



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

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India

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

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

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

DATE: 09.02.2022

DEPARTMENT OF PHARMACEUTICS

REPORT

RESOURCE PERSONS

1. **Dr.S.CHANDRA., M. PHARM, Ph.D.,**

PROFESSOR AND HOD ,
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL
COLLEGE OF PHARMACY,
KOMARAPALAYAM.

2. **Mr.R.SURESH., M.PHARM.,**

ASSOCIATE PROFESSOR ,
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL
COLLEGE OF PHARMACY,
KOMARAPALAYAM.

No. of students enrolled: 365

No. of students certified: 358

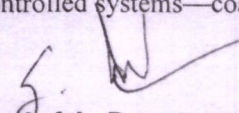
No. of students certified in our Institution : 22

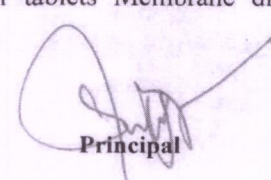
Objective:

The goal of using drug delivery systems is to provide a therapeutic amount of medication while improving safety and efficacy by controlling the location, rate, and time of release of a particular drug in the body. The term *controlled-release drug product* was previously used to describe various types of oral extended-release-rate dosage forms, including sustained-release, sustained-action, prolonged-action, long-action, slow-release, and programmed drug delivery. Other terms, such as ER, SR, XL, XR, and CD, are also used to indicate an extended-release drug product. Retarded release is an older term for a slow release drug product. Many of these terms for modified-release drug products were introduced by drug companies to reflect either a special design for an extended-release drug product or for use in marketing.

Learning outcomes:

Students know about Matrix based systems—pellets, mini-matrices, or small tablets Membrane diffusion-controlled systems—coated pellets, tablets, and osmotic pumps



Head of the Department


Principal

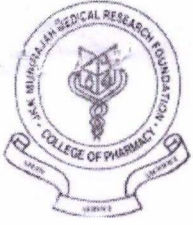
Dr. N.SENTHILKUMAR,
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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REF.NO: JKKM/PHARM/CEU/REQ/2022/002

Date: 08.02.2022

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 one day seminar regarding: -**

Respected Sir,

We Are writing this letter to request permission to conduct an one day seminar in the **SEMINAR HALL** on **09.02.2022** . We wish to conduct seminar **regarding MODIFIED RELEASE ON DOSAGE FORMS & DRUG DELIVERY SYSTEM** . We request you to kindly permit to conduct seminar program as this would be a great opportunity for Students to learn and that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Yours sincerely
Dr.S.CHANDRA.

HOD



Dr. N. SENTHILKUMAR,
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CIRCULAR

This is informed to the B. Pharm-I, II, III, IV Students that the following SEMINAR can be conducted by the Department of Pharmaceutics, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

SEMINAR NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
MODIFIED RELEASE ON DOSAGE FORMS & DRUG DELIVERY SYSTEM	09.02.2022	3 HOURS	SEMINAR HALL	Dr.S.CHANDRA Mr.R.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.

PRINCIPAL

**Dr. N. SENTHILKUMAR,
PRINCIPAL,**

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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DEPARTMENT OF PHARMACEUTICS

ONE DAY SEMINAR ON MODIFIED RELEASE ON DOSAGE FORMS & DRUG DELIVERY SYSTEM

VENUE: SEMINAR HALL

Date: 09.02.2022

RESOURCE PERSONS

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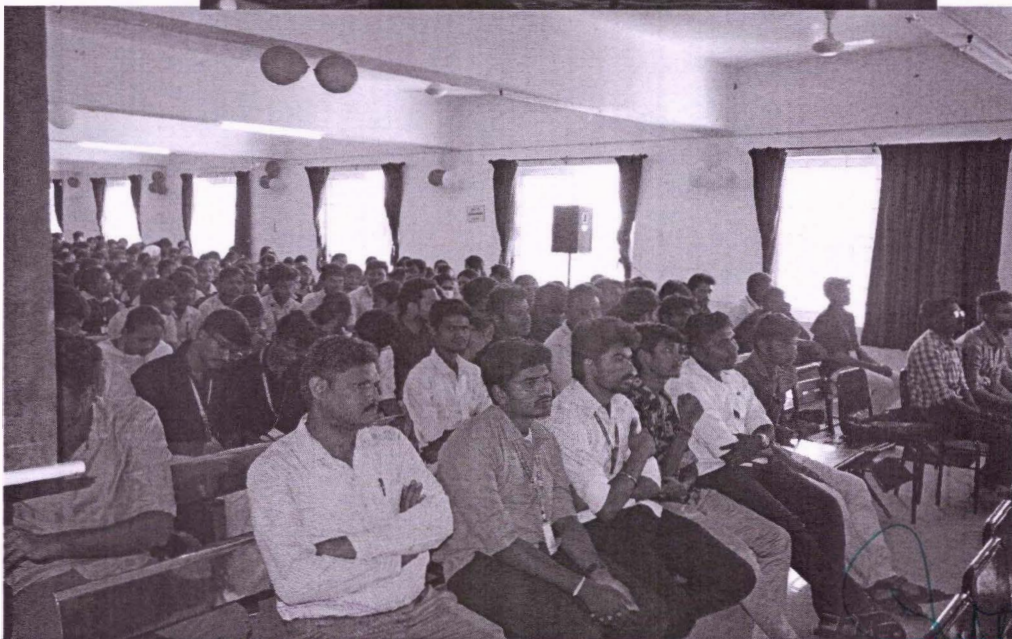
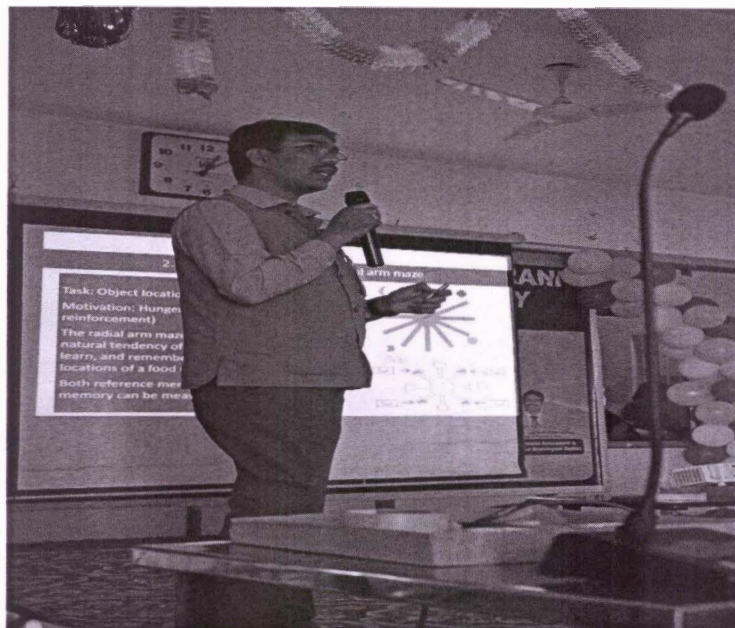
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SEMINAR ON MODIFIED RELEASE ON DOSAGE FORMS & DRUG DELIVERY SYSTEM

Date : 09/02/22

Resource person speech about the seminar topic to the students



Dr. N. S. Jeyanth Kumar,
Principal,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
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**JKKMMRF's-ANNAI JKK
SAMPOORANI AMMAL COLLEGE
OF PHARMACY**

Komarapalayam, Namakkal Dt-638183

DEPARTMENT OF PHARMACEUTICS

SEMINAR TOPIC

**Modified release on dosage forms &
drug delivery system**

held on 09.02.2022



Venue: SEMINAR HALL



**Dr. N. SENTHILKUMAR,
PRINCIPAL,**

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
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ABOUT US

Dr.J.K.KMunirajah is a reputed industrialist technocrat and educational besides, being a social worker ,a person imbued in deep spiritual values and philanthropist. At Present Annai J.K.K Sampoorani Ammal Charitable Trust runs Paramedical Institutions offering Diploma, Graduate, Post Graduate & Ph.D, Courses and Research Scholarships in Pharmacy, Nursing, Physiotherapy and Occupational Therapy at Komarapalayam. The Trust has won many national and state awards. These renowned Educational Institutions spared education to promote knowledge, wisdom and service -Orientation.

RESOURCE PERSONS

Dr.S.CHANDRA.,M.Pharm.,Ph.D.,

PROFESSOR & HOD,

DEPARTMENT OF PHARMACEUTICS,

JKKMMRF'S College of Pharmacy,

Komarapalayam-638183

Mr.R.SURESH.,M.Pharm.,

ASSOCIATE PROFESSOR ,

DEPARTMENT OF PHARMACEUTICS,



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DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT :
COURSE :

REGISTRATION NO :
YEAR & SEMESTER:

SEMINAR TOPIC :

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%




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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



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Not at all clear

10. How Would you rate the content of the seminar?

- 1
- 2
- 3
- 4
- 5



Student Name With Signature

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STUDENTS FEEDBACK ANALYSIS

DATE: 09.02.2022

S.NO	QUESTION DESCRIPTION	ANSWERS	MARKS	TOTAL MARKS
1	Satisfaction	Very satisfied	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	



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

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	

Total marks = 50

Head Of the Department



Principal

**Dr. N. SENTHILKUMAR,
PRINCIPAL.**

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REPORT SUMMARY

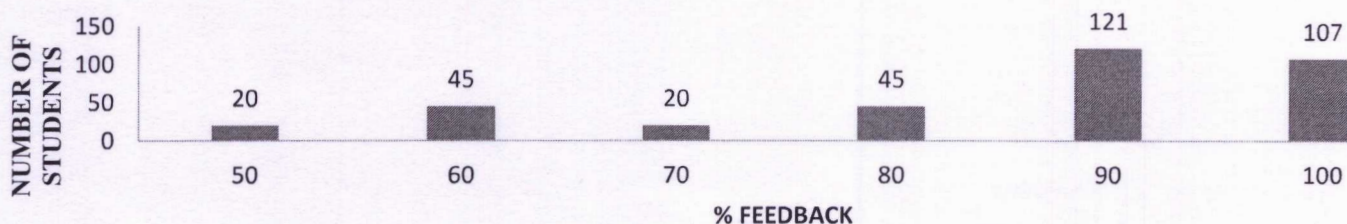
DATE: 09.02.2022

Duration of the Course	3 HOURS
Total participants Enrolled	365
Successfully Completed	358
Type of Feedback Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	1. Matrix based systems—pellets, mini-matrices, or small tablets 2. Membrane diffusion-controlled systems—coated pellets, tablets, and osmotic pumps

Feedback Question Analysis – Question Asked-Feedback Rating

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

STUDENT FEEDBACK ANALYSIS



[Signature]
Dr. N. SENTHILKUMAR,
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DEPARTMENT OF PHARMACEUTICS

ONE DAY SEMINAR ON MODIFIED RELEASE ON DOSAGE FORMS & DRUG DELIVERY SYSTEM

ABOUT THE SEMINAR

Pharmaceutical drug delivery embraces a range of delivery carriers and constructs that have dimensions ranging from several nanometers (nanotechnology) to numerous millimeters (conventional dosage forms, i.e., pellets, tablets, and capsules). Such delivery systems spawn a whole array of assemblies for delivery of highly potent active drugs through different routes of administrations to numerous sites and targets in the human or animal body to treat disease conditions. Such delivery types and carrier systems, with their relative sizes together with some molecules and bacterial cells, Modified-release drug delivery technologies, which include both enteric-coated systems and a variety of controlled-release solid dosage forms, including capsules, have evolved as a multidisciplinary science. For example, the extended-release Spansule capsule, containing a large number of coated and uncoated drug beads (i.e., coated spheres) to modify drug dissolution by controlling access of GI fluids to the drug through a coating barrier, was first introduced and patented in 1952. Because of the space restrictions for the chapter, complete coverage of all types of mechanisms and delivery innovations related to modified-release capsules as drug delivery was not probable. However, an attempt has been made to comprehensively elucidate and cover the major and more commonly used extended-release capsules that are FDA approved and currently marketed. The development of hard shell capsule products for modified-release drug delivery is focused on the choice and/or construction of the most desirable dosage form for a drug that will provide safe and effective drug delivery to treat patients. Other objectives of drug delivery are improvement in patient compliance, enhancement of bioavailability and drug efficacy, and reduction in dosing frequency with improved therapeutic performance. Capsules are the second most frequently used dosage forms for oral drug delivery (e.g., first being the tablets). The major advantage of capsules as delivery systems is that the shell can be used as a carrier for formulated drugs, coated pellets, mini-tablets, multiparticulates, fixed-dose combinations, as well as inclusion of smaller capsules or delivery systems. The capsule shell can be enteric coated for drug delivery to the proximal and/ or distal intestine, especially for delivery of acid-labile drugs, peptides, proteins, biotechnology-derived drugs, and macromolecules that are destroyed by mechanical shearing or manufacturing processes. Additionally, controlled or extended release of drug from capsule delivery system with potential for pulsatile and targeted delivery within the GI tract is easily attainable. Drug targeting of the GI tract and specifically colon is advantageous in that many side effects are reduced, lower drug dose is used, and drug is released as close as possible to the target region. In some cases, the content of capsules can be easily dispersed onto semisolid food or liquids for patients who cannot swallow the dosage form. Furthermore, a variety of innovations in design of new capsule shells




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LIST OF PARTICIPANTS

01	381410407	BENYMARGRATCF	IV
02	381410408	GEENA.K.REJI	IV
03	381410409	GEOLINRP	IV
04	381410411	JISAEELIZABETHJOSEPH	IV
05	381410412	JITTAMARYJOSE	IV
06	381410413	MARIAJOY	IV
07	381410414	MEGHAKBAIJU	IV
08	381410415	MOHAMEDADNANP.K	IV
09	381410416	MOHANK	IV
10	381410417	NAVEENKUMARD	IV
11	381410419	REEMAKA	IV
12	381410420	REENAK.A.	IV
13	381410421	RIYAEELIZABETHSUNNY	IV
14	381410422	SMINUSUNNY	IV
15	381410423	SMRITISURESHGEORGE	IV
16	381410424	SONYAVARGHESE	IV
17	381410425	SOPHYS	IV
18	381410427	VIDHYALAKSHMIKB	IV
19	381410428	VIJAYARANGANS	IV
20	381410429	VIMMYANNATHOMAS	IV
21	381410430	VISHNUKUMARVA	IV
22	381310401	ABHIRAMIJAYACHANDRAN	V




Dr. N. SENTHILKUMAR,
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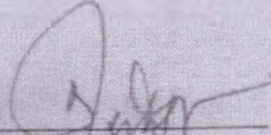
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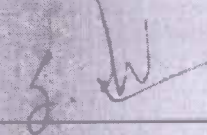
Certificate of Excellence Department of Pharmaceutics

ONE DAY SEMINAR

This certificate is proudly awarded to
Mr./Ms _____ has participated in one day SEMINAR about **Modified release on dosage
forms & drug delivery system**
was organized by department of pharmaceutics
held on **09 FEBRUARY 2022**


CONVENOR




CO-CONVENOR




Dr. N. SENTHILKUMAR,
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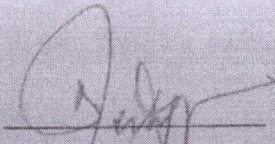
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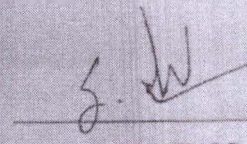
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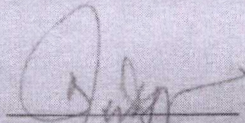
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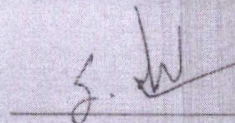
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