



KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

Eachanari Post, Coimbatore-641021.Tamilnadu,India.

FACULTY OF ARTS, SCIENCE AND HUMANITIES DEPARTMENT OF PHYSICS

Report of the National Seminar titled

Department of Physics organized National Seminar titled “**Advanced Materials and Its Applications**” on 5th and 6th March 2020. The main objective was to elaborate the area, scope and significance in present scenario of research development for human welfare and deepen the knowledge and practical ability of students and research scholars of advance material (liquid crystal, carbon nanostructures, materials for spintronic devices, Bio-sensors, Nano materials). The seminar highlighted the importance of advance material research. The event was attended by **more than 200 students**, research scholars, scientists and teaching faculty of different colleges and universities.

The seminar was spread over 4 technical sessions in which eminent scientists and professors delivered talks on diverse areas. On the first day of the seminar on March 5, 2020, **Dr. S. Rajesh, Professor and Head, Karunya Institute of Technology** and Sciences has inaugurated the first session and delivered an invited talk titled “Nanotechnology and its Applications”. Followed Students, Scholars and staff of various Colleges, Universities have presented their research article.

In the afternoon session, **Dr. G. Ravi**, Professor and Head, **Alagappa University, Karaikudi** has delivered an talk on “**Magnetic materials and its synthesis**” for the applications in the field of Nanotechnology. Followed students have presented their articles and the Chief Guest has chaired the session. Poster presentation has also been done by the students.

In the next day of the Seminar on March 6th 2020, Dr. Premkumar Sellan, Post-Doctoral Research Associate, School of Chemistry and Chemical Engineering, School of Material Science and Engineering, Tiangong University, Binshui West, Xiqing (Dist), Tianjin, P. R. China, 300387 has started the session with an invited talk on “Thin film Solar cells and its applications”. Students of various colleges have presented their articles and the session has been chaired by Dr. Premkumar Sellan.

Dr. S. Parthiban, Assistant Professor, PSG Institute of Advanced Studies, Coimbatore has started the session with an invited talk titled “**Thin film semiconductors**” and chaired the technical session which includes presentation of the students. Followed, Valedictory function has been conducted and highlights of the seminar has been mentioned by the Organizing Secretary Dr. B. Janarthanan and the seminar came to an end.

Invitation Brochure

REGISTRATION FORM		ORGANIZING COMMITTEE	National Seminar
National Seminar			On
“ADVANCED MATERIALS AND ITS APPLICATIONS”			ADVANCED MATERIALS AND ITS APPLICATIONS
March 5 & 6, 2020			March 5 & 6, 2020
			
Organized by			
DEPARTMENT OF PHYSICS			
KARPAGAM ACADEMY OF HIGHER EDUCATION			
(Deemed to be University, Established Under Section 3 of UGC Act 1956)			
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		Chief Patron : Dr. S. SUDALAIMUTHU, Vice Chancellor, Karpagam Academy of Higher Education	
		Patrons : Dr. M. PALANISWAMY, Registrar, Karpagam Academy of Higher Education	
		Dr. N.V. BALAJI, Dean, Faculty of Arts, Science and Humanities Karpagam Academy of Higher Education	
		Convener : Dr. E. SIVASENTHIL Associate Professor & Head, Department of Physics, Karpagam Academy of Higher Education	
		Organizing Secretaries: Dr. B. JANARTHANAN, Associate Professor Dr. A. NAGAMANI PRABU, Assistant Professor DEPARTMENT OF PHYSICS KARPAGAM ACADEMY OF HIGHER EDUCATION	
		Members: Dr. S. Sharmila, Associate Professor Dr. K. Mohan Rangam, Associate Professor Dr. S. Esakki Muthu, Assistant Professor Dr. S. Karuppusamy, Assistant Professor Dr. N. Padmanathan, Assistant Professor Mr. V. Thayanihi, Assistant Professor Mr. J. Thirupathy, Assistant Professor Dr. S. Yuvaraj, Assistant Professor	
		DEPARTMENT OF PHYSICS KARPAGAM ACADEMY OF HIGHER EDUCATION	
Name :			
Designation :			
Address Institutional :			
Residential :			
(Telephone, E-mail) :			
Registration fee enclosed : Yes/No			
DD No. :			
Amount :			
Bank :			
Date :			
Date:		Signature	
Place:			
(Xerox copies of the Registration Form are also accepted)			

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About –Karpagam Academy of Higher Education

Karpagam Academy of Higher Education is located in a sprawling, green, lush campus extending 26 acres. It has emerged from Karpagam Arts & Science College (Autonomous) a unit under the Karpagam Charity Trust established in 1989 founded by the great philanthropist, industrialist and educationist Dr.R.Vasanthakumar with the vision of instilling originality in the learning minds, imparting quality and value-based education and to engage in Research and Development with the noble objective of creating unique men and women to serve and lead the society.

Karpagam Academy of Higher Education was conferred as Deemed to be University by the Ministry of Human Resource Development in August 2008 under section 3 of the UGC Act 1956. It is a recognised Deemed to be University by the UGC. It is a member of the Association of Indian Universities. The Institution has been accredited by the NAAC in 2015.

The Institution has 4 Faculty - Faculty of Arts, Science and Humanities, Faculty of Engineering, Faculty of Architecture and Faculty of Pharmacy. It has 25 Departments offering a wide range of 84 academic programmes from graduation to doctorate level. The Institution has more than 6,000 students on campus, with a strong contingent of more than 350 teaching faculty, well supported by an almost equal number of administrative and supporting staff. Faculty have got good number of research projects with financial support from various funding agencies like DBT / DST / ICMR and have filed more than 60 patents. As many as 2200 Research papers have been published by the faculty in SCOPUS. The Institution has collaborated with Foreign Universities, Industries, and Research Bodies for mutual benefit. The Institution ensures that education epitomizes excellence in every sphere and students are prepared to take on the challenges of the day and become the next generation leaders.

About the Department

The main objective of the department is to impart knowledge among the students in basic areas of physics, like Atomic and Nuclear Physics, Astronomy and Astrophysics, Polymer science, Thin Films, Solar energy, Spectroscopy etc., to empower them to fulfill the needs of the nation in basic research, through organizations like CSIR, DAE, etc. The department is guiding students for M. Phil. and Ph. D. programmes. The current areas of research interests are Vibrational Spectroscopy, Conducting Polymers, Crystal growth, Thin Films, Solar Energy, Magnetic Materials, Nano Materials, Solid State Ionics, etc.

About the Seminar

The ultra-fast development in the area of technology has necessitated the development of advanced materials, to meet the need of the hour. The basic research in these areas has become the responsibility of Physicists and Chemists. This seminar is aimed at giving some exposure to young students and researchers, in the field of Advanced Materials and their Applications, to promote industry linkage in the more applied projects and to coordinate interdisciplinary materials.

PAPERS ARE INVITED (ORAL / POSTER) ON THE FOLLOWING THEMES

Nano-Materials, Solar Energy, Magnetic materials, Supercapacitors, Thin Films, Crystal Growth, Vibrational Spectral Analysis, Batteries, Bio-Sensors etc

Accommodation:

There are many hotels where the tariff ranges from Rs. 500/- per day to Rs.2000/- per day. Rooms can be booked on request in advance, and payment has to be made by the participant.

Participants:

Research scholars, academicians, scientists, faculty members, B.Sc. final year students, Post Graduate students, R & D Wing in industries can participate.

Call for Abstracts/Papers

All the interested persons are requested to send their abstracts not exceeding 250 words **on or before 28.02.2020** by post or E-mail. Authors will be intimated the acceptance of the abstract within 5 days following which they have to submit 2 hard copies of full paper along with an electronic copy (MS word 2000) preferably by E-mail (nagamaniprabu.a@kahedu.edu.in). Name of the presenter must be in bold letters.

Venue: The seminar will be held at Karpagam Academy of Higher Education, Eachanari, which is about 10 km from Coimbatore on Coimbatore – Pollachi main road.

Registration fee:

UG and PG Students	: Rs. 200/-
Research Scholars	: Rs. 250/-
Faculty Members	: Rs. 300/-
Industries, etc.	: Rs. 500/-

Last date for Registration: 28.02.2020

The registration form and the payment towards registration fee in the form of DD drawn in favour of "The Registrar, Karpagam Academy of Higher Education", payable at Coimbatore, should be mailed to:

Dr. E. Sivasenthil .

Convener, National seminar on :

"Advanced Materials and Its Applications"

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*Selected papers will be published in Journal with ISSN number.
Participants should pay for the ISBN Journal proceedings*

Travel: Travel and lodging charges have to be borne by the participant.

About Coimbatore : Situated at the foot hills of Nilgiris, and on the banks of the river Noyyal, Coimbatore, the second largest city in Tamil Nadu, is known for its pleasant climate, comfortable round the year, peaceful atmosphere, cosmopolitan outlook and private enterprise. In this 'Textile City', there are more than 30,000 tiny small, medium and large industries and textile mills and is rightly called Manchester of Southern India. The city is also known for imparting higher education, having more than 200 institutions. This city is well connected with the other parts of the country by Air, Rail.

Online Registration Here

URL: shorturl.at/hvKN1





Students Poster Presentation Evaluation By the Chief Guest

OUTCOMES OF THE NATIONAL SEMINAR

After the completion of the Seminar the Students & Faculties shall have the knowledge associated with,

- The advanced materials, their synthesis and characterization
- Tribological Aspects of Metallic Materials
- The advanced manufacturing processes and their applications
- Available resources such as laboratory facilities and researchers for research work
- Quality research work, publications, conferences and also funding agencies.