Workshop on Gas Chromatography Analysis

REGISTRATION FORM

Signature of the participant

Name of the module chosen Name of the candidate Course / Designation Institution Institutional Address (Telephone, E-mail) Residential Address (Telephone, E-mail) Contact Phone No. E-mail ID Registration fee enclosed : Yes / No If Yes, DD No. / Receipt No. Name of the Bank & Branch Date Amount

Place:

ORGANIZING COMMITTED

Chief Patron

Dr. R. VASANTHAKUMAR

Precedent, Karpagam Academy of Higher Education

Patrons

Shri K. MURUGAIAH

Chief Executive Officer, Karpagam Educational Institutions

Dr. S. SUDALAIMUTHU

Vice Chancellor, Karpagam Academy of Higher Education

Dr. R. SUNDARARAJAN

Registrar, Karpagam Academy of Higher Education

Convener

Dr. M. PALANISWAMY

Dean, Arts, Science, Humanities and Management

Karpagam Academy of Higher Education

Organizing Secretary

Dr. A. SANGILIMUTHU, Associate Professor & Head i/c

Department of Biotechnology, FASH, KAHE

Workshop on Gas Chromatography Analysis



Organized by

Central Instrumentation Facility &
Department of Biotechnology, FASH
(DST-FIST Supported Department)
KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

Established Under Section 3 of UGC Act 1956)

Pollachi Main Road, Eachanari Post,

Coimbatore - 641021.

Phone: 0422-2980011-15; Web: http://www.kahedu.edu.in

Karpagam Academy of Higher Education

The 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, impart quality and value-based education and 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 Deemed to be University status by the Ministry of Human Resource Development in August 2008 under section 3 of the UGC Act 1956. It is a recognised Deemed University by the UGC. It is a member of the Association of Indian Universities. The University has been accredited by the NAAC in 2015. It has been Ranked 90th place by NIRF, MHRD, Government of India in 2017. The University 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 78 academic programmes from graduation to doctorate levels. The University has more than 5,000 students on campus, with a strong contingent of more than 350 teaching faculty, well supported by an almost equal number of administrative and support staff. Faculty have got good number of research projects with financial support from various funding agencies like DBT / DST /FIST/ ICMR and have filed more than 45 patents. As many as 1600 Research papers have been published by our faculty in SCOPUS and Peer Reviewed Journals. The Institute 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.

The Central Instrumentation Lab

Karpagam Academy of Higher Education has set up an Central Instrumentation Facility funded by DST to provide sophisticated analytical instruments to help research workers pursue important developments / R&D activities requiring such facilities and for optimal utilization of available resources. Central lab will also offer solution to analytical problems, including sample preparation, development of analytical methods for specific needs and interpretation of results, etc. It will also organize courses / workshops regularly on the use and application of various instruments and analytical techniques; train technicians for maintenance and operation of sophisticated instruments and provide consultancy/R&D facilities to the industries in the region and help them in measurement, calibration and testing of quality of raw materials and end products. The services provided at Central Lab are available to any user from anywhere in the country. The services are offered on payment of nominal charges. It is free for all internal users for research purposes. In the central instrumentation facility provide the research and analytical services with the following sophisticated equipments.

- HPLC (Shimadzu)
- 2. HPTLC (Camag)
- AAS (Shimadzu)
- 4. Real Time PCR (Agilent)
- Gas Chromatography (Shimadzu)
- 6. FT-IR (Shimadzu)
- UV-Visible Spectrophotometer (Shimadzu)

About the Training

Volatile molecule analysis by Gas chromatography has 2 days hands on session provide hands-on training to the individuals/students regarding the GC sample preparation and analysis using modern techniques. Metabolite fingerprint is the fast growing field in the biochemistry stream. Through metabolites identification and composition of natural material has vide application in food and pharma industries. This training covers the extraction of essential oil from natural source and gas chromatography analysis of volatile molecules with existing standards. This workshop scheduled as follows

Schedule of the Workshop

	Day 1 (09.01.2	2020)
9.30 – 10.00 AM	Registration	
10.00- 10.15 AM	Inauguration	
10.15 - 11.30 AM	Theory session	Volatile oil Preparation of sample from natural sources and applications
11.30 - 11.45 Am	Tea Break	
11.45- 1.00 PM	Practical session	Volatile oil Sample preparation by Clevenger apparatus and demonstration
1.00 – 2.00 PM	Lunch Break	
2.00 – 3.00 PM	Practical session	Sample analysis by TLC
3.00 - 4.00 PM	Discussion session and result analysis	
	Day 2 (10.01.2	2020)
10.00 - 11.00	Theory session	Gas chromatography principles and functions
11.15 – 11.30 AM	Tea Break	
11.00 - 1.00 PM	Practical session for Batch I	GC sample analysis
1.00 - 2.00 PM	Lunch Break	
2.00 – 3.30 PM	Practical session for Batch II	GC sample analysis
3.30-4.00	Discussion session and result analysis	

The objectives of the workshop are:

This platform will enhance the knowledge about the volatile molecule identification separation using sophisticated instruments to the young budding researchers. In addition the participants gain the knowledge on molecular modeling for therapeutics.

Venue

The workshop will be held at the Central Instrumentation Facility, KAHE, Eachanari-Post, Pollachi Main Road, Coimbatore – 641 021.

WHO NEEDS IT?

University faculty fellows and young scientists interested in demonstrating / doing analytical techniques in their classes / studies will be greatly benefited from this Workshop. The training is specifically planned and geared for the participants to have 'hands on' workshop in these techniques in the lab in front of the instruments. Class size is limited to ensure an ideal learning environment and for personalized attention.

REGISTRATION FEE

The training programme restricted to 30 participants in each module (first cum first basis).

Student participant ----- Rs. 500/-

(covers Training manual, working lunch and refreshments)

The participants can pay the registration fee through a crossed bank draft drawn in favour of 'Karpagam Academy of Higher Education', payable at Coimbatore and shall send the same along with the duly filled registration form on or before Dec 27. 2019

CORRESPONDENCE

Dr. A. Sangilimuthu - Organizing Secretary
Workshop on Gas Chromatography Analysis
Department of Biotechnology, FASH
Central Instrumentation Facility
Karpagam Academy of Higher Education
Eachanari (Post), Pollachi Main Road, Coimbatore - 641021.

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3.3.2

Workshops on "Gas Chromatography Analysis"

January 09-10, 2020

Organized by



Central Instrumentation Facility (CIF)

&

Department of Biotechnology,
Faculty of Arts, Science and Humanities
Karpagam Academy of Higher Education
Coimbatore, Tamil Nadu

Organizing Secretary:

Dr.A.Sangilimuthu, Associate Professor and Head i/c, Department of Biotechnology, KAHE, CBE.

About the workshop:

Module 1. Volatile molecule analysis by Gas chromatography has 2 days hands on training provided to the individuals/students regarding the GC sample preparation and analysis using modern techniques. Metabolite fingerprint is the fast growing field in the biochemistry stream. Through metabolites identification and composition of natural material has vide application in food and pharma industries. This training covered the extraction of essential oil from natural source and gas chromatography analysis of volatile molecules with existing standards.

Day 1: (09.01.2020)

Session 1: Theory session about the isolation and applications of phytomolecules.

Session 2: Isolation of essential oil from lemon leaves using Clevenger apparatus.

Day 2: (10.01.2020)

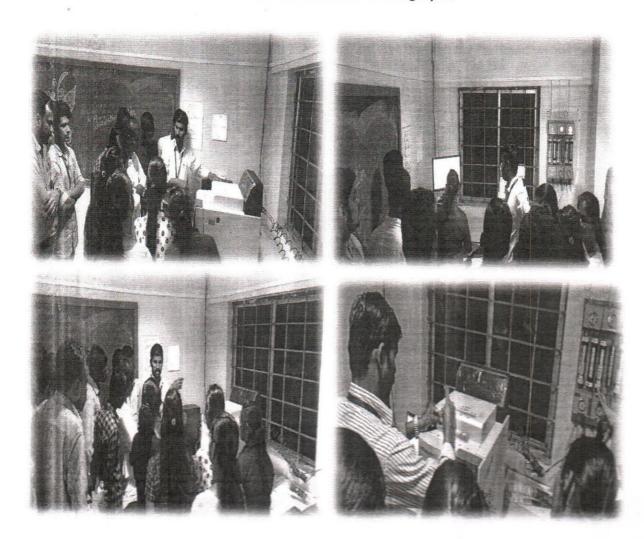
Session 1: Theory about gas chromatography and applications

Session 2: Method creation and analysis of isolated essential oil by Gas chromatography by the participants individually.

Totally 20 participants were registered (expected 20) from Dr N,G,P Arts and Science college, Nirmala College of Women(Coimbatore), Government Arts college (karur). From the participants we received good feedback about the training session and theory session and they are satisfied with the practical explanation. Among them some of the participants were impressed with our laboratory facility because we were provided the facilities (sophisticated equipments) to UG/PG levels of our students. So they expressed their interest to join their higher studies in our institution.

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Day 1 & 2 hands on session, certificate distribution - Photographs



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