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Faculty Interaction Program - "State of the art - Power Electronics and Control of Electrical Drives"

1 message

HOD EEE <hodee@svce.ac.in> Thu, Dec 5, 2019 at 3:16 PM
To: HODs Group <hod@svce.ac.in>, svcefaculty <svcefaculty@svce.ac.in>
Cc: Principal SVCE <principal@svce.ac.in>

Dear Sir / Madam,

The Department of Electrical & Electronics Engineering cordially invite you all for the Faculty Interaction program with Mr. Lakshmi Narayanan, Senior Engineer, SCIAMBLE and Mrs. Ramya Raju, Business Contact, SCIAMBLE on 6th December, 2019 (Friday) at 10.30 AM in Power Electronics Laboratory, First Floor, EEE Department.

The topic for discussion is "State of the art - Power Electronics and Control of Electrical Drives" followed by the demonstration of multipurpose hardware Power Electronics and Electric Drives kit developed in the lab of Professor Ned Mohan, an IEEE Fellow and an Oscar 'A' Schott Professor by Dr. Siddarth Raju, post - doctoral researcher, University of Minnesota.

Thanks & Regards,

Dr.KR.Santha,
Vice Principal & HOD/EE
SVCE

Faculty Interaction Program - "State of the art - Power Electronics and Control of Electrical Drives"

Inbox

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to HODs, svcefaculty, Principal

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Thanks & Regards,

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SRI VENKATESWARA COLLEGE OF ENGINEERING

Name of the department : Electrical and Electronics Engineering

Title of the event : Workshop on "State of art-Power Electronics and Control of Electrical Drives"

Date : 6th December, 2019 (Friday) at 10.30 AM

Time : **10.30AM**

Venue : **Power Electronics Laboratory**

Program details:

"State of the art - Power Electronics and Control of Electrical Drives" followed by the demonstration of multipurpose hardware Power Electronics and Electric Drives kit developed in the lab of Professor Ned Mohan, an IEEE Fellow and an Oscar 'A' Schott Professor by Dr. Siddarth Raju, post - doctoral researcher, University of Minnesota

AEEE Coordinator

HOD/EE

MAIL SVCE

HOD EEE <hodee@svce.ac.in>

Lab kit quote and Meeting Minutes.

Ramya Raju <ramyaraju2611@gmail.com> Mon, Dec 16, 2019 at 10:49 AM
To: HOD EEE <hodee@svce.ac.in>
Cc: In@sciamble.com, raju@sciamble.com

Respected Santha madam (HOD EEE),

Many thanks for the meeting, please see attachments for a quote for the power electronics and electric drives lab kit. We have provided a pair of quotes in Indian rupees and other in dollars. In the early part of 2020, we will also provide a quote for power systems lab kit.
Below are the minutes of the meeting at SVCE

SVCE – Sciamble Meeting December 6, 2019

Key points covered during this meeting:

Introduction:
We covered topics on how Sciamble was established in Prof. Ned Mohan's Lab at the University of Minnesota, supported by the grant from the Office of Naval Research, USA. Prof. Mohan Heads to Consortium of Universities for Sustainable Power (CUSP) with over 300 U.S. universities that follow the curriculum developed at the University of Minnesota through funding from various organizations like ONR, NSF, NASA, EPRI, etc. The goal of CUSP is to provide first-rate education in the field of electrical energy systems with emphasis on sustainability.

Sciamble demonstration:
Sciamble engineer presented Sciamble range of products and its applicability to SVCE. Below are some of the major conclusions
1) Workbench simulation and rapid prototyping software is a general purpose software platform capable of mathematical simulation. This includes modelling of low- power/ high- power applications, basic/ advanced tools and is not specific to motor- drives and power electronics. Workbench simulation is free to use and can be downloaded today.
2) Discussed the planned use of Workbench simulation tool in upcoming electric drives text- books. Discussed Workbench presence in publications and technical papers.
3) Showed visuals of power electronics, power systems platform for academic use. Introduced general purpose controller for advanced research and showed live demo of the same
4) Live demonstration of electrical drives lab was conducted. Showcased lab kit which is 75% cheaper than other commercially available solution. All the experiments both undergraduate and graduate level drives lab can be conducted using single kit. The kit is robust and safety considerations have been built into the kit.

Further actions:
Based on the positive feedback that was received from the staff and researchers of SVCE, Dr. K.R. Santha, Professor and HOD EE has requested a quote for one unit each of electric drives, power electronics and power systems modules. Following this Sciamble to send a quote and Process Order to SVCE accordingly.

Q&A Session:
1) During setting up of the full lab, Sciamble team will provide an in person set up and hands on training services.
2) In the off chance of a malfunction, Sciamble will work with SVCE to resolve the issue in a timely manner.
3) Sciamble is tied up with local Chennai based company to handle all local actions.
4) New textbook by Prof. Ned Mohan will be published by Wiley next year which will be based on these lab kits.

Resource Material:
Basic Electric drives manual: https://sciamble.com/Resources/pe-drives-lab/basic-drives
Advanced Electric drives manual: https://sciamble.com/Resources/pe-drives-lab/advanced-drives
Workbench software download: https://sciamble.com/Products

Also please let me know when we can meet next to discuss in detail about the training and setup.(December or January)

PS: Our Sincere Thanks to all those Present for the meeting.

Best Regards,
RamyaRaju.

On 05-Dec-2019, at 2:40 PM, Ramya Raju <ramyaraju2611@gmail.com> wrote:

Thank You for arranging this meeting. I have a few general requirements , it would be much appreciated if you can have a look into it and confirm the request.

Requirements: Guest Parking - 2spots

Wifi access code for 1 laptop

Projector (VGA& HDML setup)

40volts DC power Supply

Banana Cable.

SVCE-Sciamble Electric Drives Lab

Live Demo

Duration : 75 minutes, including Q&A session.

Date: 6 th Dec 2019. 10.30-11.45 am.

Attendees on site :

1.Mr. Lakshmi Narayanan-Senior Engineer

Education: M.S. - University of Minnesota

Field: Power Electronics & Drives

SVCE Alumni.

2.Mrs. RamyaRaju-Sciamble Business contact in India.

Looking Forward to meeting You All.

Best Regards ,

RamyaRaju.

On 05-Dec-2019, at 12:53 PM, HOD EEE <hodee@svce.ac.in> wrote:

Dear Mam,
Thanks for accepting our invitation to interact with our faculty members in the field of Power Electronics & Drives.

Kindly provide the details like Name, Designation / Profession etc.. of the resource persons to mention it in the formal invitation to all our faculty members.

The college location will be shared to your mobile number shortly and for further communication, kindly contact the office number:
044-27152000 (Extn: 250 or 251)

Arrangements are made for 40V DC power supply and banana cables in our laboratory.

Thanks & Regards,

Dr.KR.Santha,
Vice Principal & HOD/EE
SVCE

4 attachments

Electric Drives_SVCE_191212_INR.pdf
234K

Power Electronics_SVCE_191212.pdf
217K

Power Electronics_SVCE_191212_INR.pdf
236K

Electric Drives_SVCE_191212.pdf
215K

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Sri Venkateswara College of Engineering
(An Autonomous Institution – Affiliated to Anna University)
Department of EEE

Report - Faculty Interaction program - "State of the art - Power Electronics and Control of Electrical Drives" (16/12/2019)

Presenter : Mr. Lakshmi Narayanan, Senior Engineer, SCIAMBLE and
Mrs. Ramya Raju, Business Contact, SCIAMBLE
Date : 6th December, 2019 (Friday) at 10.30 AM
Venue : Power Electronics Laboratory, First Floor, EEE Department.

Key points covered during this meeting:

The topics on how Sciamble was established in Prof. Ned Mohan's Lab at the University of Minnesota, supported by the grant from the Office of Naval Research, USA is covered. Prof. Mohan Heads to Consortium of Universities for Sustainable Power (CUSP) with over 300 U.S. universities that follow the curriculum developed at the University of Minnesota through funding from various organizations like 0NR, NSF, NASA, EPRI, etc. The goal of CUSP is to provide first-rate education in the field of electrical energy systems with emphasis on sustainability.

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The session ended after Q&A session.

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kR. Sarl

HOD/EEE

S, Arulmozhi, AP/EE