



SS INSTITUTE OF PHARMACY

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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/2021/003

Date: 21/10/2021

From

Department of Pharmaceutics,
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,

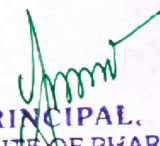
We are requesting you to grant permission to conduct add-on course in the seminar hall on **08/11/2021 to 23/11/2021**. We wish to conduct add on course on the title “**Advanced Methods In Polymer Techniques**”. This add-on course program would be a great opportunity for students to learn and that would 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



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12

DATE: 21/10/2021

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
ADVANCED METHODS IN POLYMER TECHNIQUES	08/11/2021 to 23/11/2021	36 HOURS	SEMINAR HALL	T.SAMPATHKUMAR

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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SALEM - 637301.

PRINCIPAL.

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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



**SS INSTITUTE OF
PHARMACY**



COURSE TITLE

ADVANCED METHODS IN POLYMER TECHNIQUES

RESOURCE PERSON

T.SAMPATH KUMAR
M.PHARM
Assistant Professor

DEPARTMENT OF PHARMACEUTICS

VENUE: SSIP Seminar hall
DATE :08/11/2021 TO 23/11/2021

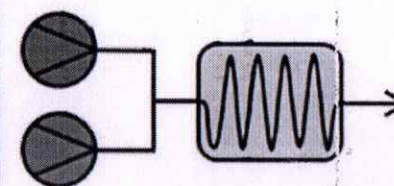
TIME :10:00am-01:00pm

TOPICS

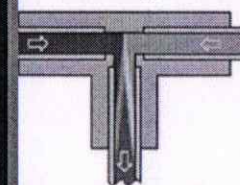
- Polymer Characterization Methods
- High-Performance Polymers
- Advanced Polymer Processing Techniques
- Functional Polymers and Nanocomposites
- Polymer Chemistry and Reactions



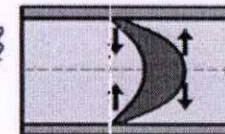
SS INSTITUTE OF PHARMACY,
KUPPANUR (P), SANKARI TALUK,
SALEM - 637 301



Mixing



Fluid Flow



CONTACT US



9443026056



SSIP1718@GMAIL.COM



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



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SYLLABUS

ADVANCED METHODS IN POLYMER TECHNIQUES

Sl. No.	Topic	DATE
1	Polymer Characterization and Analysis - Polymer Characterization using Spectroscopy - Computational Modeling and Simulation in Polymer Science	8/11/2021- 10/11/2021
2	Polymer Synthesis and Processing - Advanced Polymer Synthesis Techniques - Polymer Processing and Rheology	11/11/2021- 12/11/2021
3	Nanotechnology and Functional Polymers - Polymer Nanotechnology and Nanocomposites - Polymer Membranes and Separation Technology	16/11/2021- 18/11/2021
4	Blends, Composites, and Functional Applications - Polymer Blends and Composites - Polymer Coatings and Adhesives	19/11/2021- 20/11/2021
5	Sustainability and Waste Management - Biodegradable and Biobased Polymers - Polymer Recycling and Waste Management	22/11/2021- 23/11/2021

RESOURCE PERSON: T. Sampath Kumar

TOTAL HOURS: 36Hrs



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

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**ADD ON / CERTIFICATE VALUE ADDED COURSES ACADEMIC
YEAR 2021-2022**



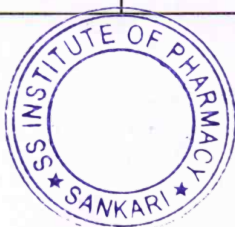
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ACADEMIC YEAR 2021-2022

S.NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE CODE	NO OF STUDENT ENROLLED	TYPE OF ADD ON CERTIFICATE PROGRAMS
1.	Introduction to health apps	21IHA01	78	Self-framed course
2.	Introduction to human-Computer interactions	21IHCI02	55	Self-framed course
3.	Advanced methods in polymer techniques	21AMPT03	58	Self-framed course
4.	Neuroscience of decision making	21NDM04	60	Self-framed course
5.	Nanomedicine regulatory aspects	21NRA05	53	Self-framed course
6.	Natural gas engineering	22NGE06	56	Self-framed course
7.	AI in healthcare opportunities and challenges	22AHOC07	59	Self-framed course
8.	Advanced aquaculture technology methodology	22AATM08	117	Self-framed course



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ADD ON COURSE – ENROLLMENT LIST

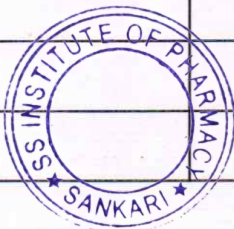
NAME OF ADD ON COURSE : ADVANCED METHODS IN POLYMER TECHNIQUES

COURSE INSTRUCTORS : T.SAMPATH KUMAR

YEAR OFFERED : IInd B.PHARM IIIrd SEM

COURSE DURATION : 36 HRS

S.NO	NAME OF THE STUDENT	REGISTER NO	COURSE
1.	ABINAYA.M	560020523501	2 nd B.Pharm
2.	ABISHEK.J	560020523502	2 nd B.Pharm
3.	AMOKA.V	560020523503	2 nd B.Pharm
4.	ANBUSELVAN.V	560020523504	2 nd B.Pharm
5.	ANBUSELVI.S	560020523505	2 nd B.Pharm
6.	ANITHA.L	560020523506	2 nd B.Pharm
7.	ARAVIND.R	560020523507	2 nd B.Pharm
8.	ARCHANA.M	560020523508	2 nd B.Pharm
9.	ARUN VENKATESHWARAN.S	560020523509	2 nd B.Pharm
10.	ARUN.A	560020523510	2 nd B.Pharm
11.	ASWIN.M	560020523511	2 nd B.Pharm
12.	ATCHAYA.K	560020523512	2 nd B.Pharm
13.	BANU.S	560020523513	2 nd B.Pharm
14.	BAVITHRA.B	560020523514	2 nd B.Pharm
15.	BHARATHI RAJA.S	560020523515	2 nd B.Pharm
16.	BHARATH KUMAR.R	560020523516	2 nd B.Pharm
17.	DEEPASRI.P	560020523517	2 nd B.Pharm



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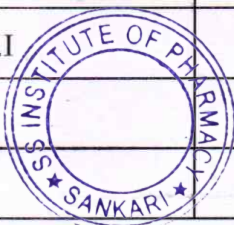
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18.	DINESH.S	560020523518	2 nd B.Pharm
19.	GOPIKRISHNAN.V	560020523519	2 nd B.Pharm
20.	GOWSALYA.V	560020523520	2 nd B.Pharm
21.	GULBAHAR.G	560020523521	2 nd B.Pharm
22.	HEMADHARAN.V	560020523522	2 nd B.Pharm
23.	ISHWARYA.S	560020523523	2 nd B.Pharm
24.	JEYASURYA.V	560020523524	2 nd B.Pharm
25.	KESAVAMUGILESH.M	560020523525	2 nd B.Pharm
26.	MUTHU.J	560020523526	2 nd B.Pharm
27.	NAGAMUGILAN.P	560020523527	2 nd B.Pharm
28.	NAGESHWARI.K	560020523528	2 nd B.Pharm
29.	NARESH KUMAR.M	560020523529	2 nd B.Pharm
30.	NARMATHA.M	560020523530	2 nd B.Pharm
31.	PAPITHA .V	560020523531	2 nd B.Pharm
32.	PRAGATHI .P	560020523532	2 nd B.Pharm
33.	PRASANTH .M	560020523533	2 nd B.Pharm
34.	PRIYADARSHINI .V	560020523534	2 nd B.Pharm
35.	RAJALAKSHMI .N	560020523535	2 nd B.Pharm
36.	RAJARAJAN .M	560020523536	2 nd B.Pharm
37.	SATHISHKUMAR .J	560020523537	2 nd B.Pharm
38.	SHIRLEY ELIZABETH.I	560020523538	2 nd B.Pharm
39.	SIVA S.V	560020523539	2 nd B.Pharm
40.	SIVAPRAKASH .V	560020523540	2 nd B.Pharm



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41.	SUDHA D.G	560020523541	2 nd B.Pharm
42.	SUNDARAKANNAN .D	560020523542	2 nd B.Pharm
43.	SURIYA .G	560020523543	2 nd B.Pharm
44.	SWATHY .M	560020523544	2 nd B.Pharm
45.	SYED YASIN S.M	560020523545	2 nd B.Pharm
46.	TAMILARASAN .A	560020523546	2 nd B.Pharm
47.	THAMIZHARASAN .N	560020523547	2 nd B.Pharm
48.	THILAGAVATHI .M	560020523548	2 nd B.Pharm
49.	THIRUMURUGAN .R	560020523549	2 nd B.Pharm
50.	UMAVATHI .P	560020523550	2 nd B.Pharm
51.	VALLARASU.D	560020523551	2 nd B.Pharm
52.	VASANTHRAJ .S	560020523552	2 nd B.Pharm
53.	VINOTH SANJAY.T	560020523553	2 nd B.Pharm
54.	VINOTH .S	560020523554	2 nd B.Pharm
55.	VISHWA .M	560020523555	2 nd B.Pharm
56.	VISHWANATHAN .V	560020523556	2 nd B.Pharm
57.	CHANDURU .R	560021523561	2 nd B.Pharm
58.	NISHA .P	560021523562	2 nd B.Pharm




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ADD ON COURSE – ATTENDANCE LIST

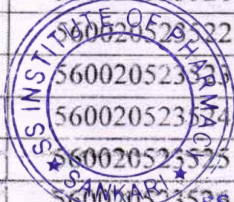
NAME OF ADD ON COURSE : ADVANCED METHODS IN POLYMER TECHNIQUES

COURSE INSTRUCTORS : T.SAMPATH KUMAR

YEAR OFFERED : IInd B.PHARM IIIrd SEM

COURSE DURATION : 36 HRS

S.NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE					
			8/11/21	9/11/21	10/11/21	11/11/21	12/11/21	16/11/21
1.	ABINAYA.M	560020523501	AB	AB	AB	AB	AB	AB
2.	ABISHEK.J	560020523502	AB	AB	AB	AB	AB	AB
3.	AMOKA.V	560020523503	V.Amoka	V.Amoka	V.Amoka	V.Amoka	V.Amoka	V.Amoka
4.	ANBUSELVAN.V	560020523504	AN	AN	AN	AN	AN	AN
5.	ANBUSELVIS	560020523505	AN	AN	AN	AN	AN	AN
6.	ANITHA.I	560020523506	AN	AN	AN	AN	AN	AN
7.	ARAVIND.R	560020523507	AR	AR	AR	AR	AR	AR
8.	ARCHANA.M	560020523508	MA	MA	MA	MA	MA	MA
9.	ARUN VENKATESHWARAN.S	560020523509	SA	SA	SA	SA	SA	SA
10.	ARUN.A	560020523510	AR	AR	AR	AR	AR	AR
11.	ASWIN.M	560020523511	AS	AS	AS	AS	AS	AS
12.	ATCHAYA.K	560020523512	KA	KA	KA	KA	KA	KA
13.	BANU.S	560020523513	BA	BA	BA	BA	BA	BA
14.	BAVITHRA.B	560020523514	BA	BA	BA	BA	BA	BA
15.	BHARATHI RAJA.S	560020523515	BR	BR	BR	BR	BR	BR
16.	BHARATH KUMAR.R	560020523516	BR	BR	BR	BR	BR	BR
17.	DEEPASRI.P	560020523517	DP	DP	DP	DP	DP	DP
18.	DINESH.S	560020523518	DS	DS	DS	DS	DS	DS
19.	GOPIKRISHNAN.V	560020523519	GV	GV	GV	GV	GV	GV
20.	GOWSALYA.V	560020523520	GV	GV	GV	GV	GV	GV
21.	GULBAHAR.G	560020523521	GU	GU	GU	GU	GU	GU
22.	HEMADHARAN.V	560020523522	HA	HA	HA	HA	HA	HA
23.	ISHWARYA.S	560020523523	IS	IS	IS	IS	IS	IS
24.	JEYASURYA.V	560020523524	JS	JS	JS	JS	JS	JS
25.	KESAVAMUGILESH.M	560020523525	KE	KE	KE	KE	KE	KE
26.	MUTHU.J	560020523526	MT	MT	MT	MT	MT	MT



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KUPPANUR (PO), SANKARI (TK), SALEM (DT) - 637301



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27.	NAGAMUGILAN.P	560020523527	P.ugil	P.ugil	P.ugil	P.ugil	P.ugil	P.ugil
28.	NAGESHWARI.K	560020523528	K.Na	K.Na	K.Na	K.Na	K.Na	K.Na
29.	NARESH KUMAR.M	560020523529	M.Na	M.Na	M.Na	M.Na	M.Na	M.Na
30.	NARMATHA.M	560020523530	M.Na	M.Na	M.Na	M.Na	M.Na	M.Na
31.	PAPITHA .V	560020523531	V.Pa	V.Pa	V.Pa	V.Pa	V.Pa	V.Pa
32.	PRAGATHI .P	560020523532	P.Pr	P.Pr	P.Pr	P.Pr	P.Pr	P.Pr
33.	PRASANTH .M	560020523533	M.Pr	M.Pr	M.Pr	M.Pr	M.Pr	M.Pr
34.	PRIYADARSHINI .V	560020523534	V.Pr	V.Pr	V.Pr	V.Pr	V.Pr	V.Pr
35.	RAJALAKSHMI .N	560020523535	N.Ra	N.Ra	N.Ra	N.Ra	N.Ra	N.Ra
36.	RAJARAJAN .M	560020523536	M.Ra	M.Ra	M.Ra	M.Ra	M.Ra	M.Ra
37.	SATHISHKUMAR .J	560020523537	J.Sa	J.Sa	J.Sa	J.Sa	J.Sa	J.Sa
38.	SHIRLEY ELIZABETH.J	560020523538	J.Sh	J.Sh	J.Sh	J.Sh	J.Sh	J.Sh
39.	SIVA S.V	560020523539	V.Si	V.Si	V.Si	V.Si	V.Si	V.Si
40.	SIVAPRAKASH .V	560020523540	V.Si	V.Si	V.Si	V.Si	V.Si	V.Si
41.	SUDHA D.G	560020523541	G.Su	G.Su	G.Su	G.Su	G.Su	G.Su
42.	SUNDARAKANNAN .D	560020523542	D.Su	D.Su	D.Su	D.Su	D.Su	D.Su
43.	SURIYA .G	560020523543	G.Su	G.Su	G.Su	G.Su	G.Su	G.Su
44.	SWATHY .M	560020523544	M.Sw	M.Sw	M.Sw	M.Sw	M.Sw	M.Sw
45.	SYED YASIN S.M	560020523545	M.Sy	M.Sy	M.Sy	M.Sy	M.Sy	M.Sy
46.	TAMILARASAN .A	560020523546	A.Ta	A.Ta	A.Ta	A.Ta	A.Ta	A.Ta
47.	THAMIZHARASAN .N	560020523547	N.Ta	N.Ta	N.Ta	N.Ta	N.Ta	N.Ta
48.	THILAGAVATHI .M	560020523548	M.Th	M.Th	M.Th	M.Th	M.Th	M.Th
49.	THIRUMURUGAN .R	560020523549	R.Th	R.Th	R.Th	R.Th	R.Th	R.Th
50.	UMAVATHI .P	560020523550	P.Um	P.Um	P.Um	P.Um	P.Um	P.Um
51.	VALLARASU.D	560020523551	D.Va	D.Va	D.Va	D.Va	D.Va	D.Va
52.	VASANTHRAJ .S	560020523552	S.Va	S.Va	S.Va	S.Va	S.Va	S.Va
53.	VINOTH SANJAY.T	560020523553	T.Vi	T.Vi	T.Vi	T.Vi	T.Vi	T.Vi
54.	VINOTH .S	560020523554	S.Vi	S.Vi	S.Vi	S.Vi	S.Vi	S.Vi
55.	VISHWA .M	560020523555	M.Vi	M.Vi	M.Vi	M.Vi	M.Vi	M.Vi
56.	VISHWANATHAN .V	560020523556	V.Vi	V.Vi	V.Vi	V.Vi	V.Vi	V.Vi
57.	CHANDURU .R	560021523561	R.Ch	R.Ch	R.Ch	R.Ch	R.Ch	R.Ch
58.	NISHA .P	560021523562	P.Ni	P.Ni	P.Ni	P.Ni	P.Ni	P.Ni



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ADD ON COURSE –ATTENDANCE LIST

NAME OF ADD ON COURSE : ADVANCED METHODS IN POLYMER TECHNIQUES

COURSE INSTRUCTORS : T.SAMPATH KUMAR

YEAR OFFERED : IInd B.PHARM IIIrd SEM

COURSE DURATION : 36 HRS

S.NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE						
			17/11/21	18/11/21	19/11/21	20/11/21	22/11/21	23/11/21	
1.	ABINAYA.M	560020523501							
2.	ABISHEK.J	560020523502							
3.	AMOKA.V	560020523503							
4.	ANBUSELVAN.V	560020523504							
5.	ANBUSELVI.S	560020523505							
6.	ANITHA.L	560020523506							
7.	ARAVIND.R	560020523507							
8.	ARCHANA.M	560020523508							
9.	ARUN VENKATESHWARAN.S	560020523509							
10.	ARUN.A	560020523510							
11.	ASWIN.M	560020523511							
12.	ATCHAYA.K	560020523512							
13.	BANU.S	560020523513							
14.	BAVITHRA.B	560020523514							
15.	BHARATHI RAJA.S	560020523515							
16.	BHARATH KUMAR.R	560020523516							
17.	DEEPASRI.P	560020523517							
18.	DINESH.S	560020523518							
19.	GOPIKRISHNAN.V	560020523519							
20.	GOWSALYA.V	560020523520							
21.	GULBAHAR.G	560020523521							
22.	HEMADHARAN.V	560020523522							
23.	ISHWARYA.S	560020523523							
24.	JEYASURYA.V	560020523524							
25.	KESAVAMUGILESH.A	560020523525							
26.	MUTHU.J	560020523526							
27.	NAGAMUGILAN.P	560020523527							
28.	NAGESHWARI.K	560020523528							
29.	NARESH KUMAR.M	560020523529							
30.	NARMATHA.M	560020523530							

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31.	PAPITHA .V	560020523531	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
32.	PRAGATHI .P	560020523532	P.P.P.	P.P.P.	P.P.P.	P.P.P.	P.P.P.	P.P.P.
33.	PRASANTH .M	560020523533	P.P.P.	P.P.P.	P.P.P.	P.P.P.	P.P.P.	P.P.P.
34.	PRIYADARSHINI .V	560020523534	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
35.	RAJALAKSHMI .N	560020523535	R.P.P.	R.P.P.	R.P.P.	R.P.P.	R.P.P.	R.P.P.
36.	RAJARAJAN .M	560020523536	R.P.P.	R.P.P.	R.P.P.	R.P.P.	R.P.P.	R.P.P.
37.	SATHISHKUMAR .J	560020523537	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
38.	SHIRLEY ELIZABETH.I	560020523538	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
39.	SIVA S.V	560020523539	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
40.	SIVAPRAKASH .V	560020523540	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
41.	SUDHA D.G	560020523541	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
42.	SUNDARAKANNAN .D	560020523542	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
43.	SURIYA .G	560020523543	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
44.	SWATHY .M	560020523544	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
45.	SYED YASIN S.M	560020523545	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.	S.P.P.
46.	TAMILARASAN .A	560020523546	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.
47.	THAMIZHARASAN .N	560020523547	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.
48.	THILAGAVATHI .M	560020523548	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.
49.	THIRUMURUGAN .R	560020523549	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.	T.P.P.
50.	UMAVATHI .P	560020523550	U.P.P.	U.P.P.	U.P.P.	U.P.P.	U.P.P.	U.P.P.
51.	VALLARASU.D	560020523551	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
52.	VASANTHRAJ .S	560020523552	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
53.	VINOTH SANJAY.T	560020523553	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
54.	VINOTH .S	560020523554	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
55.	VISHWA .M	560020523555	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
56.	VISHWANATHAN .V	560020523556	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.	V.P.P.
57.	CHANDURU .R	560021523561	C.P.P.	C.P.P.	C.P.P.	C.P.P.	C.P.P.	C.P.P.
58.	NISHA .P	560021523562	N.P.P.	N.P.P.	N.P.P.	N.P.P.	N.P.P.	N.P.P.



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12

ADD ON COURSE	ADVANCED METHODS IN POLYMER TECHNIQUES
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2021-2022
DATE	08/11/2021 to 23/11/2021
VENUE	SEMINAR HALL
NAME: <u>M. Suresh</u>	COURSE: <u>II - year</u>

ANSWER ALL THE QUESTIONS:

DATE: 23/11/2021

MULTIPLE CHOICE QUESTIONS

MARKS: 15

1. What is the primary purpose of controlled/living polymerization techniques?

- ☒ a) To produce polymer chains with uniform lengths
- b) To create random copolymers
- c) To degrade polymers quickly
- d) To produce polymers with irregular structures

2. Which of the following is an example of a living polymerization technique?

- a) Radical polymerization
- ☒ b) Anionic polymerization
- c) Step-growth polymerization
- d) Emulsion polymerization

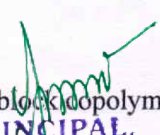
3. In Atom Transfer Radical Polymerization (ATRP), what is the role of the transition metal catalyst?

- a) To initiate the polymerization process
- ☒ b) To control the growth of the polymer chain
- c) To terminate the polymer chain
- d) To act as a monomer

4. Which of the following techniques is commonly used for producing block copolymers?

- a) Free radical polymerization
- ☒ b) Living polymerization
- c) Condensation polymerization
- d) Suspension polymerization




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5. What is the main advantage of Ring-Opening Polymerization (ROP) over other polymerization methods?

- ☒ a) It allows the polymerization of cyclic monomers.
- b) It is the fastest polymerization method.
- c) It does not require a catalyst.
- d) It only produces linear polymers.

6. Which of the following is NOT a characteristic of step-growth polymerization?

- a) Polymerization occurs between monomers with functional groups.
- ☒ b) High molecular weight polymers form early in the reaction.
- c) The polymerization rate is independent of the monomer concentration.
- d) Polymer chains grow by the stepwise reaction of monomers.

7. What is the primary use of Ziegler-Natta catalysts in polymerization?

- ☒ a) To produce high-density polyethylene (HDPE)
- b) To control the molecular weight of polymers
- c) To initiate free radical polymerization
- d) To produce low-density polyethylene (LDPE)

8. In Reversible Addition-Fragmentation Chain Transfer (RAFT) polymerization, what is the role of the chain transfer agent?

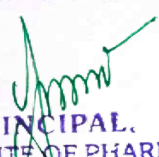
- a) To terminate the polymerization
- ☒ b) To control the molecular weight of the polymer
- c) To accelerate the polymerization process
- d) To prevent polymer degradation

9. Which advanced polymerization technique is specifically designed to reduce the polydispersity index (PDI) of the resulting polymer?

- a) Free radical polymerization
- ☒ b) Living/controlled polymerization
- c) Emulsion polymerization
- d) Bulk polymerization

10. What is the primary advantage of using metallocene catalysts in polymer synthesis?

- ☒ a) They enable the precise control of polymer architecture.
- b) They are inexpensive and readily available.
- c) They produce polymers with a very high molecular weight.
- d) They work well at very high temperatures.


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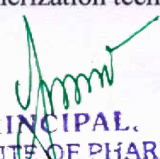
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11. Which of the following is a key benefit of using supercritical carbon dioxide in polymer processing?
- a) It is a highly reactive solvent.
 - ☒ b) It allows for the creation of polymer foams with controlled porosity.
 - c) It is a toxic and hazardous material.
 - d) It is not suitable for environmentally friendly processing.
12. What is a distinguishing feature of click chemistry in polymer science?
- ☒ a) High selectivity and efficiency in forming covalent bonds
 - b) Use of toxic and expensive reagents
 - c) Requirement of high temperatures and pressures
 - d) Lack of functional group tolerance
13. Which of the following is true about reversible deactivation radical polymerization (RDRP)?
- a) It always leads to uncontrolled polymerization.
 - ☒ b) It allows the synthesis of polymers with low polydispersity.
 - c) It only applies to anionic polymerization.
 - d) It is the same as free radical polymerization.
14. Which technique is often used for the production of high-performance thermoplastics like PEEK and PPS?
- a) Ring-opening metathesis polymerization (ROMP)
 - ☒ b) Step-growth polymerization
 - c) Free radical polymerization
 - d) Emulsion polymerization
15. Which of the following is a challenge associated with advanced polymerization techniques?
- ☒ a) High production costs
 - b) Difficulty in controlling polymer architecture
 - c) Low molecular weight of the products
 - d) Incompatibility with bulk production




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ADD ON COURSE	ADVANCED METHODS IN POLYMER TECHNIQUES
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2021-2022
DATE	08/11/2021 to 23/11/2021

ANSWER KEY:

DATE: 23/11/2021

MULTIPLE CHOICE QUESTIONS

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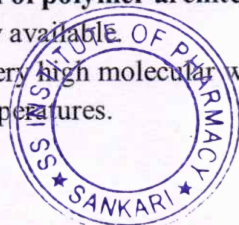
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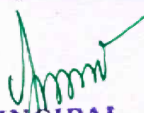
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ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : ADVANCED METHODS IN POLYMER TECHNIQUES
COURSE INSTRUCTORS : T.SAMPATH KUMAR
YEAR OFFERED : IIndB.PHARMIIIrdSEM
COURSE DURATION : 36HRS

S.NO	NAME OF STUDENT	REGISTER NO	MARKS (15)	PERCENTAGE (%)
1.	ABINAYA.M	560020523501	13	86%
2.	ABISHEK.J	560020523502	15	100%
3.	AMOKA.V	560020523503	14	93%
4.	ANBUSELVAN.V	560020523504	12	80%
5.	ANBUSELV.S	560020523505	13	86%
6.	ANITHA.L	560020523506	14	93%
7.	ARAVIND.R	560020523507	12	80%
8.	ARCHANA.M	560020523508	14	93%
9.	ARUN VENKATESHWARAN.S	560020523509	12	80%
10.	ARUN.A	560020523510	13	86%
11.	ASWIN.M	560020523511	14	93%
12.	ATCHAYA.K	560020523512	13	86%
13.	BANU.S	560020523513	12	80%
14.	BAVITHRA.B	560020523514	15	100%
15.	BHARATHI RAJA.S	560020523515	15	100%
16.	BHARATH KUMAR.R	560020523516	14	93%
17.	DEEPASRI.P	560020523517	13	86%
18.	DINESH.S	560020523518	15	100%
19.	GOPIKRISHNAN.V	560020523519	14	93%



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20.	GOWSALYA.V	560020523520	14	93%
21.	GULBAHAR.G	560020523521	13	86%
22.	HEMADHARAN.V	560020523522	15	100%
23.	ISHWARYA.S	560020523523	14	93%
24.	JEYASURYA.V	560020523524	13	86%
25.	KESAVAMUGILESH.M	560020523525	15	100%
26.	MUTHU.J	560020523526	14	93%
27.	NAGAMUGILAN.P	560020523527	15	100%
28.	NAGESHWARI.K	560020523528	13	86%
29.	NARESH KUMAR.M	560020523529	14	93%
30.	NARMATHA.M	560020523530	13	86%
31.	PAPITHA .V	560020523531	15	100%
32.	PRAGATHI .P	560020523532	13	86%
33.	PRASANTH .M	560020523533	12	80%
34.	PRIYADARSHINI .V	560020523534	13	86%
35.	RAJALAKSHMI .N	560020523535	13	86%
36.	RAJARAJAN .M	560020523536	13	86%
37.	SATHISHKUMAR .J	560020523537	15	100%
38.	SHIRLEY ELIZABETH.I	560020523538	14	93%
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44.	SWATHY	560020523544	15	100%
45.	SYED YASIN S.M	560020523545	14	93%
46.	TAMILARASAN .A	560020523546	13	86%
47.	THAMIZHARASAN .N	560020523547	13	93%

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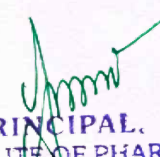
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48.	THILAGAVATHI .M	560020523548	15	100%
49.	THIRUMURUGAN .R	560020523549	15	100%
50.	UMAVATHI .P	560020523550	13	86%
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54.	VINOTH .S	560020523554	15	100%
55.	VISHWA .M	560020523555	13	86%
56.	VISHWANATHAN .V	560020523556	15	100%
57.	CHANDURU .R	560021523561	13	86%
58.	NISHA .P	560021523562	15	100%

TOTAL NUMBER OF STUDENT : 58

TOTAL NUMBER OF PERCENTAGE : 91.7%




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ADD ON COURSE : SUMMARY REPORT

Course code and Name : 21AMPT03/ Advanced Methods In Polymer Techniques

Date Of Add On Programme : 08/11/2021 to 23/11/2021

Course Duration : 36 Hours

Year Offered : 3rd Sem B.Pharm

Course Instructors : T.Sampath kumar.,M.Pharm.,

Course Outcomes :

- Deepen understanding of advanced polymerization methods, including controlled/living polymerization and high-throughput synthesis.
- Explore complex polymer characterization techniques, such as advanced spectroscopy, microscopy, and rheology for detailed structural and property analysis.
- Examine the design and synthesis of functional polymers, including smart materials, biodegradable polymers, and polymers for specific applications like drug delivery or electronics.
- Apply polymer processing and fabrication techniques, such as electrospinning, 3D printing, and advanced molding methods.

Course Type : Add on Course

Assessment Mode:

Total Duration : 36 Hours

Number of Participants : 58

Scheme of Exam : MCQ type, offline Mode

Date of Exam : 23/11/2021

Course Coordinator



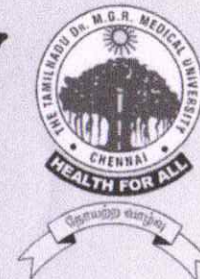
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CERTIFICATE OF PARTICIPATION



ONE DAY WORKSHOP
Organized by
Department of
PHARMACEUTICS

.....D.G. SUDHA.....

HAS APPRICATED FOR HIS / HER PARTICIPATION
IN ONE DAY SEMINAR ON
ADVANCED METHOD IN POLYMER TECHNIQUES

.....08/11/2021 TO 23/11/2021.....


COORDINATOR




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ONE DAY WORKSHOP
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PHARMACEUTICS

.....M. ARCHANA.....

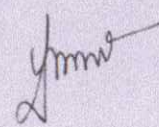
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COORDINATOR




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


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Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

STUDENT FEEDBACK FORM

STUDENT NAME: S. ISHWARYA

DATE: 23/11/2021

YEAR/COURSE: B PHARM II YEAR

NAME OF THE ADD ON COURSE: ADVANCED METHODS IN POLYMER

COURSE CODE: 21AMPT03 TECHNIQUES DURATION: 36 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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SIGNATURE



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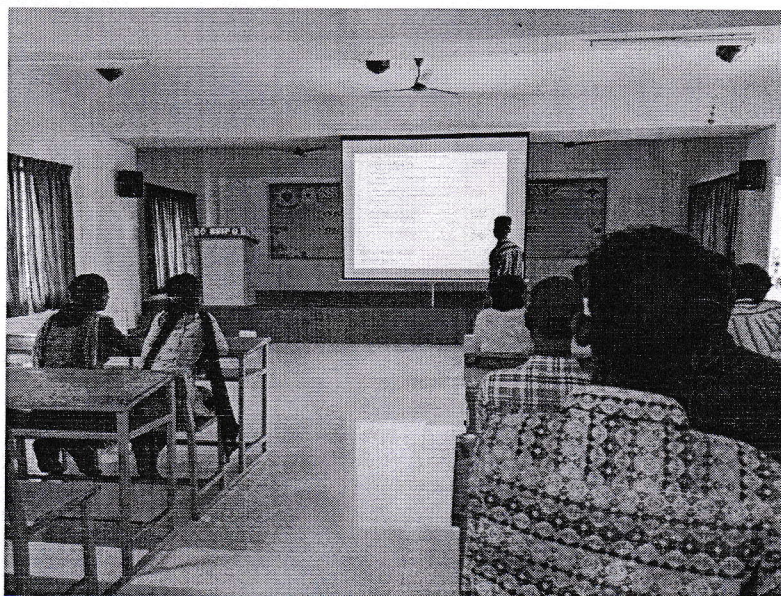
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PHOTOGRAPH

DATE : 11/11/2021


ADVANCED METHODS IN POLYMER TECHNIQUES

NAME OF ADD ON COURSE : ADVANCED METHODS IN POLYMER TECHNIQUES
COURSE INSTRUCTORS : T.SAMPATH KUMAR
YEAR OFFERED : IInd B.PHARM IIIrd SEM
COURSE DURATION : 36 HRS



Add-on course regarding the Topic Application Advanced Methods In Polymer Techniques conducted 11/11/2021, the speech delivered By **T.Sampath kumar.,M.Pharm.**, which was an interactive session and students could able to understand the Application of Advanced Methods In Polymer Techniques in the fields of pharmaceutical sciences




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