	Asha. K	Joined before	6/25/2021, 11:33:06 AM
62	Vani. B	Joined before	6/25/2021, 11:33:06 AM
63	Monalisa. M	Joined before	6/25/2021, 11:33:06 AM
64	Nirupamma. A	Joined before	6/25/2021, 11:33:06 AM
65	Nethaji. R	Joined before	6/25/2021, 11:33:06 AM
66	K.Siva Kumar	Joined before	6/25/2021, 11:33:06 AM
67	Dr Hira Singh Sachdev	Joined before	6/25/2021, 11:33:06 AM
68	Ganesh. D	Joined before	6/25/2021, 11:33:06 AM
69	Venkata Karthik.M	Joined before	6/25/2021, 11:33:06 AM
70	Vunnur Basha.D	Joined before	6/25/2021, 11:33:06 AM
71	Sowmya. N	Joined before	6/25/2021, 11:33:06 AM
72	Geetha. M	Joined before	6/25/2021, 11:33:06 AM
73	Sravan Kumar Reddy. N	Joined before	6/25/2021, 11:33:06 AM
74	Madhu. G	Joined before	6/25/2021, 11:33:06 AM
75	Vani. G	Joined before	6/25/2021, 11:33:06 AM
76	Vamsinath Reddy. Y	Joined before	6/25/2021, 11:33:06 AM
77	Vennela. L	Joined before	6/25/2021, 11:33:06 AM
78	Raviteja. Y	Joined before	6/25/2021, 11:33:06 AM
79	Vemareddy. B	Joined before	6/25/2021, 11:33:06 AM
80	Rajesh KS	Joined before	6/25/2021, 11:33:06 AM
81	Balaji. D	Joined before	6/25/2021, 11:33:06 AM
82	Amarnath. K	Joined before	6/25/2021, 11:33:06 AM
83	Shiva shankar Naik.D	Joined before	6/25/2021, 11:33:06 AM
84	Chandana. K	Joined before	6/25/2021, 11:33:06 AM
85	G.Thulasi	Joined before	6/25/2021, 11:33:06 AM
86	Fahiyakhanam. G	Joined before	6/25/2021, 11:33:06 AM
87	19691a02a6	Joined before	6/25/2021, 11:33:06 AM
88	Jaswanth. R	Joined before	6/25/2021, 11:33:06 AM
89	Surekha. D	Joined before	6/25/2021, 11:33:06 AM
90	Leelasundar. J S	Joined before	6/25/2021, 11:33:06 AM
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94	Kiran Kumar.y	Joined before	6/25/2021, 11:33:06 AM
95	P.Sathish Kumar	Joined before	6/25/2021, 11:33:06 AM
96	Sasikala Devi. R	Joined before	6/25/2021, 11:33:06 AM
97	Bharath Kumar. U	Joined before	6/25/2021, 11:33:06 AM
98	M.Srinivasulu	Joined before	6/25/2021, 11:33:06 AM
99	Vamshi. G	Joined before	6/25/2021, 11:33:06 AM



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I	1	1	1
100	Pavan Kalyan.G	Joined before	6/25/2021, 11:33:06 AM
101	Dinesh Reddy. D	Joined before	6/25/2021, 11:33:06 AM
102	Shakoor Baba. D	Joined before	6/25/2021, 11:33:06 AM
103	Ravindra Babu.JM	Joined before	6/25/2021, 11:33:06 AM
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105	Ganesh. M	Joined before	6/25/2021, 11:33:06 AM
106	Sai Sharmila. A	Joined before	6/25/2021, 11:33:06 AM
107	Mohammad Saqib Khan. P	Joined before	6/25/2021, 11:33:06 AM
108	Praneeth Guptha. K	Joined before	6/25/2021, 11:33:06 AM
109	Tulasi. B	Joined before	6/25/2021, 11:33:06 AM
110	Akash Naik. B	Joined before	6/25/2021, 11:33:06 AM
111	Sunitha. S	Joined before	6/25/2021, 11:33:06 AM
112	Sohail Basha. S	Joined before	6/25/2021, 11:33:06 AM
113	Suman. A	Joined before	6/25/2021, 11:33:06 AM
114	Maneesha. S	Joined before	6/25/2021, 11:33:06 AM
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118	Niha. S	Joined before	6/25/2021, 11:33:06 AM
119	Charan. R	Joined before	6/25/2021, 11:33:06 AM
120	Hemalatha. Nagichetty	Joined before	6/25/2021, 11:33:06 AM
121	Uday Kiran. P	Joined before	6/25/2021, 11:33:06 AM
122	Bala Chaithanya Krushna.P	Joined before	6/25/2021, 11:33:06 AM
123	Uday Sai. P J	Joined	6/25/2021, 11:33:18 AM

Dr. A. V. PAVAN KUMAR

M. Vaigundanous Th

(Dr M.VAIGUNDAMOORTHI)