



IEEE - MVSR STUDENT BRANCH
Student Branch Code: 12161, School Code: 41329276



Scope of Innovations using ESim Software

IEEE MVSR PES Student Chapter in collaboration with Institution's Innovation Council and Spoken Tutorial has conducted a One Day Professional Development Program on "Scope of Innovations using ESim Software". This PDP was conducted to familiarise students and faculty with eSim Software.

Student Branch Mentor:

Dr. Atul Negi,
Professor, School of CIS,
University of Hyderabad

Student Branch Advisor:

Dr. G. Kanaka Durga,
Principal and Professor,
MVSR Engineering College.

Student Branch Counsellor:

Dr. D. Hari Krishna,
Associate Professor, EEE Dept.,
MVSR Engineering College.

Student Branch Executive Committee:

Chair	Mr. N. Avinash
Vice Chair	Ms. N. Sahitya
Secretary	Mr. Ch. Saiteja
Joint Secretary	Ms. R. Ruchita Reddy
Treasurer	Ms. P. Sruti
Operating Committee Head	Ms. A. P. Sahasra

WIE Affinity Group:

Chair	Ms. M. Shrestha Reddy
Vice Chair	Ms. T. Akanksha
Secretary	Ms. B. Sudeepthi
Joint Secretary	Ms. V. Sai Sri
Treasurer	Ms. S. Vibhava

Power and Energy Society:

Chair	Ms. B. Nikita Reddy
Vice Chair	Mr. K. Sai Ganesh
Secretary	Ms. P. Sisira Reddy
Joint Secretary	Mr. G. Surya Teja
Treasurer	Mr. Sriteja Mopati
Women in Power	Ms. T. Snigdha

WIE Affinity Group Advisor:

Mrs. A. Vijaya Vahini,
Assistant Professor, IT Dept.,
MVSR Engineering College.

PES Student Chapter Advisor:

Dr. D. Hari Krishna,
Associate Professor, EEE Dept.,
MVSR Engineering College.

CS Student Chapter advisor:

Mrs. B. Saritha
Associate Professor, CSE Dept.,
MVSR Engineering College.

CASS Student Chapter Advisor:

Mrs. S. Aruna
Assistant Professor, ECE Dept.,
MVSR Engineering College.

Computer Society:

Chair	Mr. E. Sai Charan
Vice Chair	Ms. M. Jahnavi
Secretary	Mr. V. Manikanta
Joint Secretary	Mr. M. Shiva Sai Meher
Treasurer	Ms. N. Sriya
Women in Computing	Ms. A. Manisha Reddy

Circuits & Systems Society:

Chair	Mr. D. Venkat
Vice Chair	Ms. K. Pranathi
Secretary	Ms. K. Shreeya Rishi
Joint Secretary	Mr. N. Bhargav Saketh
Treasurer	Ms. B. Anjana

Operating Committees:

Publicity	Mr. Zeeshan, Mr. Omer
Membership	Mr. J. Sahith
Design	Mr. K.Uthej, Mr. Danish
Program	Mr. P. Srikrushna
Social Media & Content Writing	Ms. K. Laxmi Priya

Session details:

Date: 17th November, 2020.

Time: 10:00am – 12:00pm

No. of participants: 28

Speaker for the session: Mr. P.V.V. Raghava Sharma , Assistant Professor, Electrical and Electronics Engineering Department at MVSR Engineering College. Mr. P.V.V. Raghava Sharma did his Bachelors of Engineering in MVSR Engineering College. Later, he completed his Masters and did his specialization in Power Electronics in JNTUH. He has 14 years experience in teaching. His research areas of interest include Micro processors, Arduino, IoT, Artificial Intelligence



Poster for the event.

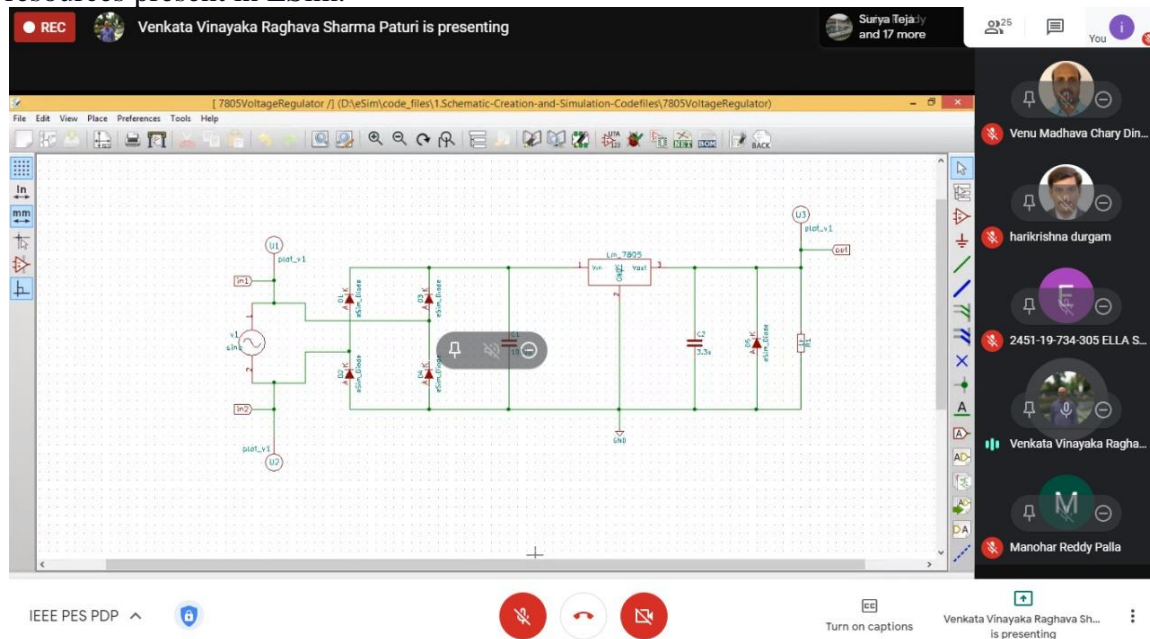
Spoken Tutorial Coordinator Mr. N. Bharat Mohan, Assistant Professor, EEED, MVSREC has initiated the session by welcoming the speaker, faculty of MVSR Engineering College and all other attendees. He invited Head of Electrical and Electronics Department of MVSR Engineering College Mr. C.V.G.K. Rao to address the attendees. C.V.G.K. Rao has appreciated the efforts of Dr. D. Hari Krishna, Student Branch Counsellor, IEEE MVSR SB, Mr. Bharat Mohan and Mr. Y.L.N. Rao for conducting valuable programs. He has shared the importance and applications of ESim software.

Later, Dr. D.V.M. Chary, Professor , EEED has addressed the meeting and acknowledged the efforts of the faculty coordinators and encouraged faculty and students to do innovations using this software.

Later, Dr. D. Hari Krishna , Associate Professor, EEED has welcomed the speaker and faculty of EEED and introduced IEEE MVSR SB. He thanked Mr. P.V.V. Raghava Sharma and Mr. Y.L.N. Rao for coming up with the idea. Later, Mr. Bharat Mohan, Assistant Professor, EEED has introduced the speaker to the attendees and handed over the session to him.

The speaker has began the session by thanking IEEE MVSR SB and MVSREC for providing this opportunity. He has shared about the system requirements and prerequisites to learn the ESim software.

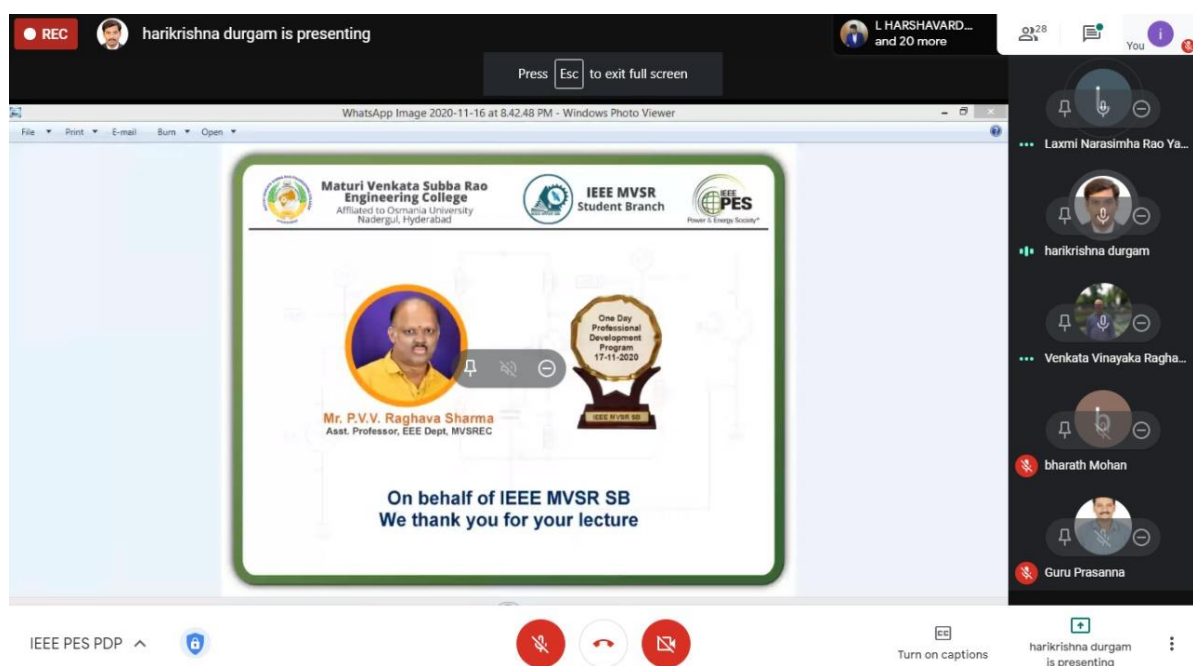
He has explained about the ESim software and uses of it. He also shared the steps to download it and the various packages to be installed with ESim. Later, he illustrated various resources present in ESim.



Speaker showing the Schematic Diagram.

Firstly, he selected the required components, connected them and built the circuit in schematic diagram. Then, he created a netlist and then converted the Kicad document into Ngspice. He has selected various required options to get desired graphs and then clicked for simulation.

He has showed us the step-by-step process of how Model Editor option is used to create new models of devices like Diode, BJT, IGBT etc. Later, he has explained how to design PCB layouts and generate Gerber files using KiCad. He has shared few pictures of how the PCB layout looks like after connecting the components.



Virtual Momento presented to Mr. P.V.V. Raghava Sharma.

Later, the speaker cleared the doubts raised by the attendees. As a token of appreciation, on behalf of IEEE MVSR SB, IEEE MVSR Student Branch Counsellor and PES Advisor Dr. D. Hari Krishna has presented a virtual momento to Mr. P.V.V. Raghava Sharma.

The session came to an end after the vote of thanks proposed by Mr. Y.L.N. Rao, EEED, Institution's Innovation Council Coordinator.

REPORTED BY –

IEEE MVSR SB.