



ADD ON COURSE

2





DEPARTMENT OF CHEMISTRY ALL SAINTS' COLLEGE

Thiruvananthapuram



The Department of Chemistry is conducting the following Add On Course during the academic year 2020 - 2021 for the UG students.

CHROMATOGRAPHIC TECHNIQUES

04/05/2021 - 30/05/2021

Those who wish to enroll for the course should register before 25/04/2021. For further queries please contact the Course Coordinators.

Dr. Sindhu Yesodharan Course Co-ordinator

Dr. Sunita Kurur Hod Department of Chemistry Dr. Deepa M Principal All Saints' College



ALL SAINTS' COLLEGE

Thiruvananthapuram-695007, Kerala, India Phone: 0471-2501153

E-mail: allsaintscolegeasc@gmail.com

Name of Course	Add On Course on 'Chromatographic Techniques' (CHE. A. 20.1)						
Department offering the Course	Dept. of Chemistry						
Course Duration	30 Hours						
Faculty In Charge	Dr. Sindhu Yesodharan						

SYLLABUS

2020-21

Module I: (6 hrs)

History and classification of different methods of Chromatography (6 hrs)

Module II: (9 hrs)

Outline study of adsorption and partition chromatography, ion exchange - principle-instrumentation and applications

Chromatography- principle and applications of paper and thin layer chromatography HPLC - Rf and Rt value

Module III: (9 hrs)

Gas Chromatography- principle-instrumentation and applications Column chromatography.

Module IV: (6 hrs)

Introduction to Zone electrophoresis and Capillary Electrophoresis.

COURSE OUTCOMES:

- · Categorize the types of chromatography
- Understand the basic parameters in chromatography.
- Understand the processes of a chromatography analysis
- categorize the types, basic components and properties of liquid chromatography.
- · Realize the selection of appropriate mobile phase, column and detector
- Realize the types, features and application areas of detectors, realize the selection of appropriate mobile phase, column and detector
- Able to use a variety of chromatography systems, decide the most appropriate choice for an analysis.

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THIRUVANANTHAPURAM 2

Deepa

Deepa

Principal All Saints' College Diruvananthaparam-7

DEPARTMENT OF CHEMISTRY ADD ON COURSE 2020-2021 Chromatographic Techniques[CHE.A.20.1]

Attendance from 4/5/2021 to 30/5/2021

				5/4/2021	5/5/2021	5/6/2021	5/8/2021	5/9/2021	5/10/2021	5/12/2021	5/14/2021	5/17/2021	5/19/2021	5/21/2021	5/24/2021	5/26/2021	5/28/2021	5/31/2021	Signature of Student
SI. No	Register numbe	Department	Name	3.30-4.30-pm	3.30-4.30- pm	3.30-4.30- pm	3.30-4.30- pm	3.30-4.30- pm	3.30-4.30-pm	3.30-4.30-pm	3.30-4.30-pm	3.30-4.30-pm	3.30-4.30- pm	3.30-4.30-pm	3.30-4.30-pm	3.30-4.30- pm	3.30-4.30- pm	3.30-4.30-pm	
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10	23520100011		KEERTHI K .NAIR	x	x	x	x	а	x	x	x	x	x	x	x	x	X	X	Keryle!
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13	23520100014	Chemistry	SANDHRA S RAJAI	X	X	X	X	X	a	X	X	x	X	х	x	x	x	X	Call Const
14	23520100015	Chemistry	SHALU. S	X	х	a	x	x	х	X	x	х	x	х	х	x	x	X	Shalle.
15	23520100016	Chemistry	SHILPA GEORGE	X	х	X	X	x	х	x	a	x	x	х	x	x	X	x	Ada .
16	23520100017	Chemistry	SNEHA SHIBU	X	a	x	X	x	х	x	x	x	x	x	X	X	х	x	Silar
17	23520100018	Chemistry	SREEDEVI K M	X	x	x	x	X	a	x	x	x	x	x	x	x	х	x	Greet with
18	23520100019	Chemistry	SREELEKSHMI.P	X	х	x	x	X	x	х	x	X	a	х	х	х	х	х	teksm
19	23520100020	Chemistry	VIJI NICHOTIOUS	а	x	X	х	x	х	x	x	x	X	x	x	x	X	x	Up
20	23520100021	Chemistry	ABHIRAMI P V	х	x	x	x	x	x	x	x	х	x	x	x	а	х	x	AChiron
21	23520100022	Chemistry	ALIA AYOOB S	X	х	а	x	x	x	x	x	х	x	x	x	х	x	x	-415
22	23520100023	Chemistry	ANUGRAHA ALEX	х	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Augent.
23	23520100024	Chemistry	APARNA S KUMAR	X	a	x	x	x	X	x	x	x	x	a	x	х	x	x	again a
24	23520100025	Chemistry	ARCHITHA K	X	x	X	x	a	x	x	x	x	x	x	x	x	х	x	Cach the
25	23520100026	Chemistry	ARSHA VASULA P	X	X	X	x	x	х	x	x	x	x	х	x	x	х	х	Archovasne
26	23520100027	Chemistry	BEEMA S	X	x	X	x	x	x	х	x	X	х	х	х	x	х	х	Berns
27	23520100028	Chemistry	GOPIKA A J	X	a	x	x	х	x	x	x	x	х	х	х	x	x	x	yapka
28	23520100029	Chemistry	KEERTHANA P NA	X	x	x	X	x	x	a	x	x	х	х	x	x	x	a	Menthanter
29	23520100030	Chemistry	MANEESHA S	х	X	х	X	x	x	X	x	x	х	х	x	x	x	x	Marke
30	23520100031	Chemistry	MEGHA NAIR P S	X	х	х	x	X	x	x	x	X	х	х	х	x	x	х	Wales.
31	23520100032	Chemistry	MEGHNA S	x	x	a	x	X	x	х	x	x	x	x	x	x	x	x	Method
32	23520100033	Chemistry	RESHMA M R	x	x	X	x	x	x	х	а	x	х	х	х	x	x	x	Restroat
33	23520100034	Chemistry	SHABANA NIZAM	X	x	x	x	х	x	а	x	x	х	х	х	х	x	x	Share
34	23520100035	Chemistry	SHALINI.R.D	x	x	x	x	х	x	x	x	x	х	а	х	x	x	x	Latin
35	23520100036	Chemistry	SREELEKSHMIS	X	x	х	x	х	x	x	x	x	x	х	х	x	х	a	Emplem
36	23520100037	Chemistry	SUMI ANTONY	x	x	х	x	x	x	x	x	x	x	х	х	x	a	x	Santalay
37	23520100038	Chemistry	VARSHA. B	х	х	х	х	х	х	х	а	х	х	х	х	x	x	x	Vishos
38	23520100039	Chemistry	ALPHA XAVIER	х	X	х	х	х	х	a	x	x	х	х	х	x	х	a	Allen

39	23520100040	Chemistry	ATHIRA . S . R	X	x	x	X	x	x	x	x	x	X	x	x	x	x	х	Athiran
40	23520100041	Chemistry	GOPIKA R S	X	x	x	x	X	х	x	x	х	x	x	x	x	х	х	Bamb.
41	23520100042	Chemistry	REFELA N	X	x	а	x	х	x	х	x	x	x	x	x	x	x	х	Rielz:
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Signature of FIC

Signature of HoD

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This is to certify that **VARSHA. B** has successfully completed the Add-On Course **Chromatographic Techniques**, organised by the Department of Chemistry, All Saints' College, Thiruvananthapuram, from 04/05/2021 to 30/05/2021

COURSE CO-ORDINATOR

Dr. Sindhu Yesodharan

Sunita Kur

Dr. Sunita Kurur HoD

Department of Chemistry

Deepa

Dr. Deepa M PRINCIPAL

All Saints' College





This is to certify that **MEGHA NAIR P S** has successfully completed the Add-On Course **Chromatographic Techniques**, organised by the Department of Chemistry, All Saints' College, Thiruvananthapuram, from 04/05/2021 to 30/05/2021

COURSE CO-ORDINATOR

Dr. Sindhu Yesodharan

Dr. Sunita Kurur

HoD

Department of Chemistry

Dr. Deepa M PRINCIPAL

All Saints' College





This is to certify that **RIYA S. EDWARD** has successfully completed the Add-On Course **Chromatographic Techniques**, organised by the Department of Chemistry, All Saints' College, Thiruvananthapuram, from 04/05/2021 to 30/05/2021

COURSE CO-ORDINATOR
Dr. Sindhu Yesodharan

Dr. Sunita Kurur
HoD
Department of Chemistry

Dr. Deepa M PRINCIPAL All Saints' College





This is to certify that **ARCHITHA K** has successfully completed the Add-On Course **Chromatographic Techniques**, organised by the Department of Chemistry, All Saints' College, Thiruvananthapuram, from 04/05/2021 to 30/05/2021

COURSE CO-ORDINATOR

Dr. Beena Kumari K S

Dr. Sunita Kurur HoD

Department of Chemistry

Dr. Deepa M PRINCIPAL All Saints' College





This is to certify that **BINSINA SAKEER** has successfully completed the Add-On Course **Chromatographic Techniques**, organised by the Department of Chemistry, All Saints' College, Thiruvananthapuram, from 04/05/2021 to 30/05/2021

COURSE CO-ORDINATOR

Dr. Sindhu Yesodharan

Dr. Sunita Kurur HoD

Sunitak

Department of Chemistry

Deepa

Dr. Deepa M PRINCIPAL All Saints' College



E-mail: allsaintscolegeasc@gmail.com

COURSE SUMMARY REPORT

2020-21

Name of Course	Add on Course on 'CHROMATOGRAPHIC TECHNIQUES' (CHE.A.20.1)						
Department offering the Course	Dept. of Chemistry						
Course Duration	30 Hours						
Faculty In Charge	Dr. Sindhu Yesodharan						

The add on course on CHROMATOGRAPHIC TECHNIQUES (CHE.A.20.1) has been coordinated by the department of Chemistry, All Saints' College, Thiruvananthapuram. The course was specially designed to provide an understanding on the various chromatographic techniques available. The course had a well-defined syllabus and was approved by the IQAC. The add on course was coordinated by Dr. Sindhu Yesodharan, Assistant Professor, Department of Chemistry. The course was properly planned and organised to provide maximum support to students during their learning process. The course duration was 30 hours. 42 students enrolled for the program. The course started on 04.05.2021 and ended on 31.05.2021. During the end of course, an exit examination was conducted. All students wrote the examination. Final assessment was done based on the assignment submitted by students during the course and the marks secured by them during the final exit examination. All students passed in the examination. Certificates were also provided to them after the successful completion of the course.



Principal
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Thiruvananthapuram-7