



# 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,**

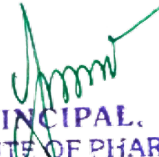
We are requesting you to grant permission to conduct add-on course in the seminar hall on 21/11/2022 to 06/12/2022. We wish to conduct add on course on the title “**Analytical Techniques In Biochemistry**”. This add-on course program would be a great opportunity for students to learn and that would help 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](mailto:ssip1718@gmail.com) | Website : [www.ssip.edu.in](http://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.



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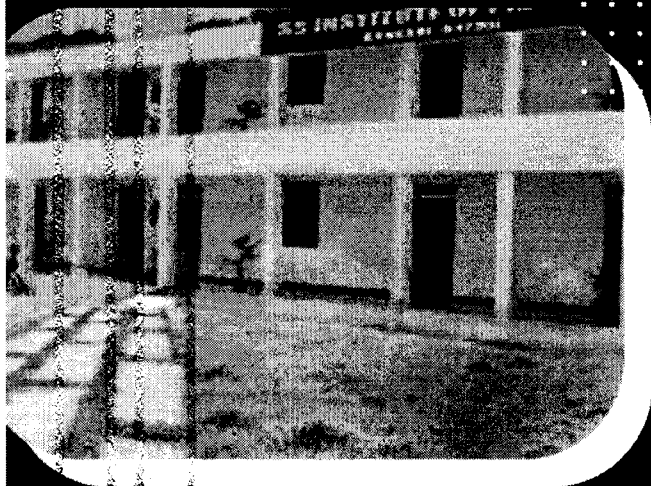
Phone : 04283 241080 | E-mail : [ssip1718@gmail.com](mailto:ssip1718@gmail.com) | Website : [www.ssip.edu.in](http://www.ssip.edu.in)



**SS INSTITUTE OF  
PHARMACY,  
SANKARI**

**DEPARTMENT OF  
PHARMACEUTICAL  
CHEMISTRY**

SSIP Seminar hall



## Contact Us



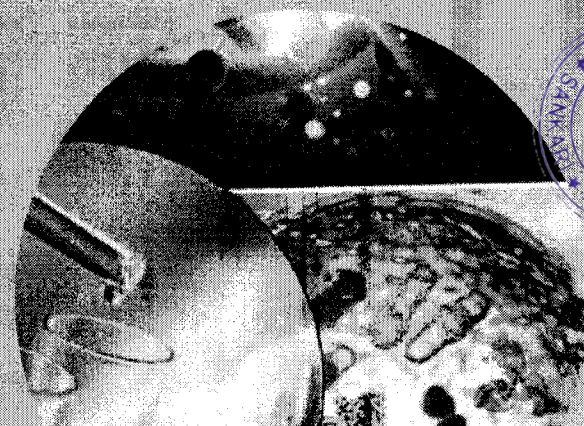
+919443026056



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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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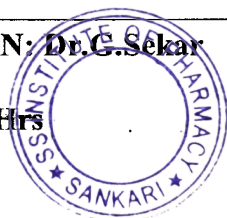
## SYLLABUS

### ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

Sl.No.	Topic	Date
1	<b>Separation Techniques in Biochemistry</b> - 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	<b>Spectroscopic Methods in Biochemistry</b> - 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	<b>Immunological and Molecular Biology Techniques</b> - 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	<b>Protein and Enzyme Analysis</b> - 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	<b>Integrative and Applied Biochemical Methods</b> - 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**



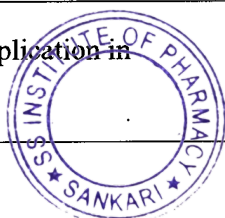
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## ACADAMIC YEAR 2022-2023

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

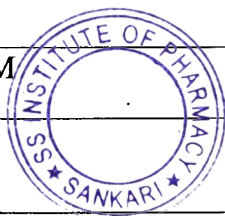
**NAME OF ADD ON COURSE:** ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

**COURSE INSTRUCTORS** : M .PRAVEEN KUMAR

**YEAR OFFERED** : 2<sup>nd</sup> SEM B.PHARM

**COURSE DURATION** : 39 HRS

S.NO	NAME OF THE STUDENT	REGISTER NO	COURSE
1.	ABINESH. S	560021523501	1 <sup>st</sup> B.Pharm
2.	ABISHEK.B	560021523502	1 <sup>st</sup> B.Pharm
3.	ABISURYA .C	560021523503	1 <sup>st</sup> B.Pharm
4.	ANANDASIVAM.T	560021523504	1 <sup>st</sup> B.Pharm
5.	ANBU .R	560021523505	1 <sup>st</sup> B.Pharm
6.	ARAVINTH.M	560021523506	1 <sup>st</sup> B.Pharm
7.	ARCHANA.A	560021523507	1 <sup>st</sup> B.Pharm
8.	ARIVILKUMAR.P	560021523508	1 <sup>st</sup> B.Pharm
9.	ARUN .A	560021523509	1 <sup>st</sup> B.Pharm
10.	ARUN KUMAR .K	560021523510	1 <sup>st</sup> B.Pharm
11.	ARUNKUMAR.M	560021523511	1 <sup>st</sup> B.Pharm
12.	BALAMURUGAN.B	560021523512	1 <sup>st</sup> B.Pharm
13.	BATHRINATH.A	560021523513	1 <sup>st</sup> B.Pharm
14.	BOOPATHI.G	560021523514	1 <sup>st</sup> B.Pharm
15.	BOOPATHI.P	560021523515	1 <sup>st</sup> B.Pharm
16.	CHITHARTHA.M	560021523516	1 <sup>st</sup> B.Pharm



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



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



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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 : 2<sup>nd</sup> SEM B.PHARM

COURSE DURATION : 39 HRS

S.NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE					
			6/6/22	7/6/22	8/6/22	9/6/22	10/6/22	13/6/22
1.	ABINESH. S	560021523501	S.A.S	S.A.S	S.A.S	S.A.S	S.A.S	S.A.S
2.	ABISHEK.B	560021523502	B.B	B.B	B.B	B.B	B.B	B.B
3.	ABISURYA .C	560021523503	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
5.	ANBU .R	560021523505	R.A	R.A	R.A	R.A	R.A	R.A
6.	ARAVINTH.M	560021523506	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
8.	ARIVILKUMAR.P	560021523508	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
10.	ARUN KUMAR .K	560021523510	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
12.	BALAMURUGAN.B	560021523512	B.B	B.B	B.B	B.B	B.B	B.B
13.	BATHRINATH.A	560021523513	A.A	A.A	A.A	A.A	A.A	A.A
14.	BOOPATHI.G	560021523514	G.A	G.A	G.A	G.A	G.A	G.A
15.	BOOPATHI.P	560021523515	P.A	P.A	P.A	P.A	P.A	P.A
16.	CHITHARTHA.M	560021523516	M.A	M.A	M.A	M.A	M.A	M.A
17.	DEVIPRIYA.K	560021523517	K.A	K.A	K.A	K.A	K.A	K.A
18.	DHATCHNAMOORTHIL.K	560021523518	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
20.	GAYATHRI.S	560021523521	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
22.	GOPI.K	560021523523	G.A	G.A	G.A	G.A	G.A	G.A
23.	GURUMOORTHIL.M	560021523524	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
25.	JOTHIPRAKASH.P	560021523526	P.A	P.A	P.A	P.A	P.A	P.A





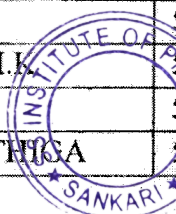
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26.	KARTHICK KANNAN.S	560021523527	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.
27.	KARTHICK.K	560021523528	K.K.	K.K.	K.K.	K.K.	K.K.	K.K.
28.	KARTHIKEYAN.M	560021523529	M.K.	M.K.	M.K.	M.K.	M.K.	M.K.
29.	KAVIBHARATHI.S	560021523530	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.
30.	KAVIYA .S	560021523531	S.K.	S.K.	S.K.	S.K.	S.K.	S.K.
31.	KESAVAN.P	560021523532	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.
32.	KIRUBANIDHI.R	560021523533	R.K.	R.K.	R.K.	R.K.	R.K.	R.K.
33.	KIRUTHIKA.P	560021523534	P.K.	P.K.	P.K.	P.K.	P.K.	P.K.
34.	MEGALA.G	560021523535	G.M.	G.M.	G.M.	G.M.	G.M.	G.M.
35.	MOHAMMED KABEER.A	560021523536	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.
36.	RANISH.G	560021523537	G.R.	G.R.	G.R.	G.R.	G.R.	G.R.
37.	SARAN MOHAN.R	560021523538	R.S.	R.S.	R.S.	R.S.	R.S.	R.S.
38.	SASIKALA.G	560021523539	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.
39.	SATHYA JASMINE.A	560021523540	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.
40.	SETHURAMAN.P	560021523541	P.S.	P.S.	P.S.	P.S.	P.S.	P.S.
41.	SOWMIYA.D	560021523542	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.
42.	SRIGANTH.K	560021523543	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.
44.	SUNDHAR.S	560021523545	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.
45.	SURIYA.M	560021523546	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
46.	SYED ABDULLA.A	560021523547	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.
47.	TAMILMANI.P	560021523548	P.T.	P.T.	P.T.	P.T.	P.T.	P.T.
48.	THIRUMALAI.R	560021523549	R.T.	R.T.	R.T.	R.T.	R.T.	R.T.
49.	THIRUMENINATHAN. M	560021523550	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.
50.	UMA SHANKARI.E	560021523551	E.S.	E.S.	E.S.	E.S.	E.S.	E.S.
51.	VAITHEESWARI.V	560021523552	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.
52.	VIGNESH.C	560021523553	C.S.	C.S.	C.S.	C.S.	C.S.	C.S.
53.	VIGNESH.S	560021523554	S.V.	S.V.	S.V.	S.V.	S.V.	S.V.
54.	VJAYASARATHI.S	560021523555	S.V.	S.V.	S.V.	S.V.	S.V.	S.V.
55.	VIMAL.R	560021523556	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.
56.	VINOTHINI.A	560021523557	A.V.	A.V.	A.V.	A.V.	A.V.	A.V.
57.	VISHALATCHI.K	560021523558	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.
58.	YAZHINI.B	560021523559	B.Y.	B.Y.	B.Y.	B.Y.	B.Y.	B.Y.
59.	S.YUVAKIRUTHIKA	560021523560	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.



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and The Directorate of Medical Education, Chennai.

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	✓	✓	✓	✓	✓	✓	✓
2.	ABISHEK.B	560021523502	✓	✓	✓	✓	✓	✓	✓
3.	ABISURYA .C	560021523503	✓	✓	✓	✓	✓	✓	✓
4.	ANANDASIVAM.T	560021523504	✓	✓	✓	✓	✓	✓	✓
5.	ANBU .R	560021523505	✓	✓	✓	✓	✓	✓	✓
6.	ARAVINTH.M	560021523506	✓	✓	✓	✓	✓	✓	✓
7.	ARCHANA.A	560021523507	✓	✓	✓	✓	✓	✓	✓
8.	ARIVILKUMAR.P	560021523508	✓	✓	✓	✓	✓	✓	✓
9.	ARUN .A	560021523509	✓	✓	✓	✓	✓	✓	✓
10.	ARUN KUMAR .K	560021523510	✓	✓	✓	✓	✓	✓	✓
11.	ARUNKUMAR.M	560021523511	✓	✓	✓	✓	✓	✓	✓
12.	BALAMURUGAN.B	560021523512	✓	✓	✓	✓	✓	✓	✓
13.	BATHRINATH.A	560021523513	✓	✓	✓	✓	✓	✓	✓
14.	BOOPATHI.G	560021523514	✓	✓	✓	✓	✓	✓	✓
15.	BOOPATHI.P	560021523515	✓	✓	✓	✓	✓	✓	✓
16.	CHITHARTHA.M	560021523516	✓	✓	✓	✓	✓	✓	✓
17.	DEVIPRIYA.K	560021523517	✓	✓	✓	✓	✓	✓	✓
18.	DHATCHNAMOORTHIL.K	560021523518	✓	✓	✓	✓	✓	✓	✓
19.	DHIVYA.N	560021523519	✓	✓	✓	✓	✓	✓	✓
20.	GAYATHRI.S	560021523521	✓	✓	✓	✓	✓	✓	✓
21.	GOPIKA.K	560021523522	✓	✓	✓	✓	✓	✓	✓
22.	GOPI.K	560021523523	✓	✓	✓	✓	✓	✓	✓
23.	GURUMOORTHIL.M	560021523524	✓	✓	✓	✓	✓	✓	✓
24.	HARIPRIYA.K	560021523525	✓	✓	✓	✓	✓	✓	✓
25.	JOTHIPRAKASH.P	560021523526	✓	✓	✓	✓	✓	✓	✓
26.	KARTHICK KANNAN.S	560021523527	✓	✓	✓	✓	✓	✓	✓
27.	KARTHICK.K	560021523528	✓	✓	✓	✓	✓	✓	✓
28.	KARTHIKEYAN.M	560021523529	✓	✓	✓	✓	✓	✓	✓
29.	KAVIBHARATHI.S	560021523530	✓	✓	✓	✓	✓	✓	✓
30.	KAVIYA .S	560021523531	✓	✓	✓	✓	✓	✓	✓
31.	KESAVAN.P	560021523532	✓	✓	✓	✓	✓	✓	✓





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



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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: MELALIA . 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?

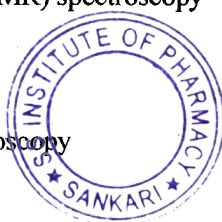
- ☒ a) Enzyme-linked immunosorbent assay (ELISA)
- b) Western blotting
- c) Immunoprecipitation
- ☒ d) Enzyme assay

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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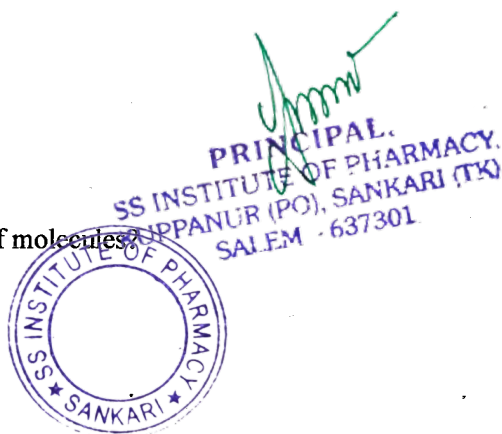


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10. What is the purpose of gel electrophoresis?
- ☒ a) To separate and identify proteins based on size
  - b) To separate and identify proteins based on charge
  - c) To study protein-protein interactions
  - d) To study protein function
11. Which 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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- c) Separation based on charge only
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- c) Atomic force microscopy
- d) Circular dichroism (CD) spectroscopy



*[Signature]*  
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- d) To study protein function

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(HPLC)

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- 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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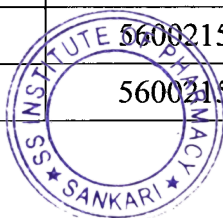
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and The Directorate of Medical Education, Chennai.

## ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : ANALYTICAL TECHNIQUES IN BIOCHEMISTRY  
COURSE INSTRUCTORS : M. PRAVEEN KUMAR  
YEAR OFFERED : 2<sup>nd</sup> 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.	DHATCHNAMOORTHILK	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.	GURUMOORTHIM	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.	THIRUMALAI.R	560021523549	12	80%



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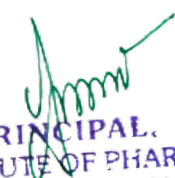
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and The Directorate of Medical Education, Chennai.


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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NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India  
Phone : 04283 241080 | E-mail : [ssip1718@gmail.com](mailto:ssip1718@gmail.com) | Website : [www.ssip.edu.in](http://www.ssip.edu.in)





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and The Directorate of Medical Education, Chennai.

## 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 :** 2<sup>nd</sup> 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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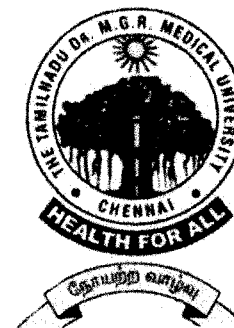
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**NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India**

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**ONE DAY WORKSHOP**  
**Organized by**  
**Department of**  
**PHARMACEUTICAL CHEMISTRY**

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

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

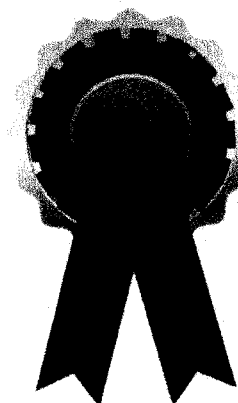
**21/11/2022 TO 06/12/2022**

**COORDINATOR**



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**PRINCIPAL**





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

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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

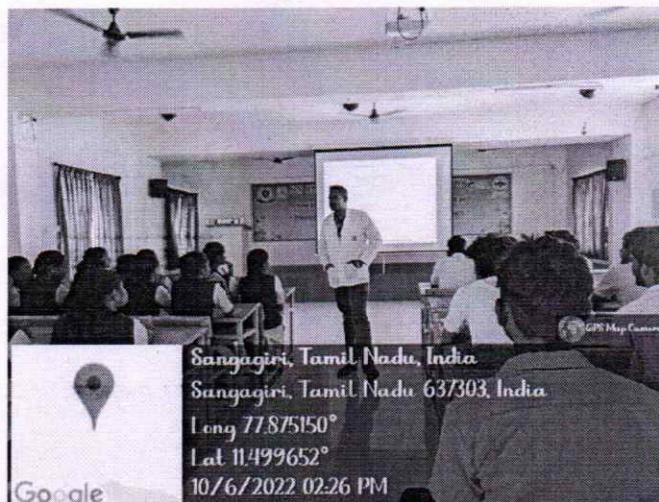
### ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

NAME OF ADD ON COURSE: ANALYTICAL TECHNIQUES IN BIOCHEMISTRY

COURSE INSTRUCTORS : SEKAR.G

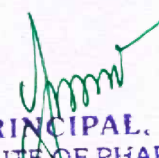
YEAR OFFERED : 2<sup>nd</sup> SEM B.PHARM

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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