

SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN

(Autonomous)

Accredited at 'A' Grade by NAAC

An ISO Certified Institution

Udumalpet

DEPARTMENT OF CHEMISTRY

“Hands on Training”

(Supported by DBT star college Scheme)

Date: 29.08.2019

Time: 10.00 a.m.

Venue : Chemistry Laboratory

Programme

Prayer Song

Ms. S.Kovarshini

II B.Sc., Chemistry

Welcome Address

Dr. M. Indrani
Assistant Professor
Department of Chemistry.

TOPIC

"Chromatographic Techniques"

Resource Person

Dr. L. Hariprasath, M.Sc. Ph.D
Assistant Professor
Department of Biochemistry
Karpagam University
Coimbatore- 641021

Convener

Dr. M. Indrani
Assistant professor in Chemistry

**Organizing
Committee**

Mrs. M. Malarvizhi,
Assistant professor in Chemistry, HOD
Mrs. S. Umadevi,
Assistant professor in Chemistry
Mrs. R. Chitradevi
Assistant professor in Chemistry
Mrs. V. Anitha
Assistant professor in Chemistry
Dr. J. Bhuvaneswari
Assistant professor in Chemistry
Dr. E. Vaishnavi
Assistant professor in Chemistry

Vote of Thanks

Dr. E. Vaishnavi
National Anthem

Report on the Hands on training- “Chromatographic Techniques”

Date : 29.08.2019

Class : II B.Sc. Chemistry

No. of Beneficiaries : 44


Details of the Resource person: Dr. L. Hariprasath,
Assistant Professor,
Department of Biochemistry,
Karpagam University
Coimbatore- 641021

Chromatography is a very common lab technique that is used to separate different components of a complex mixture. It takes the advantage of differential solubility of different components of a mixture. The training taught them the important terms involved in chromatography like absorption, adsorption, mobile phase, stationary phase, eluent, elution etc.

Types of chromatographic techniques trained

1. Thin layer Chromatography
2. Column Chromatography
3. Paper Chromatography

Chromatography finds a wide practical use in the following many areas or industries. Some of them are

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1. Isolation, identification and analysis of different components of various mixtures.
 2. Testing urine for the presence of proteins, ketone sugars etc. for medical disorders and also the presence of banned drugs (like cocaine, Heroin, etc.) in criminal cases of drug addiction and overdose.
 3. Identification of some rare biological species.
 4. Testing of blood samples for forensic studies and medical sciences.
 5. DNA sequencing, RNA/DNA fingerprinting etc.
 6. Studying environmental pollution. For instance finding different components/pollutants present in a given water sample collected from a polluted water body.
 7. Detection of explosive matter on the airports and other high-alert areas.
 8. Detection of pesticides, DDT, dyes, illegal additives and adulterants in food and drinking samples.
 9. Separation and analysis of various amino acids like *proline*, *glycine*, etc. from proteins samples.
 10. Testing the antibiotics for purity and checking the concentration of their constituents, etc.

Hence the Hands on training on the topic “Chromatographic Techniques” was really beneficial to the students

