



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

Ethirmedu, **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

DEPARTMENT OF PHARMACEUTICS

ONE DAY WORKSHOP ON THE NOVEL UTILIZATION AND OPERATION ON DISSOLUTION APPARATUS

VENUE: SEMINAR HALL

Date: 05.03.2021

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: 105

No. of students certified: 105

No. of students certified in our institution: 22



Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

Dr. N. SENTHILKUMAR,
PRINCIPAL

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



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REF.NO: JKKM/PHARM/CEU/REQ/2021/005

Date: 04.03.2021

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 WORKSHOP regarding: -**

Respected Sir,

We Are writing this letter to request permission to conduct an one dayworkshop in the **SEMINAR HALL** on **05.03.2021** . We wish to conduct workshop regarding **THE NOVEL UTILIZATION AND OPERATION ON DISSOLUTION APPARATUS** . We request you to kindly permit to conduct the workshop 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,


Dr. N SENTHILKUMAR,
PRINCIPAL,

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU KOMARAPALAYAM - 638 183.
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Yours sincerely,

Head of the Department





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VENUE: SEMINAR HALL

Date: 05.03.2021

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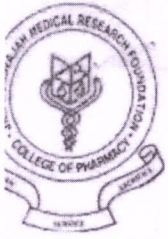
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DATE:04.03.2021

CIRCULAR

This is informed to the B. Pharm-I, II, III, IV Students that the following **workshop** 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:

WORKSHOP NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
THE NOVEL UTILIZATION AND OPERATION ON DISSOLUTION APPARATUS	05.03.2021	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
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SYLLABUS

DATE	HOURS	WORKSHOPTOPIC	SUB TOPICS	RESOURCE PERSON
05.03.2021	3 HOURS	THE NOVEL UTILIZATION AND OPERATION ON DISSOLUTION APPARATUS	SIMULATION OF FASTED AND FED STATES	Dr.S.CHANDRA
			DESCRIPTION OF RECIPROCATING CYLINDER APPARATUS	Mr.R.SURESH

TOTAL HOURS=3 hours

Head Of the Department



Principal

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

Komarapalayam, Nammakal Dt-638183

DEPARTMENT OF PHARMACEUTICS

One day Workshop on

**NOVEL UTILIZATION AND OPERATION ON
DISSOLUTION APPARATUS**

held on 05.03.2021



Venue: SEMINAR HALL

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

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

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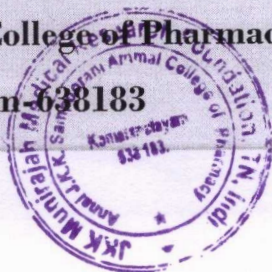
Komarapalayam-638183

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

ASSOCIATE PROFESSOR ,

JKKMMRF'S College of Pharmacy

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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%




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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




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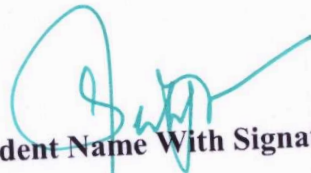
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- Fair
- Poor
- Not at all clear

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: 05.03.2021

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	



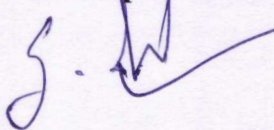
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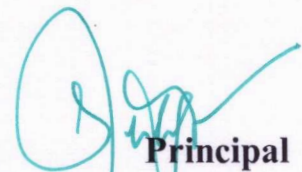
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6	Like to learn more about this topic	Yes	5	5
		No	0	
7	Rate the content of the slides/virtual aid	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
8	Accuracy of the sessions	Extremely clear	5	5
		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	

Total marks = 50

Head Of the Department





Principal

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REPORT SUMMARY

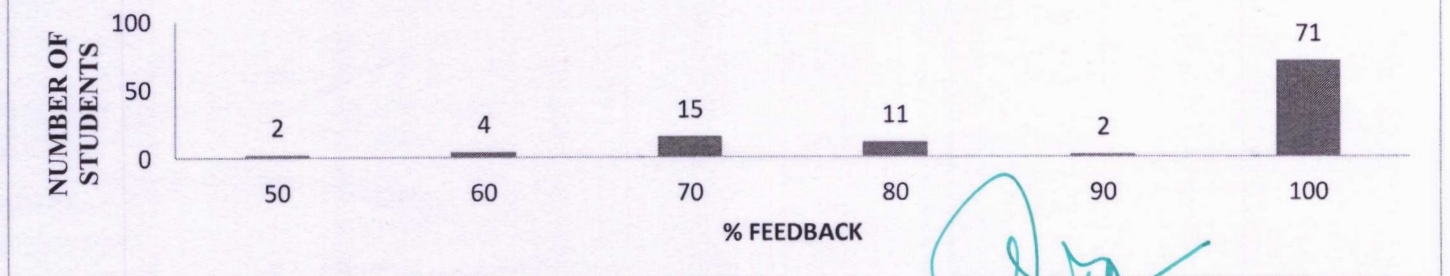
DATE: 05.03.2021

Duration of the Course	3 HOURS
Total participants Enrolled	105
Successfully Completed	105
Type of Feedback Assessment	Multiple Choice Questions (MCQ's)
workshop Outcome	Students know about there are seven different types of dissolution apparatus defined in the United States Pharmacopeia (USP) working principal and uses of these apparatus like -basket type, paddle type, reciprocating cylinder, flow through cell, paddle over disc, rotating cylinder, and reciprocating disc

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



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DEPARTMENT OF PHARMACEUTICS

ONE DAY WORKSHOP ON THE NOVEL UTILIZATION AND OPERATION ON DISSOLUTION APPARATUS

ABOUT THE WORKSHOP

USP Apparatus 3 (reciprocating cylinder) is a very versatile device for the *in vitro* assessment of release characteristics of solid oral dosage forms, because it enables the product to be subjected to different dissolution media and agitation speeds in a single run. In this paper, a brief history and a description of this system are presented, along with its applications in the development of immediate and modified release products and in the simulation of fasted and fed states using biorelevant media. Furthermore, a comparison is made with the basket and paddle apparatus, especially highlighting the superior hydrodynamics of USP apparatus 3, since the results are not sensitive to factors such as the presence of sample collection probes or air bubbles in the dissolution medium.

USP apparatus 3 has important advantages over the basket and paddle apparatuses in the assessment of *in vitro* dissolution characteristics of modified-release dosage forms. As the apparatus is very versatile, its application is not restricted to extended-release products, and it may also be used for other solid oral dosage forms, such as immediate-release forms, and it is a useful tool in the simulation of fasted and fed states, using biorelevant media.

Bioavailability and, consequently, the therapeutic effects of orally-administered medicinal products depend on the dissolution of the active ingredient in gastrointestinal fluids, as well as its permeation through the membrane of the small intestine. Where the absorption process is rapid, dissolution may be the stage that controls the introduction of the drug into the bloodstream. This, in turn, led to universal recognition that the dissolution test is indispensable in the development, quality assurance and post-marketing authorization modifications of solid oral dosage forms

Furthermore, in the context of the Biopharmaceutics Classification System (BCS), proposed by the dissolution test, together with bioavailability studies, has become an essential tool for the establishment of an *in vitro-in vivo* correlation (IVIVC) (FDA, 2000).

With regards to the apparatuses used in the dissolution test, the basket apparatus (USP apparatus 1) was the first to be adopted by the U.S. Pharmacopeia in 1970, while the paddle apparatus (USP apparatus 2) was recognized in 1978, as the result of ongoing developments in the area and a growing interest in matters related to dissolution

However, research in the field of modified release dosage forms has indicated that, in order to obtain a correlation between *in vitro* dissolution results and the bioavailability of these products (*in vitro-in vivo* correlation), it would be essential for the pH, composition, ionic strength, viscosity and agitation speed of the medium to be sequentially altered during the dissolution test, thus simulating passage of the product through the gastrointestinal tract



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LIST OF PARTICIPANTS

381410407	BENYMARGRATCF	IV
381410408	GEENA.K.REJI	IV
381410409	GEOLINRP	IV
381410411	JISAEELIZABETHJOSEPH	IV
381410412	JITTAMARYJOSE	IV
381410413	MARIAJOY	IV
381410414	MEGHAKBAIJU	IV
381410415	MOHAMEDADNANP.K	IV
381410416	MOHANK	IV
381410417	NAVEENKUMARD	IV
381410419	REEMAKA	IV
381410420	REENAK.A.	IV
381410421	RIYAEELIZABETHSUNNY	IV
381410422	SMINUSUNNY	IV
381410423	SMRITISURESHGEORGE	IV
381410424	SONIYAVARGHESE	IV
381410425	SOPHYS	IV
381410427	VIDHYALAKSHMIK	IV
381410428	VIJAYARANGANS	IV
381410429	VIMMYANNATHOMAS	IV
381410430	VISHNUKUMARVA	IV
381310401	ABHIRAMIJAYACHANDRAN	V



Datta
Dr. N. SENTHILKUMAR,
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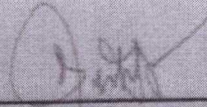
CERTIFICATE

OF APPRECIATION

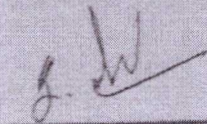
one day workshop

DEPARTMENT OF PHARMACEUTICS

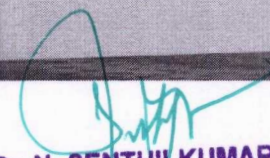
Mr./ Ms.has participated in one day
workshop about the novel utilization and operation on
dissolution apparatus held on 05.03.2021


CONVENOR




CO-CONVENOR




Dr. N. SENTHILKUMAR, -
PRINCIPAL,
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AMMAL COLLEGE OF PHARMACY
CERTIFICATE**



OF APPRECIATION

one day workshop

DEPARTMENT OF PHARMACEUTICS

mr./ ms.MOHAN K.....has participated in one day
workshop about the novel utilization and operation on
dissolution apparatus held on 05.03.2021

CONVENOR



CO-CONVENOR



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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU.**



**JKKMMRF'S ANNAI JKK SAMPOORANI
AMMAL COLLEGE OF PHARMACY
CERTIFICATE**

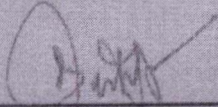


OF APPRECIATION

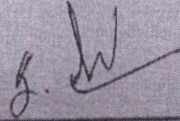
one day workshop

DEPARTMENT OF PHARMACEUTICS

mr./ ms.*SOPHY S*.....has participated in one day
workshop about the novel utilization and operation on
dissolution apparatus held on 05.03.2021


CONVENOR




CO-CONVENOR




Dr. N. SENTHILKUMAR,
PRINCIPAL,

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