



SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,
and The Directorate of Medical Education, Chennai.

REF.NO:SSIP/ REQ/2022/007

Date: 10/11/2022

From

Department of Pharmaceutical Chemistry,
SS institute of pharmacy,
Sankari, Salem (DIST) - 637301.

To

The principal,
SS institute of pharmacy,
Sankari, Salem (DIST) – 637301.

Subject: Letter for requesting permission to conduct **ADD ON COURSE** -Reg.

Respected sir,

We are requesting you to grant permission to conduct add-on course in the seminar hall on **21/11/2022 to 06/12/2022**. We wish to conduct add on course on the title **“Analytical Techniques In Biochemistry”**. This add-on course program would be a great opportunity for students to learn and that would help to shape the students.

Thanking you,

Yours truly,


PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK),
SALEM - 637301




PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK),
SALEM - 637301

NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India

Phone : 04283 241080 | E-mail : ssip1718@gmail.com | Website : www.ssip.edu.in



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24

DATE: 10/11/2022

CIRCULAR

This is to inform that will B.PHARM students have the schedule of following value - added course to be conducted by our SS Institute of Pharmacy and it as mentioned below.

COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
ANALYTICAL TECHNIQUES IN BIOCHEMISTRY	21/11/2022 to 06/12/2022	39 HOURS	SEMINAR HALL	M. PRAVEEN KUMAR

All the above-mentioned students must enroll and actively participate in the course without fail.

Note: Certificates will be issued for the eligible students after completion of the course and examination.



JOTHIMANIVANNAN
CHENNAKESAVALU

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SS INSTITUTE OF PHARMACY
KUPPANUR (PO), SANKARI (TK),
SALEM - 637301

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SALEM - 637301

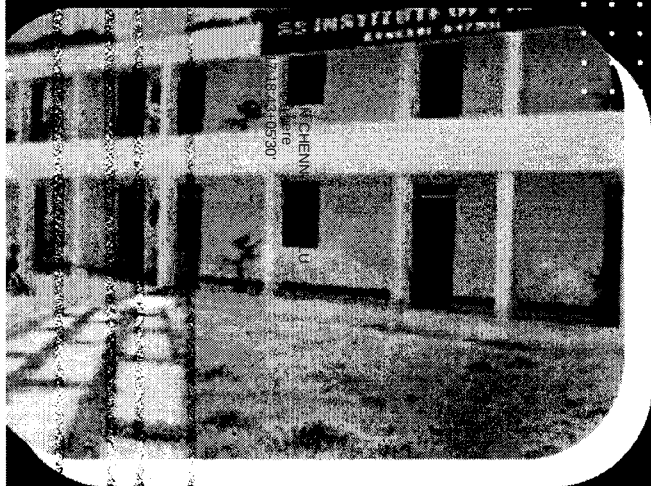
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**SS INSTITUTE OF
PHARMACY,
SANKARI**

**DEPARTMENT OF
PHARMACEUTICAL
CHEMISTRY**

SSIP Seminar hall



Contact Us



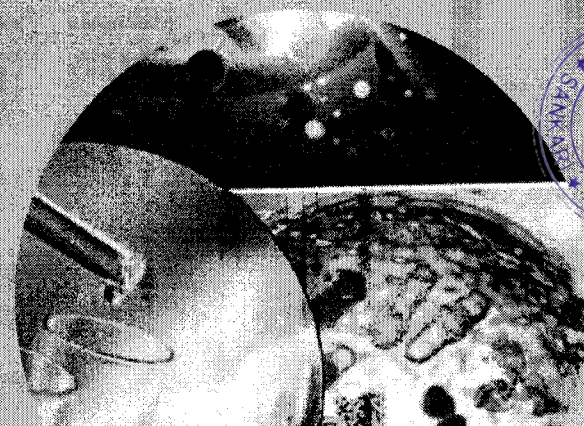
+919443026056



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NH 47, Kuppanur Post,
Salem – Coimbatore High
Way, Manjakalpatti,
Sankari Taluk,
Salem District, Tamil Nadu – 637
301.



COURSE TITLE

**ANALYTICAL TECHNIQUES IN
BIOCHEMISTRY**

RESOURCE PERSON

MUPRAVEEN KUMAR
M. PHARM
Assistant Professor

Spectroscopy
Chromatography
Electrophoresis
Bioinformatics
Tools





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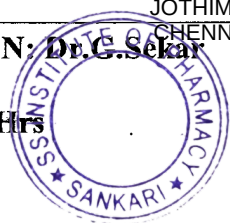
SYLLABUS

ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

Sl.No.	Topic	Date
1	Separation Techniques in Biochemistry - Chromatography: Principles and types, including gas chromatography (GC), liquid chromatography (LC), and high-performance liquid chromatography (HPLC). - Electrophoresis: Techniques like gel electrophoresis, SDS-PAGE, and capillary electrophoresis for separating biomolecules	21/11/2022- 22/11/2022
2	Spectroscopic Methods in Biochemistry - Spectroscopy: Fundamentals and applications of UV-Vis, IR, NMR, and mass spectroscopy in biochemistry. - Biophysical Techniques: Techniques such as X-ray crystallography, fluorescence spectroscopy, and circular dichroism (CD) for structural analysis	23/11/2022- 25/11/2022
3	Immunological and Molecular Biology Techniques - Immunological Techniques: ELISA, western blotting, immunoprecipitation, and flow cytometry. - Molecular Biology Techniques: PCR, qPCR, DNA sequencing, and gene expression analysis.	26/11/2022- 29/11/2022
4	Protein and Enzyme Analysis - Protein Analysis Techniques: Protein purification, characterization, and quantification methods. - Biochemical Assays: Enzyme kinetics, activity assays, and detection of biochemical markers.	30/11/2022- 3/12/2022
5	Integrative and Applied Biochemical Methods - Application of Techniques: Integrative use of the above methods in research, clinical diagnostics, and biotechnology. - Case Studies and Practical Applications: Real-world examples illustrating the use of analytical techniques in solving biochemical problems	5/12/2022- 6/12/2022

RESOURCE PERSON: **Dr. G. Sekar**

TOTAL HOURS: 39Hrs



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ADD ON / CERTIFICATE VALUE ADDED COURSES ACADEMIC YEAR 2022-2023

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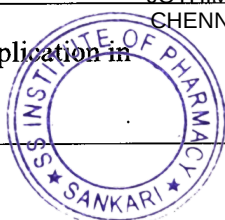
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ACADAMIC YEAR 2022-2023

S. NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE CODE	NO OF STUDENTS ENROLLED	TYPE OF ADD ON CERTIFICATE PROGRAMS
1.	Advanced Thermodynamics And Combustion	22ATC01	59	Self-framed course
2.	Applied Computational Fluid Dynamics.	22ACFD02	56	Self-framed course
3.	Advanced Research Techniques in Homeopathic System of Medicine.	22ARTHSM03	30	Self-framed course
4.	An Introduction to Indian Literacy Theory.	22IILT04	29	Self-framed course
5.	A Basic Course in Machine Learning.	22BCML05	55	Self-framed course
6.	Adolescent Nutrition.	22AN06	57	Self-framed course
7.	Analytical Techniques in Biochemistry.	22ATB07	59	Self-framed course
8.	Artificial Intelligence Using Prolog Programming.	22AIUPP08	58	Self-framed course
9.	Mobile Health Application in Pharmacy.	23MHAP09	116	Self-framed course

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ADD ON COURSE – ENROLLMENT LIST

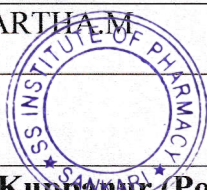
NAME OF ADD ON COURSE: ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

COURSE INSTRUCTORS : DR.G.SEKAR

YEAR OFFERED : 2nd SEM B.PHARM

COURSE DURATION : 39 HRS

S.NO	NAME OF THE STUDENT	REGISTER NO	COURSE
1.	ABINESH. S	560021523501	1 st B.Pharm
2.	ABISHEK.B	560021523502	1 st B.Pharm
3.	ABISURYA .C	560021523503	1 st B.Pharm
4.	ANANDASIVAM.T	560021523504	1 st B.Pharm
5.	ANBU .R	560021523505	1 st B.Pharm
6.	ARAVINTH.M	560021523506	1 st B.Pharm
7.	ARCHANA.A	560021523507	1 st B.Pharm
8.	ARIVILKUMAR.P	560021523508	1 st B.Pharm
9.	ARUN .A	560021523509	1 st B.Pharm
10.	ARUN KUMAR .K	560021523510	1 st B.Pharm
11.	ARUNKUMAR.M	560021523511	1 st B.Pharm
12.	BALAMURUGAN.B	560021523512	1 st B.Pharm
13.	BATHRINATH.A	560021523513	1 st B.Pharm
14.	BOOPATHI.G	560021523514	1 st B.Pharm
15.	BOOPATHI.P	JOTHIMANIVANNAN CHENNAKESAVALU 560021523515 your signing location here 2024.10.29 17:18:43+05'30'	1 st B.Pharm
16.	CHITHARTHA.M	560021523516	1 st B.Pharm





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17.	DEVIPRIYA.K	560021523517	1 st B.Pharm
18.	DHATCHNAMOORTHILK	560021523518	1 st B.Pharm
19.	DHIVYA.N	560021523519	1 st B.Pharm
20.	GAYATHRI.S	560021523521	1 st B.Pharm
21.	GOPIKA.K	560021523522	1 st B.Pharm
22.	GOPI.K	560021523523	1 st B.Pharm
23.	GURUMOORTHILM	560021523524	1 st B.Pharm
24.	HARIPRIYA.K	560021523525	1 st B.Pharm
25.	JOTHIPRAKASH.P	560021523526	1 st B.Pharm
26.	KARTHICK KANNAN.S	560021523527	1 st B.Pharm
27.	KARTHICK.K	560021523528	1 st B.Pharm
28.	KARTHIKEYAN.M	560021523529	1 st B.Pharm
29.	KAVIBHARATHI.S	560021523530	1 st B.Pharm
30.	KAVIYA .S	560021523531	1 st B.Pharm
31.	KESAVAN.P	560021523532	1 st B.Pharm
32.	KIRUBANIDHIL.R	560021523533	1 st B.Pharm
33.	KIRUTHIKA.P	560021523534	1 st B.Pharm
34.	MEGALA.G	560021523535	1 st B.Pharm
35.	MOHAMMED KABEER.A	560021523536	1 st B.Pharm
36.	RANISH.G	560021523537	1 st B.Pharm
37.	SARAN MOHAN.R	JOTHIMANIVANNAN CHENNAKESAVALU 560021523538 you are logged in as 2024.10.29 17:18:43+05'30'	1 st B.Pharm
38.	SASIKALA.G	560021523539	1 st B.Pharm



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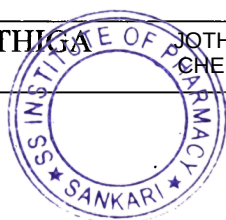
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39.	SATHYA JASMINE.A	560021523540	1 st B.Pharm
40.	SETHURAMAN.P	560021523541	1 st B.Pharm
41.	SOWMIYA.D	560021523542	1 st B.Pharm
42.	SRIGANTH.K	560021523543	1 st B.Pharm
43.	SUGASHINI.M	560021523544	1 st B.Pharm
44.	SUNDHAR.S	560021523545	1 st B.Pharm
45.	SURIYA.M	560021523546	1 st B.Pharm
46.	SYED ABDULLA.A	560021523547	1 st B.Pharm
47.	TAMILMANI.P	560021523548	1 st B.Pharm
48.	THIRUMALAI.R	560021523549	1 st B.Pharm
49.	THIRUMENINATHAN.M	560021523550	1 st B.Pharm
50.	UMA SHANKARI.E	560021523551	1 st B.Pharm
51.	VAITHEESWARI.V	560021523552	1 st B.Pharm
52.	VIGNESH.C	560021523553	1 st B.Pharm
53.	VIGNESH.S	560021523554	1 st B.Pharm
54.	VIJAYASARATHI.S	560021523555	1 st B.Pharm
55.	VIMAL.R	560021523556	1 st B.Pharm
56.	VINOTHINI.A	560021523557	1 st B.Pharm
57.	VISHALATCHI.K	560021523558	1 st B.Pharm
58.	YAZHINI.B	560021523559	1 st B.Pharm
59.	S.YUVAKIRUTHIGA	560021523560	1 st B.Pharm



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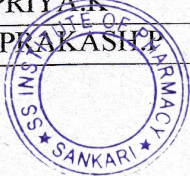
NAME OF ADD ON COURSE: ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

COURSE INSTRUCTORS : DR.G.SEKAR

YEAR OFFERED : 2nd SEM B.PHARM

COURSE DURATION : 39 HRS

S. NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE						
			21/11/22	22/11/22	23/11/22	24/11/22	25/11/22	26/11/22	28/11/22
1.	ABINESH. S	560021523501	S.Ah		S.Ah		S.Ah		S.Ah
2.	ABISHEK.B	560021523502	B.H	B.H	B.H	B.H	B.H	B.H	B.H
3.	ABISURYA .C	560021523503	C.A	C.A	C.A	C.A	C.A	C.A	C.A
4.	ANANDASIVAM.T	560021523504	T.A	T.A	T.A	T.A	T.A	T.A	T.A
5.	ANBU .R	560021523505	Anbu	Anbu	Anbu	Anbu	Anbu	Anbu	Anbu
6.	ARAVINTH.M	560021523506	M.A	M.A	M.A	M.A	M.A	M.A	M.A
7.	ARCHANA.A	560021523507	A.A	A.A	A.A	A.A	A.A	A.A	A.A
8.	ARIVILKUMAR.P	560021523508	P.A	P.A	P.A	P.A	P.A	P.A	P.A
9.	ARUN .A	560021523509	A.A	A.A	A.A	A.A	A.A	A.A	A.A
10.	ARUN KUMAR .K	560021523510	K.A	K.A	K.A	K.A	K.A	K.A	K.A
11.	ARUNKUMAR.M	560021523511	M.A	M.A	M.A	M.A	M.A	M.A	M.A
12.	BALAMURUGAN.B	560021523512	B.G	B.G	B.G	B.G	B.G	B.G	B.G
13.	BATHRINATH.A	560021523513	A.A	A.A	A.A	A.A	A.A	A.A	A.A
14.	BOOPATHI.G	560021523514	P.B	P.B	P.B	P.B	P.B	P.B	P.B
15.	BOOPATHI.P	560021523515	P.B	P.B	P.B	P.B	P.B	P.B	P.B
16.	CHITHARTHA.M	560021523516	M.A	M.A	M.A	M.A	M.A	M.A	M.A
17.	DEVIPRIYA.K	560021523517	P.R	P.R	P.R	P.R	P.R	P.R	P.R
18.	DHATCHNAMOORTHIL.K	560021523518	K.A	K.A	K.A	K.A	K.A	K.A	K.A
19.	DHIVYA.N	560021523519	N.A	N.A	N.A	N.A	N.A	N.A	N.A
20.	GAYATHRI.S	560021523521	S.A	S.A	S.A	S.A	S.A	S.A	S.A
21.	GOPIKA.K	560021523522	K.A	K.A	K.A	K.A	K.A	K.A	K.A
22.	GOPI.K	560021523523	K.A	K.A	K.A	K.A	K.A	K.A	K.A
23.	GURUMOORTHIL.M	560021523524	M.A	M.A	M.A	M.A	M.A	M.A	M.A
24.	HARIPRIYA.K	560021523525	K.A	K.A	K.A	K.A	K.A	K.A	K.A
25.	JOTHIPRAKASH.P	560021523526	P.A	P.A	P.A	P.A	P.A	P.A	P.A



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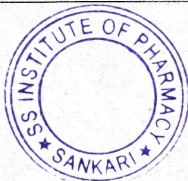


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26.	KARTHICK KANNAN.S	560021523527	S.Kannan	S.Kannan	S.Kannan	S.Kannan	S.Kannan	S.Kannan	S.Kannan
27.	KARTHICK.K	560021523528	K.Karthick	K.Karthick	K.Karthick	K.Karthick	K.Karthick	K.Karthick	K.Karthick
28.	KARTHIKEYAN.M	560021523529	K.Karthikeyan	K.Karthikeyan	K.Karthikeyan	K.Karthikeyan	K.Karthikeyan	K.Karthikeyan	K.Karthikeyan
29.	KAVIBHARATHI.S	560021523530	S.Kavibharathi	S.Kavibharathi	S.Kavibharathi	S.Kavibharathi	S.Kavibharathi	S.Kavibharathi	S.Kavibharathi
30.	KAVIYA .S	560021523531	K.S.Kaviya	K.S.Kaviya	K.S.Kaviya	K.S.Kaviya	K.S.Kaviya	K.S.Kaviya	K.S.Kaviya
31.	KESAVAN.P	560021523532	P.Kesavan	P.Kesavan	P.Kesavan	P.Kesavan	P.Kesavan	P.Kesavan	P.Kesavan
32.	KIRUBANIDHI.R	560021523533	R.Kirubanidhi	R.Kirubanidhi	R.Kirubanidhi	R.Kirubanidhi	R.Kirubanidhi	R.Kirubanidhi	R.Kirubanidhi
33.	KIRUTHIKA.P	560021523534	P.Kiruthika	P.Kiruthika	P.Kiruthika	P.Kiruthika	P.Kiruthika	P.Kiruthika	P.Kiruthika
34.	MEGALA.G	560021523535	G.Megala	G.Megala	G.Megala	G.Megala	G.Megala	G.Megala	G.Megala
35.	MOHAMMED KABEER.A	560021523536	A.Mohammed Kabeer	A.Mohammed Kabeer	A.Mohammed Kabeer	A.Mohammed Kabeer	A.Mohammed Kabeer	A.Mohammed Kabeer	A.Mohammed Kabeer
36.	RANISH.G	560021523537	G.Ranish	G.Ranish	G.Ranish	G.Ranish	G.Ranish	G.Ranish	G.Ranish
37.	SARAN MOHAN.R	560021523538	R.Saran Mohan	R.Saran Mohan	R.Saran Mohan	R.Saran Mohan	R.Saran Mohan	R.Saran Mohan	R.Saran Mohan
38.	SASIKALA.G	560021523539	G.Sasikala	G.Sasikala	G.Sasikala	G.Sasikala	G.Sasikala	G.Sasikala	G.Sasikala
39.	SATHYA JASMINE.A	560021523540	A.Sathya Jasmine	A.Sathya Jasmine	A.Sathya Jasmine	A.Sathya Jasmine	A.Sathya Jasmine	A.Sathya Jasmine	A.Sathya Jasmine
40.	SETHURAMAN.P	560021523541	P.Sethuraman	P.Sethuraman	P.Sethuraman	P.Sethuraman	P.Sethuraman	P.Sethuraman	P.Sethuraman
41.	SOWMIYA.D	560021523542	D.Sowmiya	D.Sowmiya	D.Sowmiya	D.Sowmiya	D.Sowmiya	D.Sowmiya	D.Sowmiya
42.	SRIGANTH.K	560021523543	K.Sriganth	K.Sriganth	K.Sriganth	K.Sriganth	K.Sriganth	K.Sriganth	K.Sriganth
43.	SUGASHINI.M	560021523544	M.Sugashini	M.Sugashini	M.Sugashini	M.Sugashini	M.Sugashini	M.Sugashini	M.Sugashini
44.	SUNDHAR.S	560021523545	S.Sundhar	S.Sundhar	S.Sundhar	S.Sundhar	S.Sundhar	S.Sundhar	S.Sundhar
45.	SURIYA.M	560021523546	M.Suriya	M.Suriya	M.Suriya	M.Suriya	M.Suriya	M.Suriya	M.Suriya
46.	SYED ABDULLA.A	560021523547	A.Syed Abdulla	A.Syed Abdulla	A.Syed Abdulla	A.Syed Abdulla	A.Syed Abdulla	A.Syed Abdulla	A.Syed Abdulla
47.	TAMILMANI.P	560021523548	P.Tamilmani	P.Tamilmani	P.Tamilmani	P.Tamilmani	P.Tamilmani	P.Tamilmani	P.Tamilmani
48.	THIRUMALAI.R	560021523549	R.Thirumalai	R.Thirumalai	R.Thirumalai	R.Thirumalai	R.Thirumalai	R.Thirumalai	R.Thirumalai
49.	THIRUMENINATHAN.M	560021523550	M.Thirumeninathan	M.Thirumeninathan	M.Thirumeninathan	M.Thirumeninathan	M.Thirumeninathan	M.Thirumeninathan	M.Thirumeninathan
50.	UMA SHANKARIE	560021523551	E.Uma Shankari	E.Uma Shankari	E.Uma Shankari	E.Uma Shankari	E.Uma Shankari	E.Uma Shankari	E.Uma Shankari
51.	VAITHEESWARI.V	560021523552	V.Vaitheswari	V.Vaitheswari	V.Vaitheswari	V.Vaitheswari	V.Vaitheswari	V.Vaitheswari	V.Vaitheswari
52.	VIGNESH.C	560021523553	C.Vignesh	C.Vignesh	C.Vignesh	C.Vignesh	C.Vignesh	C.Vignesh	C.Vignesh
53.	VIGNESH.S	560021523554	S.Vignesh	S.Vignesh	S.Vignesh	S.Vignesh	S.Vignesh	S.Vignesh	S.Vignesh
54.	VIJAYASARATHI.S	560021523555	S.Vijayasarithi	S.Vijayasarithi	S.Vijayasarithi	S.Vijayasarithi	S.Vijayasarithi	S.Vijayasarithi	S.Vijayasarithi
55.	VIMAL.R	560021523556	R.Vimal	R.Vimal	R.Vimal	R.Vimal	R.Vimal	R.Vimal	R.Vimal
56.	VINOTHINI.A	560021523557	A.Vinothini	A.Vinothini	A.Vinothini	A.Vinothini	A.Vinothini	A.Vinothini	A.Vinothini
57.	VISHALATCHI.K	560021523558	K.Vishalatchi	K.Vishalatchi	K.Vishalatchi	K.Vishalatchi	K.Vishalatchi	K.Vishalatchi	K.Vishalatchi
58.	YAZHINI.B	560021523559	B.Yazhini	B.Yazhini	B.Yazhini	B.Yazhini	B.Yazhini	B.Yazhini	B.Yazhini
59.	S.YUVAKIRUTHIGA	560021523560	G.S.Yuvakiruthiga	G.S.Yuvakiruthiga	G.S.Yuvakiruthiga	G.S.Yuvakiruthiga	G.S.Yuvakiruthiga	G.S.Yuvakiruthiga	G.S.Yuvakiruthiga



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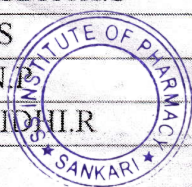
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S. NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE					
			29/11/22	30/11/22	2/12/22	3/12/22	5/12/22	6/12/22
1.	ABINESH. S	560021523501	AB	AB	AB	AB	AB	AB
2.	ABISHEK.B	560021523502	AB	AB	AB	AB	AB	AB
3.	ABISURYA .C	560021523503	AB	AB	AB	AB	AB	AB
4.	ANANDASIVAM.T	560021523504	AB	AB	AB	AB	AB	AB
5.	ANBU .R	560021523505	AB	AB	AB	AB	AB	AB
6.	ARAVINTH.M	560021523506	AB	AB	AB	AB	AB	AB
7.	ARCHANA.A	560021523507	AB	AB	AB	AB	AB	AB
8.	ARIVILKUMAR.P	560021523508	AB	AB	AB	AB	AB	AB
9.	ARUN .A	560021523509	AB	AB	AB	AB	AB	AB
10.	ARUN KUMAR .K	560021523510	AB	AB	AB	AB	AB	AB
11.	ARUNKUMAR.M	560021523511	AB	AB	AB	AB	AB	AB
12.	BALAMURUGAN.B	560021523512	AB	AB	AB	AB	AB	AB
13.	BATHRINATH.A	560021523513	AB	AB	AB	AB	AB	AB
14.	BOOPATHI.G	560021523514	AB	AB	AB	AB	AB	AB
15.	BOOPATHI.P	560021523515	AB	AB	AB	AB	AB	AB
16.	CHITHARTHA.M	560021523516	AB	AB	AB	AB	AB	AB
17.	DEVIPRIYA.K	560021523517	AB	AB	AB	AB	AB	AB
18.	DHATCHNAMOORTHI.K	560021523518	AB	AB	AB	AB	AB	AB
19.	DHIVYA.N	560021523519	AB	AB	AB	AB	AB	AB
20.	GAYATHRI.S	560021523521	AB	AB	AB	AB	AB	AB
21.	GOPIKA.K	560021523522	AB	AB	AB	AB	AB	AB
22.	GOPLK	560021523523	AB	AB	AB	AB	AB	AB
23.	GURUMOORTHI.M	560021523524	AB	AB	AB	AB	AB	AB
24.	HARIPRIYA.K	560021523525	AB	AB	AB	AB	AB	AB
25.	JOTHIPRAKASH.P	560021523526	AB	AB	AB	AB	AB	AB
26.	KARTHICK KANNAN.S	560021523527	AB	AB	AB	AB	AB	AB
27.	KARTHICK.K	560021523528	AB	AB	AB	AB	AB	AB
28.	KARTHIKEYAN.M	560021523529	AB	AB	AB	AB	AB	AB
29.	KAVIBHARATHI.S	560021523530	AB	AB	AB	AB	AB	AB
30.	KAVIYA .S	560021523531	AB	AB	AB	AB	AB	AB
31.	KESAVAN.P	560021523532	AB	AB	AB	AB	AB	AB
32.	KIRUBANI.DHIL.R	560021523533	AB	AB	AB	AB	AB	AB



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32.	KIRUBANIDHI.R	560021523533	P.P	P.P	P.P	P.P	P.P	P.P	P.P
33.	KIRUTHIKA.P	560021523534	P.P	P.P	P.P	P.P	P.P	P.P	P.P
34.	MEGALA.G	560021523535	mega	mega	mega	mega	mega	mega	mega
35.	MOHAMMED KABEER.A	560021523536	MD	MD	MD	MD	MD	MD	MD
36.	RANISH.G	560021523537	P.P	P.P	P.P	P.P	P.P	P.P	P.P
37.	SARAN MOHAN.R	560021523538	P.P	P.P	P.P	P.P	P.P	P.P	P.P
38.	SASIKALA.G	560021523539	G.S	G.S	G.S	G.S	G.S	G.S	G.S
39.	SATHYA JASMINE.A	560021523540	A.B	A.B	A.B	A.B	A.B	A.B	A.B
40.	SETHURAMAN.P	560021523541	P.S	P.S	P.S	P.S	P.S	P.S	P.S
41.	SOWMIYA.D	560021523542	S.D	S.D	S.D	S.D	S.D	S.D	S.D
42.	SRIGANTH.K	560021523543	K.S	K.S	K.S	K.S	K.S	K.S	K.S
43.	SUGASHINI.M	560021523544	M.S	M.S	M.S	M.S	M.S	M.S	M.S
44.	SUNDHAR.S	560021523545	S.S	S.S	S.S	S.S	S.S	S.S	S.S
45.	SURIYA.M	560021523546	S	S	S	S	S	S	S
46.	SYED ABDULLA.A	560021523547	Sy	Sy	Sy	Sy	Sy	Sy	Sy
47.	TAMILMANI.P	560021523548	Tam	Tam	Tam	Tam	Tam	Tam	Tam
48.	THIRUMALAI.R	560021523549	Thir	Thir	Thir	Thir	Thir	Thir	Thir
49.	THIRUMENINATHAN.M	560021523550	Thir	Thir	Thir	Thir	Thir	Thir	Thir
50.	UMA SHANKARIE	560021523551	E.S	E.S	E.S	E.S	E.S	E.S	E.S
51.	VAITHEESWARIV	560021523552	v.v	v.v	v.v	v.v	v.v	v.v	v.v
52.	VIGNESH.C	560021523553	v.c	v.c	v.c	v.c	v.c	v.c	v.c
53.	VIGNESH.S	560021523554	s.vig	s.vig	s.vig	s.vig	s.vig	s.vig	s.vig
54.	VIJAYASARATHI.S	560021523555	v.s	v.s	v.s	v.s	v.s	v.s	v.s
55.	VIMAL.R	560021523556	Vim	Vim	Vim	Vim	Vim	Vim	Vim
56.	VINOTHINLA	560021523557	A.vig	A.vig	A.vig	A.vig	A.vig	A.vig	A.vig
57.	VISHALATCHI.K	560021523558	V.V	V.V	V.V	V.V	V.V	V.V	V.V
58.	YAZHINI.B	560021523559	B.Ya	B.Ya	B.Ya	B.Ya	B.Ya	B.Ya	B.Ya
59.	S.YUVAKIRUTHIGA	560021523560	S.Yu	S.Yu	S.Yu	S.Yu	S.Yu	S.Yu	S.Yu

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ADD ON COURSE	ANALYTICAL TECHNIQUES IN BIOCHEMISTRY
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2022-2023
DATE	21/11/2022 to 06/12/2022
VENUE	SEMINAR HALL
NAME: MELALAI . G	COURSE: I - sem

ANSWER ALL THE QUESTIONS:

DATE: 06/12/2022

MULTIPLE CHOICE QUESTIONS

MARKS: 15

1. Which chromatography technique is commonly used for separating and identifying small molecules?

- a) Paper chromatography
- b) Thin-layer chromatography (TLC)
- ☒ c) Gas chromatography (GC)
- d) High-performance liquid chromatography (HPLC)

15

2. What is the principle of electrophoresis?

- ☒ a) Separation based on size and charge
- b) Separation based on size only
- c) Separation based on charge only
- d) Separation based on shape

3. Which spectroscopy technique measures the absorption of light by molecules?

- ☒ a) Ultraviolet-visible (UV-Vis) spectroscopy
- b) Infrared (IR) spectroscopy
- c) Nuclear magnetic resonance (NMR) spectroscopy
- d) Mass spectrometry (MS)

4. What is the purpose of immunoprecipitation?

- ☒ a) To detect specific proteins in a sample
- b) To purify proteins from a sample
- c) To study protein-protein interactions
- d) To study protein function

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5. Which molecular biology technique is used to amplify specific DNA sequences?

- ☒ a) Polymerase chain reaction (PCR)
- b) DNA sequencing
- c) Gene cloning
- d) Gene expression analysis

6. What is the purpose of protein sequencing?

- ☒ a) To determine the amino acid sequence of a protein
- b) To determine the structure of a protein
- c) To study protein function
- d) To study protein-protein interactions

7. Which biochemical assay measures enzyme activity?

- ☒ a) Enzyme-linked immunosorbent assay (ELISA)
- b) Western blotting
- c) Immunoprecipitation
- d) Enzyme assay

8. What is the principle of X-ray crystallography?

- ☒ a) Determining the three-dimensional structure of molecules
- b) Determining the two-dimensional structure of molecules
- c) Studying protein-protein interactions
- d) Studying protein function

9. Which biophysical technique measures the interactions between molecules?

- ☒ a) Nuclear magnetic resonance (NMR) spectroscopy
- b) Electron microscopy
- c) Atomic force microscopy
- d) Circular dichroism (CD) spectroscopy



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10. What is the purpose of gel electrophoresis?

- ☒ a) To separate and identify proteins based on size
- b) To separate and identify proteins based on charge
- c) To study protein-protein interactions
- d) To study protein function

11. Which chromatography technique is commonly used for separating and identifying large molecules?

- a) Paper chromatography
- b) Thin-layer chromatography (TLC)
- c) Gas chromatography (GC)
- ☒ d) High-performance liquid chromatography (HPLC)

12. What is the principle of mass spectrometry?

- ☒ a) Measuring the mass-to-charge ratio of ions
- b) Measuring the charge-to-mass ratio of ions
- c) Measuring the size of molecules
- d) Measuring the shape of molecules

13. Which immunological technique is used to detect specific proteins in a sample?

- ☒ a) Enzyme-linked immunosorbent assay (ELISA)
- b) Western blotting
- c) Immunoprecipitation
- d) Immunofluorescence

14. What is the purpose of gene expression analysis?

- ☒ a) To study gene function
- b) To study protein function
- c) To study protein-protein interactions
- ☒ d) To study gene regulations

15. Which biophysical technique measures the structure of molecules?

- ☒ a) Nuclear magnetic resonance (NMR) spectroscopy
- b) Electron microscopy
- c) Atomic force microscopy
- ☒ d) Circular dichroism (CD) spectroscopy

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ADD ON COURSE	ANALYTICAL TECHNIQUES IN BIOCHEMISTRY
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2022-2023
DATE	21/11/2022 to 06/12/2022

ANSWER KEY:

DATE: 06/12/2022

MULTIPLE CHOICE QUESTIONS

MARKS: 15

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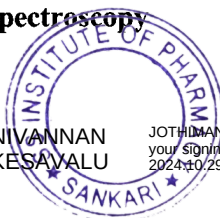
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(HPLC)

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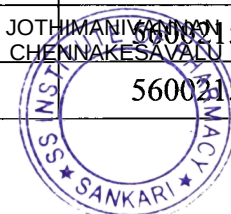
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ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : ANALYTICAL TECHNIQUES IN BIOCHEMISTRY
COURSE INSTRUCTORS : M. PRAVEEN KUMAR
YEAR OFFERED : 2nd SEM B. PHARM
COURSE DURATION : 39 HRS

S.NO	NAME OF STUDENT	REGISTER NO	MARKS (15)	PERCENTAGE (%)
1.	ABINESH. S	560021523501	12	80%
2.	ABISHEK.B	560021523502	13	86%
3.	ABISURYA .C	560021523503	14	93%
4.	ANANDASIVAM.T	560021523504	12	80%
5.	ANBU .R	560021523505	13	86%
6.	ARAVINTH.M	560021523506	12	80%
7.	ARCHANA.A	560021523507	13	86%
8.	ARIVILKUMAR.P	560021523508	12	80%
9.	ARUN .A	560021523509	14	93%
10.	ARUN KUMAR .K	560021523510	12	80%
11.	ARUNKUMAR.M	560021523511	13	86%
12.	BALAMURUGAN.B	560021523512	12	80%
13.	BATHRINATH.A	560021523513	15	100%
14.	BOOPATHI.G	560021523514	12	80%
15.	BOOPATHI.P	560021523515	13	86%
16.	CHITHARTHA.M	560021523516	12	80%
17.	DEVIPRIYA.K	560021523517	14	93%
18.	DHATCHNAMOORTHIL.K	560021523518	12	80%
19.	DHIVYA.N	560021523519	13	86%
20.	GAYATHRI.S	560021523521	12	80%



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21.	GOPIKA.K	560021523522	15	100%
22.	GOPI.K	560021523523	13	86%
23.	GURUMOORTHILM	560021523524	12	80%
24.	HARIPRIYA.K	560021523525	13	86%
25.	JOTHIPRAKASH.P	560021523526	13	86%
26.	KARTHICK KANNAN.S	560021523527	14	93%
27.	KARTHICK.K	560021523528	14	93%
28.	KARTHIKEYAN.M	560021523529	13	86%
29.	KAVIBHARATHI.S	560021523530	13	86%
30.	KAVIYA .S	560021523531	12	80%
31.	KESAVAN.P	560021523532	13	86%
32.	KIRUBANIDHI.R	560021523533	15	100%
33.	KIRUTHIKA.P	560021523534	15	100%
34.	MEGALA.G	560021523535	15	100%
35.	MOHAMMED KABEER.A	560021523536	14	93%
36.	RANISH.G	560021523537	13	86%
37.	SARAN MOHAN.R	560021523538	12	80%
38.	SASIKALA.G	560021523539	13	86%
39.	SATHYA JASMINE.A	560021523540	15	100%
40.	SETHURAMAN.P	560021523541	15	100%
41.	SOWMIYA.D	560021523542	15	100%
42.	SRIGANTH.K	560021523543	14	93%
43.	SUGASHINI.M	560021523544	13	86%
44.	SUNDHAR.S	560021523545	12	80%
45.	SURIYA.M	560021523546	13	86%
46.	SYED ABDUL A.A	560021523547	14	93%
47.	TAMILMANI.P	560021523548	13	86%
48.	THIRUMALA.I.R	560021523549	12	80%

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49.	THIRUMENINATHAN.M	560021523550	13	86%
50.	UMA SHANKAR.E	560021523551	14	93%
51.	VAITHEESWARI.V	560021523552	13	86%
52.	VIGNESH.C	560021523553	12	80%
53.	VIGNESH.S	560021523554	13	86%
54.	VIJAYASARATHI.S	560021523555	13	86%
55.	VIMAL.R	560021523556	14	93%
56.	VINOTHINLA	560021523557	14	93%
57.	VISHALATCHI.K	560021523558	15	100%
58.	YAZHINI.B	560021523559	14	93%
59.	S.YUVAKIRUTHIGA	560021523560	15	100%

TOTAL NUMBER OF STUDENT : 59

TOTAL NUMBER OF PERCENTAGE : 88.4%



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ADD ON COURSE : SUMMARY REPORT

Course code and Name: 22ATB07/ Analytical Techniques In Biochemistry

Date Of Add On Programme : 21/11/2022 to 06/12/2022

Course Duration : 39 Hours

Year Offered : 2nd Sem B.Pharm

Course Instructors : M.Praveen kumar., M.Pharm.

Course Outcomes :

- **Critical Evaluation of Methods:** Develop the ability to critically evaluate the strengths and limitations of various analytical methods. Learn how to select the most appropriate technique for specific research questions and troubleshoot common issues.
- **Ethical and Safety Considerations:** Understand the ethical and safety considerations involved in biochemical analysis, including proper handling of hazardous materials, waste disposal, and adherence to laboratory safety protocols.
- **Report Writing and Presentation:** Gain experience in documenting and presenting analytical results in a clear and professional manner. Learn how to write scientific reports and present findings to both technical and non-technical audiences.

Course Type : Add on Course

Assessment Mode:

Total Duration : 39 Hours

Number of Participants : 59

Scheme of Exam : MCQ type, offline Mode

Date of Exam : 06/12/2022

Course Coordinator



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PHARMACEUTICAL CHEMISTRY

.....B. VAZHINI.....

HAS APPRICATED FOR HIS / HER
PARTICIPATION IN ONE DAY SEMINAR ON
ANALYTICAL TECHNIQUES IN

BIOCHEMISTRY

21/11/2022 TO 06/12/2022

COORDINATOR



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ONE DAY WORKSHOP
Organized by
Department of
PHARMACEUTICAL CHEMISTRY

.....C. ABISURYA.....

HAS APPRICATED FOR HIS / HER
PARTICIPATION IN ONE DAY SEMINAR ON
ANALYTICAL TECHNIQUES IN
BIOCHEMISTRY

.....21/11/2022 TO 06/12/2022.....

COORDINATOR



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STUDENT FEEDBACK FORM

STUDENT NAME: Gobika k.

DATE: 6.12.2022

YEAR/COURSE: B.Pharm - II Sem

NAME OF THE ADD ON COURSE: Analytical techniques in Biochemistry

COURSE CODE: 22ATB07

DURATION: 39 hrs.

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
How was the objectives of the training	✓			
How satisfied are you with our seminar			✓	
How would you rate the clarity and effectiveness of the presenter's delivery	✓			
Was the seminar duration appropriate		✓		
How engaging and interactive was the seminar	✓			
Usefulness of the information provided		✓		
Overall quality of session	✓			



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PHOTOGRAPH

DATE : 3/9/22

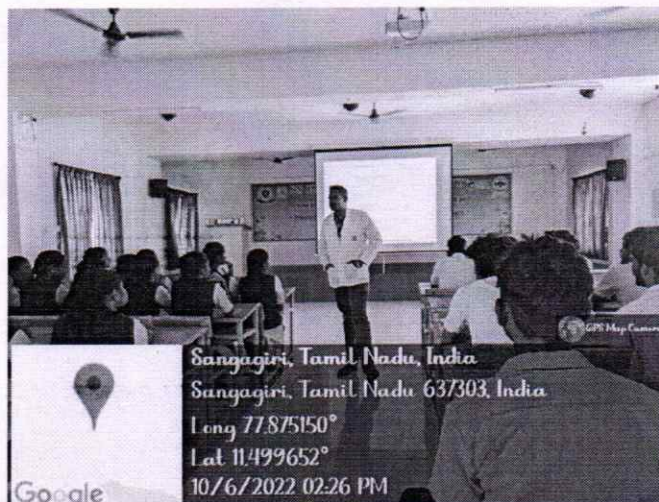
ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

NAME OF ADD ON COURSE: ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

COURSE INSTRUCTORS : SEKAR.G

YEAR OFFERED : 2nd SEM B.PHARM

COURSE DURATION : 39 HRS



Add-on course regarding the Topic Application Introduction To Analytical Techniques In Biochemistry conducted 3/9/22 the speech delivered By **M.Praveen Kumar.,M.Pharm.** which was an interactive session and students could able to understand the Application of Introduction To Analytical Techniques In Biochemistry in the fields of pharmaceutical sciences



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