



# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

## ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmediu, B. Komarapalayam-638 183, Namakkal Dist. Tamilnadu,India.

Approved by : Pharmacy Council of India. New Delhi & Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai.

Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) / E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

Contact No : +919789456750, +919943066944, +919943069944.

**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

DATE: 29/06/2022

**Principal**

### REPORT

**ADDON COURSE TITLE - Emerging Approaches on Liposomal Drug Delivery and Their Benefits**

**VENUE-SEMINAR HALL**

**RESOURCE PERSONS**

Dr.N.SENTHILKUMAR., M. PHARM, Ph.D.,  
Professor, JKKMMRF'S Annai JKK sampoorani ammal  
College of pharmacy, komarapalayam.

Dr.S. CHANDRA., M. PHARM, Ph.D.,  
Professor, JKKMMRF'S Annai JKK sampoorani ammal  
College of pharmacy, komarapalayam.

Dr. V. SURESH., M. PHARM, Ph.D.,  
Professor, JKKMMRF'S Annai JKK sampoorani ammal  
College of pharmacy, komarapalayam.

Mr. R. SURESH., M. PHARM.,  
Professor, JKKMMRF'S Annai JKK sampoorani ammal  
College of pharmacy, komarapalayam.

**No. of students enrolled: 70**

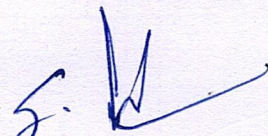
**No. of students certified:62**

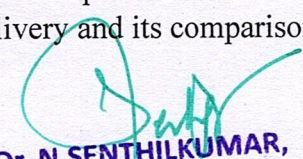
### **OBJECTIVE OF THE COURSE**

The objective of this topic is to explore the emerging approaches in liposomal drug delivery and to discuss the benefits of such approaches. The value-added course aims to provide an overview of the latest advancements in liposomal drug delivery, including the design and development of liposomal formulations and the incorporation of new techniques to enhance drug delivery efficacy, safety, and targeted delivery. The value-added course will also discuss the potential applications of liposomal drug delivery in various therapeutic areas and the future prospects of this technology.

### **LEARNING OUTCOMES FROM THE COURSE**

1. Describe the principles and mechanisms of liposomal drug delivery.
2. Identify the key challenges associated with traditional liposomal drug delivery and the benefits of emerging approaches.
3. Evaluate the latest advancements in liposomal drug delivery, including novel formulations and techniques for improving drug delivery efficacy, safety, and targeted delivery.
4. Analyze the potential applications of liposomal drug delivery in various therapeutic areas.
5. Critically assess the limitations and opportunities of liposomal drug delivery and its comparison to other drug delivery systems

  
HOD

  
**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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NAMAKKAL DISTRICT. TAMILNADU. INDIA.



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Contact No : +919789456750, +919943066944, +919943069944.

**Dr.N. Senthilkumar, M.Pharm., Ph.D.,**

**Principal**

**Date: 02/06/2022.**

**REF.NO: JKKM/PHARM/CEU/REQ/2022/014**

**From**

Department of Pharmaceutics,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.  
Komarapalayam, Namakkal [Dist]  
Tamil Nadu, PIN:638183.

**To**

The Principal,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.  
Komarapalayam, Namakkal [Dist]  
Tamil Nadu, PIN:638183.

**Subject: Letter for requesting Permission to Conduct an ADD ON COURSE regarding: -**

**Respected Sir,**

We are writing this letter to request permission to conduct a add on course in the **seminar hall** on **06/06/2022 to 29/06/2022**. we wish to conduct a add on course regarding the add on course on **Emerging Approaches on Liposomal Drug Delivery and Their Benefits**. We request you to kindly permit to conduct **ADD ON COURSE** program as this would be a great opportunity for students to and that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.**

**Yours sincerely**



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Contact No : +919789456750, +919943066944, +919943069944.

**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

DATE: 03.06.2022

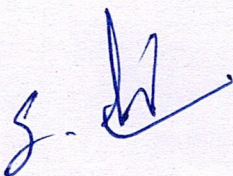
### CIRCULAR

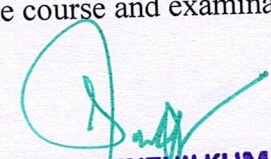
This is informed to the **B. Pharm, M. Pharm & Pharm.D** Students that the following value-added course can be conducted by the Department of Pharmaceutics, **JKKMMRF'S ANNAL JKKSAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM** and it will be commenced as per the schedule:

COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
Emerging Approaches on Liposomal Drug Delivery and Their Benefits.	06/06/2022 to 29/06/2022	30 HOURS	SEMINAR HALL	DR.N.SENTHILKUMAR DR.S.CHANDRA MR.R.SURESH DR.V.SURESH

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

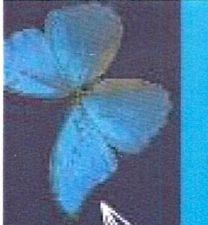
**NOTE:** Certificates should be issued to all the students after completion of the course and examination.

  
HOD

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.



# JKKMMRF'S ANNAI JKK SAMPOORNIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM



**VENUE: SEMINAR HALL**  
**DATE: 06/06/2022**  
**TO 29/06/2022**  
**TIMING: 09.30AM-04.30PM**

## DEPARTMENT OF PHARMACEUTICS

### COURSE TITLE

**Emerging Approaches on Liposomal Drug Delivery AND THEIR BENEFITS**

### RESOURCE PERSONS

**Dr.N.SENTHILKUMAR, M. PHARM, Ph.D.,**  
Professor, JKKMMRF'S Annai JKK sampoorni ammal  
College of pharmacy, komarapalayam.

**Dr.S. CHANDRA, M. PHARM, Ph.D.,**  
Professor, JKKMMRF'S Annai JKK sampoorni ammal  
College of pharmacy, komarapalayam.

**Dr. V. SURESH, M. PHARM, Ph.D.,**  
Professor, JKKMMRF'S Annai JKK sampoorni ammal  
College of pharmacy, komarapalayam.

**Mr. R. SURESH, M. PHARM.,**  
Professor, JKKMMRF'S Annai JKK sampoorni ammal  
College of pharmacy, komarapalayam.

### TOPICS

- ↑ Principles and mechanisms of liposomal drug delivery
- ↑ key challenges associated with traditional liposomal drug delivery
- ↑ latest advancements in liposomal drug delivery, including novel formulations
- ↑ Analyze the potential applications of liposomal drug delivery in various therapeutic areas
- ↑ Critically assess the limitations and opportunities of liposomal drug delivery
- ↑ Develop a deeper understanding of the regulatory and ethical issues associated with liposomal drug delivery
- ↑ Design and develop effective liposomal drug delivery strategies for various therapeutic areas.
- ↑ Emerging approaches on liposomal drug delivery and their benefits in a scientific context
- ↑ Potential applications of liposomal drug delivery
- ↑ Limitations of liposomal drug delivery



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Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,

Principal

### SYLLABUS

Date: 29.06.2022

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
20/06/2022	6 HOURS	<b>Emerging Approaches on Liposomal Drug Delivery and Their Benefits</b>	Principles and mechanisms of liposomal drug delivery	Dr.S.Chandra
			Key challenges associated with traditional liposomal drug delivery	Dr.N.Senthilkumar
23/06/2022	6 HOURS		Latest advancements in liposomal drug delivery, including novel formulations	Mr.R.Suresh
			Analyze the potential applications of liposomal drug delivery in various therapeutic areas	Dr.V.Suresh
24/06/2022	6 HOURS		Critically assess the limitations and opportunities of liposomal drug delivery	Dr.S.Chandra
			Develop a deeper understanding of the regulatory and ethical issues associated with liposomal drug delivery	Dr.N.Senthilkumar
27/06/2022	6 HOURS		Design and develop effective liposomal drug delivery strategies for various therapeutic areas.	Dr.S.Chandra
			Emerging approaches on liposomal drug delivery and their benefits in a scientific context	Dr.V.Suresh
29/06/2022	6 HOURS		Potential applications of liposomal drug delivery	Mr.R.Suresh
			Limitations of liposomal drug delivery	Dr.N.Senthilkumar
Total hours = 30				

HOD

Dr. N. SENTHILKUMAR,  
PRINCIPAL

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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

**ADD-ON COURSE TITLE** : Emerging Approaches on Liposomal Drug Delivery and Their Benefits  
**ACADEMIC YEAR** : 2022-2023  
**DATE** : 06/06/2022 to 29/06/2022

### RESOURCE PERSON PROFILE



Name : Dr.N.Senthilkumar  
Designation : Professor & Principal  
Department : Pharmaceutical Chemistry  
Organization : JKK Munirajah Medical Research Foundation - Annai JKK Sampoorni Ammal College Of Pharmacy, Komarapalayam  
Phone Number : +91 - 9789456737  
Email Id : [senthilkumarjkkm@gmail.com](mailto:senthilkumarjkkm@gmail.com)  
Qualification : M.Pharm., Ph.D  
Experience : 28 Years.



Dr. N. SENTHILKUMAR,  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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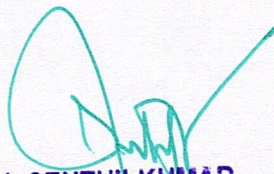
ADD-ON COURSE TITLE : Emerging Approaches on Liposomal Drug Delivery and Their Benefits  
ACADEMIC YEAR : 2022-2023  
DATE : 06/06/2022 to 29/06/2022

### RESOURCE PERSON PROFILE



Name : Dr. V.Suresh  
Designation : Professor & HOD  
Department : Pharmacology  
Organisation : JKK Munirajah Medical Research Foundation - Annai JKK Sampoorni Ammal College Of Pharmacy, Komarapalayam  
Phone Number : +91 - 9865610568  
Email Id : [velayuthamsuresh79@gmail.com](mailto:velayuthamsuresh79@gmail.com)  
Qualification : M.Pharm., Ph.D.,  
Experience : 18 Years



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

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**ADD-ON COURSE TITLE** : Emerging Approaches on Liposomal Drug Delivery and Their Benefits.  
**ACADEMIC YEAR** : 2022-2023  
**DATE** : 06/06/2022 to 29/06/2022

### RESOURCE PERSON PROFILE



Name : Dr.S.Chandra  
Designation : Professor & HOD  
Department : Pharmaceutics  
Organization : JKK Munirajah Medical Research Foundation - Annai JKK Sampoorni Ammal College Of Pharmacy, Komarapalayam.  
Phone Number : +91-9655 95281  
Email Id : [chandrajkkm@gmail.com](mailto:chandrajkkm@gmail.com)  
Qualification : M.Pharm., Ph.D  
Experience : 18 Years



**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL,**  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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ADD-ON COURSE TITLE : Emerging Approaches on Liposomal Drug Delivery and Their Benefits.  
ACADEMIC YEAR : 2022-2023  
DATE : 06/06/2022 to 29/06/2022

### RESOURCE PERSON PROFILE



*R. Suresh*

Name : Mr.R.Suresh.  
Designation : Associate Professor.  
Department : Pharmaceutics.  
Organization : JKK Munirajah Medical Research Foundation - Annai Jkk Sampoarani Ammal College Of Pharmacy, Komarapalayam.  
Phone Number : +91- 98650 84226.  
Email ID : [suresh.krs20011@gmail.com](mailto:suresh.krs20011@gmail.com).  
Qualification : M.Pharm.,Ph.D.,  
Experience :21 Years.



*Dr. N. Senthilkumar*  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,  
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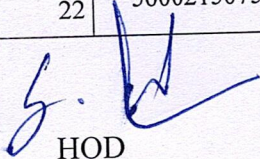
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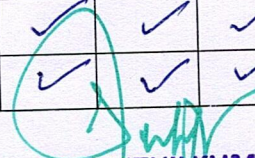
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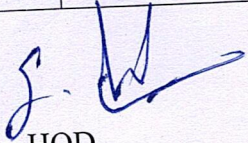
**Principal** STUDENTS ATTENDANCE  
ADDON COURSE TITLE- Emerging Approaches on Liposomal Drug Delivery and Their Benefits


S.NO	REG.NO	NAME OF THE STUDENT	COURSE	20/06	23/06	24/06	27/06	29/06
1	380020507501	ABIRAMI S	III-PHARM D	✓	✓	✓	✓	✓
2	380020507502	AKESH S	III-PHARM D	✓	✓	✓	✓	✓
3	380020507503	CHARANKUMAR C	III-PHARM D	✓	✓	✓	✓	A
4	380020507504	DHANUSHKUMAR S	III-PHARM D	✓	✓	✓	✓	✓
5	380020507505	EDWIN V REJI	III-PHARM D	A	✓	✓	✓	✓
6	380020507506	FALAHUDDHARAIN R	III-PHARM D	✓	✓	✓	✓	✓
7	380020507507	GEHESH S V	III-PHARM D	✓	✓	✓	✓	✓
8	380020507508	GUNASEKAR M	III-PHARM D	✓	✓	A	✓	✓
9	380020507509	KALAIKARUNA K	III-PHARM D	✓	✓	✓	✓	✓
10	380020507510	KARTHIKEYAN K	III-PHARM D	✓	✓	✓	✓	✓
11	560021507521	ESHA T	III-B.PHARM	✓	✓	✓	✓	✓
12	560021507522	GANANATHAN P	III-B.PHARM	✓	✓	✓	✓	✓
13	560021507523	GEONITH M	III-B.PHARM	✓	✓	✓	✓	A
14	560021507524	GIRINATH K	III-B.PHARM	✓	✓	✓	✓	✓
15	560021507525	GOKUL V	III-B.PHARM	✓	✓	✓	✓	✓
16	560021507527	GOPINATH K	III-B.PHARM	A	✓	✓	✓	✓
17	560021507528	GOPINATH S	III-B.PHARM	✓	✓	✓	✓	✓
18	560021507529	GOUTHAM S V	III-B.PHARM	✓	✓	✓	✓	✓
19	560021507530	GOWRISANKAR M	III-B.PHARM	✓	✓	✓	A	✓
20	560021507531	GUNASEKARAN V	III-B.PHARM	✓	✓	✓	✓	✓
21	560021507532	GURUPRASATTH S K	III-B.PHARM	✓	✓	✓	✓	✓
22	560021507533	HARI BHARATHI S	III-B.PHARM	✓	✓	✓	✓	✓

  
HOD

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

23	560021507534	HARIDHARSHINI M	III-B.PHARM	✓	✓	✓	✓	✓
24	560021507535	HEMA DIVYA R	III-B.PHARM	✓	✓	A	✓	✓
25	560021507536	HIRUTHIKA S	III-B.PHARM	✓	✓	✓	✓	✓
26	560021507537	INDHUMATHI A	III-B.PHARM	✓	✓	✓	✓	✓
27	560021507538	ISAIMOZHI M	III-B.PHARM	✓	✓	✓	✓	A
28	560021507539	IYYAPPAN M	III-B.PHARM	✓	✓	✓	✓	✓
29	560021507540	JAGATHISHVARAN P	III-B.PHARM	✓	✓	A	✓	✓
30	560021507541	JEEVA N R	III-B.PHARM	A	✓	✓	✓	✓
31	560020507501	ABDUR RAHMAN M	V-B.PHARM	✓	✓	✓	✓	✓
32	560020507502	ARAVINDHAN S	V-B.PHARM	✓	✓	✓	✓	✓
33	560020507503	ARIVAZHAGAN A	V-B.PHARM	✓	✓	✓	✓	✓
34	560020507504	ARULKUMAREN K K	V-B.PHARM	✓	✓	✓	✓	✓
35	560020507505	ARULPRAKASH A	V-B.PHARM	✓	✓	✓	✓	A
36	560020507506	ARUN A	V-B.PHARM	✓	✓	✓	✓	✓
37	560020507507	ASHA SANDHIYA A	V-B.PHARM	✓	✓	✓	✓	✓
38	560020507508	ASHOKKUMAR P	V-B.PHARM	✓	✓	✓	✓	✓
39	560020507509	AYYASAMY A	V-B.PHARM	A	✓	✓	✓	✓
40	560020507510	BALA S	V-B.PHARM	✓	✓	✓	✓	✓
41	560020507511	BALAJI B	V-B.PHARM	✓	✓	A	✓	✓
42	560020507512	BERGIN G	V-B.PHARM	✓	✓	✓	✓	✓
43	560020507513	BHARANIDHARAN S	V-B.PHARM	✓	✓	✓	✓	✓
44	560020507514	BHARATHVAAJ S	V-B.PHARM	✓	✓	✓	✓	✓
45	560020507515	BHUVANESHWARAN R	V-B.PHARM	A	✓	✓	✓	A
46	560020507516	BOOPALAN S	V-B.PHARM	✓	✓	✓	✓	✓
47	560020507517	CHANDEESH S	V-B.PHARM	✓	✓	✓	✓	✓

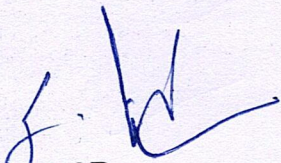
  
HOD

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH SOCIETY  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

48	560020507518	DEVANDHIRAN K	V-B.PHARM	✓	✓	✓	✓	✓
49	560020507519	DHANASEKAR U	V-B.PHARM	✓	✓	✓	✓	A
50	560020507520	DHANUSH S	V-B.PHARM	✓	✓	✓	✓	✓
51	560020507521	DHAYANANTHAN V	V-B.PHARM	✓	✓	A	✓	✓
52	560020507522	DINESH K	V-B.PHARM	✓	✓	✓	✓	✓
53	560020507523	DINESH M	V-B.PHARM	✓	✓	✓	✓	✓
54	MPY/929/2022	CHANDRU D	I-M.PHARM (PHARMACEUTICS)	✓	✓	✓	✓	✓
55	MPY/930/2022	GOWTHAM M	I-M.PHARM (PHARMACEUTICS)	A	✓	✓	✓	✓
56	MPY/931/2022	KALAIYARASI R	I-M.PHARM (PHARMACEUTICS)	✓	✓	✓	✓	✓
57	MPY/932/2022	KOTHAI S	I-M.PHARM (PHARMACEUTICS)	✓	✓	A	✓	✓
58	MPY/933/2022	MANI BHARATHI P	I-M.PHARM (PHARMACEUTICS)	✓	✓	✓	✓	✓
59	MPY/934/2022	MOHAMMED AABITH M	I-M.PHARM (PHARMACEUTICS)	✓	✓	✓	✓	A
60	MPY/935/2022	MOHANA KANNAN M	I-M.PHARM (PHARMACEUTICS)	✓	✓	✓	✓	✓
61	MPY/936/2022	NAVEEN KUMAR M	I-M.PHARM (PHARMACEUTICS)	✓	✓	✓	✓	✓
62	MPY/937/2022	PRASANTH R	I-M.PHARM (PHARMACEUTICS)	A	✓	✓	✓	✓

No. Of students Enrolled = 70  
No. Of students Present = 62  
No. Of students Absent = 08

SIGNATURE OF STAFF.....

  
HOD

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

## ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B. Komarapalayam-638 183, Namakkal Dist. Tamilnadu,India.

Approved by : Pharmacy Council of India. New Delhi & Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai.

Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) / E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

Contact No : +919789456750, +919943066944, +919943069944.

**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**


### ADD-ON COURSE ORGANISING FACULTY MEMBERS

DEPARTMENT	PHARMACEUTICS
ADD-ON COURSE NAME	Emerging approaches on Liposomal Drug Delivery and their Benefits
ACADEMIC YEAR	2022-2023
DATE	06/06/2022 To 29/06/2022

### LIST OF ADD-ON COURSE ORGANISING FACULTY MEMBERS

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Mr .R.Suresh	Associate professor
2.	Mrs.S.Sangeetha	Assistant professor
3.	Mrs.S.Kavibharathi	Assistant professor
4.	Mrs.P.Dhivyabharathi	Assistant professor

(HOD)  
S. W

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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Dr.N. SENTHILKUMAR, M.Pharm, Ph.D. ADD-ON COURSE-QUESTION PAPER

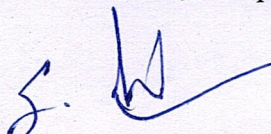
Principal

ADD-ON COURSE NAME	Emerging Approaches on Liposomal Drug Delivery and Their Benefits	
DATE	29/06/2022	
NAME OF THE STUDENT		
REGISTER NO		
COURSE/YEAR/SEM		MARKS OBTAINED:
SIGNATURE	STUDENT:	STAFF:

Maximum Marks:50

Duration: 01:00 Hour

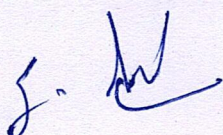
- 1..... is a life-threatening disease contributing to ~3.4 million deaths worldwide. 2  
a.Cancer b. HIV c. Asthma d. Diabetes
2. Liposomal vesicles vary in size between..... 2  
a. 0.0025  $\mu\text{m}$  to 2.25  $\mu\text{m}$  b. 0.0035  $\mu\text{m}$  to 3.25  $\mu\text{m}$  c. 0.0024  $\mu\text{m}$  to 0.758  $\mu\text{m}$   
d. 0.025  $\mu\text{m}$  to 2.5  $\mu\text{m}$
3. what are the main building blocks of liposomes. 2  
a. Lipoproteins b. Phospholipids c. Biomolecules d. Lipids
4. what is the most common and well-investigated nanocarriers for targeted drug delivery.2  
a. Chromosomes b. Bacteria c. Liposomes d. Virus
5. The width of the tight junctional regions between endothelial cells *in vivo* has been reported to 2  
range from  
a. 12 to 20 nm b. 34 to 45 nm c. 12 to 25 nm d. 10 to 12 nm
6. The following of the chemotherapeutic drug in liposomes can limit drug-mediated damage to 2  
normal tissues thus improves its therapeutic potency.  
a. Capsulation b. Encapsulation c. Coated d. Encased
7. Protection of drugs from degradation and clearance, superior therapeutic effects, and side 2  
effects.  
a. Higher b. Moderate c. Lower d. Over
8. The size of liposomes ranges from..... nm to the micrometer scale. 2  
a.20 b.60 c.30 d.95.
9. Doxorubicin HCl liposome injection was the first liposomal product approved by the FDA 2  
in  
a.1947 b.1985 c.1960 d.1995
10. Which is a highly effective chemotherapeutic agent against epithelial cancers. 2  
a. Cisplatin b. Triz c. Cetrizine d. Aspirin.

  
HOD

  
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PRINCIPAL

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11. Technology is being advanced and more targeted treatment approach to cure various diseases, including dreadful disease cancer 2  
 a. Biotechnology    b. Genetic Engineering    c. Nanotechnology    d. cloning
12. which are deemed to be responsible for relapse of cancers after treatment, have been cultured successfully as spheroids. 2  
 a. Cancer stem cells    b. Epithelial cells    c. Cloned cells    d. Hybrid cells
13. In DLS experiments, it is assumed that the nanomaterial is..... 2  
 a. Circular    b. Spherical    c. Cubical    d. Cylindrical
14. Following spectroscopy is a long-established analytical technique used for the characterization of a wide array of nano systems and materials 2  
 a. Ultra Visible    b. X-Ray    c. Infrared    d. Visible
15. which can be used to grasp information about lipid composition, interactions between components. 2  
 a. FTIR    b. DMPC    c. DSPC    d. NSAID
16. ....is the application of nanotechnology to the discipline of medicine. 2  
 a. Biomedicine    b. Clinical medicine    c. Nutraceuticals    d. Nanomedicine
17. ....liposomal formulations that are intended for clinical use should possess some basic properties, such as small particle size distribution. 2  
 a. Intramuscular    b. Intravenous    c. Subcutaneous    d. Oral.
18. The size distribution of liposomes is measured using dynamic light 2  
 a. Refraction    b. Reflection    c. Scattering    d. Diffraction.
19. Cancer is a life-threatening disease contributing to deaths worldwide. 2  
 a. ~3.4 million    b. ~4.4 million    c. ~2.4 million    d. ~5.3 million
20. Most of the active pharmaceutical ingredients (APIs) used in chemotherapy are highly cytotoxic to ..... 2  
 a. Cancer cells    b. Normal cells    c. Both(a) & (b)    d. None of the above
21. ....agents are typically administered to the patients to cancer cells. 2  
 a. Antiasthma    b. Antituberculosis    c. Antimalarial    d. Anticancer
22. ....is another strategic component of liposomes. 2  
 a. Cholesterol    b. Glucose    c. Sucrose    d. Insulin
23. .... liposomes are positively charged liposomes which interact with the negatively charged DNA molecules to form a stable complex. 2  
 a. Cationic    b. Anionic    c. Amphoteric    d. Neutral
24. Endosomes normally have an inner pH of ..... 2  
 a. 7.5    b. 1.8    c. 0.7    d. 6.5
25. A liposome consists of a region of aqueous solution in which membrane. 2  
 a. Hydrophobic    b. Hydrophilic    c. Heterophilic    d. Neutrophilic

  
 HOD

  
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 ETHIRMEDU, KOMARAPALAYAM - 638 183.  
 NAMAKKAL DISTRICT, TAMILNADU, INDIA.

### ADD-ON COURSE-ANSWER SHEET

ADD-ON COURSE NAME	Emerging Approaches on Liposomal Drug Delivery and Their Benefits	
DATE		
NAME OF THE STUDENT		
REGISTER NO		
COURSE/YEAR/SEM		MARKS OBTAINED:
SIGNATURE	STUDENT:	STAFF:

**Duration: 01:00 Hour**

**Maximum Marks:50**

1. **Population modeling requires accurate information on** 2  
 a) Do Sing b) Measurements c) Covariates d) All of the above
  
2. **Which is not a mechanism fox pharmacokinetic analysis** 2  
 a) Compartment analysis      b) Non compartment  
 c)Physiological modeling      d) Human model
  
3. **Which organ will make up the peripheral organ?** 2  
 a) Lungs b) Liver c) Kidney d) Pancreas
  
4. **What type of drug administration will have shown the compartment at 1-K10** 2  
 a) IV administration      b) Oral administration  
 c) Rectal administration      d) Sublingual administration
  
5. **In which model compartments are joined in stories?** 2  
 a) Compartment model      b) Cater nary model  
 c) Physiologic model      d) Mamillary model.
  
6. **In non-compartment analysis mean residence time is equal to** 2  
 a) The area under first moment b) Area under Zero moment  
 c) Area under first curve      d) Area under zero curve
  
7. **The process by which molecules diffuse from a region of high to low concentration and no external energy expanded is called** 2  
 a) Active transport b) Passive transport c) Passive diffusion d) Pore
  
8. **Which law states about concentration difference and is inversely proportional to membrane?** 2  
 a) Fick's law b) Avogadro's law c) Hook's law d) Pascal's law
  
9. **Which of the following is a not mechanism of drug absorption through GIT?** 2  
 a) Pore transport b) Active transport c) Endocytosis d) Metastasis



10. The process of engulfing of particulate material is Called as 2  
 a) Pinocytosis b) Phagocytosis c) convective transport d) facilitated transport
11. Which of the following process is called as cell "drinking "? 2  
 a) Pinocytosis b) Phagocytosis c) pore transport d) Active transport.
12. The absorption of drug like 2  
 a) Ion pair transport b) convective transport  
 c) Active transport d) Pore transport
13. Fick's law is used for study for 2  
 a) Dissolution rate b) disintegration rate  
 c) Dissociation rate d) Diffusion rate
14. The delivery of drug through skin is known as 2  
 a) Sublingual b) Transdermal c) inhalation d) Buccal.
15. Rate of absorption of drug by passive diffusion is maximum in 2  
 a) small intestine b) Stomach c) esophagus d) Large intestine
16. Maximum movement of drugs across the membrane occurs by 2  
 a) completely ionized b) partially ionized c) unionized d) None of them
17. Which of the following statistical methods are commonly used to analyze stimulation results? 2  
 a) Regression analysis b) t-tests c) analysis of variants d) all the above
18. One of the following is a quantum chemical parameter? 2  
 a) STERIMOL b) Taft constant  
 c) Highest occupied material d) Hammett's constant
19. Find the analogues to  $\sigma$  constant? 2  
 a) log P b)  $R_t$  c) ES d) p-ka
20. Find analogues to  $\pi$  constant? 2  
 a) pk b)  $K'$  c) ES d) mw
21. Which model is also known as membrane permeation rate limited 2  
 a) physiological model b) compartment model  
 c) non-compartment model d) Hammyly model
22. What is the sigma growth curve called? 2  
 a) exponential growth curve b) logistic growth curve  
 c) Declining growth curve d) Interactive curve
23. which model applies equation computational procedure to solve equation? 2

a) Dynamic model b) Numeric model c) static model d) analytical

24. Which model changes over time the results from System activities? 2

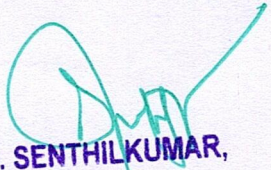
a) Dynamic model b) numeric model c) static model d) analytical

25. Which one the following is principal organ for drug Excretion. 2

a) Lungs b) Liver c) Kidneys d) Sweat glands

\*\*\*ALL THE BEST\*\*\*



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

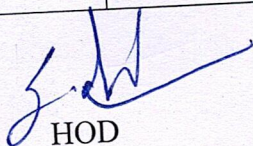
**Principal**

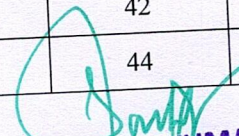
### MARK STATEMENT

Date: 29/06/2022

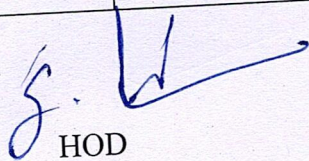
ADDON COURSE TITLE - Emerging Approaches on Liposomal Drug Delivery and Their Benefits

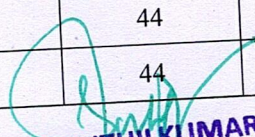
S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1	380020507501	ABIRAMI S	III-PHARM D	48	96
2	380020507502	AKESH S	III-PHARM D	38	76
3	380020507503	CHARANKUMAR C	III-PHARM D	46	92
4	380020507504	DHANUSHKUMAR S	III-PHARM D	38	76
5	380020507505	EDWIN V REJI	III-PHARM D	36	72
6	380020507506	FALAHUDDHARAIN R	III-PHARM D	44	88
7	380020507507	GEHESH S V	III-PHARM D	42	84
8	380020507508	GUNASEKAR M	III-PHARM D	48	96
9	380020507509	KALAIKARUNA K	III-PHARM D	44	88
10	380020507510	KARTHIKEYAN K	III-PHARM D	36	72
11	560021507521	ESHA T	III-B.PHARM	42	84
12	560021507522	GANANATHAN P	III-B.PHARM	38	76
13	560021507523	GEONITH M	III-B.PHARM	48	96
14	560021507524	GIRINATH K	III-B.PHARM	46	92
15	560021507525	GOKUL V	III-B.PHARM	38	76
16	560021507527	GOPINATH K	III-B.PHARM	46	92
17	560021507528	GOPINATH S	III-B.PHARM	34	68
18	560021507529	GOUTHAM S V	III-B.PHARM	46	92
19	560021507530	GOWRISANKAR M	III-B.PHARM	42	84
20	560021507531	GUNASEKARAN V	III-B.PHARM	42	84
21	560021507532	GURUPRASATTH S K	III-B.PHARM	44	88

  
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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

22	560021507533	HARI BHARATHI S	III-B.PHARM	32	64
23	560021507534	HARIDHARSHINI M	III-B.PHARM	48	96
24	560021507535	HEMA DIVYA R	III-B.PHARM	32	64
25	560021507536	HIRUTHIKA S	III-B.PHARM	48	96
26	560021507537	INDHUMATHI A	III-B.PHARM	32	64
27	560021507538	ISAIMOZHI M	III-B.PHARM	44	88
28	560021507539	IYYAPPAN M	III-B.PHARM	34	66
29	560021507540	JAGATHISHVARAN P	III-B.PHARM	42	84
30	560021507541	JEEVA N R	III-B.PHARM	32	64
31	560020507501	ABDUR RAHMAN M	V-B.PHARM	42	84
32	560020507502	ARAVINDHAN S	V-B.PHARM	48	96
33	560020507503	ARIVAZHAGAN A	V-B.PHARM	32	64
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47	560020507517	CHANDEESH S	V-B.PHARM	36	72
48	560020507518	DEVANDHIRAN K	V-B.PHARM	38	76
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57	MPY/932/2022	KOTHAI S	I-M.PHARM (PHARMACEUTICS)	38	76
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59	MPY/934/2022	MOHAMMED AABITH M	I-M.PHARM (PHARMACEUTICS)	44	88
60	MPY/935/2022	MOHANA KANNAN M	I-M.PHARM (PHARMACEUTICS)	42	84
61	MPY/936/2022	NAVEEN KUMAR M	I-M.PHARM (PHARMACEUTICS)	36	72
62	MPY/937/2022	PRASANTH R	I-M.PHARM (PHARMACEUTICS)	42	84

60-70% Marks = 07 students  
70-80% Marks = 15 students  
More than 80% Marks = 40 students

### Outcome Attainment Rubrics:

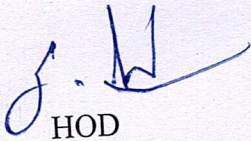
Attainment level 1-If students getting 60-70 % of marks

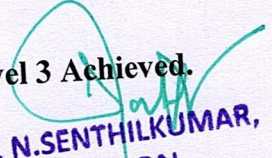
Attainment level 2-If students getting 70-80% of marks

Attainment level 3- If students getting more than 80% of marks

### Attainment level:

Since, 40 Students scored More than 80% of marks - Attainment level 3 Achieved.

  
HOD

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.



**JKKMMRF's ANNAI JKK SAMPOORANI AMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.**



**DEPARTMENT OF PHARMACEUTICS**

**STUDENT FEEDBACK FORM**

NAME OF STUDENT:  
COURSE:  
SEMINAR TOPIC:

REGISTRATION NO:  
YEAR & SEMESTER  
DATE & TIME:

- 1 Overall, how satisfied were you with this seminar?  
 Very satisfied       Satisfied       Neutral       Dissatisfied  
 Very dissatisfied
- 2 How clear were the ideas and concepts we presented?  
 Extremely clear       Very clear       Moderately clear       Not very clear  
 Not at all clear
- 3 What percentage of the information was new to you?  
 100%       75%       50%       25%       0%
- 4 How informative did you find our seminar?  
 Extremely Informative       Very Informative       Moderately Informative       Not very informative  
 Not informative at all
- 5 Were there any technical issues that prevented you from seeing or hearing the seminar?  
 YES       NO
- 6 Would you like to learn more about this topic?  
 YES       NO
- 7 Rate the content of the slides/virtual aid?  
 Extremely clear       Very clear       Moderately clear       Not very clear  
 Not at all clear
- 8 How accurate was the session description?  
 Extremely clear       Very clear       Moderately clear       Not very clear  
 Not at all clear
- 9 How did the session compare to your expectations?  
 Excellent       Good       Fair       Poor



10 How would you rate the content of the seminar?  
 1       2       3       4       5

*(Signature)*  
**Dr. N. Senthilkumar,**  
**PRINCIPAL,**  
**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,**  
**ETHIRMEDU, KOMARAPALAYAM,**  
**NAMAKKAL DISTRICT, TAMILNADU.**



# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

## ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmediu, B. Komarapalayam-638 183, Namakkal Dist. Tamilnadu,India.

Approved by : Pharmacy Council of India. New Delhi & Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai.

Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) / E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

Contact No : +919789456750, +919943066944, +919943069944.

**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### PHOTOGRAPHS

**ADD-ON COURSE TITLE**

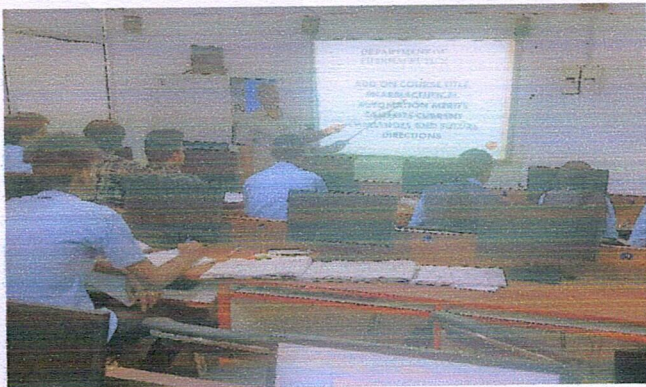
**ACADEMIC YEAR**

**DATE**

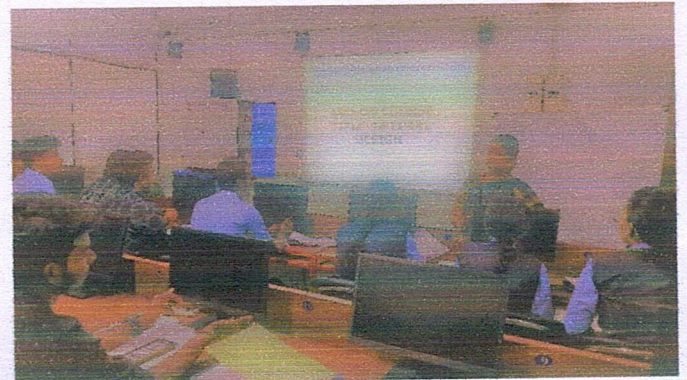
**:Emerging Approaches on Liposomal Drug Delivery and Their Benefits**

**:2022-2023**

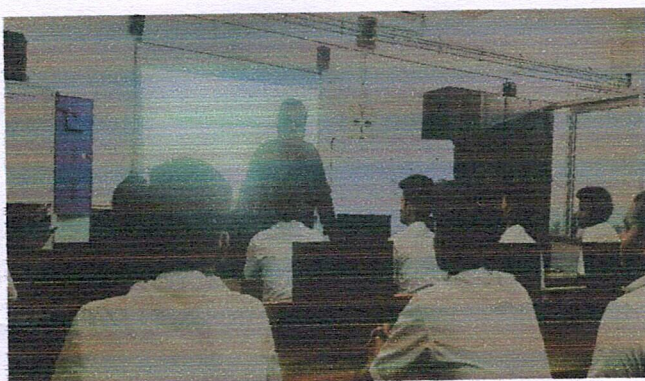
**:06/06/2022 to 29/06/2022**



**ADD-ON** course regarding the topic latest advancements in liposomal drug delivery, including novel formulations speech delivered by Mr.R.Suresh, M.Pharm., students able to understand the concepts and it was an interactive session, this would be helpful to update knowledge.



**ADD-ON** course regarding the topic principles and mechanisms of liposomal drug delivery speech delivered by Dr.S.Chandra, M.Pharm., PhD., students able to understand the concepts and it was an interactive session, this would be helpful to update knowledge

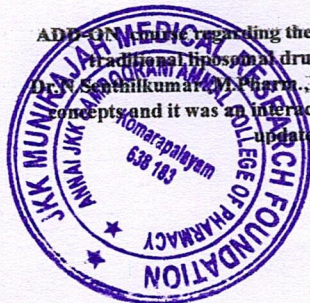


**ADD-ON** course regarding the topic key challenges associated with traditional liposomal drug delivery speech delivered by Dr.N.Senthilkumar, M.Pharm., PhD., students able to understand the concepts and it was an interactive session, this would be helpful to update knowledge.



**ADD-ON** course regarding the topic Emerging approaches on liposomal drug delivery and their benefits in a scientific context speech delivered by Dr.V.Suresh, M.Pharm., PhD., students able to understand the concepts and it was an interactive session, this would be helpful to update knowledge.

**DR.N. SENTHILKUMAR,**  
**PRINCIPAL,**  
J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) / E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

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Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,

Principal

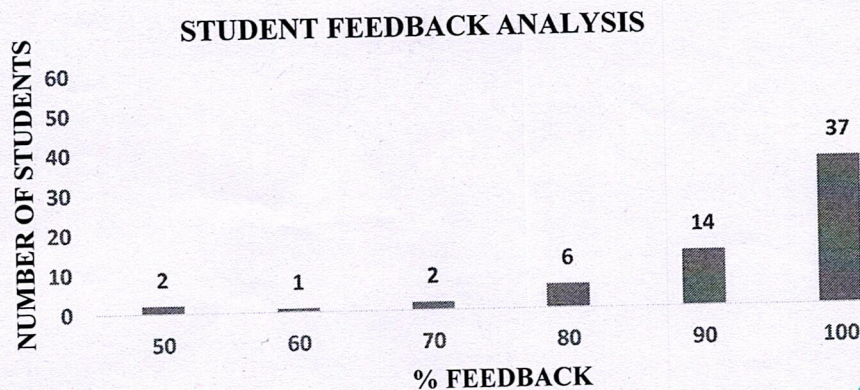
### REPORT SUMMARY

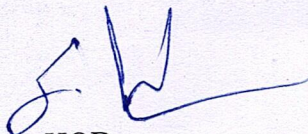
Date: 29/06/2022

Academic year	2022-23
Add on course title	Emerging Approaches on Liposomal Drug Delivery and Their Benefits
Date	06/06/2022 to 29/06/2022
Duration of the Course	30 Hours
Total participants Enrolled	70
Successfully Completed	62
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none"><li>Analyze the potential applications of liposomal drug delivery in various therapeutic areas.</li><li>Critically assess the limitations and opportunities of liposomal drug delivery and its comparison to other drug delivery systems</li></ul>
Outcome Attainment	40 Students scored more than 80% of marks - Attainment level 3 Achieved

### Feedback Question Analysis – Question Asked-Feedback Rating

- 1.Satisfaction
- 2.Clarity
3. Percentage of the information was new
- 4.Informative
- 5.Technical issues
- 6.Like to learn more about this topic
- 7.Rate the content of the slides/virtual aid
- 8.Accuracy of the sessions
- 9.Session expectations
- 10.Rate the content of the seminar



  
HOD

  
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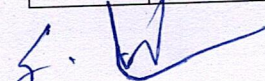
Website : www.jkkmmrfpharmacy.edu.in / E-Mail : principal@jkkmmrfpharmacy.edu.in

Contact No : +919789456750, +919943066944, +919943069944.

**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal** STUDENTS FEEDBACK -QUESTIONS & MARKS Date: 29/06/2022  
ADDON COURSE TITLE - Emerging Approaches on Liposomal Drug Delivery and Their Benefits

S.NO	QUESTION DESCRIPTION	ANSWERS	MARKS	TOTAL MARKS
1	Satisfaction	Verysatisfied	5	5
		Satisfied	3	
		Neutral	2	
		Dissatisfied	1	
		Very dissatisfied	0	
2	Clarity	Extremely clear	5	5
		Very clear	4	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
3	Percentage of the information was new	100%	5	5
		75%	4	
		50%	3	
		25%	2	
		0%	1	
4	Informative	Extremely Informative	5	5
		Very Informative	3	
		Moderately Informative	2	
		Not very informative	1	
		Not informative at all	0	
5	Technical issues	Yes	5	5
		No	0	
6	Like to learn more about this topic	Yes	5	5
		No	0	
7	Rate the content of the slides/virtual aid	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
8	Accuracy of the sessions	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
9	Session expectations	Excellent	5	5
		Good	3	
		Fair	2	
		Poor	1	
		Not at all clear	0	
10	Rate the content of the seminar	1	1	5
		2	2	
		3	3	
		4	4	
		5	5	

  
HOD

  
Dr. N.SENTHILKUMAR,  
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**VALUE ADDED COURSE**

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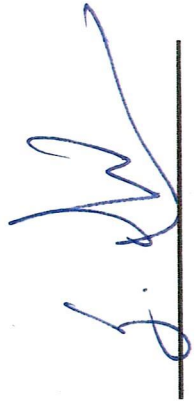


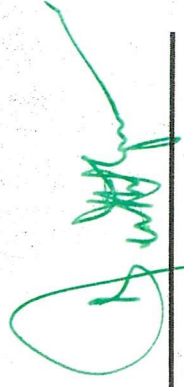
# CERTIFICATE OF PARTICIPANT

**HAS APPRECIATED FOR HIS/HER PARTICIPATION IN VALUE ADDED COURSE ON  
EMERGING APPROACHES ON LIPOSOMAL DRUG DELIVERY AND THEIR BENEFITS**

**06/06/2022 TO 29/06/2022**

  
\_\_\_\_\_  
**COORDINATOR**

  
\_\_\_\_\_  
**H.O.D**

  
\_\_\_\_\_  
**PRINCIPAL**



**JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
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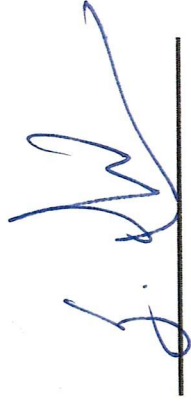
Gokul.V

HAS APPRECIATED FOR HIS/HER PARTICIPATION IN VALUE ADDED COURSE ON  
EMERGING APPROACHES ON LIPOSOMAL DRUG DELIVERY AND THEIR BENEFITS


**06/06/2022 TO 29/06/2022**



**COORDINATOR**



**H.O.D**



**PRINCIPAL**



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COLLEGE OF PHARMACY, KOMARAPALAYAM



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# CERTIFICATE OF PARTICIPANT

KOTHAI.S

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06/06/2022 TO 29/06/2022

COORDINATOR

H.O.D

PRINCIPAL



**JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM**



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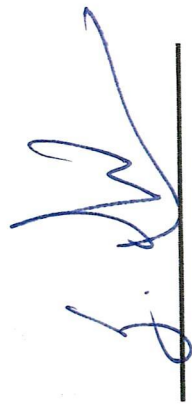
# CERTIFICATE OF PARTICIPANT

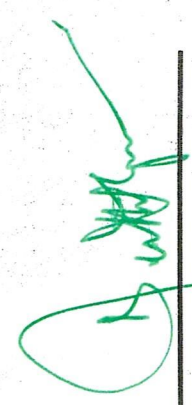
**GANANATHAN.P**

HAS APPRECIATED FOR HIS/HER PARTICIPATION IN VALUE ADDED COURSE ON  
EMERGING APPROACHES ON LIPOSOMAL DRUG DELIVERY AND THEIR BENEFITS

**06/06/2022 TO 29/06/2022**

  
\_\_\_\_\_  
COORDINATOR

  
\_\_\_\_\_  
H.O.D

  
\_\_\_\_\_  
PRINCIPAL



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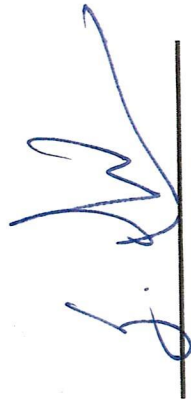
GUÑASEKAR . M

HAS APPRECIATED FOR HIS/HER PARTICIPATION IN VALUE ADDED COURSE ON  
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**06/06/2022 TO 29/06/2022**



**COORDINATOR**



**H.O.D**



**PRINCIPAL**



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COLLEGE OF PHARMACY, KOMARAPALAYAM**



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**ORGANIZED BY  
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# CERTIFICATE OF PARTICIPANT

**DHANUSH KUMAR.S**

**HAS APPRECIATED FOR HIS/HER PARTICIPATION IN VALUE ADDED COURSE ON  
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**06/06/2022 TO 29/06/2022**

**COORDINATOR**

**H.O.D**

**PRINCIPAL**