

# **GOVERNMENT VIDARBHA INSTITUTE OF SCIENCE AND HUMANITIES, AMRAVATI**



(An Autonomous Institute of the Govt. of Maharashtra; Reaccredited by NAAC with 'A' grade (CGPA 3.32)

Website: http://gvishamt.org



# MATERIAL PHYSICS AND ELECTRONICS FOR SUSTAINABLE DEVELOPMENT



**ICMPE-2024** July 01-02, 2024



The Department of Physics & Electronics, Government Vidarbha Institute of Science & Humanities, Amravati. (M.S.), India 444 604



IQAC, Sant Gadge Baba Amravati University, Amravati. (M.S.), India 444 602 Pre Indian Administrative Services Training Institute, Amravati, (M.S.), India 444 604



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### **Conference Structure**

Conference will have Key Note Lectures, Plenary Talks, Invited Talks, Oral Presentations and Poster presentations.

### **Background**

The International Conference on Material Physics and Electronics for sustainable development (ICMPE-2024) is a multidisciplinary event aiming at uniting academicians, industry professionals and young researchers to share their ideas and knowledge. This will augment the present state of knowledge in the respective fields of study for societal development and economic prosperity. The conference aims to establish an open debate forum through this platform by gathering plethora of academicians, young scientists, researchers and engineers. The conference will focus on the advanced topics to satisfy the global demand for novel materials and difficulties in the field of material science and nanotechnology. This will provide a platform to present the latest research findings, discuss the challenges and opportunities in the field of material science and electronics. Sustainable industrialization and infrastructure with innovation can unleash economic forces that generate employment and income. New ideas may erupt in such August gathering of eminent researchers from all over the world under one roof. Such activities will expose all the delegates accountable to the commitments to improve the people access to good health and health care.

## **Conference Topics**

- Advance Materials
- Carbon Nanostructures and Graphene
- Optoelectronic Materials
- Spintronics
- Environmental and Green Materials
- Nano-engineering and its applications
- Biosensors and Bio-electronics materials
- Meta materials
- Dielectrics

- Biomaterials and Medical Devices
- Computational Modelling of Metals and Materials
- Nano-technology & Nano Engineering
- Gas sensors and Smart Materials
- Ceramics, Glasses and Composite Materials
- Polymer science
- Energy Materials
- Organic Electronics and Devices
- DFT and Molecular Dynamics Soft Instrumentation

### **Important Dates:**

Abstract Submission - 30 May 2024

Full Length Paper Submission - 30 May 2024 (on or Before)

Intimation of Acceptance - 10 June 2024

### **Submission of Papers**

Interested authors are requested to submit full length manuscript of research paper in MS-Word including paper title, name of authors, affiliation and e-mail address of the corresponding authors. The font should be Times New Roman, size 12, 1.5. spacing Please mail your paper at e-mail icmpe2024@gmail.com

### **Paper Publication**

The selected and peer reviewed papers will be published in Scopus index https://www.scopus.com/sourceid/19700186890#tabs=2 journal, Journal of Electrical Systems published by Engineering and Scientific Research Groups (ESR Groups) having ISSN: 1112-5209. Authors are requested to download the paper template from website of journal https://journal.esrgroups.org/jes . The template ready manuscript should be submitted to conference email-icmpe2024@gmail.com

The publication fee Rs 500/- will be charged extra.

#### **FEES DETAILS**

	Registration Fees
-	Rs. 1000
-	Rs. 1500
-	Rs. 3000
-	USD 75
-	Rs. 500 (Indians)
	USD 20 (Foreign delegates)
	- - - -

Registration fees include the conference kit, breakfast, lunch and dinner. Delegates will have to make their own arrangements for accommodation.

#### **Contact for Correspondence**:

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The registration fees may be paid Online/ Internet Banking to:

### **Account Holders Name:**

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#### **ABOUT THE INSTITUTE**

The Government Vidarbha Institute of Science and Humanities, Amravati is a premier autonomous education institute in the Vidarbha region of Maharashtra, affiliated to Sant Gadge Baba Amravati University, Amravati. Founded in 1923, it is one of the oldest academic institutions in the country and has celebrated its centenary in 2023. The institute has achieved many milestones in its journey of the hundred years and has been awarded the prestigious 'A' grade by the National Assessment and Accreditation Council (NAAC) with CGPA 3.32. It is a multi disciplinary institute that offers education from 11<sup>th</sup> standard to Ph.D. program. The institute has 21 undergraduate and 19 postgraduate programmes and is a research centre for Ph.D. in 20 subjects.

Over the last ten decades, the institute has shaped students to become stalwarts in science, politics, literature, teaching, law, medicine, economics, arts and culture. We hone the faculty of scientific enquiry and thinking of our students to bring revolutionary and radical changes in various fields of life. We rely on blending theoretical and practical teaching and learning. From the academic year 2021-22, we are offering NEP-2020 pattern at undergraduate and postgraduate level, from 2023. The new syllabi of the academic programs are set to boost physical, mental, social, emotional and intellectual development of the students. This is a student-centric approach wherein the students have freedom to choose the subjects to satisfy their insatiable curiosity for knowledge.

The serene, non-polluted and congenial ambience of the institute is ideal for the pursuit of higher education and research. We have botanical garden, administrative block, yoga bhavan,hostels, library and parking facility. There are three auditoriums with the capacity of 1040, 300 and 150 respectively, a separate Majlis hall for the musical performances. The campus accommodates a separate building of the Pre Indian Administrative Services Training Institute.

#### **About the Department:**

The Department of Physics & Electronicsis one of the largest and oldest departments in the institute. It was established in 1935 and was affiliated to Nagpur University before the inception of Amravati University. The post graduate department offers Condensed Matter Physics and Electronics as electives. There are three dedicated research laboratories viz. Materials Science, Nano-materials and luminescence. Research students work in the diversified field such as, Gas Sensors, biomaterials, dielectric materials, luminescent materials and thin films. Around 30 research students are simultaneously working in these fields. Till this date 93 students have been awarded doctorate degree in Physics and Electronics. More than 300 research papers are published in the National and International Journals by the faculties and students of the department. The department possess rich instrumentation facilities including: X Ray Spectrophotometer, FTIR, UV Visible Spectrophotometer, LCR Meter, Spin coater, SILLAR and Spray Pyrolysis. One major and nine minor research projects, funded by UGC, are completed and few patents are published.

# **Tentative Schedule**

### Day 1- 01 July 2024

8.00 AM to 9.30 AM - Registration & Breakfast

9.30 AM to 11.00 AM - Inauguration & Key Note Address

#### **Technical Session -I**

 11.00 AM to 11.30 AM
 Plenary Talk-I

 11.30 AM to 12.00 PM
 Plenary Talk-II

 12.00 PM to 12.30 PM
 Plenary Talk-III

12.30 PM to 1.30 PM - Lunch

### **Technical Session -II**

2.00 PM to 2.30 PM - Plenary Talk –IV
2.30 PM to 3.00 PM - Plenary Talk –V
3.00 PM to 3.30 PM - Tea Break

3.30 PM to 5.30 PM - Oral Presentations 6.00 PM to 7.30 PM - Cultural Program

7.30 PM to 9.00 PM - Dinner

# Day 2 - 02 July 2024

9.30 AM to 10.15AM Key Note Address

#### Technical Session -III

10.15 AM to 10.45 - Plenary Talk-VI 10.45 AM to 11.15 PM - Plenary Talk-VII

11.15 PM to 1.00 PM - Oral/Poster Presentations

1.00 PM to 2.00 PM - Lunch

2.00 PM to 3.30 PM - Valedictory Function









