ABOUT THE PROGRAM

The theme of the FDP is "Exploring new semiconductor materials and technologies for Semiconductor and Photonic industry. The future of semiconductor industry looks bright and the accelerated adoption of new technologies like AI and IoT going to create opportunities for the academicians, industry and job seekers. With the advancement of technology, the demand for faster, powerful, and more efficient devices is growing. only going to increase. To promote India as a major global hub for electronics design and manufacture, the India Semiconductor Mission (ISM) was established with the goal of building a strong semiconductor and display ecosystem. The government of India also initiated various schemes for setting up Semiconductor industries in India. In this context the Department of Physics to organize an FDP on "Advances in Semiconductor and Photonic Devices (ASPD- 2024)" This FDP aims to provide valuable insights into the recent advances in Semiconductor and Photonic devices and enhance the academic and research capabilities of participants.

ABOUT THE COLLEGE

Vasavi College of Engineering (Autonomous) is established in 1981 by Vasavi Academy of Education. The college is a NAAC A++ and NBA accredited technical Institution. It represents a rich tradition of excellence in technical education. The college is situated at Ibrahimbagh, in the vicinity of famous Golconda Fort, Hyderabad, Telangana. At present it is offering 7 UG programs in CSE, CSE (AI & ML), ECE, EEE, IT, Civil and Mechanical engineering and 4 PG Programmes in CSE, ECE, EEE and Mechanical Engineering. The UGC has conferred Autonomous status to the college for 10 years up to 2030-31.

Vision: Striving for a symbiosis of technological excellence and human values"

Mission: "To arm young brains with competitive technology and nurture holistic development of the individuals for a better tomorrow."

ABOUT THE PHYSICS DEPARTMENT

The Department of Physics has well qualified and experienced faculty with doctorate degrees. The faculty members are involved in research activities and regularly publishing papers in the Journals of high repute. Physics material research laboratory is equipped with micro controlled high temperature electric furnace (1400^{0}C), twin ball mill system, Keithley digital single balance, oven etc to synthesis phosphors, glasses, ceramics etc.

Department Mission: To imbibe the spirit of scientific temper and to instil logic and analytical approaching budding engineers.

One Week Faculty Development Program on

ADVANCES IN SEMICONDUCTOR AND PHOTONIC DEVICES (ASPD-2024)

12-17th August 2024 (Virtual Mode)

Organized by

DEPARTMENT OF PHYSICS

VASAVI COLLEGE OF ENGINEERING (Autonomous)

(Sponsored by Vasavi Academy of Education)

Accredited by NAAC with 'A++' Grade

9-5-81, Ibrahimbagh, Hyderabad-500031, Telangana, India

Affiliated to Osmania University and Approved by AICTE

www.vce.ac.in

One Week FDP on

Advances in Semiconductor and Photonic Devices (ASPD-2024)

Intended Participants:

Faculty members from Academic Institutions, research institutions and industry. This program is well designed for faculty members from various disciplines like CSE, ECE, EEE, Instrumentation, IT, Physics and host of other fields.

Certificate of participation:

The link for joining FDP will be sent to your registered email and FDP WhatsApp group. **E- Certificate** will be sent to the participants with **80% of attendance** and submission of feedback form for each session is mandatory to issue E- Certificate.

How to Apply:

Interested candidates can apply by submitting duly filled in google form on or before **30 July 2024** after paying the registration fee.

Registration Fee: Rs. 200/-

Link for payment of registration fee:
https://pay.webfront.in/#/merchantinfo/vasavi-college-of-engineering/6919

Link for registration to FDP: **https://forms.gle/G16SNMui79BZPtA19**

Online Platform: MS Teams

Topics to be covered:

- Metal Oxide Semiconductors
- Silicon Photonics
- Semiconductor nanostructures
- Device Modelling
- Emerging trends in semiconducting memory devices.
- Wide band Materials (Silicon Carbide)
- Metal based nano structures for photodetector devices
- Multilayer devices and their applications
- Microwave ICs and their applications in Satellites
- II-VI semiconductors/ 2D materials
- Integrated photonics

ADVISORY COMMITTEE

Dr. S.V.S. Nageswara Rao, Professor, University of Hyderabad
Dr. J. Suryanarayana, Professor, IIT-Hyderabad
Dr. Y. Purushotham, Scientist E, C-MET, Hyderabad
Dr. S. Srinath, Professor, University of Hyderabad
Dr. G. Sai Saravanan, Scientist G, GAETEC, Hyderabad.
Dr. D. Karuna Sagar, Sr. Professor, Dean of Sciences, OU, Hyderabad.
Dr. D. Haranath, Professor, NIT- W, Warangal
Dr. M. Srinivas, Professor and Head, Department of Physics, OU, Hyderabad
Dr. M. Sree Ramana, Scientist-F, RCI, Hyderabad
Dr. A. S. Saiprasad, Head, Department of Physics, VCE, Hyderabad.

ORGANIZING COMMITTEE

Chief Patron:	Sri. P. Ram Mohan Rao, *President, Vasavi Academy of Education*
Patron:	Sri M. Krishna Murthy, *Secretary, Vasavi Academy of Education*
Chairman:	Prof. S. V. Ramana, *Principal, VCE*
Convener:	Dr. P. Venkateswara Rao, *Associate Professor*
Co-Conveners:	Dr. G. Ramadevudu, *Assistant Professor (Sr)*
	Dr. R. Naga Raju, *Assistant Professor*
Secretary	Dr. Vanita Thakur, *Assistant Professor*

EMINENT SPEAKERS

Prof. Chennupati Jagadish, Australian National University (ANU)
Prof. S. Parasuraman, IIT-Madras
Prof. Samit K. Ray, IIT- Kharagpur
Dr. Sandeep Mahajan, Scientist E, C-MET, Hyd.
Prof. S. V. S. Nageswara Rao, University of Hyderabad
Dr. G. Sai Saravanan, Scientist-G, GAETEC, Hyd.
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