



# **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**

DATE:12/12/2022

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**  
**REPORT**

**SEMINAR TITLE - FUNDAMENTALS OF BIOSTATISTICS AND HYPOTHESIS TESTING**

**VENUE: SEMINAR HALL**

**DATED: 10/12/2022**

**RESOURCE PERSON:**

**Dr. A. CHITRA., M. PHARM, Ph.D.**  
**JKKMMRFS ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**  
**KOMARAPALAYAM**

**No. of students enrolled: 330**

**No. of students certified: 324**

**No. of students certified in our institution: 44**

  
**PROGRAMME**  
**CO ORDINATOR**

  
**HOD**

  
**PRINCIPAL**

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

Date: 06/12/2022

REF.NO: JKKM/PH/SEMINAR/REQ/2022/07

From

Department of Pharmaceutical Chemistry,  
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.

Respected Sir,

Subject: **Letter for requesting Permission to conduct seminar regarding:**

We are writing this letter to request permission to conduct a seminar in the Seminar Hall on 10/12/2022. We wish to conduct the seminar on **FUNDAMENTALS OF BIOSTATISTICS AND HYPOTHESIS TESTING**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **FUNDAMENTALS OF BIOSTATISTICS AND HYPOTHESIS TESTING** that would help to shape the students.

Looking forward for your approval.

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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**Principal**

### **CIRCULAR**

This is to inform all the students of our college that the seminar on **Fundamentals of Biostatistics and Hypothesis Testing** for the academic year 2022-23 will be commenced on 10/12/2022 for all the batches. Hence request all the interested candidates to register for the seminar.

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>FUNDAMENTALS OF BIOSTATISTICS AND HYPOTHESIS TESTING</b>	<b>10/12/2022</b>	<b>SEMINAR HALL</b>	<b>DR.A.CHITRA</b>

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

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

**PROGRAMME  
CO-ORDINATOR**

**HOD**

**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

**YOU ARE INVITED TO A  
SEMINAR ON**

**FUNDAMENTALS OF BIostatISTICS AND  
HYPOTHESIS TESTING**

**Date: 12 DECEMBER 2022**

**VENUE: SEMINAR HALL**

**RESOURCE PERSON: Dr. A. CHITRA, M. Pharm., Ph. D.,  
Associate Professor**

**Department of Pharmaceutical Chemistry,  
JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy**



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

**JKK MURAJAH MEDICAL RESEARCH FOUNDATION  
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**ABOUT THE TOPIC**

**FUNDAMENTALS OF BIOSTATISTICS AND HYPOTHESIS TESTING**

Hypothesis testing (or statistical inference) is one of the major applications of biostatistics. Much of medical research begins with a research question that can be framed as a hypothesis. Inferential statistics begins with a null hypothesis that reflects the conservative position of no change or no difference in comparison to baseline or between groups. Usually, the researcher has reason to believe that there is some effect or some difference which is the alternative hypothesis. The researcher therefore proceeds to study samples and measure outcomes in the hope of generating evidence strong enough for the statistician to be able to reject the null hypothesis. The concept of the  $P$  value is almost universally used in hypothesis testing.

Much of statistics involves collecting, describing, and analyzing data that are subject to random variation. Descriptive statistics presents and summarizes collected data to characterize features of their distribution. Inferential statistics analyzes sample data in order to estimate or predict characteristics of the larger population from which the sample is drawn.

Biological phenomena are inherently variable and in this age of "evidence-based medicine" an understanding of such variation through statistical approaches is essential not only for the medical researcher who intends to draw inferences from his sample, but also for the practicing clinician, and the medical teacher whose responsibility is to critically appraise the presented inferences before accepting them into practice or the curriculum. Development of new drugs, devices, and techniques is heavily dependent, nowadays, upon statistical analyses to prove their effectiveness. It is also frequently alleged that statistical analyses can be misused and misrepresented. This should be a further impetus for understanding inferential statistics.

### Steps in hypothesis testing

Hypothesis testing, as it stands now, should proceed through the following five steps:

- Select a study design and sample size appropriate to the research question or hypothesis to be tested
- Decide upon the hypothesis test (i.e., test of statistical significance) that is to be applied for each outcome variable of interest
- Once the data have been collected, apply the test and determine the  $P$  value from the results observed
- Compare it with the critical value of  $P$ , say 0.05 or 0.01
- If the  $P$  value is less than the critical value, reject the null hypothesis (and rejoice) or otherwise accept the null hypothesis (and reflect on the reasons why no difference was detected).



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

Principal

### STUDENTS FEEDBACK ANALYSIS

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	
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	



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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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**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE SEMINAR:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

#### STUDENT FEEDBACK FORM

NAME OF STUDENT:

REGISTRATION NO:

COURSE:

YEAR & SEMESTER:

SEMINAR TOPIC:

DATE & TIME:

- Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
- How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
- What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
- How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



  
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PRINCIPAL

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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

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  
 Not at all clear
10. How would you rate the content of the seminar?
- 1  
 2  
 3  
 4  
 5



Student Name with Signature

A handwritten signature in green ink, appearing to read "Dr. N. Senthil Kumar".

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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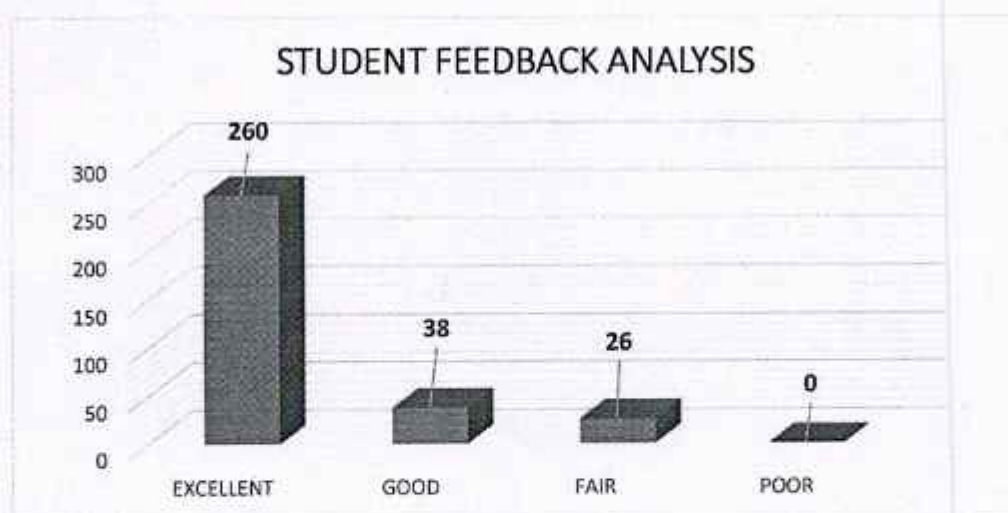
**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### REPORT SUMMARY

#### 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



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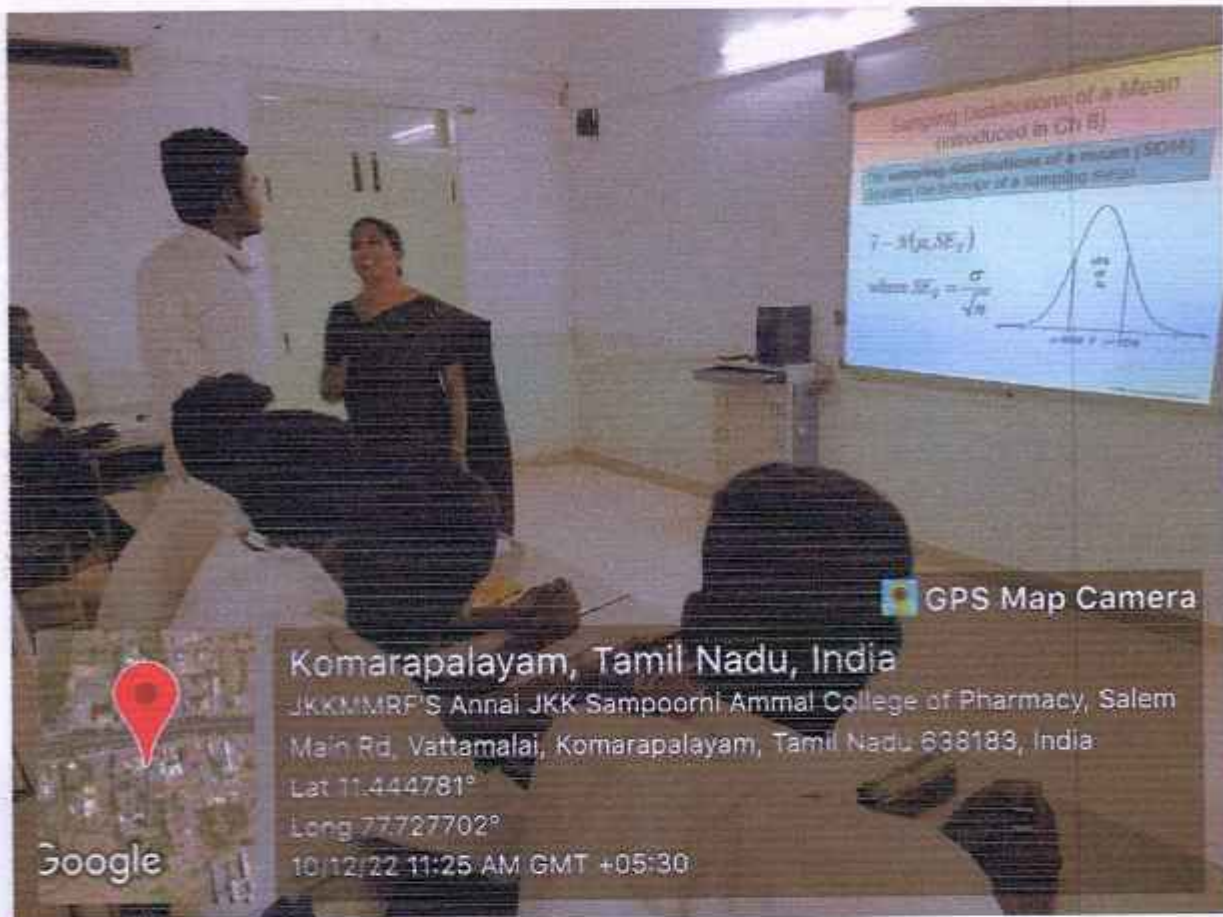
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## **FUNDAMENTALS OF BIOSTATISTICS AND HYPOTHESIS TESTING SEMINAR PHOTO**



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Principal

### LIST OF PARTICIPANTS

S.NO	NAME	YEAR	COURSE
1.	ABINAYA V	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
2.	ANITHA M	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
3.	DHIVYA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
4.	MANISHA M	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
5.	PAVITHRA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
6.	PRIYANKA V	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
7.	SANTHANAKRISH NAN K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
8.	SOJARNA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
9.	SUBHASHINI D	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
10.	SURYAMATHI P	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
11.	AAKASH S	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
12.	ARUNPRAKASH S	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
13.	DEEPIKA R	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)



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14.	GOKULAKANNAN M	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
15.	HARSHA VARDHINEE K	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
16.	JAGADESWARAN C	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
17.	MARIMUTHU P	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
18.	RAGUNATH S	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
19.	SATHISH KUMAR V	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
20.	VISHNU M S	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
21.	NANDHINI S	SEM-I	M.PHARM (PHARMACEUTICAL CHEMISTRY)
22.	RAJESH KUMAR S	SEM-I	M.PHARM (PHARMACEUTICAL CHEMISTRY)
23.	CHERAN K	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)
24.	PRAVEEN RAJ K	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)
25.	PRIYADHARSHINI. B	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)
26.	SUBASH.V	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)
27.	VAHITH E	SEM-I	M.PHARM (PHARMACEUTICAL ANALYSIS)
28.	ARATHY P NAIR	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
29.	EZHILARASAN S	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
30.	GOKUL T	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
31.	RAGAVI P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
32.	REVATHI J	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
33.	SOMASUNDARAM P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
34.	STELLAMARY D	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
35.	SUGANTHI P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
36.	ASARUDEEN A	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)



Dr. N.SENTHILKUMAR,  
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37.	ASWIN KUMAR N	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
38.	HARIPRAKASH K	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
39.	KARTHICK S	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
40.	KATHIRAVAN K N	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
41.	RAMKUMAR K	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
42.	SATHISH KUMAR G	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
43.	SRIVIJAY R	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
44.	VIGNESH S	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)



  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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



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

## **Certificate of Participation**

This certificate is proudly awarded to

**HAS PARTICIPATED AS A DELEGATE IN THE SEMINAR TITLED ON  
"FUNDAMENTALS OF BIostatISTICS AND HYPOTHESIS TESTING" IN THE  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
KOMARAPALAYAM ON 12.12.2022.**

**COORDINATOR**

**DR. N. SENTHILKUMAR,  
PRINCIPAL,**

**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 ANMAL COLLEGE OF PHARMACY**

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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**

**DATE: 11.09.2022**

### **DEPARTMENT OF PHARMACEUTICS**

#### **REPORT**

**SEMINAR TITLE -TRANSDERMAL DRUG DELIVERY**

**INNOVATIVE PHARMACEUTICAL DEVELOPMENTS BASED ON DISRUPTION OF THE  
BARRIER PROPERTIES OF THE STRATUM**

#### **RESOURCE PERSONS**

**1.Dr.N. SENTHILKUMAR. PHARM, Ph.D.,**

**PRINCIPAL**

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

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

**PROFESSOR AND HOD,**

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

**No. of students enrolled: 380**

**No. of students certified: 375**

**No. of students certified in our institution : 57**

#### **Objective:**

TDD is a painless method of delivering drugs systemically by applying a drug formulation onto intact and healthy skin the drug initially penetrates through the stratum corneum and then passes through the deeper epidermis and dermis without drug accumulation in the dermal layer. When drug reaches the dermal layer, it becomes available for systemic absorption via the dermal microcirculation. TDD has many advantages over other conventional routes of drug delivery



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

**Learning outcomes:**

- It can improve patient compliance due to the reduction of dosing frequencies and is also suitable for patients who are unconscious or vomiting, or those who rely on self-administration.
- TDD avoids pre-systemic metabolism, thus improving bioavailability With reference to the use of the skin as a novel site for vaccination strategies, this organ is known to be replete with dendritic cells in both the epidermal and dermal layers which play a central role in immune responses making TDD an attractive vaccination route for therapeutic proteins and peptides
- The requirement for an inexpensive and non-invasive means of vaccination
- Especially in the developing world has given rise to substantial research focused on the development of simple, needle-free systems such as TDD for vaccination purposes.



**PROGRAMME  
CO-ORDINATOR**



**HOD**



**PRINCIPAL**

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

**MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
JKK SAMPOORANI ANMAL COLLEGE OF PHARMACY,  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

**REF.NO: JKKM/PHARM/CEU/REQ/2022/001**

**Date: 08.09.2022**

**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 on two days seminar regarding: -  
Respected Sir,**

We are writing this letter to request permission to conduct a Two-days seminar in the SEMINAR HALL on 09/09/2022 & 10/09/2022. We wish to conduct seminar regarding the **Transdermal Drug Delivery - Innovative pharmaceutical Developments Based on Disruption of the Barrier Properties of the Stratum Corneum.**

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



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

Yours sincerely,

**Dr.S. CHANDRA.,  
Head of the Department**



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

**Principal**

**DATE: 08.09.2022**

### **CIRCULAR**

This is informed to the B. Pharm-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:

<b>SEMINAR NAME</b>	<b>SCHEDULE</b>	<b>DURATION</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>TRANSDERMAL DRUG DELIVERY INNOVATIVE PHARMACEUTICAL DEVELOPMENTS BASED ON DISRUPTION OF THE BARRIER PROPERTIES OF THE STRATUM CORNEUM</b>	<b>09.09.2022 &amp; 10 .09.2022</b>	<b>09.09.2022 FN (3 HOURS) &amp; 10 .09.2022 FN (3 HOURS)</b>	<b>SEMINAR HALL</b>	<b>DR.N. SENTHIL KUMAR &amp; DR.S. CHANDRA</b>

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**

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

**Principal**

### SYLLABUS

DATE	HOURS	SEMINAR TOPIC	SUB TOPICS	RESOURCE PERSON
09.09.2022 & 10 .09.2022	09.09.2022 FN (3 HOURS) &10 .09.2022 FN (3 HOURS)	Transdermal Drug Delivery - Innovative Pharmaceutical Developments Based on Disruption of the Barrier Properties of the Stratum Corneum	Transdermal Drug Delivery (TDD) Brief Review of Skin Structure	Dr. N. SENTHIL KUMAR
	Techniques for Enhancement of Skin Permeabilization		Dr.S. CHANDRA	

**TOTAL HOURS- 6 HOURS**

  
**Head of the Department**

  
**Principal**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.**





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

**Komarapalayam, Namakkal Dt-638183**

**DEPARTMENT OF PHARMACEUTICS**

**TWO DAYS SEMINAR-TOPIC**

**TRANSDERMAL DRUG DELIVERY**

**Innovative Pharmaceutical Developments Based on Disruption of the Barrier**

**Properties of the Stratum Corneum**

**Held on: 09.09.2022 & 10 .09.2022**



**Venue: SEMINAR HALL**

**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.,**

**Principal**

### **TWO DAYS SEMINAR ON: TRANSDERMAL DRUG DELIVERY INNOVATIVE PHARMACEUTICAL DEVELOPMENTS BASED ON DISRUPTION OF THE BARRIER PROPERTIES OF THE STRATUM CORNEUM**

#### **ABOUT THE SEMINAR**

The skin offers an accessible and convenient site for the administration of medications. To this end, the field of transdermal drug delivery, aimed at developing safe and efficacious means of delivering medications across the skin, has in the past and continues to garner much time and investment with the continuous advancement of new and innovative approaches. This review details the progress and current status of the transdermal drug delivery field and describes numerous pharmaceutical developments which have been employed to overcome limitations associated with skin delivery systems. Advantages and disadvantages of the various approaches are detailed, commercially marketed products are highlighted and particular attention is paid to the emerging field of microneedle technologies.

Technologies used to modify the barrier properties of the stratum corneum can be divided into passive/chemical or active/physical methodologies. Passive methods include the influencing of drug and vehicle interactions and optimization of formulation, in order to modify the stratum corneum structure. Passive methods are relatively easy to incorporate into transdermal patches such as chemical enhancers and emulsions. However, the main drawback of passive methods may be a lag time in drug release incurred with obvious negative influence on rapid onset drugs, such as insulin.

Some of these active methodologies

Ultrasound Devices

Electrical Techniques

a) Electroporation

b) Iontophoresis

Velocity Based Devices Thermal Approaches (Lasers and Radio-Frequency Heating)

Laser Thermal Ablation

Radiofrequency (RF) Thermal Ablation

Mechanical Approaches to Mediate Skin Permeation

Tape Stripping



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

### REPORT SUMMARY

DATE: 11.09.2022

Duration of the Course	6 HOURS
Total participants Enrolled	380
Successfully Completed	375
Type of Feedback Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none"><li>• It can improve patient compliance due to the reduction of dosing frequencies and is also suitable for patients who are unconscious or vomiting, or those who rely on self-administration.</li><li>• TDD avoids pre-systemic metabolism, thus improving bioavailability With reference to the use of the skin as a novel site for vaccination strategies, this organ is known to be replete with dendritic cells in both the epidermal and dermal layers which play a central role in immune responses making TDD an attractive vaccination route for therapeutic proteins and peptides The requirement for an inexpensive and non-invasive means of vaccination</li><li>• Especially in the developing world has given rise to substantial research focused on the development of simple, needle-free systems such as TDD for vaccination purposes.</li></ul>

### 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



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

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





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

**Principal**

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%



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NAMAKKAL DISTRICT. TAMILNADU, INDIA.

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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### STUDENTS FEEDBACK ANALYSIS

DATE: 10 .09.2022

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	
7	Rate the content of the slides/virtual aid	Extremely clear	5	5



**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	HIRUTHIKA S	SEM-III	B.PHARM
2.	INDHUMATHI A	SEM-III	B.PHARM
3.	ISAIMOZHI M	SEM-III	B.PHARM
4.	IYYAPPAN M	SEM-III	B.PHARM
5.	JAGATHISHVARAN P	SEM-III	B.PHARM
6.	JEEVA N R	SEM-III	B.PHARM
7.	JEEVADHARSHINI S	SEM-III	B.PHARM
8.	KALAISELVAN S	SEM-III	B.PHARM
9.	KANISHKUMAR P	SEM-III	B.PHARM
10.	KARTHICK RAJU S	SEM-III	B.PHARM
11.	KAVINKUMAR G	SEM-III	B.PHARM
12.	KAVISELVAN R	SEM-III	B.PHARM
13.	KAVYASRI S	SEM-III	B.PHARM
14.	KIRUTHIGA T	SEM-III	B.PHARM
15.	KOWSIHA S	SEM-III	B.PHARM
16.	MADHAN KUMAR G	SEM-III	B.PHARM
17.	MADHUMITHA K	SEM-III	B.PHARM
18.	MANOJKUMAR M	SEM-III	B.PHARM
19.	MEIVEL P	SEM-III	B.PHARM
20.	MOHAN R	SEM-III	B.PHARM
21.	NADHISH R	SEM-III	B.PHARM
22.	NANDHINI N M	SEM-III	B.PHARM
23.	NANDHINI R	SEM-III	B.PHARM
24.	NAVEEN S	SEM-III	B.PHARM
25.	NAVEEN KUMAR M	SEM-III	B.PHARM
26.	NAVEENA K	SEM-III	B.PHARM



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

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27.	NEHAA K	SEM-III	B.PHARM
28.	PABITHA K R	SEM-III	B.PHARM
29.	POOVARASAN P	SEM-III	B.PHARM
30.	PRAKASH S	SEM-III	B.PHARM
31.	PRAVEEN G	SEM-III	B.PHARM
32.	PRAVIN G K	SEM-III	B.PHARM
33.	PREMKUMAR U	SEM-III	B.PHARM
34.	PUGAZENDHI S	SEM-III	B.PHARM
35.	PURUSOTHAMARAJ S	SEM-III	B.PHARM
36.	PUVIYARASU R	SEM-III	B.PHARM
37.	RAMKUTTI M	SEM-III	B.PHARM
38.	RUTHCHRISTYKALA B	SEM-III	B.PHARM
39.	SAESHANANDA G	SEM-III	B.PHARM
40.	SAJITH Y	SEM-III	B.PHARM
41.	SALEEM A	SEM-III	B.PHARM
42.	SANJAI K	SEM-III	B.PHARM
43.	SANTHOSH S R	SEM-III	B.PHARM
44.	SANTHOSH S	SEM-III	B.PHARM
45.	SETHUPATHY M	SEM-III	B.PHARM
46.	SIVAPRAKASAM C	SEM-III	B.PHARM
47.	SIVASURYA P	SEM-III	B.PHARM
48.	SOUNDHIRARAJAN K	SEM-III	B.PHARM
49.	SOWBARNICA S	SEM-III	B.PHARM
50.	SOWMIKA M	SEM-III	B.PHARM
51.	SRIRAM L	SEM-III	B.PHARM
52.	SUDHARSANA R	SEM-III	B.PHARM
53.	SURYA PRANESH V R	SEM-III	B.PHARM
54.	TAMILSELVAN R	SEM-III	B.PHARM
55.	THILAGAVATHI T	SEM-III	B.PHARM
56.	THILAGAVATHY K	SEM-III	B.PHARM
57	VASANTHAKUMAR V	SEM-III	B.PHARM



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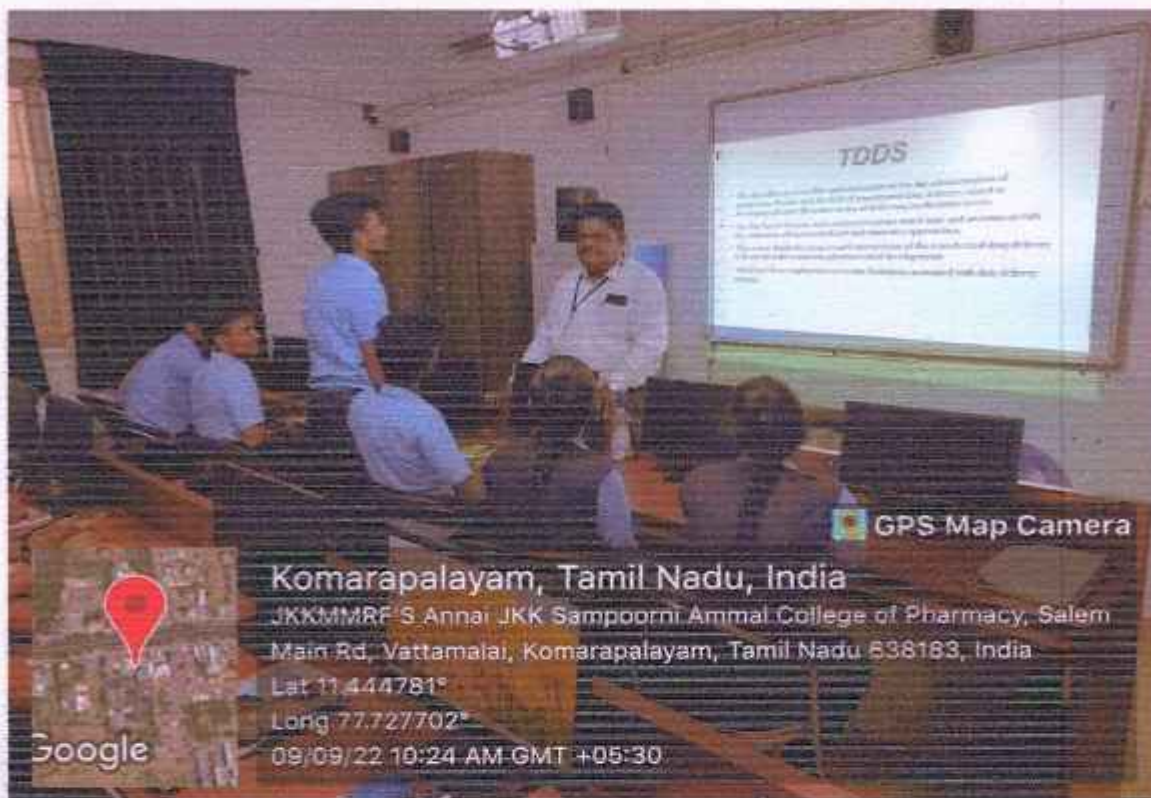
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) / E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

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

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

**SEMINAR TITLE -TRANSDERMAL DRUG DELIVERY**  
**INNOVATIVE PHARMACEUTICAL DEVELOPMENTS BASED ON DISRUPTION OF**  
**THE BARRIER PROPERTIES OF THE STRATUM**

### SEMINAR PHOTO



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

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



# JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

## CERTIFICATE

OF PARTICIPATION

**DEPARTMENT OF PHARMACEUTICS**

TWO DAYS SEMINAR ON

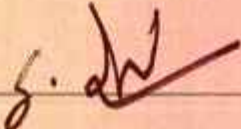
TRANSDERMAL DRUG DELIVERY SYSTEM


This Certificate Is Proudly Presented To

---

**HAS APPRECIATED HIS/HER CONTRIBUTION IN INNOVATIVE PHARMACEUTICAL DEVELOPMENT  
BASED ON DISTRIBUTION OF THE BARRIER PROPERTIES OF THE STRATUM CORNEUM IN THE TWO  
DAYS SEMINAR HELD ON 9TH & 10TH SEP 2022**



  
organizing secretary

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

  
principal





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

**Principal**

**DATE: 09/01/2023**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

**REPORT**

**VENUE: SEMINAR HALL**

**DATED: 6/1/2023 & 7/1/2023**

**SEMINAR TITLE- SPSS CORRELATION AND LINEAR REGRESSION**

**RESOURCE PERSONS:**

**1.Dr.M. CHITRA., M. PHARM, Ph.D.**

**JKKMMRFS ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

**2.MR.V. SURESH KANNAN., M. PHARM**

**JKKMMRFS ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

**KOMARAPALAYAM.**

**No. of students enrolled: 350**

**No. of students certified: 350**

**No. of students certified in our institution: 48**

  
**PROGRAMME  
CO ORDINATOR**

  
**HOD**

  
**PRINCIPAL**

**Dr. N. SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

Date: 02/01/2023

REF.NO: JKKM/PH/SEMINAR/REQ/2023/07

From

Department of Pharmaceutical Chemistry,  
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.

Respected Sir,


**Subject: Letter for requesting Permission to conduct seminar regarding: -**

We are writing this letter to request permission to conduct a seminar in the Seminar Hall on 6/1/2023 & 7/1/2023. We wish to conduct the seminar on **SPSS Correlation and Linear Regression**. We believe that this will be a very informative session that many students will wish to attend.

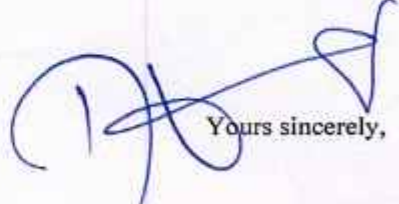
We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **SPSS Correlation and Linear Regression** that would help to shape the students.

Looking forward for your approval.

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,





# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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**Principal**

### CIRCULAR

This is to inform all the students of our college that the seminar on **SPSS Correlation and Linear Regression** for the academic year 2022-23 will be commenced on 6/1/2023 & 7/1/2023 for all the batches. Hence request all the interested candidates to register for the seminar.

COURSE NAME	SCHEDULE	VENUE	RESOURCE PERSON
SPSS CORRELATION AND LINEAR REGRESSION	6/1/2023 & 7/1/2023	SEMINAR HALL	Dr.M. CHITRA & MR.V. SURESH KANNAN

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

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

  
PROGRAMME  
CO-ORDINATOR

  
HOD

  
PRINCIPAL

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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





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

**CONDUCTS**

**SEMINAR ON**

**SPSS- CORRELATION AND LINEAR  
REGRESSION**

**Date: 6& 7 JANUARY 2023**

**VENUE: SEMINAR HALL**

**RESOURCE PERSON: Dr. M. CHITRA, M. Pharm., Ph. D.,  
Associate Professor,  
Department of Pharmaceutical Chemistry,  
JKKMMRF's Annai JKK Sampoorani Ammal  
College of Pharmacy**

**&  
Mr. V. SURESH KANNAN, M. Pharm.,  
Associate Professor,  
Department of Pharmaceutical Chemistry,  
JKKMMRF's Annai JKK Sampoorani Ammal  
College of Pharmacy**

  
**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.,**

**Principal**

### **ABOUT THE TOPIC**

#### **SPSS CORRELATION AND LINEAR REGRESSION**

#### **Introduction**

Linear regression is the next step up after correlation. It is used when we want to predict the value of a variable based on the value of another variable. The variable we want to predict is called the dependent variable (or sometimes, the outcome variable). The variable we are using to predict the other variable's value is called the independent variable (or sometimes, the predictor variable). For example, you could use linear regression to understand whether exam performance can be predicted based on revision time; whether cigarette consumption can be predicted based on smoking duration; and so forth. If you have two or more independent variables, rather than just one, you need to use multiple regression.

This "quick start" guide shows you how to carry out linear regression using SPSS Statistics, as well as interpret and report the results from this test. However, before we introduce you to this procedure, you need to understand the different assumptions that your data must meet in order for linear regression to give you a valid result. We discuss these assumptions next.

SPSS Statistics

#### **Assumptions**

When you choose to analyse your data using linear regression, part of the process involves checking to make sure that the data you want to analyse can actually be analysed using linear regression. You need to do this because it is only appropriate to use linear regression if your data "passes" seven assumptions that are required for linear regression to give you a valid result. In practice, checking for these seven assumptions just adds a little bit more time to your analysis, requiring you to click a few more buttons in SPSS Statistics when performing your analysis, as well as think a little bit more about your data, but it is not a difficult task.

#### **Output of Linear Regression Analysis**

SPSS Statistics will generate quite a few tables of output for a linear regression. In this section, we show you only the three main tables required to understand your results from the linear regression procedure, assuming that no assumptions have been violated. A complete explanation of the output you have to interpret when checking your data for the six assumptions required to carry out linear regression is provided in our enhanced guide. This includes relevant scatterplots, histogram (with superimposed normal curve), Normal P-P Plot, casewise diagnostics and the Durbin-Watson statistic. Below, we focus on the results for the linear regression analysis only.



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**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### STUDENT FEEDBACK FORM

NAME OF STUDENT:

COURSE:

SEMINAR TOPIC:

REGISTRATION NO:

YEAR & SEMESTER:

DATE & TIME:

- Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
- How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
- What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
- How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



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

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  
 Not at all clear

10. **How would you rate the content of the seminar?**

- 1  
 2  
 3  
 4  
 5



Student Name with Signature

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE SEMINAR:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

*[Signature]*  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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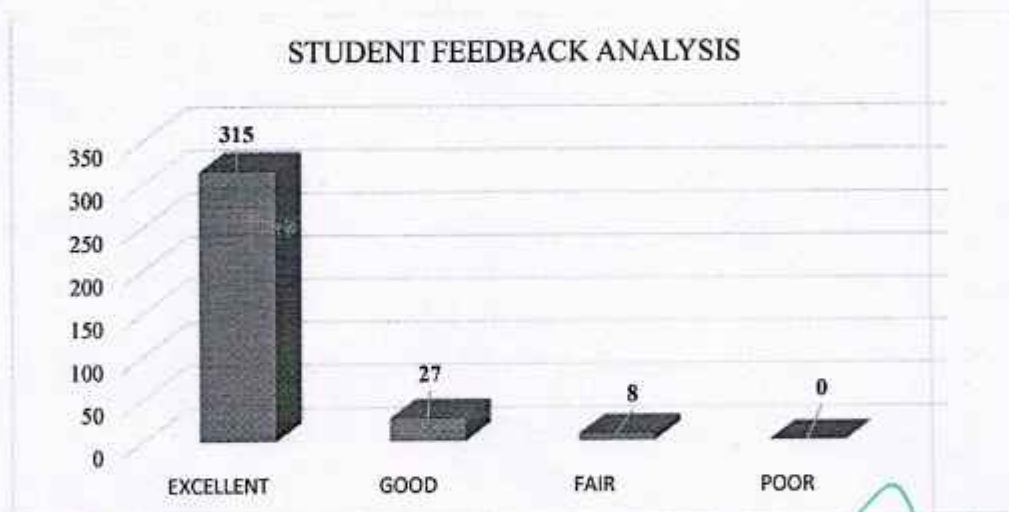
**Principal**

### REPORT SUMMARY

#### 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



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

**Principal**

### **SEMINAR ON SPSS CORRELATION AND LINEAR REGRESSION**

#### **SEMINAR PHOTO**



**Dr. N.SENTHILKUMAR,**  
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Contact No : +919789456750, +919943066944, +919943069944.

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

**Principal**

### PARTICIPANTS LIST

S.NO	NAME	YEAR	COURSE
1.	JOSHUA GNANASEELAN B	SEM-VII	B.PHARM
2.	SELVABALAGAN M	SEM-VII	B.PHARM
3.	SHANMUGAVEL P	SEM-VII	B.PHARM
4.	NANDHAKUMAR S	SEM-VII	B.PHARM
5.	AJITH KUMAR K	SEM-VII	B.PHARM
6.	ANAND M	SEM-VII	B.PHARM
7.	ANAND R	SEM-VII	B.PHARM
8.	ANBARASAN S	SEM-VII	B.PHARM
9.	ANUSHIYA D D	SEM-VII	B.PHARM
10.	ARUN M	SEM-VII	B.PHARM
11.	ARUNA P	SEM-VII	B.PHARM
12.	ASHOKMOHAN J	SEM-VII	B.PHARM
13.	ASLIN VENISKA V	SEM-VII	B.PHARM
14.	AVINKUMAR A	SEM-VII	B.PHARM
15.	BALAGANAPATHI V	SEM-VII	B.PHARM
16.	BHARANIDHARAN M	SEM-VII	B.PHARM
17.	CHITRA S	SEM-VII	B.PHARM
18.	DEEPA S	SEM-VII	B.PHARM
19.	DEEPIKA A	SEM-VII	B.PHARM
20.	DEEPIKA C	SEM-VII	B.PHARM
21.	DHANABABU J	SEM-VII	B.PHARM
22.	DINESH J	SEM-VII	B.PHARM
23.	GOKULKANNAN S K	SEM-VII	B.PHARM
24.	GOWRISHANKAR G	SEM-VII	B.PHARM
25.	GOWTHAM D	SEM-VII	B.PHARM
26.	GOWTHAMAN R	SEM-VII	B.PHARM
27.	GUNAL R	SEM-VII	B.PHARM
28.	GUNASEKAR K	SEM-VII	B.PHARM
29.	HARIKRISHNAN M	SEM-VII	B.PHARM
30.	JEEVANANTHAM S	SEM-VII	B.PHARM
31.	JEGANPATHY S	SEM-VII	B.PHARM



**Dr. N. SENTHILKUMAR,**  
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32.	KARTHI V	SEM-VII	B.PHARM
33.	KARTHICK M	SEM-VII	B.PHARM
34.	KARTHIKA M	SEM-VII	B.PHARM
35.	KAVIN P	SEM-VII	B.PHARM
36.	KAVINRAJ K	SEM-VII	B.PHARM
37.	KAVIPRASANTH S	SEM-VII	B.PHARM
38.	KEERTHIHARAN S	SEM-VII	B.PHARM
39.	KESAVAN K	SEM-VII	B.PHARM
40.	KUMARESAN M	SEM-VII	B.PHARM
41.	LOGANATHAN R	SEM-VII	B.PHARM
42.	LOGESH R	SEM-VII	B.PHARM
43.	MANIKAVASAGAM B	SEM-VII	B.PHARM
44.	MESHAPRIYA P M	SEM-VII	B.PHARM
45.	MOHAMED JAMSHEER B	SEM-VII	B.PHARM
46.	MUHAMMED FASIL V	SEM-VII	B.PHARM
47.	MUKILAMALLIGAI D R	SEM-VII	B.PHARM
48.	MURALITHARAN V A	SEM-VII	B.PHARM



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

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



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

## **Certificate of Participation**

This certificate is proudly awarded to

---

**HAS PARTICIPATED AS A DELEGATE IN THE SEMINAR TITLED ON "SPSS-  
CORRELATION AND LINEAR REGRESSION" IN THE JKKMMRF'S ANNAI JKK  
SAMPOORANI AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM ON  
06.01.2023 & 07.01.2023.**



  
**COORDINATOR**



  
**PRINCIPAL**

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



# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Ethirmedi, 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 / E-Mail : principal@jkkmmrfpharmacy.edu.in**

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

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

**Principal**

**DATE: 21/09/2022**

### **DEPARTMENT OF PHARMACOLOGY**

#### **REPORT**

A research problem is a question that a researcher wants to answer or a problem that a researcher wants to solve. Identification and formulation of a research problem is the first step of research process. It is the most challenging and difficult phases of any research project. 'Good research studies need lots of time for selection of a research problem.

#### **SEMINAR- IDENTIFICATION OF RESEARCH PROBLEMS IN PHARMACOLOGY**

**SEMINAR HALL**

**DATE: 19 & 20-09-2022**

#### **RESOURCE PERSON**

**1. DR.V.SURESH, M.PHARM, Ph.D.,**

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

**2. MR.G.THAMOTHARAN., M.PHARM.,**

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

**No. of students enrolled: 350**

**No. of students certified: 348**

**No. of students certified in our Institution: 52**

  
**PROGRAMME  
CO-ORDINATOR**

  
**HOD**

  
**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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





# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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

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

**Principal**

REF.NO: JKKM/PH/SEMINAR/REQ/2022/00

Date: 01/09/2022

From

Department of Pharmacology  
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.

**Respected Sir,**

**Subject: Letter for requesting permission to conduct seminar regarding:-**

We are writing this letter to request permission to conduct a seminar in the Seminar hall for two days on 19/09/2022 & 20-09-2022. We wish to conduct the seminar on **Identification of research problems in pharmacology**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about Identification of research problems in pharmacology that would help to shape the students.

Looking forward for your approval.

Thank you



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

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

Yours sincerely,

Dr. V. Suresh

Signature of HOD,



# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Principal**

### **CIRCULAR (2022-23)**

This is to inform all the students of our college that the seminar on **Identification of research problems in pharmacology** for the academic year 2022 – 2023 will be conducted on 19/09/2022 and 20/09/2022 for all the batches. Hence request all the interested candidates to register for the seminar:

<b>COURSE NAME</b>	<b>DATE</b>	<b>FN</b>	<b>AN</b>	<b>VENUE</b>	<b>RESOURCE PERSONS</b>
Seminar on Identification of research problems in pharmacology	19/09/2022 to 20/09/2022	I -SEM - M. PHARM (P'COLOGY)	I- SEM M. PHARM (P'COGNOSY)	SEMINAR HALL	Dr.V.Suresh & Mr.G.Thamotharan

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.**

**PROGRAMME  
CO-ORDINADOR**

**HOD**

**PRINCIPAL**

**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 SAMPOORANIAMMAL COLLEGE OF PHARMACY**



## **DEPARTMENT OF PHARMACOLOGY**

### **IDENTIFICATION OF RESEARCH PROBLEMS IN PHARMACOLOGY**

#### **RESOURCE PERSONS**

**1.DR.V SURESH.,M.PHARM., PhD  
PROFESSOR & HOD  
DEPT OF PHARMACOLOGY, JKKMMRF'S  
ANNAI JKK SAMPOORANIAMMAL COLLEGE  
OF PHARMACY, KOMARAPALAYAM.**

**2.Mr. G.THAMOTHARAN., M.PHARM.,(Ph D)  
Associate professor  
DEPT OF PHARMACOLOGY, JKKMMRF'S  
ANNAI JKK SAMPOORANIAMMAL COLLEGE  
OF PHARMACY, KOMARAPALAYAM.**

**DATE :19-09-2022 & 20-09-2022**

**VENUE: SEMINAR HALL**

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

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





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Principal**

### **ABOUT THE TOPIC**

#### **IDENTIFICATION OF RESEARCH PROBLEM**

##### **INTRODUCTION**

A research problem is a question that a researcher wants to answer or a problem that a researcher wants to solve.

Identification and formulation of a research problem is the first step of research process. It is the most challenging and difficult phases of any research project. '

Good research studies need lots of time for selection of a research problem.'

##### **DEFINITION**

"A problem is an interrogative sentence or statement that asks what relation exists between two or more variables. The answer to questions will provide what is having sought in the research". -Kerlinger '

In other words, 'A research problem is an area of concern where there is a gap in the knowledge base needed for professional practices.'

##### **COMPONENTS OF RESEARCH STATEMENT**

A research problem has six components.

- Relevance of the study
- Title of the study
- Operational definition of the variables
- Objectives of the study
- Delimitations of the study
- Scope and limitation of the study



  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

**DEPARTMENT OF PHARMACOLOGY**

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/COURSE:

NAME OF THE WORKSHOP:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organization was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)? A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15UP

2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

Dr. N.SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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**Contact No : +919789456750, +919943066944, +919943069944.**

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

**Principal**

### **SEMINAR 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



**Dr. N. SETHILKUMAR,  
PRINCIPAL**

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

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  
 Not at all clear

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

- 1  
 2  
 3  
 4  
 5



Student Name with Signature

  
Dr. N. Senthilkumar,  
Principal

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

### STUDENTS FEEDBACK ANALYSIS

DATE: 24/09/2022

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	



*(Signature)*  
Dr. N. SENTHILKUMAR,  
PRINCIPAL

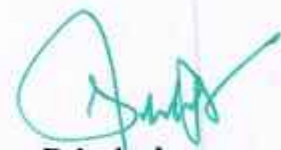
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.

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**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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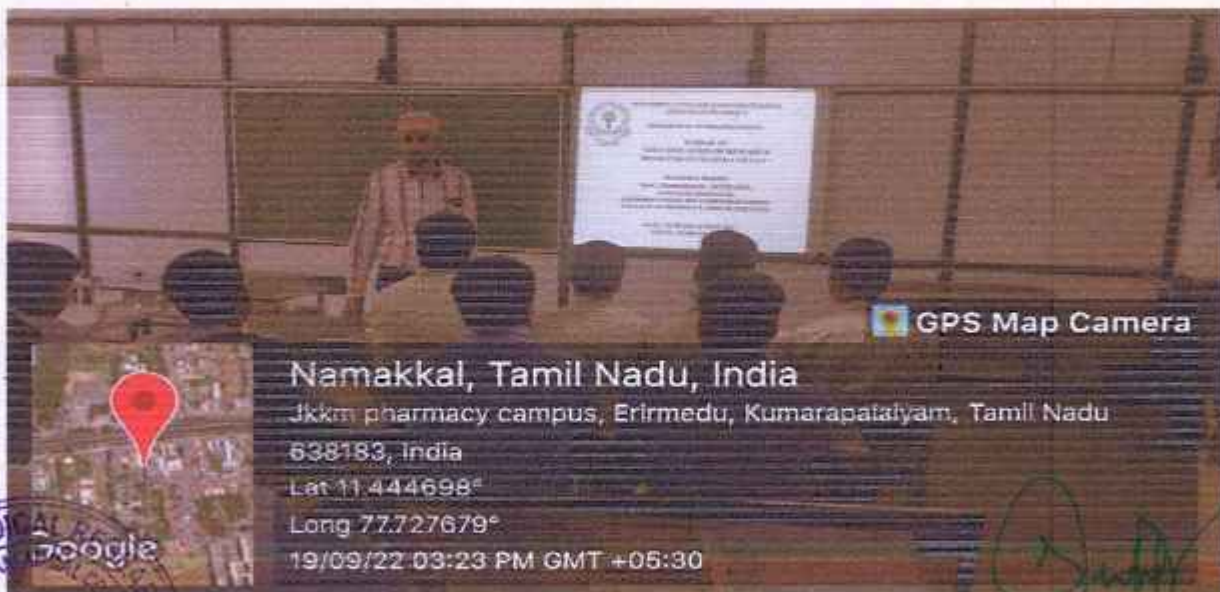
Contact No : +919789456750, +919943066944, +919943069944.

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

**Principal**

## SEMINAR ON IDENTIFICATION OF RESEARCH PROBLEMS IN PHARMACOLOGY

### SEMINAR PHOTOS



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

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

**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	JANARTHANAN G	SEM-IV	M.PHARM (PHARMACY PRACTICE)
2.	JOSEPH MATHEW	SEM-IV	M.PHARM (PHARMACY PRACTICE)
3.	PRAVIN KUMAR N	SEM-IV	M.PHARM (PHARMACY PRACTICE)
4.	RABEEH P	SEM-IV	M.PHARM (PHARMACY PRACTICE)
5.	SHAHANA K	SEM-IV	M.PHARM (PHARMACY PRACTICE)
6.	SURESH MANUEL I	SEM-IV	M.PHARM (PHARMACY PRACTICE)
7.	SWAMINATHEN V M	SEM-IV	M.PHARM (PHARMACY PRACTICE)
8.	AJITHKUMAR B	SEM-IV	M.PHARM (PHARMACOLOGY)
9.	AKASH RAJ K	SEM-IV	M.PHARM (PHARMACOLOGY)
10.	DIVYA SHALINI B	SEM-IV	M.PHARM (PHARMACOLOGY)
11.	GANESH S	SEM-IV	M.PHARM (PHARMACOLOGY)
12.	HEMAMALINI B	SEM-IV	M.PHARM (PHARMACOLOGY)
13.	KAMAL G	SEM-IV	M.PHARM (PHARMACOLOGY)
14.	KAMALAKANNAN M	SEM-IV	M.PHARM (PHARMACOLOGY)



**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 636 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

14.	KRISHNAN R	SEM-IV	M.PHARM (PHARMACOLOGY)
15.	LATHA S	SEM-IV	M.PHARM (PHARMACOLOGY)
16.	MANIKANDAN K	SEM-IV	M.PHARM (PHARMACOLOGY)
17.	PAVITHRA D	SEM-IV	M.PHARM (PHARMACOLOGY)
18.	SANKAR N	SEM-IV	M.PHARM (PHARMACOLOGY)
19.	SREERAG VISWAM	SEM-IV	M.PHARM (PHARMACOLOGY)
20.	AMRITHA J	SEM-II	M.PHARM (PHARMACEUTICS)
21.	ASHIK P M	SEM-II	M.PHARM (PHARMACEUTICS)
22.	AVINASH V	SEM-II	M.PHARM (PHARMACEUTICS)
23.	DEEPTHI K C	SEM-II	M.PHARM (PHARMACEUTICS)
24.	DHIVAGAR R	SEM-II	M.PHARM (PHARMACEUTICS)
25.	JAFERI SANDOSH A	SEM-II	M.PHARM (PHARMACEUTICS)
26.	MOHAMED SHIHAB K E	SEM-II	M.PHARM (PHARMACEUTICS)
27.	MOHAMED YASEEN M	SEM-II	M.PHARM (PHARMACEUTICS)
28.	NAVANANDHINI J	SEM-II	M.PHARM (PHARMACEUTICS)
29.	PAVITHRA B	SEM-II	M.PHARM (PHARMACEUTICS)
30.	SHAFIKA M	SEM-II	M.PHARM (PHARMACEUTICS)
31.	SOUNDARA PANDIYAN G	SEM-II	M.PHARM (PHARMACEUTICS)
32.	TAMILARASU A	SEM-II	M.PHARM (PHARMACEUTICS)
35	VENKATESH S	SEM-II	M.PHARM (PHARMACEUTICS)
36	ABINAYA V	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
37	ANITHA M	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
38	DHIVYA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
39	MANISHA M	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
40	PAVITHRA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
41	PRIYANKA V	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
42	SANTHANAKRISHNAN K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
43	SOJARNA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
44	SUBHASHINI D	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
45	SURYAMATHI P	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
46	AAKASH S	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
47	ARUNPRAKASH S	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)



Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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ETHIRMEDU, KOMARAPALAYAM - 636 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

48	DEEPIKA R	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
49	GOKULAKANNAN M	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
50	HARSHA VARDHINEE K	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
51	JAGADESWARAN C	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)
52	MARIMUTHU P	SEM-II	M.PHARM (PHARMACEUTICAL ANALYSIS)



A handwritten signature in green ink, appearing to be "Dr. N. Senthilkumar".

**PRINCIPAL**

**Dr. N.SENTHILKUMAR,**

**PRINCIPAL**

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



**CERTIFICATE OF APPRECIATION**

This is to certify that Mr./Mrs./Ms \_\_\_\_\_

has appreciated for his/her participation in the seminar on

**“IDENTIFICATION OF RESEARCH PROBLEM”**

Organized by

Department of Pharmacology on 19-09-2022 & 20-09-2022

**Convenor**

Dr. N.SENTHILKUMAR,  
PRINCIPAL,

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

**Organizing Secretary**





# **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.

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

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

**Principal**

**DATE:13/02/2023**

### **DEPARTMENT OF PHARMACOLOGY**

### **REPORT**

Entrepreneurship education entail's philosophy of self-reliance such as creating a new cultural and productive environment promoting new sets of attitudes and culture for the attainment of future challenges. Entrepreneurship education is the type of education which has the ability to impact on the growth and development of an enterprise through technical and vocational training.

#### **SEMINAR – SKILL ACQUISITION ON ENTREPRENEURSHIP DEVELOPMENT**

**SEMINAR HALL**

**DATED: 10 & 11-02-2023**

#### **RESOURCE PERSON**

**1. Dr.G. Sekar., M.PHARM., Ph D**

**PROFESSOR, S S COLLEGE OF PHARMACY, SANKARI.**

**2. Mr.N.Deepan., M.PHARM.,**

**ASSISTANT PROFESSOR, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL**

**COLLEGE OF PHARMACY, KOMARAPALAYAM**

**No. of students enrolled: 350**

**No. of students certified: 349**

**No. of students certified in our Institution :34**

#### **Introduction:**

The seminar on Skill acquisition on entrepreneurship development was held on 10 and 11<sup>th</sup> February, 2023 at JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy. The seminar was organized by the Department of Pharmacy, and a total of 350 students participated. The purpose of the seminar was to provide the young graduates adequate training that will enable them to be creative and innovative in identifying great business opportunities. At the end of the seminar, all attendees received a certificate of completion.



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

**Objectives:**

The main objectives of the seminar were to:

To offer functional education to the youths to enable them to be well empowered and self-reliant people in their own right.

**Participants:**

The seminar was open to all students at JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, and a total of 350 students participated. The attendees represented a range of academic disciplines within the field of pharmacy including Pharmacology, Pharmaceutical chemistry and Pharmacy practice.

**Format:**

The seminar was structured as a combination of lectures, group discussions, and hands-on exercises. The lectures were led by an experienced persons and the hands-on exercises were led by a trained facilitator. The seminar was held over one full day, with breaks in between to allow attendees to rest and ask questions.

**Content:**

The seminar covered a range of topics related to entrepreneurship development. Attendees learned about entrepreneurial skills and business opportunities. They also learned about the different approaches of comprehensive business plans.

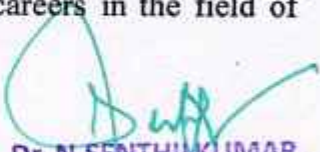
**Evaluation:**

At the end of the seminar, attendees were asked to complete a short evaluation form to provide feedback on the seminar. Overall, the evaluations were very positive, with most attendees rating the workshop as "excellent" or "good." Attendees commented that the lectures were clear and well-organized, and that the hands-on exercises were helpful in providing a practical understanding on Skill acquisition on entrepreneurship development.

**Conclusion :**

Overall, the seminar on Skill acquisition on entrepreneurship development was a success. A total of 350 students participated, and all attendees received a certificate of completion. The positive feedback from attendees suggests that the workshop met its objectives and was well-received by the participants . The skills and knowledge gained from the seminar will be valuable to the students as they continue their studies and pursue careers in the field of pharmacy .



  
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PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 628 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

**Recommendations:**

Based on the evaluations and feedback from attendees, we recommend offering similar seminar in the future to continue to build capacity on Skill acquisition on entrepreneurship development at JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy. It may also be helpful to consider offering more advanced seminar for those who have already completed the basic workshop and are looking to further develop their skills.



**PROGRAMME  
CO-ORDINATOR**



**HOD**



**PRINCIPAL**

**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

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

**Principal**

REF.NO: JKKM/PH/SEMINAR/REQ/2023/001

Date: 01/02/2023

From

Department of Pharmacology  
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.

**Respected Sir,**

Subject: **Letter for requesting permission to conduct seminar regarding: -**

We are writing this letter to request permission to conduct a seminar in the Seminar Hall for two days, on 10/02/2023 and 11/02/2023. We wish to conduct the seminar on "**SKILL ACQUISITION ON ENTREPRENEURSHIP DEVELOPMENT**". We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about Identification of research problems in pharmacology that would help to shape the students.

Looking forward for your approval.

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,

**Dr. V. Suresh**

Signature of HOD.







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

**Principal**

### **DEPARTMENT OF PHARMACOLOGY**

#### **CIRCULAR (2022-23)**

This is to inform all the students of our college that the seminar on **Skill acquisition on entrepreneurship development** for the academic year 2022 – 2023 will be conducted on 10/02/2023 and 11/02/2023 for all the batches. Hence request all the interested candidates to register for the seminar:

<b>COURSE NAME</b>	<b>DATE</b>	<b>FN</b>	<b>AN</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>Skill acquisition on entrepreneurship development</b>	<b>10/02/2023 to 11/02/2023</b>	<b>III B.PHARM (SEM-VI)</b>	<b>III B.PHARM (SEM-VI)</b>	<b>SEMINAR HALL</b>	<b>Dr.G.Sekar &amp; Mr.N.Deepan</b>

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.**

**PROGRAMME  
CO-ORDINADOR**

**HOD**

**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**JKKMMRF'S ANNAI JKK  
SAMPOORANIAMMAL  
COLLEGE OF  
PHARMACY**



**DEPARTMENT OF PHARMACOLOGY**

**SKILL ACQUISITION ON  
ENTREPRENEURSHIP DEVELOPMENT**

**RESOURCE PERSONS**

**1. Dr.G.Sekar, M.PHARM.,Ph D.,  
PROFESSOR,  
S S INSTITUTE OF PHARMACY, SANKARI.**

**2. Mr.N.Deepan., M.PHARM.,  
ASSISTANT PROFESSOR, JKKMMRF'S ANNAI JKK  
SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM**

**DATE: 10-02-2023 & 11-02-2023**

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

**Principal**

### **ABOUT THE TOPIC**

#### **SKILL ACQUISITION ON ENTREPRENEURSHIP DEVELOPMENT**

##### **INTRODUCTION**

An Entrepreneurship Development Programme (EDP), aims at training the graduates in the essentials of conceiving, planning, initiating and launching an economic activity or an enterprise successfully. The programme content includes class room training on essentials of entrepreneurship survey of the prevalent socio - economic scenario, identification of business opportunities, role and function as well as schemes of assistance offered by various constituents of the support system, preparation of a technically feasible and economically viable project report, Achievement Motivation Training and also the nuances of management of an enterprise.

##### **PROGRAMME OBJECTIVE:**

- To Develop and strengthen entrepreneurial quality, i.e., motivation or need for achievement
- To analyze environmental set up relating to small industry and promoting it
- Removing unemployment
- enhancing industrial development
- Developing industrially backward region
- Select project/product
- Formulate the project
- Understand the process and procedure involved in setting up small units
- Know the sources of help and support available for starting a small- scale industry
- Acquire necessary managerial skill required to run the industrial unit
- Know the pros and cons of being an entrepreneur
- Helping the person to understand environmental changes and opportunities
- Acquaint and appreciate the needed social responsibility/ entrepreneurial discipline

##### **IMPORTANCE OF ENTREPRENEURSHIP DEVELOPMENT PRPGRAMME:**

- Enable prospective entrepreneurs in the setting up of their own units, thus enabling them to get self-employment
- The participants are imparted training on techno-managerial topics as well as practical skills covering wide range of important domain that are useful for the young entrepreneur to start their own venture.
- To provide experiential learning, Institutional visits are also organized as a part of the program.



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**Principal**

### DEPARTMENT OF PHARMACOLOGY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/COURSE:

NAME OF THE WORKSHOP:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organization was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15UP

2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### STUDENTS FEEDBACK FORM

<b>NAME OF STUDENT:</b>		<b>REGISTRATION NO:</b>	
<b>COURSE:</b>		<b>YEAR &amp; SEMESTER:</b>	
<b>SEMINAR TOPIC:</b>		<b>DATE &amp; TIME:</b>	
<b>1.</b>	<b>Overall, how satisfied were you with this seminar?</b>		
	<input type="radio"/> Very satisfied		
	<input type="radio"/> Satisfied		
	<input type="radio"/> Neutral		
	<input type="radio"/> Dissatisfied		
	<input type="radio"/> Very dissatisfied		
<b>2.</b>	<b>How clear were the ideas and concepts we presented?</b>		
	<input type="radio"/> Extremely clear		
	<input type="radio"/> Very clear		
	<input type="radio"/> Moderately clear		
	<input type="radio"/> Not very clear		
	<input type="radio"/> Not at all clear		
<b>3.</b>	<b>What percentage of the information was new to you?</b>		
	<input type="radio"/> 100%		
	<input type="radio"/> 75%		
	<input type="radio"/> 50%		
	<input type="radio"/> 25%		
	<input type="radio"/> 0%		



  
Dr. N. SENTHILKUMAR,  
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.

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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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**Principal**

### STUDENTS FEEDBACK ANALYSIS

DATE: 20/02/2023

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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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

### SEMINAR ON SKILL ACQUISITION ON ENTREPRENEURSHIP DEVELOPMENT

#### SEMINAR PHOTO



DR. N. SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	GOWTHAM K	SEM-IV	M.PHARM (PHARMACEUTICS)
2.	GOWTHAMAN T	SEM-IV	M.PHARM (PHARMACEUTICS)
3.	KALPANA P	SEM-IV	M.PHARM (PHARMACEUTICS)
4.	KAVYA S	SEM-IV	M.PHARM (PHARMACEUTICS)
5.	KAYATHRI DEVI K	SEM-IV	M.PHARM (PHARMACEUTICS)
6.	KIRUBHA HARI C	SEM-IV	M.PHARM (PHARMACEUTICS)
7.	PANTHALARASA S	SEM-IV	M.PHARM (PHARMACEUTICS)
8.	RASHEENA M	SEM-IV	M.PHARM (PHARMACEUTICS)
9.	SARATHKUMAR S	SEM-IV	M.PHARM (PHARMACEUTICS)
10.	SRINIVASAN K	SEM-IV	M.PHARM (PHARMACEUTICS)
11.	UMARMUKDARA	SEM-IV	M.PHARM (PHARMACEUTICS)
12.	ARATHY P NAIR	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
13.	EZHILARASAN S	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)



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

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

14.	GOKUL T	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
15.	RAGAVI P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
16.	REVATHI J	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
17.	SOMASUNDARAM P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
18.	STELLAMARY D	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
19.	SUGANTHI P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
20.	ASARUDEEN A	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
21.	ASWIN KUMAR N	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
22.	HARIPRAKASH K	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
23.	KARTHICK S	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
24.	KATHIRAVAN K N	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
25.	RAMKUMAR K	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
26.	SATHISH KUMAR G	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
27.	SRIVIJAY R	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)
28.	VIGNESH S	SEM-IV	M.PHARM (PHARMACEUTICAL ANALYSIS)



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29.	AHAMMED SHABEEN	SEM-IV	M.PHARM (PHARMACY PRACTICE)
30.	ANAND P	SEM-IV	M.PHARM (PHARMACY PRACTICE)
31.	BHAVANA R	SEM-IV	M.PHARM (PHARMACY PRACTICE)
32.	FASILA LULU FAISAL	SEM-IV	M.PHARM (PHARMACY PRACTICE)
33.	FITHAL K JYOTHISH	SEM-IV	M.PHARM (PHARMACY PRACTICE)
34.	HAMZAL HABEEB	SEM-IV	M.PHARM (PHARMACY PRACTICE)



  
PRINCIPAL

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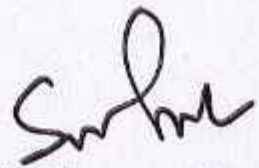
**JKKMMRF'S ANNAI JKK  
SAMPOORANIAMMAL  
COLLEGE OF PHARMACY**

***CERTIFICATE OF APPRECIATION***

*This is to certify that Mr./Mrs./Ms \_\_\_\_\_  
has appreciated for his/her participation in the seminar on  
"SKILL ACQUISITION ON ENTREPRENEURSHIP DEVELOPMENT"  
organized by  
Department of Pharmacology on 10-02-2023 & 11-02-2023*

  
**Convenor**

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

  
**Organizing Secretary**

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





# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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

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

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

**Principal**

DATE: 22.10.2022

### DEPARTMENT OF PHARMACEUTICS REPORT

#### SEMINAR ON NUTRACEUTICALS WITH PHARMACEUTICS: ITS IMPORTANCE'S AND THEIR APPLICATION

##### RESOURCE PERSONS

1. Dr.S. CHANDRA., M. PHARM, Ph.D.,  
PROFESSOR AND HOD,  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,

2. Mr.R. SURESH., M. PHARM.  
ASSOCIATE PROFESSOR,  
DEPARTMENT OF PHARMACEUTICS,  
JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
KOMARAPALAYAM-638183

No. of students enrolled: 455

No. of students certified: 430

No. of students certified in our institution : 75

**Objective:** Nutraceuticals is derived from the amalgamation of the term nutrition and pharmaceutical and was coined by Stephen De Felice in 1989. He defined nutraceutical as, "a food (or part of a food) that provides medical or health benefits, including the prevention and/or treatment of a disease" However the terminology is not very popular globally and is mostly substituted by the term "dietary supplements" to meet the stringent regulatory requirements. But microscopically cross-sectioning of both the terms reveals some basic differences like nutraceuticals should always aid in disease prevention or treatment rather than only supplementing the diet

##### **Learning outcomes:**

Nutraceutical products provide several pharmacological benefits like anti-aging, protection against some chronic diseases, maintaining body homeostasis, cardiovascular diseases, neurodegenerative diseases, metabolic disorders like diabetes, degenerative diseases like cancer, protein deficiency, ophthalmic complications, allergic problems, and Parkinsonism This part of this chapter will provide an insight into the contribution of nutraceuticals for management of diverse clinical conditions.

  
Head of the Department

  
Principal

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Contact No : +919789456750, +919943066944, +919943069944.**

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

**Principal**

**REF.NO: JKKM/PHARM/CEU/REQ/2022/001**

**Date:17.10.2022**

**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 on two days seminar regarding: -**

**Respected Sir,**

We are writing this letter to request permission to conduct a one-day seminar in the SEMINAR HALL on 20.10.2022 & 21 .10.2022. We wish to conduct seminar regarding the **Nutraceuticals with pharmaceutics: Its importance's and their applications.**

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

**Dr. N.SETHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU. INDIA.**



**Yours sincerely,**

**Dr.S.Chandra  
HOD**



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

**DATE:19.10.2022**

### **CIRCULAR**

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

SEMINAR NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
<b>NUTRACEUTICALS WITH PHARMACEUTICS: ITS IMPORTANCE'S AND THEIR APPLICATION</b>	<b>20.10.2022 &amp; 21 .10.2022</b>	<b>20.10.2022 FN (3 HOURS) &amp;21 .10.2022 FN (3 HOURS)</b>	<b>SEMINAR HALL</b>	<b>Dr.S. CHANDRA Mr.R. SURESH</b>

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**

**J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAL J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY**  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### SYLLABUS

DATE	HOURS	SEMINAR TOPIC	SUB TOPICS	RESOURCE PERSON
20.10.2022 &21.10.2022	20.10.2022 FN (3 HOURS) &21.10.2022 FN (3 HOURS)	Nutraceuticals with pharmaceutics: Its importance's and their Application	History of nutraceuticals Demand of nutraceuticals Nutraceuticals in drug delivery	Dr.S. CHANDRA
	Contribution of nutraceuticals in therapeutics Marketed nutraceuticals		Mr.R. SURESH	

**TOTAL HOURS – 6 HOURS**

**HOD**



**Principal**

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

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SAMPOORANI AMMAL COLLEGE  
OF PHARMACY**

**Komarapalayam, Nammakal Dt-638183**

**DEPARTMENT OF PHARMACEUTICS**

**SEMINAR TOPIC**

**Nutraceuticals with pharmaceuticals: Its importance  
and their Applications**

**held on 20.10.2022 & 21.10.2022**



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Dr.N. SETHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### **DEPARTMENT OF PHARMACEUTICS**

**TWO DAYS SEMINAR ON: Nutraceuticals with pharmaceutics: Its importance and their Applications**

#### **ABOUT THE SEMINAR**

Modern day work profile has led to the development of a new set of diseases popularly termed as life-style disorders. The common causative agents of these types of disorders are improper diet and dependence on fast foods, lack of physical inactivity, non-alignment with biological clock, incorrect body posture, excessive stress and inadequate rest. Nutraceuticals represent a unique blend of modern science and natural agents and perhaps the best possible solutions for management of lifestyle diseases. Besides these lifestyle disorders are also considered responsible for the predisposition of several complex clinical conditions. Diverse marketed nutraceuticals variants can also help to block the transformation of life style disorders into fatal diseases. Consumer acceptance of nutraceuticals started gaining from 1980 onwards when scientists started indulging into efficacy evaluations of such products followed by their representation in mass media. Other factors like steep rise in medical management costs, increased life expectancy, increased health awareness and available scientific data confirming health benefits of nutraceuticals have also contributed to consumer acceptance of such products. Global nutraceutical market which was approximately 400 billion USD in 2019 is expected to cross nutraceuticals product bouquet along with a healthy pipeline of innovative products booming the market are all contributors to the predicted growth. The entry of generic products may cause a dip in nutraceutical product costs but because of high consumer acceptance, the overall market for such products is expected to remain stable.

Nutraceutical products provide several pharmacological benefits like anti-aging, protection against some chronic diseases, maintaining body homeostasis, cardiovascular diseases, neurodegenerative diseases, metabolic disorders like diabetes, degenerative diseases like cancer, protein deficiency, ophthalmic complications, allergic problems and Parkinsonism. This part of this chapter will provide an insight to the contribution of nutraceuticals for management of diverse clinical conditions.



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

Principal 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%



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

- Principal**
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
  - Not at all clear



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

**Principal**

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

- 1
- 2
- 3
- 4
- 5

**Student Name with Signature**



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

**Principal**

### STUDENTS FEEDBACK ANALYSIS

DATE: 21.10.2022

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	
7	Rate the content of the slides/virtual aid	Extremely clear	5	5



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

Principal

### REPORT SUMMARY

DATE: 22.10.2022

Duration of the Course	6 HOURS
Total participants Enrolled	455
Successfully Completed	430
Type of Feedback Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	Nutraceutical products provide several pharmacological benefits like anti-aging, protection against some chronic diseases, maintaining body homeostasis cardiovascular diseases, neurodegenerative diseases, metabolic disorders like diabetes, degenerative diseases like cancer, protein deficiency, ophthalmic complications, allergic problems and Parkinsonism This part of this chapter will provide an insight to the contribution of nutraceuticals for management of diverse clinical conditions.

### 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



  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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



# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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

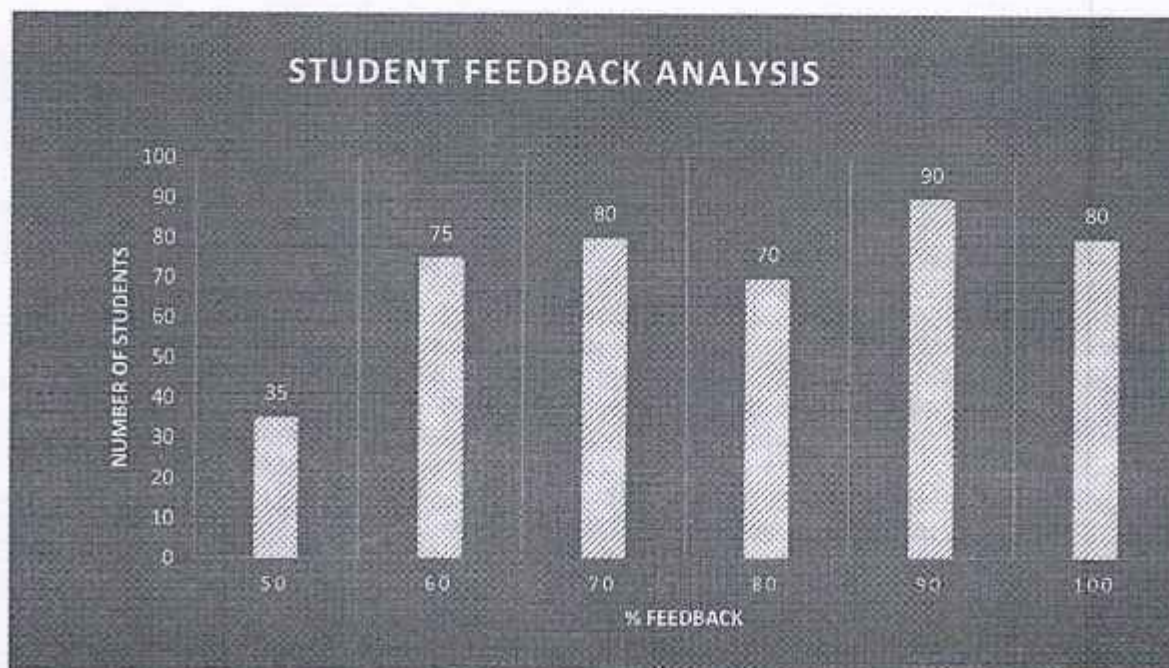
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**



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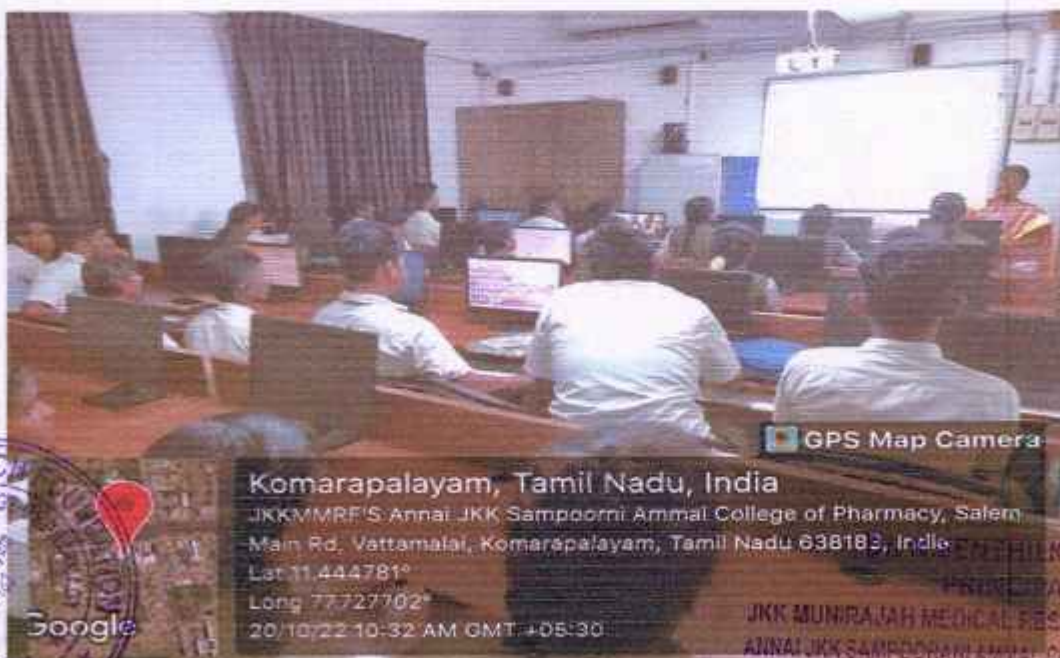
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### SEMINAR ON NUTRACEUTICALS WITH PHARMACEUTICS: ITS IMPORTANCE'S AND THEIR APPLICATION

#### SEMINAR PHOTOS



*Dr. N. Senthil Kumar*  
Principal

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	DONY D	IV	PHARM D
2.	GODWIN S	IV	PHARM D
3.	JACKSON SELVIN Y	IV	PHARM D
4.	JAYA PRIYA N	IV	PHARM D
5.	JEEVITHA M	IV	PHARM D
6.	JOSEPH CHINNAPPA RAJ J	IV	PHARM D
7.	JOTHIMANI S	IV	PHARM D
8.	KIRUTHIGA O B	IV	PHARM D
9.	MAHALAKSHMI M	IV	PHARM D
10.	NAVEENA S	IV	PHARM D
11.	PRABHAT KUMAR GUPTA	IV	PHARM D
12.	PRADESH C	IV	PHARM D
13.	RAMYA G K	IV	PHARM D
14.	SILAMBARASAN M	IV	PHARM D
15.	SURENDHARAN P	IV	PHARM D
16.	TAMILSELVAN S	IV	PHARM D
17.	THOMAS JUDE RODRIGUES	IV	PHARM D
18.	VIGNESHWAR R	IV	PHARM D
19.	VIMALRAJ G	IV	PHARM D
20.	AAMINA HANEEF	V	PHARM D
21.	ABDUL BASITH M	V	PHARM D
22.	ABISHEK P	V	PHARM D
23.	ALWIN BABYKUTTY ALEX	V	PHARM D



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

24.	ANAGHA S	V	PHARM D
25.	ASWIN A V	V	PHARM D
26.	BERFININ MAHIBA R J	V	PHARM D
27.	BIBIN RIJO W	V	PHARM D
28.	DIVIKA S	V	PHARM D
29.	EZILKKAVIA S	V	PHARM D
30.	FELIC S	V	PHARM D
31.	GNANAGURU C	V	PHARM D
32.	GOPI B	V	PHARM D
33.	KARTHIKA SREEKUMAR J	V	PHARM D
34.	KEZIA K SABU	V	PHARM D
35.	KISHANKANTH P	V	PHARM D
36.	KUMAR V	V	PHARM D
37.	MANOJ KUMAR S	V	PHARM D
38.	NANTHISH N	V	PHARM D
39.	NAVEEN C S	V	PHARM D
40.	NAVEEN V	V	PHARM D
41.	OMARALI THANGAL V	V	PHARM D
42.	PAPITHA S	V	PHARM D
43.	PRAVEEN N	V	PHARM D
44.	RESHMA P VARGHESE	V	PHARM D
45.	SHAFRIN FATHIMA A S	V	PHARM D
46.	N THIRUMURUGAN	V	PHARM D
47.	VENKATESH A	V	PHARM D
48.	ANDLY CHEDRICK C	VI	PHARM D
49.	ASHA M	VI	PHARM D
50.	ASHRITHA D N	VI	PHARM D
51.	DEEPIKA K	VI	PHARM D
52.	HARINI R	VI	PHARM D
53.	JAYAPRAKASH U	VI	PHARM D
54.	JEBISH G S	VI	PHARM D
55.	JEMISHA J	VI	PHARM D
56.	KAVINKISHORE S	VI	PHARM D
57.	MUKILAN M	VI	PHARM D
58.	PREETHI T	VI	PHARM D
59.	PUSHPARAJ A	VI	PHARM D
60.	RAGHUL G	VI	PHARM D
61.	SHANGEETHA S	VI	PHARM D
62.	SUDHARSAN V	VI	PHARM D
63.	SULIMAN B	VI	PHARM D



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

64	TAMIL SELVAN S	VI	PHARM D
65	VEDIYAPPAN V	VI	PHARM D
66	YOGAVARSHINI K S	VI	PHARM D
67	AHAMMED KABEER	VI	PHARM D
68	AMRUTHA M.K	VI	PHARM D
69	CHANDNA THERASA MATHEW	VI	PHARM D
70	DEBORAH ROSE	VI	PHARM D
71	HELENN A M	VI	PHARM D
72	MUNEER T	VI	PHARM D
73	NISSY ESTHER JOHN	VI	PHARM D
74	SAMUEL BABU	VI	PHARM D
75	NAIVIN D ALMEDA	VI	PHARM D



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JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL  
COLLEGE OF PHARMACY



Komarapalayam-638183, Namakkal

**DEPARTMENT OF PHARMACEUTICS**

Two days seminar on

**NUTRACEUTICALS WITH PHARMACEUTICS**

This is to Certify that

---

has appreciated for his/her contribution in the seminar held on 20th  
and 21st of october 2022.



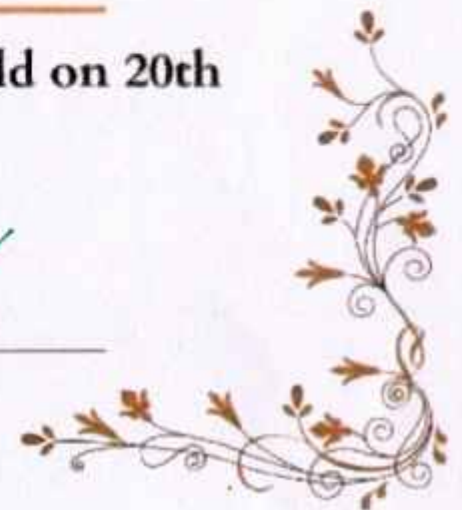
Organizing Secretary



Dr. N.SENTHILKUMAR,  
PRINCIPAL,

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

Convener





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Principal**

**DATE:17.10.2022**

### **DEPARTMENT OF PHARMACY PRACTICE**

#### **REPORT**

### **WORKSHOP ON ROLES AND RESPONSIBILITIES OF PHARMACIST IN MEDICATION RECONCILIATION**

**VENUE: SEMINAR HALL**

**DATED: 14/10/2022**

#### **RESOURCE PERSON**

**Dr.K.C. ARULPRAKASAM, M PHARM, PH.D.**

**PROFESSOR AND HOD,**

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

**No. of students enrolled: 345**

**No. of students certified:344**

**No. of students certified in our institution : 42**

#### **Introduction:**

The workshop on Roles and Responsibilities of Pharmacist in Medication Reconciliation was held on October 14th ,2022 at JKKMMRF's AnnaiSampooraniAmmal College of Pharmacy. The workshop was organized by the Department of Pharmacy, and a total of 345 students participated. The purpose of the workshop was to provide attendees with basic ideas of medication reconciliation and its roles and responsibilities of a pharmacist who attend ward rounds in a hospital. At the end of the workshop, all attendees received a certificate of completion.

#### **Objectives:**

The main objectives of the workshop were to:

- Introduce attendees the term Medication Reconciliation and its importance.
- Areas where the medication reconciliation can be applied in a hospital.
- Roles and responsibility of pharmacists in the medication reconciliation process.
- Advantages and disadvantages of medication reconciliation



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



**Participants:**

The workshop was open to all students at JKKMMRF's AnnaiSampooraaniAmmal College of Pharmacy, and a total of 345 students participated. The attendees represented a range of academic disciplines within the field of pharmacy, including pharmacology, pharmaceutical chemistry, and pharmacy practice. Most of the attendees had some prior experience with medication reconciliation process during their internship period.

**Format:**

The workshop was structured as a combination of lectures, group discussions, along with quiz programme. The lectures were led by an experienced senior clinical pharmacists, and the quiz session was conducted by the pharmacy practice faculties. The winners of the quiz competition were given with awards. The workshop was held over one full day, with breaks in between to allow attendees to rest and ask questions.

**Content:**

The workshop covered a range of topics related to importance, roles and responsibilities of pharmacist in medication reconciliation. The one day programme focused on, attendees learned about the areas where the pharmacist have to be focused during medication reconciliation. The apt application of reconciliation process for a patient during reconciliation process. The advantages and disadvantages of this reportin process were clearly explained to the attendees.

**Evaluation:**

At the end of the workshop, attendees were asked to complete a short evaluation form to provide feedback on the workshop. Overall, the evaluations were very positive, with most attendees rating the workshop as "excellent" or "good." Attendees commented that the lectures were clear and well-organized, and that the quiz programme contributes enjoyment for the attendees at the end.

**Conclusion:**

Overall, the workshop on Roles and Responsibilities of Pharmacist in Medication Reconciliation was a success. A total of 345 students participated, and all attendees received a certificate of completion. The positive feedback from attendees suggests that the workshop met its objectives and was well-received by the participants. The skills and knowledge gained from the workshop will be valuable to the students as they continue their studies and pursue careers in the field of pharmacy.




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

**Recommendations:**

Based on the evaluations and feedback from attendees, we recommend offering similar workshops in the topics which highlights the importance of pharmacist in the society and healthcare setups, at JKKMMRF's AnnaiSampoorniAmmal College of Pharmacy. It may also be helpful to consider offering more advanced workshops for those who have already completed the basic workshop and are looking to further develop their skills.

  
**Programme  
Co-ordinator**

  
**HOD**

  
**Principal**

**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.,**

**Principal**

### WORKSHOP

Date:09/10/2022

REF.NO: JKKM/PH/WORKSHOP/REQ/2022/02

From

Department of Pharmacy Practice  
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 workshop regarding:-

Respected Sir,

We Are writing this letter to request permission to conduct a workshop in the Seminar hall for one day on 14/10/2022. We wish to conduct the workshop on **Roles and Responsibilities of Pharmacist in Medication Reconciliation**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **Roles and Responsibilities of Pharmacist in Medication Reconciliation** that would help to shape the students.

Looking forward for your approval.

Thank you

Yours sincerely,

Signature of HOD.



*ok*  
*[Signature]*

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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Principal**

### CIRCULAR

This is to inform all the students of our college that the workshop on Roles and Responsibilities of Pharmacist in Medication Reconciliation for the academic year 2022-2023 will be commenced on 14/10/2022 for all the batches. Hence request all the interested candidates to register for the workshop.

COURSE NAME	SCHEDULE	VENUE	RESOURCE PERSON
ROLES AND RESPONSIBILITIES OF PHARMACIST IN MEDICATION RECONCILIATION	14/10/2022	SEMINAR HALL	DR. K. C ARULPRAKASAM

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

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

  
Programme  
co-ordinator

  
HOD

  
Principal



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



The workshop on Roles and Responsibilities of Pharmacist in Medication Reconciliation was held on October 14th, 2022 at JKKMMRF's Annai Sampoorani Ammal College of Pharmacy. The workshop was organized by the Department of Pharmacy, and expecting maximum student participation. The purpose of the workshop was to provide attendees with basic ideas of medication reconciliation and its roles and responsibilities of a pharmacist who attend ward rounds in a hospital. At the end of the workshop, all attendees received a certificate of completion.

**Objectives:**

The main objectives of the workshop were to:

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- Advantages and disadvantages of medication reconciliation.



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College of Pharmacy,  
Komarapalayam, Namakkal  
Dist-638183

## SEMINAR

Topic : Roles and Responsibilities  
of Pharmacist in  
"MEDICATION RECONCILIATION".

Date: 14/10/2022

VENUE: Seminar Hall

Dr. N. SENTHILKUMAR,  
PRINCIPAL,  
JKM MUNTRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### ABOUT THE TOPIC

#### **ROLES AND RESPONSIBILITIES OF PHARMACIST IN MEDICATION RECONCILIATION**

##### **MEDICATION RECONCILIATION**

The process of identifying the most accurate list of all medications that the patient is taking, including name, dosage, frequency, and route, by comparing the medical record to an external list of medications obtained from a patient, hospital, or other provider.

##### **REASON FOR IMPLEMENTATION**

Transitions from one healthcare setting to another – whether from an intensive care unit to a general ward or from a rehabilitation facility to the patient's home – increase the risks of adverse drug events and can contribute to avoidable hospital visits. For instance, incomplete or inaccurate medication information can introduce changes to patients' outpatient medication regimens that were not intended by hospital-based physicians. Two common unintended medication changes are omissions – pre-admission medications are omitted from hospital orders and therefore not continued after discharge – and commissions – previous medications that patients discontinued prior to admission are inadvertently re-initiated in the hospital and therefore continued upon discharge cause moderate to severe discomfort or clinical deterioration.

##### **ROLES AND RESPONSIBILITIES**

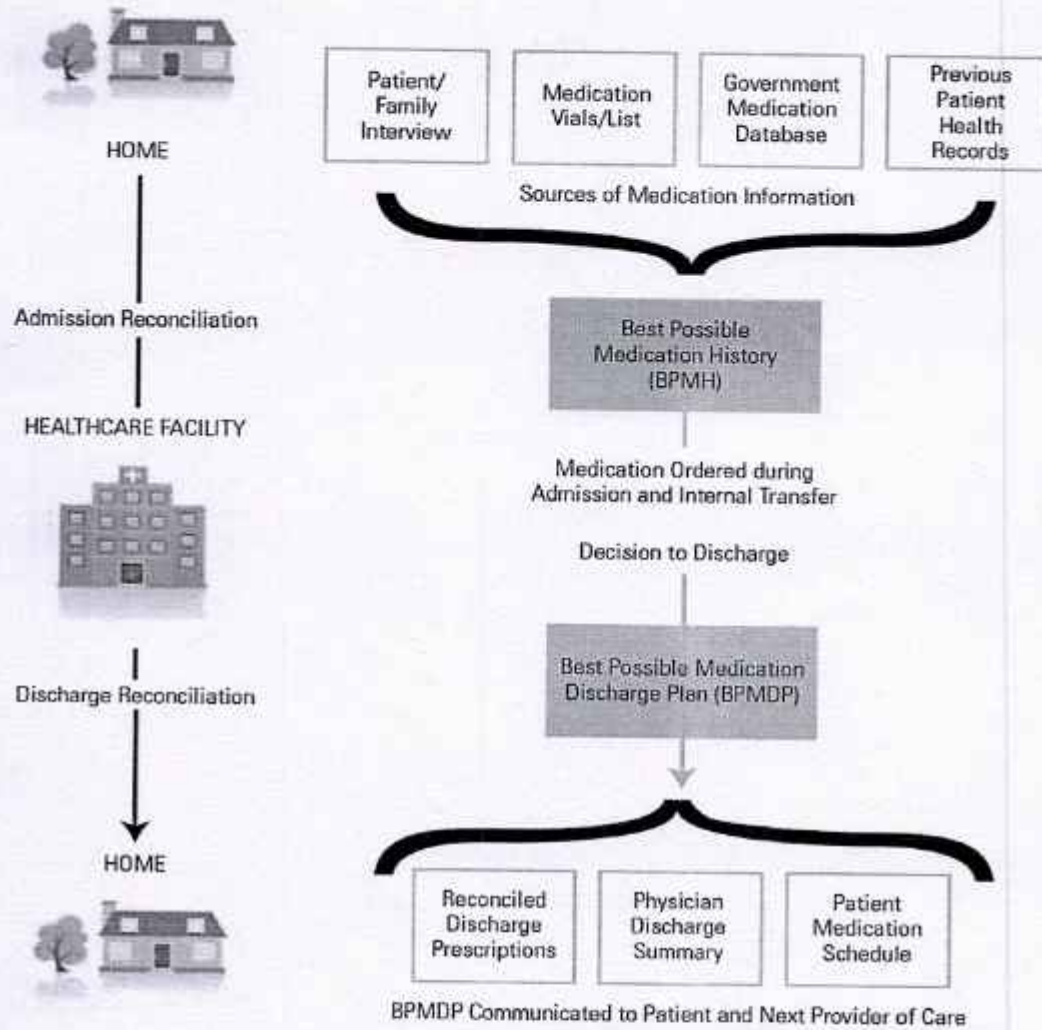
The pharmacist's role is to coordinate the medication reconciliation process. The pharmacist, wherever possible, should take primary responsibility for ensuring proper communication of medication information to patients/clients, families and other healthcare providers on admission, transfer, and discharge.



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

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**FIGURE 1.**  
**Overview of medication reconciliation – what, where, when and how**



*(Handwritten signature in green ink)*

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

**Principal**

## DEPARTMENT OF PHAREMACY PRACTICE

### WORKSHOP FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE :

NAME OF THE WORKSHOP:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A)BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%

SIGNATURE

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

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

## WORKSHOP ON ROLES AND RESPONSIBILITIES OF PHARMACIST IN MEDICATION RECONCILIATION SEMINAR PHOTO



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JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 163,  
NAMAKKAL DISTRICT, TAMILNADU.



# 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.

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

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

**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1	SANTHOSH S	SEM-V	B.PHARM
2	SARAN S	SEM-V	B.PHARM
3	SARANYA S	SEM-V	B.PHARM
4	SATHIYANARAYANAN M	SEM-V	B.PHARM
5	SHIVA G	SEM-V	B.PHARM
6	SHIVAGURU M	SEM-V	B.PHARM
7	SOWMIYA J	SEM-V	B.PHARM
8	SRINITHI N	SEM-V	B.PHARM
9	SURENDHAR J	SEM-V	B.PHARM
10	SURYSUGANTHAN D	SEM-V	B.PHARM
11	SUSIENDRAN CHANDRAN	SEM-V	B.PHARM
12	TAMILAMUTHAN S J	SEM-V	B.PHARM
13	THARAKESH S	SEM-V	B.PHARM
14	THARUN R	SEM-V	B.PHARM
15	THIRUMURUGAN D	SEM-V	B.PHARM
16	UDHAYAKUMAR S	SEM-V	B.PHARM
17	VAISHNAVI V	SEM-V	B.PHARM
18	VARUNKUMAR S	SEM-V	B.PHARM
19	VEERAYUVARAJ P	SEM-V	B.PHARM
20	VENKATESH G	SEM-V	B.PHARM
21	VENKATESH S	SEM-V	B.PHARM
22	VIGNESH K	SEM-V	B.PHARM
23	VIGNESH R	SEM-V	B.PHARM



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**ETHIRMEDU, KOMARAPALAYAM - 638 183,**  
**NAMAKKAL DISTRICT, TAMILNADU.**

24	VIGNESHWARAN R	SEM-V	B.PHARM
25	VIJAY R	SEM-V	B.PHARM
26	VISHWA S	SEM-V	B.PHARM
27	YASAR ARAFATH H	SEM-V	B.PHARM
28	ARULKUMAR G	SEM-V	B.PHARM
29	BALAMURUGAN S	SEM-V	B.PHARM
30	HEMAVARSHINY K	SEM-V	B.PHARM
31	KANNAN M	SEM-V	B.PHARM
32	KARTHIK K	SEM-V	B.PHARM
33	LOKESH R	SEM-V	B.PHARM
34	NAVEENKUMAR M	SEM-V	B.PHARM
35	PONNUVEL M	SEM-V	B.PHARM
36	PRABHU M	SEM-V	B.PHARM
37	SARAN R	SEM-V	B.PHARM
38	VELMURUGAN D	SEM-V	B.PHARM
39	JOSHUA GNANASEELAN B	SEM-VII	B.PHARM
40	SELVABALAGAN M	SEM-VII	B.PHARM
41	SHANMUGAVEL P	SEM-VII	B.PHARM
42	NANDHAKUMAR S	SEM-VII	B.PHARM



  
PRINCIPAL

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



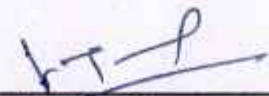
JKKMMRF's Annai JKK Sampoorani Ammal  
College of Pharmacy  
Komarapalayam-638183,Namakkal




DEPARTMENT OF PHARMACY PRACTICE  
One Day Workshop on  
Roles and responsibilities of Pharmacist in  
Medication Reconciliation  
This is to certify that

\_\_\_\_\_

has appreciated for his/her contribution as Delegate/Resource  
person/Organizing Committee Member in the One Day Workshop held on  
14 October 2022.

  
\_\_\_\_\_  
Organizing Secretary

  
\_\_\_\_\_  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

  
\_\_\_\_\_  
Convenor



JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

DATE: 14/11/2022

### DEPARTMENT OF PHARMACY PRACTICE

#### REPORT

### WORKSHOP TITLE - ROLES AND RESPONSIBILITIES OF PHARMACIST IN ANTIBIOTIC PROPHYLAXIS

VENUE: SEMINAR HALL

DATED: 10.11.2022– 11.11.2022

#### RESOURCE PERSONS:

**1.Dr. R.DILEEP.,PHARM.D**

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

**2. Dr.ATHIRA RAJKUMAR.,PHARM.D**


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

No. of students enrolled: 350

No. of students certified: 348

No. of students certified in our institution: 74

Antibiotic prophylaxis is defined as the administration of antibiotics before contamination by surgical incision has occurred and is given with the intention of preventing infection. Antibiotics are medicines used to prevent and treat bacterial infections. Antibiotic usage is increasing rapidly day by day with or without prescription. Irrational prescription usage, negligence of standard guidelines and antimicrobial resistance are increasing complexity in the therapy and the desired outcome. The aim of antibiotic prophylaxis in surgery is to prevent SSI whilst minimizing the collateral damage that occurs with all antibiotic use.

  
PROGRAMME  
CO ORDINATOR

  
HOD

  
PRINCIPAL

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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

REF.NO: JKKM/PH/WORKSHOP/REQ/2022/02

DATE: 07/11/2022

From

Department of Pharmacy Practice  
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 workshop regarding:-

Respected Sir,

We Are writing this letter to request permission to conduct a workshop in the Seminar hall for two days on 10/11/2022 & 11/11/2022. We wish to conduct the workshop on **Roles and Responsibilities of Pharmacist in Antibiotic Prophylaxis**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about Roles and Responsibilities of pharmacist in Antibiotic Prophylaxis that would help to shape the students.

Looking forward for your approval.

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.**

Yours sincerely,

Signature of HOD.





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

### WORKSHOP

### CIRCULAR

This is to inform all the students of our college that the workshop on Roles & Responsibilities of pharmacist In Antibiotic Prophylaxis for the academic year 2022 - 2023 will be commenced on 10.11.2022 and 11.11.2022 for all the batches. Hence request all the interested candidates to register for the workshop.

COURSE NAME	SCHEDULE	VENUE	RESOURCE PERSON
ROLES AND RESPONSIBILITIES OF PHARMACIST IN ANTIBIOTIC PROPHYLAXIS	10.11.2022 TO 11.11.2022	SEMINAR HALL	DR . DILEEP. R & DR .ATHIRA RAJKUMAR

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

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



Programme

*[Signature]*  
HOD

*[Signature]*  
Principal  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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## WORKSHOP

Roles & Responsibilities  
of pharmacist in  
"ANTIBIOTICS  
PROPHYLAXIS".

10/11/22 - 11/11/22

Venue: SEMINAR HALL  
Komarapalayam  
638 183

The workshop on Roles and Responsibilities Of Pharmacist In Antibiotic Prophylaxis was held on November 10th and 11th, 2022 at JKKMMRF's Annai Sampoorani Ammal College of Pharmacy. The workshop was organized by the Department of Pharmacy, and expecting maximum number of student participation. The purpose of the workshop was to provide attendees with an introduction to the basics of qualitative research and to introduce them to their rational usage of Antibiotics. At the end of the workshop, all attendees received a certificate of completion.

### Objectives.

The main objectives of the workshop were to:

- Introduce attendees to the principles and practices of Antibiotics
- Provide an overview of the different types of Antibiotics and its usages
- Introduce attendees to the Importance and Goals of antibiotic prophylaxis



JKKMMRF'S + ANNAI JKK  
SAMPOORANI AMMAL COLLEGE OF  
PHARMACY  
Komarapalayam, Nammakal  
Dist-638183

Dr. N.SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### ABOUT THE TOPIC

#### ANTIBIOTIC PROPHYLAXIS

Antibiotic prophylaxis is defined as the administration of antibiotics before contamination by surgical incision has occurred and is given with the intention of preventing infection. Antibiotics are medicines used to prevent and treat bacterial infections. Antibiotic usage is increasing rapidly day by day with or without prescription. Irrational prescription usage, negligence of standard guidelines and antimicrobial resistance are increasing complexity in the therapy and the desired outcome. The aim of antibiotic prophylaxis in surgery is to prevent SSI whilst minimizing the collateral damage that occurs with all antibiotic use.

#### Goals Of Antibiotic Prophylaxis

- Reduce The Incidence of surgical site Infection (SSI)
- Minimize the effect on the patients normal bacterial flora
- Minimize the adverse effects of antibiotics
- Minimize the emergence of antibiotics resistant strains of bacteria
- Cost effectiveness

#### Roles and Responsibilities Of Pharmacist In Antibiotic Prophylaxis

- According to an ASHP statement, a pharmacist involved in the ASP has responsibilities to **promote optimal antimicrobial use, to reduce the transmission of infections and to educate other healthcare professionals, patients, and the public.**
- Educating the pharmacy staff on the risks of antibiotic resistant and emphasis on their role in **helping to reduce the prevalence of resistance** is an essential issue. Pharmacists have to accept these challenges to ensure that antibiotics are used appropriately even during the self-medication.
- The addition of a dedicated antibiotic pharmacist to an active team has been shown to benefit patients by reducing medication errors and length of hospital stay ,encouraging oral medication, and ensuring appropriate drug choice.



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

## DEPARTMENT OF PHAREMACY PRACTICE

### WORKSHOP FEED BACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE :

NAME OF THE WORKSHOP:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A)BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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NAMAKKAL DISTRICT, TAMILNADU.



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

**Principal**

## WORKSHOP ON ROLES AND RESPONSIBILITIES OF PHARMACIST IN ANTIBIOTIC PROPHYLAXIS

### SEMINAR PHOTO



*Senthil Kumar*  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1	GURUPRASATTH S K	SEM-III	B.PHARM
2	HARI BHARATHI S	SEM-III	B.PHARM
3	HARIDHARSHINI M	SEM-III	B.PHARM
4	HEMA DIVYA R	SEM-III	B.PHARM
5	HIRUTHIKA S	SEM-III	B.PHARM
6	INDHUMATHI A	SEM-III	B.PHARM
7	ISAIMOZHI M	SEM-III	B.PHARM
8	IYYAPPAN M	SEM-III	B.PHARM
9	JAGATHISHVARAN P	SEM-III	B.PHARM
10	JEEVA N R	SEM-III	B.PHARM
11	JEEVADHARSHINI S	SEM-III	B.PHARM
12	KALAISELVAN S	SEM-III	B.PHARM
13	KANISHKUMAR P	SEM-III	B.PHARM
14	KARTHICK RAJU S	SEM-III	B.PHARM
15	KAVINKUMAR G	SEM-III	B.PHARM
16	KAVISELVAN R	SEM-III	B.PHARM
17	KAVYASRI S	SEM-III	B.PHARM
18	KIRUTHIGA T	SEM-III	B.PHARM
19	KOWSIHA S	SEM-III	B.PHARM
20	MADHAN KUMAR G	SEM-III	B.PHARM



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

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

21	MADHUMITHA K	SEM-III	B.PHARM
22	MANOJKUMAR M	SEM-III	B.PHARM
23	MEIVEL P	SEM-III	B.PHARM
24	MOHAN R	SEM-III	B.PHARM
25	NADHISH R	SEM-III	B.PHARM
26	NANDHINI N M	SEM-III	B.PHARM
27	NANDHINI R	SEM-III	B.PHARM
28	NAVEEN S	SEM-III	B.PHARM
29	NAVEEN KUMAR M	SEM-III	B.PHARM
30	NAVEENA K	SEM-III	B.PHARM
31	NEHAA K	SEM-III	B.PHARM
32	PABITHA K R	SEM-III	B.PHARM
33	POOVARASAN P	SEM-III	B.PHARM
34	PRAKASH S	SEM-III	B.PHARM
35	PRAVEEN G	SEM-III	B.PHARM
36	PRAVIN G K	SEM-III	B.PHARM
37	PREMKUMAR U	SEM-III	B.PHARM
38	PUGAZENDHI S	SEM-III	B.PHARM
39	PURUSOTHAMARAJ S	SEM-III	B.PHARM
40	PUVIYARASU R	SEM-III	B.PHARM
41	RAMKUTTI M	SEM-III	B.PHARM
42	RUTHCHRISTYKALA B	SEM-III	B.PHARM
43	SAESHANANDA G	SEM-III	B.PHARM
44	SAJITH Y	SEM-III	B.PHARM
45	SALEEM A	SEM-III	B.PHARM
46	SANJAI K	SEM-III	B.PHARM
47	SANTHOSH S R	SEM-III	B.PHARM
48	SANTHOSH S	SEM-III	B.PHARM
49	SETHUPATHY M	SEM-III	B.PHARM
50	SIVAPRAKASAM C	SEM-III	B.PHARM



Dr. N.SENTHILKUMAR,  
PRINCIPAL,

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NAMAKKAL DISTRICT, TAMILNADU.

51	SIVASURYA P	SEM-III	B.PHARM
52	SOUNDHIRARAJAN K	SEM-III	B.PHARM
53	SOWBARNICA S	SEM-III	B.PHARM
54	SOWMIKA M	SEM-III	B.PHARM
55	SRIRAM L	SEM-III	B.PHARM
56	SUDHARSANA R	SEM-III	B.PHARM
57	SURYA PRANESH V R	SEM-III	B.PHARM
58	TAMILSELVAN R	SEM-III	B.PHARM
59	THILAGAVATHI T	SEM-III	B.PHARM
60	THILAGAVATHY K	SEM-III	B.PHARM
61	VASANTHAKUMAR V	SEM-III	B.PHARM
62	VASUDEVAN V	SEM-III	B.PHARM
63	VELAN A R	SEM-III	B.PHARM
64	VELAN S	SEM-III	B.PHARM
65	VIGNESH S	SEM-III	B.PHARM
66	VINCI JULIET V	SEM-III	B.PHARM
67	VISHAL M	SEM-III	B.PHARM
68	VISHALI K	SEM-III	B.PHARM
69	YOGESH D	SEM-III	B.PHARM
70	ABDUR RAHMAN M	SEM-V	B.PHARM
71	ARAVINDHAN S	SEM-V	B.PHARM
72	ARIVAZHAGAN A	SEM-V	B.PHARM
73	ARULKUMAREN K K	SEM-V	B.PHARM
74	ARULPRAKASH A	SEM-V	B.PHARM



  
PRINCIPAL

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



# JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy


Komarapalayam-638183, Namakkal




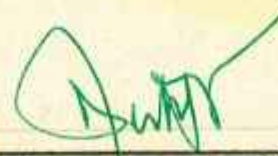
## DEPARTMENT OF PHARMACY PRACTICE Two Days Workshop on Roles and Responsibilities of Pharmacist in Antibiotic Prophylaxis

This is to certify that

\_\_\_\_\_ has appreciated for his/her contribution as Delegate/Resource person/Organizing Committee Member in the Two Days Workshop held on 10 & 11 November 2022.

  
\_\_\_\_\_  
Organizing Secretary

  
\_\_\_\_\_  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

  
\_\_\_\_\_  
Convenor



JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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NAMAKKAL DISTRICT, TAMILNADU.



# 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**

DATE :30/09/2022

### DEPARTMENT OF PHARMACOGNOSY

SEMINAR TITLE –AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS

VENUE: SEMINAR HALL DATED: 28/09/2022

### RESOURCE PERSON

Dr. C.S.Kandasamy., M.Pharm., Ph.D.  
Karpagham College of Pharmacy, Coimbatore

No. of students enrolled: 380

No. of students certified: 378

No. of students certified in our institution : 64

On Sep.28.2022, the Department of Pharmacognosy at JKKMMRF's Sampoorani Ammal College of Pharmacy held a seminar on Ayurveda and Intellectual Property Rights in the Seminar hall. The seminar was attended by 380 students and was certified by the college.

The seminar began with an introduction to Ayurveda and Intellectual Property Rights and its importance in Ayurvedic Formulations. The speaker discussed the different types of ayurvedic Formulations and its patenting procedures.

The speaker also covered the steps involved in Development of Herbal Formulations and Traditional Knowledge to Clinical Verification.

The students participated actively in the seminar, asking questions and engaging in discussions, received feedback from the speaker.

Overall, the seminar was well-received by the students and provided them with valuable knowledge and skills in enforcement of IP rights. The Department of Pharmacognosy at JKKMMRF's Sampoorani Ammal College of Pharmacy is committed to providing high-quality education and training to its students and plans to hold similar seminars in the future.

Programme  
Co-ordinator



HOD

Principal

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Principal**

### **REQUISITION LETTER**

REF.NO: JKKM/PH-COGNOSY /REQ/2022/002

Date: 26/09/2022

From

Department of Pharmacognosy,

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: Requesting Permission to conduct Seminar -regarding.

Respected Sir,

With due respect, we humbly request you to grand permission to conduct a Seminar in the Seminar Hall during **28/09/2022** on **Ayurveda and Intellectual Property Rights**. It will be a very informative course for our students.

Kindly do the needful. We will be grateful to you sir.

Thank you

Yours sincerely,

Signature of HOD



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Principal**

### **DEPARTMENT OF PHARMACOGNOSY**

#### **CIRCULAR (2022-23)**

This is inform to the Students that the following Seminar program can be conducted by the Department of Pharmacognosy, JKKMMRF's ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY and it will be commenced as per the schedule:

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS</b>	<b>28/09/2022</b>	<b>SEMINAR HALL</b>	<b>DR. C.S. KANDASAMY</b>

All the above mentioned students must enrol 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**

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



SEMINAR ON

**Ayurveda and Intellectual Property Rights**

Organised by

Department of Pharmacognosy

**RESOURCE PERSON**

**Dr. C.S.Kandasamy., M.Pharm., Ph.D.**  
Karpagham College of Pharmacy,  
Coimbatore

  
Organizing Secretary

**Dr. E. Thilagam**

  
Convenor

**Dr. N. Senthil Kumar**

**VENUE: SEMINAR HALL**

**(28/09/2022)**





**Dr. N. Senthil Kumar,**  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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### **DEPARTMENT OF PHARMACOGNOSY**

#### **ABOUT THE COURSE**

Growing awareness of Ayurvedic medicines and formulations has led to several conflicts with western pharmaceutical companies who are taking the lead from Ayurvedic medicines and patenting them in their own name. But as we are all aware that the intellects involved behind constructing this unique science is very much grass rooted in India and the country is responsible for producing the majority of Ayurvedic leads right from the traditional times. An overview of understanding the concept, rules, laws, regulations, present status, controlling authorities with emphasis on its statistical inference to understand the future challenges of Intellectual Property Rights and how to restore our scientific knowledge to promote ideas and make them acceptable without financial constraints. Evaluating and reviewing the terms, criteria's included in IPR. The outcome is pretty much predictable that we need rules, proper structured laws to protect our patents, our natural resources and for proper understanding of IPR courses conducted on it should be increased. Considering the statistical aspects the execution of IPR has decreased over the years due to lack of systematic indulgence in traditional system of medicine. The number of governing bodies included has expensive and strict vigilances that decrease the promotion of ideas from the mass people as they are very few governing bodies. A proper council easily understandable and approachable is of utmost importance.

World Intellectual Property Organization (WIPO) has been sensitive to these concerns. At a conference held in October 1998, under the aegis of the WIPO an agenda for the future of IPR in the field of traditional medicines was prepared, which prioritized activities in this area, namely, development of standards for the availability, scope and use of IPRs on traditional medicine in Asian countries, systematic documentation of traditional medicine for protection purposes, regional and inter-regional information exchange and compilation of the requisite databases, etc. This agenda needs to be moved forward

Ayurveda is the pioneer of medical science. Over the years the knowledge is being subsided due to lack of literature thus leading to improper understanding of the science. In recent years Ayurveda has provided miraculous lead compounds that has shown tremendous therapeutic efficacy with minimum side effects as possible. Thus to preserve, conserve and deliver this science to the world Intellectual Property Right must be maintained until the compounds are validated by experts dealing with it



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**Principal**

**SEMINAR ON - AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS**

**STUDENTS FEEDBACK ANALYSIS**

**DATE: 28/09/2022**

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	



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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	

**Total marks = 50**

  
**Head of the Department**



  
**Principal**

**Dr. N.SENTHILKUMAR,  
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### DEPARTMENT OF PHARMACOGNOSY

### SEMINAR ON - AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS

#### 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%



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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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

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

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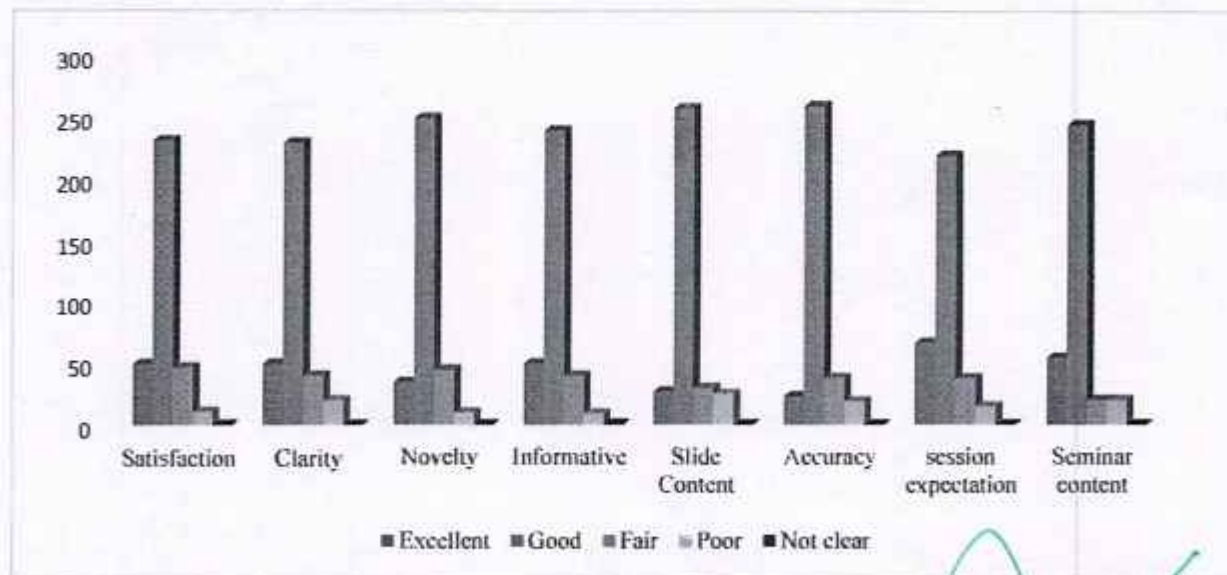
**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

DATE: 28/09/2022

**Principal**

### REPORT SUMMARY

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



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### **SEMINAR ON –AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS**

#### **SEMINAR PHOTO**



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**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	VASUDEVAN V	SEM-III	B.PHARM
2.	VELAN A R	SEM-III	B.PHARM
3.	VELAN S	SEM-III	B.PHARM
4.	VIGNESH S	SEM-III	B.PHARM
5.	VINCI JULIET V	SEM-III	B.PHARM
6.	VISHAL M	SEM-III	B.PHARM
7.	VISHALI K	SEM-III	B.PHARM
8.	YOGESH D	SEM-III	B.PHARM
9.	ABDUR RAHMAN M	SEM-V	B.PHARM
10.	ARAVINDHAN S	SEM-V	B.PHARM
11.	ARIVAZHAGAN A	SEM-V	B.PHARM
12.	ARULKUMAREN K K	SEM-V	B.PHARM
13.	ARULPRAKASH A	SEM-V	B.PHARM
14.	ARUN A	SEM-V	B.PHARM
15.	ASHA SANDHIYA A	SEM-V	B.PHARM
16.	ASHOKKUMAR P	SEM-V	B.PHARM
17.	AYYASAMY A	SEM-V	B.PHARM
18.	BALA S	SEM-V	B.PHARM
19.	BALAJI B	SEM-V	B.PHARM
20.	BERGIN G	SEM-V	B.PHARM
21.	BHARANIDHARAN S	SEM-V	B.PHARM
22.	BHARATHVAAJ S	SEM-V	B.PHARM
23.	BHUVANESHWARAN R	SEM-V	B.PHARM
24.	BOOPALAN S	SEM-V	B.PHARM
25.	CHANDEESH S	SEM-V	B.PHARM
26.	DEVANDHIRAN K	SEM-V	B.PHARM



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27.	DHANASEKAR U	SEM-V	B.PHARM
28.	DHANUSH S	SEM-V	B.PHARM
29.	DHAYANANTHAN V	SEM-V	B.PHARM
30.	DINESH K	SEM-V	B.PHARM
31.	DINESH M	SEM-V	B.PHARM
32.	DINESHKUMAR P	SEM-V	B.PHARM
33.	DIVYA P	SEM-V	B.PHARM
34.	GOKUL RAJ M	SEM-V	B.PHARM
35.	GOKULAKANNAN P	SEM-V	B.PHARM
36.	GOWTHAM J	SEM-V	B.PHARM
37.	GOWTHAMAN K	SEM-V	B.PHARM
38.	HARIHARAN K	SEM-V	B.PHARM
39.	HARISHRAGUL G	SEM-V	B.PHARM
40.	HARITHRA P S	SEM-V	B.PHARM
41.	HARIVARMAN P	SEM-V	B.PHARM
42.	HEMANATH N	SEM-V	B.PHARM
43.	HEMANTH KUMAR K	SEM-V	B.PHARM
44.	JAGAN P	SEM-V	B.PHARM
45.	JAGATHEEP P	SEM-V	B.PHARM
46.	JEEVA E	SEM-V	B.PHARM
47.	JEEVANANTH K	SEM-V	B.PHARM
48.	JEYAPRAKASH S	SEM-V	B.PHARM
49.	KAMALI A	SEM-V	B.PHARM
50.	KAMALI S D	SEM-V	B.PHARM
51.	KANNAPRAN M	SEM-V	B.PHARM
52.	KARTHICKRAJA S	SEM-V	B.PHARM
53.	KARTHIKEYAN M	SEM-V	B.PHARM
54.	KASSIPRASATH G	SEM-V	B.PHARM
55.	KESIYAMOL VARGEESH	SEM-V	B.PHARM
56.	KISHOREKUMAR M	SEM-V	B.PHARM
57.	KOUSALYA R	SEM-V	B.PHARM
58.	KUPENDRAN S	SEM-V	B.PHARM
59.	LINDA DINOLIN B A	SEM-V	B.PHARM
60.	LOGESH S	SEM-V	B.PHARM
61.	MANOJ K	SEM-V	B.PHARM
62.	MARIYA BENIT D	SEM-V	B.PHARM
63.	MATHAN RAJ R	SEM-V	B.PHARM
64.	MEGAVARSHINI V G	SEM-V	B.PHARM



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



**SEMINAR ON  
AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS**

Organised by  
Department of pharmacognosy

**CERTIFICATE OF PARTICIPATION**

***This is to certify that MR./MS./MRS \_\_\_\_\_  
has participated as Delegate/ Resource person in the Seminar on  
AYURVEDA AND INTELLECTUAL PROPERTY RIGHTS held on 28/09/2022***

**ORGANIZING SECRETARY**



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

**CONVENOR**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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Contact No : +919789456750, +919943066944, +919943069944.

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

**Principal**

**DATE: 10/10/2022**

### **DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### **REPORT**

**SEMINAR - IMPORTANCE OF IPR IN MODERN GLOBAL ECONOMIC ENVIRONMENT**

**VENUE: SEMINAR HALL**

**DATED: 7/10/22-8/10/22**

#### **RESOURCE PERSONS**

**DR.T. VENKATACHALAM, M. PHARM,PH.D**  
**JKKMMRFS ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

**MRS.B. ANBARASI, M. PHARM**  
**JKKMMRFS ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**  
**KOMARAPALAYAM**

**No. of students enrolled: 350**

**No. of students certified: 346**

**No. of students certified in our Institution: 65**

#### **Introduction**

Intellectual Property is that property that is developed by the human mind and by human intellect. Now intellectual property and rights attached to intellectual property are becoming very precious and valuable. In India, there are well-established administrative, statutory, and Judicial frameworks for protecting IPR. India has to comply with the Agreement on Trade-Related Intellectual Property Rights ("TRIPS") by enacting the necessary statutes. Intellectual Property rights deal with Trademark, Copyrights, Patents, and Geographical Indications of goods.

**PROGRAMME  
CO ORDINATOR**

**HOD**

**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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





# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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

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

Date: 17/07/2019

REF.NO: JKKM/PH/SEMINAR/REQ/2022

From

Department of Pharmaceutical Chemistry,  
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.

Respected Sir,

Subject: **Letter for requesting Permission to conduct seminar regarding: -**

We are writing this letter to request permission to conduct a seminar in the Seminar Hall for two days, on 7/10/22 & 8/10/22. We wish to conduct the seminar on **IMPORTANCE OF IPR IN MODERN GLOBAL ECONOMIC ENVIRONMENT**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **IMPORTANCE OF IPR IN MODERN GLOBAL ECONOMIC ENVIRONMENT** that would help to shape the students.

Looking forward for your approval.

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

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

#### CIRCULAR

This is to inform all the students of our college that the seminar on **IMPORTANCE OF IPR IN MODERN GLOBAL ECONOMIC ENVIRONMENT** for the academic year 2022-23 will be commenced on 7/10/22 & 8/10/22 for all the batches. Hence request all the interested candidates to register for the seminar.

COURSE NAME	SCHEDULE	VENUE	RESOURCE PERSON
SEMINAR ON IMPORTANCE OF IPR IN MODERN GLOBAL ECONOMIC ENVIRONMENT	7/10/22-8/10/22	SEMINAR HALL	DR.T. VENKATACHALAM & MRS.B. ANBARASI

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

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

Programme  
Co-ordinator

HOD

Principal

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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







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

**CONDUCTS SEMINAR ON**

**IMPORTANCE OF IPR IN MODERN  
GLOBAL ECONOMIC ENVIRONMENT**

**Date: 7& 8 OCTOBER 2022**

**VENUE: SEMINAR HALL**

**RESOURCE PERSON: Dr. T. VENTKATACHALAM, M. Pharm., Ph. D.,**

**Professor,**

**Department of Pharmaceutical Chemistry,**

**JKKMMRF's Annai JKK Sampoorani Ammal college of Pharmacy**

**&**

**Mrs. B. ANBARASI, M. Pharm.,**

**Associate Professor,**

**Department of Pharmaceutical Chemistry.**

**JKKMMRF's Annai JKK Sampoorani Ammal college of Pharmacy**



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Principal**

### **ABOUT THE TOPIC**

### **IMPORTANCE OF IPR IN MODERN GLOIBAL ECONOMIC ENVIRONMENT**

#### **Introduction**

Intellectual Property is that property that is developed by the human mind and by human intellect. Now intellectual property and rights attached to intellectual property are becoming very precious and valuable. In India, there are well-established administrative, statutory, and Judicial frameworks for protecting IPR. India has to comply with the Agreement on Trade-Related Intellectual Property Rights ("TRIPS") by enacting the necessary statutes. Intellectual Property rights deal with Trademark, Copyrights, Patents, and Geographical Indications of goods.

#### **The Connection between Intellectual Property and Economy**

The role of Intellectual property in the economy are:

- To provide exclusive rights to the and to protect the interest of the creator and encourage investment in research and information creation;
- Forbid the competitors or anybody from exploiting or misuse the property without the permission of the creator; and
- To create a market for that invention so that it could be given to good use and will motivate others to innovation and creation.

#### **Positive Impact of Intellectual Property Rights in Economy**

A country like India which is one of the most developing economies in the world must focus on raising productivity in the market. India has always been known for outstanding services to the rest of the world. One can increase productivity by improving technology and method. Innovation needs investments, it required a great amount of investment, these are expensive but have an important role in investment. We can see and learn from developed countries like the USA and Japan in which the rate of development increased by 5 times after the implementation of Intellectual property laws.



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

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**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### STUDENT FEEDBACK FORM

NAME OF STUDENT:

COURSE:

SEMINAR TOPIC:

REGISTRATION NO:

YEAR & SEMESTER:

DATE & TIME:

- Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
- How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
- What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
- How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE SEMINAR:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SETHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### STUDENTS FEEDBACK ANALYSIS

DATE: 08/10/2022

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	



  
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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	

**Total marks = 50**

  
**Head of the Department**

  
**Principal**



**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

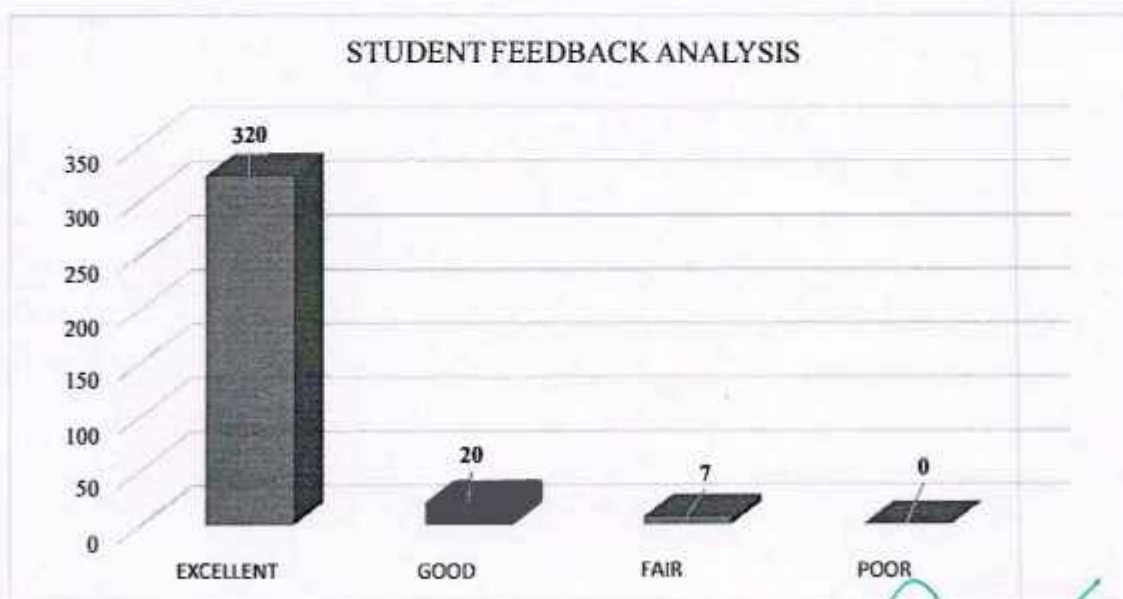
**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

**REPORT SUMMARY**

**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



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

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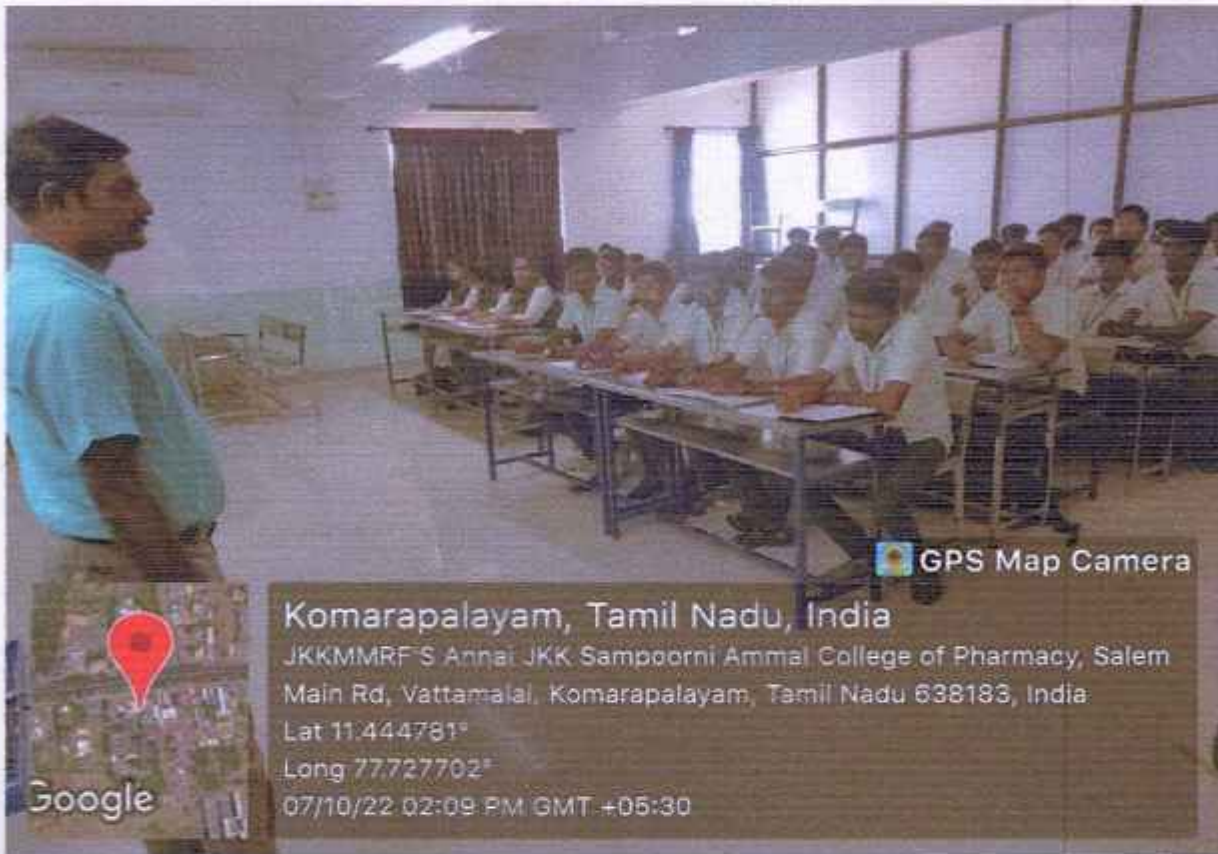
**Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) / E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)**


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**Principal**

### **SEMINAR ON IMPORTANCE OF IPR IN MODERN GLOBAL ECONOMIC ENVIRONMENT**

#### **SEMINAR PHOTO**



  
**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**  
**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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Dr. N. Senthilkumar, M.Pharm, B.Ph  
Principal

### PARTICIPANTS LIST

S.NO	NAME	YEAR	COURSE
1.	ANANTHAKUMAR R	SEM-IV	M.PHARM (PHARMACEUTICS)
2.	DEVANANDH D	SEM-IV	M.PHARM (PHARMACEUTICS)
3.	GOKUL L	SEM-IV	M.PHARM (PHARMACEUTICS)
4.	GOWTHAM K	SEM-IV	M.PHARM (PHARMACEUTICS)
5.	GOWTHAMAN T	SEM-IV	M.PHARM (PHARMACEUTICS)
6.	KALPANA P	SEM-IV	M.PHARM (PHARMACEUTICS)
7.	KAVYA S	SEM-IV	M.PHARM (PHARMACEUTICS)
8.	KAYATHRI DEVI K	SEM-IV	M.PHARM (PHARMACEUTICS)
9.	KIRUBHA HARI C	SEM-IV	M.PHARM (PHARMACEUTICS)
10.	PANTHALARASA S	SEM-IV	M.PHARM (PHARMACEUTICS)
11.	RASHEENA M	SEM-IV	M.PHARM (PHARMACEUTICS)
12.	SARATHKUMAR S	SEM-IV	M.PHARM (PHARMACEUTICS)
13.	SRINIVASAN K	SEM-IV	M.PHARM (PHARMACEUTICS)
14.	UMARMUKDAR A	SEM-IV	M.PHARM (PHARMACEUTICS)
15.	ARATHY P NAIR	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)



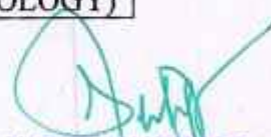
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## PARTICIPANTS LIST

16.	EZHILARASAN S	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
17.	GOKUL T	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
18.	RAGAVI P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
19.	REVATHI J	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
20.	SOMASUNDARAM P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
21.	STELLAMARY D	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
22.	SUGANTHI P	SEM-IV	M.PHARM (PHARMACEUTICAL CHEMISTRY)
23.	AJITHKUMAR B	SEM-IV	M.PHARM (PHARMACOLOGY)
24.	AKASH RAJ K	SEM-IV	M.PHARM (PHARMACOLOGY)
25.	DIVYA SHALINI B	SEM-IV	M.PHARM (PHARMACOLOGY)
26.	GANESH S	SEM-IV	M.PHARM (PHARMACOLOGY)
27.	HEMAMALINI B	SEM-IV	M.PHARM (PHARMACOLOGY)
28.	KAMAL G	SEM-IV	M.PHARM (PHARMACOLOGY)
29.	KAMALAKANNAN M	SEM-IV	M.PHARM (PHARMACOLOGY)
30.	KARTHIKA RAMESH	SEM-IV	M.PHARM (PHARMACOLOGY)
31.	KRISHNAN R	SEM-IV	M.PHARM (PHARMACOLOGY)
32.	LATHA S	SEM-IV	M.PHARM (PHARMACOLOGY)
33.	MANIKANDAN K	SEM-IV	M.PHARM (PHARMACOLOGY)




  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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NAMAKKAL DISTRICT, TAMILNADU, INDIA.


## PARTICIPANTS LIST

54.	MANISHA M	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
55.	PAVITHRA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
56.	PRIYANKA V	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
57.	SANTHANAKRISHNAN K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
58.	SOJARNA K	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
59.	SUBHASHINI D	SEM-II	M.PHARM (PHARMACEUTICAL CHEMISTRY)
60	SAKTHIPRIYA P	I-YEAR	PHARM D
61	SUDESH G	I-YEAR	PHARM D
62	SWADESHI O S	I-YEAR	PHARM D
63	THIRUNAVUKARASU M	I-YEAR	PHARM D
64	VIGNESH R	I-YEAR	PHARM D
65	YOGESH WARAN M	I-YEAR	PHARM D



  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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



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

**Certificate of Participation**

**This certificate is proudly awarded to**

***HAS PARTICIPATED AS A DELEGATE IN THE SEMINAR TITLED ON "IMPORTANCE OF IPR IN  
MODERN GLOBAL ECONOMIC ENVIRONMENT" IN THE JKKMMRF'S ANNAI JKK  
SAMPOORANI AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM ON 7.10.2022 &  
8.10.2022.***



**COORDINATOR**



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

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



**PRINCIPAL**





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

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

**DATE: 27/02/2023**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

**REPORT**

**SEMINAR TITLE - INTELLECTUAL PROPERTY RIGHTS, PATENTS AND DESIGN FILLING**

**VENUE: SEMINAR HALL**

**DATED: 25/02/2023**

**RESOURCE PERSON:**

**Dr. P. KALAISELVI, M. PHARM, Ph.D.**  
**JKKMMRFS ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**  
**KOMARAPALAYAM**

**No. of students enrolled: 350**

**No. of students certified: 350**

**No. of students certified in our institution: 52**

**PROGRAMME  
CO ORDINATOR**

**HOD**

**PRINCIPAL**



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

**Principal**

Date: 21/02/2023

REF.NO: JKKM/PH/WORKSHOP/REQ/2022/07

From

Department of Pharmaceutical Chemistry,  
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.

Respected Sir,

Subject: **Letter for requesting Permission to conduct seminar regarding: -**

We are writing this letter to request permission to conduct a seminar in the Seminar Hall on 25/02/2023. We wish to conduct the seminar on **INTELLECTUAL PROPERTY RIGHTS, PATENTS AND DESIGN FILLING**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **INTELLECTUAL PROPERTY RIGHTS, PATENTS AND DESIGN FILLING** that would help to shape the students.

Looking forward for your approval.

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

**Principal**

### **CIRCULAR**

This is to inform all the students of our college that the seminar on **INTELLECTUAL PROPERTY RIGHTS, PATENTS AND DESIGN FILLING** for the academic year 2022-23 will be commenced on 25/02/2023 for all the batches. Hence request all the interested candidates to register for the seminar.

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>INTELLECTUAL PROPERTY RIGHTS, PATENTS AND DESIGN FILLING</b>	<b>25/02/2023</b>	<b>SEMINAR HALL</b>	<b>DR.P.KALAISELVI</b>

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

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

**PROGRAMME  
CO-ORDINATOR**

**HOD**

**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.**







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

**CONDUCTS**

**SEMINAR ON**


**INTELLECTUAL PROPERTY RIGHTS  
(IPR) PATENTS & DESIGN FILING**

**Date: 25 FEBRUARY 2023**

**VENUE: SEMINAR HALL**

**RESOURCE PERSON: Dr. P. KALAISELVI, M. Pharm., Ph. D.,  
Associate Professor,  
Department of Pharmaceutical Analysis,  
JKKMMRF's Annai JKK Sampoorani Ammal College  
of Pharmacy.**



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### **ABOUT THE TOPIC**

#### **INTELLECTUAL PROPERTY RIGHTS, PATENTS AND DESIGN FILLING**

##### **Patent Rules for Intellectual Property Rights (IPRs) Cell**

Centre for Industry Institution Partnership Programme (CIIPP) has been striving to act as a podium for development and transfer of Technical and Managerial competence in the area of research and academics to meet the changing needs of the corporate sector and society at large. initiative in this direction has created Intellectual Property Rights Cell (IPR Cell) in collaboration with National and State patent agencies. IPR Cell will provide information, orientation and facilities to faculties, scientists and research students and of BBAU for protecting the products of their intellectual capabilities. The Cell would also be able to guide and advise researchers on how to obtain and sustain patents, facilitate routing of patent searches to National and State patent agencies and university and getting the necessary clearances from the competent authorities in the university while filing provisional/complete patent specifications. This Cell would also workout various modalities on behalf of the University for Technology transfer/ commercialization of patented technologies.

##### **Objective and Activities of the Patent Cell**

1. To provide IPRs protection information, orientation and facilities to university researchers & scientists.
2. To guide and advise researchers on how to obtain and sustain patents and help them to approach National and State patent agencies.
3. To work as a link between National and State patent agencies and university.
4. To facilitate routing of patent searchers to National and State patent agencies.
5. To get necessary clearances from competent authorities while filing patents and other IPRs like copyright registration and design registration, etc. through National and State patent agencies.
6. To workout modalities on behalf of the universities for commercialization of patented technologies.
7. To organize various IPR awareness programmes in collaboration with National and State patent agencies, in its campus.
8. CIIPP/University will provide the financial support, if needed by the faculty, for preparation and submission of the patent application after a preliminary scrutiny.

##### **Patent Registration**

Patent registration in India can be obtained for any invention relating to a product or process that is new, involving inventive step and capable of industrial application. The following items cannot be patented, as they are not considered as inventions under the Patent Act, 1970:

Application for patent registration must be made to the Indian Patent Office in the prescribed format. A patent application can be filed either by true and first inventor or his assignee, either alone or jointly with any other person. It is important to remember that the application for patent should be filed before the publication of the invention and till then it should not be disclosed or published.



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

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

**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE SEMINAR:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

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

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

**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### STUDENT FEEDBACK FORM

NAME OF STUDENT:

REGISTRATION NO:

COURSE:

YEAR & SEMESTER:

SEMINAR TOPIC:

DATE & TIME:

- Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
- How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
- What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
- How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



**Dr. N.SETHILKUMAR,**  
PRINCIPAL

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

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  
 Not at all clear
10. How would you rate the content of the seminar?
- 1  
 2  
 3  
 4  
 5



Student Name with Signature

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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**Principal**

### STUDENTS FEEDBACK ANALYSIS

DATE: 25/02/2023

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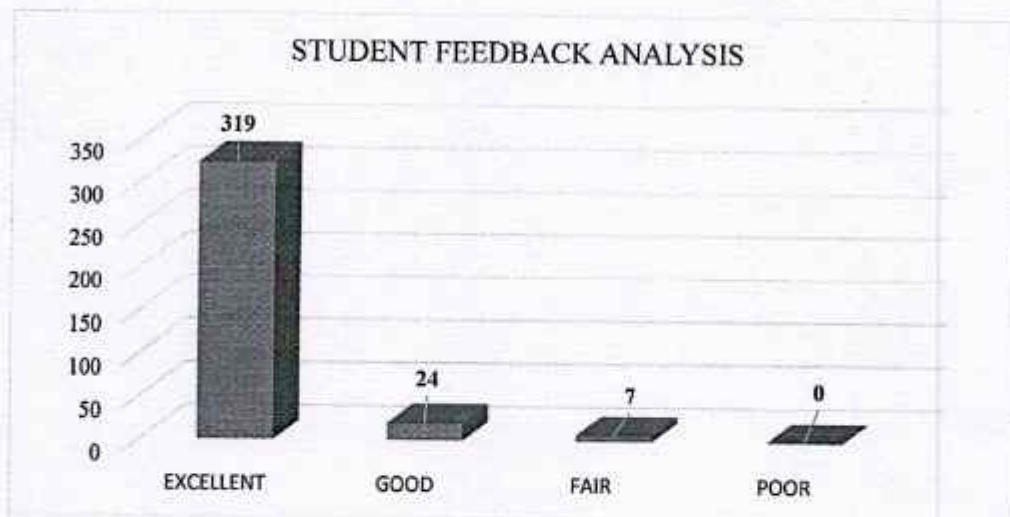
**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

## REPORT SUMMARY

### 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



*(Signature)*  
**Dr. N.SENTHILKUMAR,**  
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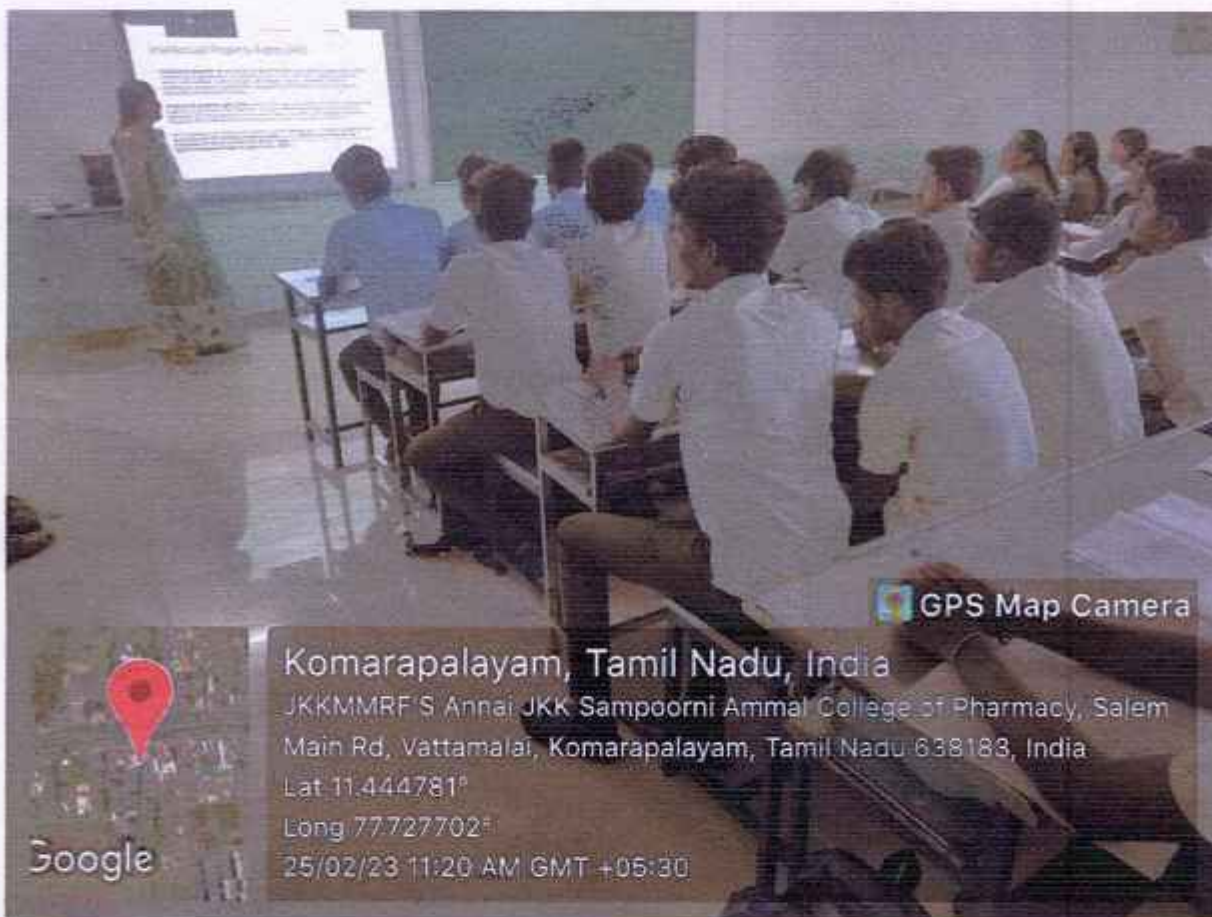
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**Principal**

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**Principal**

### PARTICIPANTS LIST

S.NO	NAME	YEAR	COURSE
1.	ABDUR RAHMAN M	SEM-V	B.PHARM
2.	ARAVINDHAN S	SEM-V	B.PHARM
3.	ARIVAZHAGAN A	SEM-V	B.PHARM
4.	ARULKUMAREN K K	SEM-V	B.PHARM
5.	ARULPRAKASH A	SEM-V	B.PHARM
6.	ARUN A	SEM-V	B.PHARM
7.	ASHA SANDHIYA A	SEM-V	B.PHARM
8.	ASHOKKUMAR P	SEM-V	B.PHARM
9.	AYYASAMY A	SEM-V	B.PHARM
10.	BALA S	SEM-V	B.PHARM
11.	BALAJI B	SEM-V	B.PHARM
12.	BERGIN G	SEM-V	B.PHARM
13.	BHARANIDHARAN S	SEM-V	B.PHARM
14.	BHARATHVAAJ S	SEM-V	B.PHARM
15.	BHUVANESHWARAN R	SEM-V	B.PHARM
16.	BOOPALAN S	SEM-V	B.PHARM
17.	CHANDEESH S	SEM-V	B.PHARM
18.	DEVANDHIRAN K	SEM-V	B.PHARM
19.	DHANASEKAR U	SEM-V	B.PHARM
20.	DHANUSH S	SEM-V	B.PHARM
21.	DHAYANANTHAN V	SEM-V	B.PHARM
22.	DINESH K	SEM-V	B.PHARM
23.	DINESH M	SEM-V	B.PHARM
24.	DINESHKUMAR P	SEM-V	B.PHARM
25.	DIVYA P	SEM-V	B.PHARM
26.	GOKUL RAJ M	SEM-V	B.PHARM
27.	GOKULAKANNAN P	SEM-V	B.PHARM
28.	GOWTHAM J	SEM-V	B.PHARM
29.	GOWTHAMAN K	SEM-V	B.PHARM



**Dr. N.SENTHILKUMAR,**  
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30.	HARIHARAN K	SEM-V	B.PHARM
31.	HARISHRAGUL G	SEM-V	B.PHARM
32.	HARITHRA P S	SEM-V	B.PHARM
33.	HARIVARMAN P	SEM-V	B.PHARM
34.	HEMANATH N	SEM-V	B.PHARM
35.	HEMANTH KUMAR K	SEM-V	B.PHARM
36.	JAGAN P	SEM-V	B.PHARM
37.	JAGATHEEP P	SEM-V	B.PHARM
38.	JEEVA E	SEM-V	B.PHARM
39.	JEEVANANTH K	SEM-V	B.PHARM
40.	JEYAPRAKASH S	SEM-V	B.PHARM
41.	KAMALI A	SEM-V	B.PHARM
42.	KAMALI S D	SEM-V	B.PHARM
43.	KANNAPRAN M	SEM-V	B.PHARM
44.	KARTHICKRAJA S	SEM-V	B.PHARM
45.	KARTHIKEYAN M	SEM-V	B.PHARM
46.	KASSIPRASATH G	SEM-V	B.PHARM
47.	KESIYAMOL VARGEESH	SEM-V	B.PHARM
48.	KISHOREKUMAR M	SEM-V	B.PHARM
49.	KOUSALYA R	SEM-V	B.PHARM
50.	KUPENDRAN S	SEM-V	B.PHARM
51.	LINDA DINOLIN B A	SEM-V	B.PHARM
52.	LOGESH S	SEM-V	B.PHARM



Dr. N.SENTHILKUMAR,  
PRINCIPAL

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



**JKKMURF'S ANNAI JKK SAMPOORANI  
ANNAL COLLEGE OF PHARMACY,  
KOMARAPALAYAM.**

**Certificate of Participation**

This certificate is proudly awarded to

**HAS PARTICIPATED AS A DELEGATE IN THE SEMINAR TITLED ON  
"INTELLECTUAL PROPERTY RIGHTS (IPR) PATENTS& DESIGN FILLING" IN  
THE JKKMURF'S ANNAI JKK SAMPOORANI ANNAL COLLEGE OF  
PHARMACY, KOMARAPALAYAM ON 25.02.2023.**

**COORDINATOR**

**Dr. N. SENTHIL KUMAR,**  
PRINCIPAL,

**PRINCIPAL**



JKK MURAJH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI ANNAL COLLEGE OF PHARMACY,  
ETIHERNEDI, KOMARAPALAYAM - 638 183,  
KOMARAPALAYAM 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.

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

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

**Principal**

DATE :01/09/2022

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### REPORT

SEMINAR TITLE - EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS

VENUE: SEMINAR HALL

DATED:30/08/2022

### RESOURCE PERSONS

*DR.N. SENTHILKUMAR., M. PHARM, PH.D*  
*PRINCIPAL*

*MR.R.VIJAY AMIRTHARAJ.,M.PHARM*  
*VICE PRINCIPAL*

*JKKMMRFS ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY*  
*KOMARAPALAYM.*

No. of students enrolled: 350

No. of students certified: 350

No. of students certified in our institution: 56

Patent rights is considered as an incentive for investment in innovative activities and the production of knowledge, allowing the enforcement of the full scope of the exclusive rights in all circumstances may not always meet the ultimate goal of the patent system to enhance the public welfare. Therefore, in order to strike the right balance between the interests of the right holders, third parties and the public, the scope of the enforceable exclusive rights may be set under national patent laws according to certain exceptions and limitations to patent rights that have been reserved for decision by individual countries.

PROGRAMME  
CO ORDINATOR

HOD

PRINCIPAL

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

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





# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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

**Principal**

Date: 25/08/2022

REF.NO: JKKM/PH/SEMINAR/REQ/2022/23

From

Department of Pharmaceutical Chemistry,  
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.

Respected Sir,

Subject: Letter for requesting Permission to Conduct seminar regarding: -

We Are writing this letter to request permission to conduct a seminar in the Seminar Hall for one day 30/08/2022. We wish to conduct the seminar on **EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS**. We believe that this will be a very informative session that many students will wish to attend.

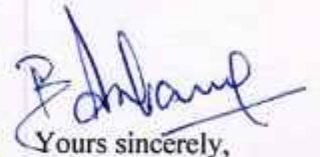
We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS** that would help to shape the students.

Looking forward for your approval.

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

**Principal**

### **DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

#### **CIRCULAR**

This is to inform all the students of our college that the seminar on EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS for the academic year 2022-23 will be commenced on 30/08/2022 for all the batches. Hence request all the interested candidates to register for the seminar.

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS</b>	<b>30/08/2022</b>	<b>SEMINAR HALL</b>	<b>DR.N.SETHILKUMAR</b> <b>MR.R.VIJAY</b> <b>AMIRTHARAJ</b>

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.**

  
**PROGRAMME  
CO-ORDINATOR**

  
**HOD**

  
**PRINCIPAL**

**Dr. N.SETHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**JKKMMRF'S ANNAI JKK SAMPOORANI  
AMMAL COLLEGE OF PHARMACY,  
KOMARAPALAYAM.**

**You are invited to a  
SEMINAR ON  
EXCEPTIONS AND LIMITATIONS OF  
PATENTS RIGHTS  
AUGUST 30 2022**

**VENUE : SEMINAR HALL**

**RESOURCE PERSONS: DR. N. SENTHIL KUMAR, M. PHARM., PH. D.,  
PRINCIPAL.**

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

**&**

**MR. R. VIJAY AMIRTHARAJ, M. PHARM., PH. D.,**

**VICE PRINCIPAL,**

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



**Dr. N. SENTHIL KUMAR,  
PRINCIPAL,**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### **ABOUT THE TOPIC**

#### **EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS**

Patent rights is considered as an incentive for investment in innovative activities and the production of knowledge, allowing the enforcement of the full scope of the exclusive rights in all circumstances may not always meet the ultimate goal of the patent system to enhance the public welfare. Therefore, in order to strike the right balance between the interests of the right holders, third parties and the public, the scope of the enforceable exclusive rights may be set under national patent laws according to certain exceptions and limitations to patent rights that have been reserved for decision by individual countries.

#### **Private and Non-commercial Use Exception**

The exclusive rights conferred by a patent do not allow private use or monopoly over commercial activity. If a patentee is neither using nor vending the invention for profit, the Government has the power to grant a license, known as Compulsory License (CL), to a third party to use the patented invention so as to restrict the rights of the patentee for the purpose of preventing the abuse/ misuse of the rights by the property holder and to prevent the negative effect of such action on the public.

#### **Experimental / Scientific Use Exception**

The experimental use exemption is incorporated under Section 47 of the Act. Under sub section 3 of the said section, the grant of a patent is subject to the condition that any product or process, in respect of which the patent is granted, may be made or used by any person for the purpose merely of experiment or research including the imparting of instructions to pupils.

#### **Regulatory-use/ Prior-use Exemption**

This exemption is also referred as Bolar Provision and is a statutorily created exemption to patent rights that allows the manufacturers of generic drugs to undertake steps reasonably related to the development and submission of information required for obtaining marketing approval anywhere in the world in respect of a patented product without the consent of the patentee. Some countries permit the generic drug manufacturers to use the technology of a patented drug to generate data and to demonstrate bioequivalence that would assist in the regulatory or marketing approval of the generic product, while the patent is still in force.

#### **Exhaustion of Patent Rights**

The *Doctrine of Exhaustion or First Sale Doctrine* refers to the exhaustion of the exclusive rights of the patent holder once the patented invention is sold without any restriction. As per this Doctrine, the first unrestricted sale of a patented item exhausts the patentee's further control over that particular



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

**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### STUDENT FEEDBACK FORM

NAME OF STUDENT:

COURSE:

SEMINAR TOPIC:

REGISTRATION NO:

YEAR & SEMESTER:

DATE & TIME:

- Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
- How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
- What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
- How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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

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
- Not at all clear

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

- 1
- 2
- 3
- 4
- 5



STUDENT NAME WITH SIGNATURE

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183,  
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Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,

Principal

### STUDENTS FEEDBACK ANALYSIS

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	
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	



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

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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**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE SEMINAR:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



**SIGNATURE**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

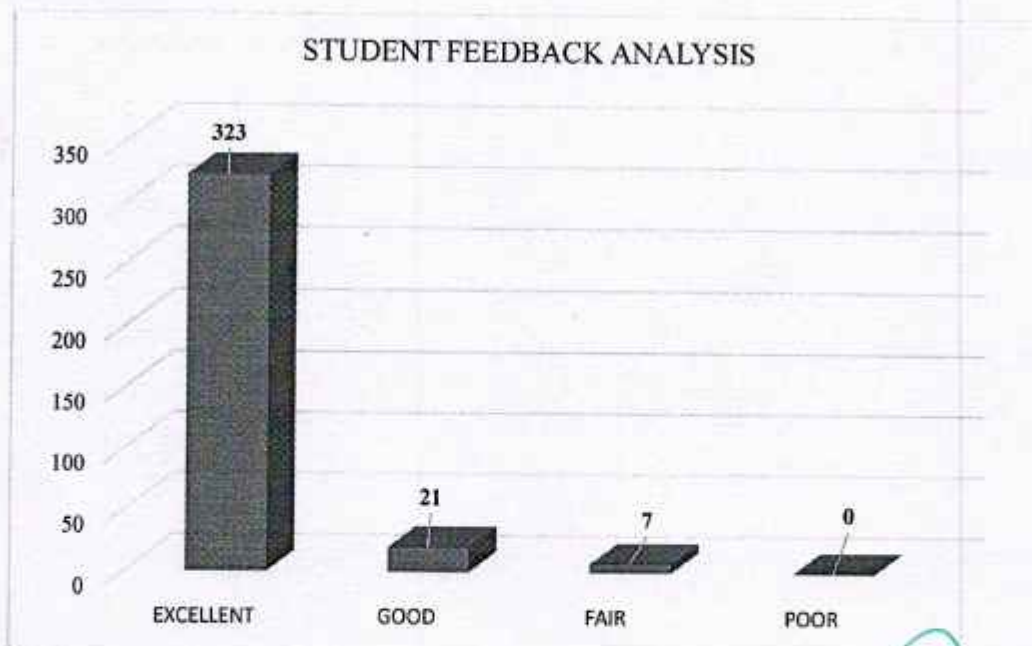
**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### REPORT SUMMARY

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 wasnew	8.Accuracy of the sessions
4.Informative	9.Session expectations
5.Technical issues	10.Rate the content of the seminar



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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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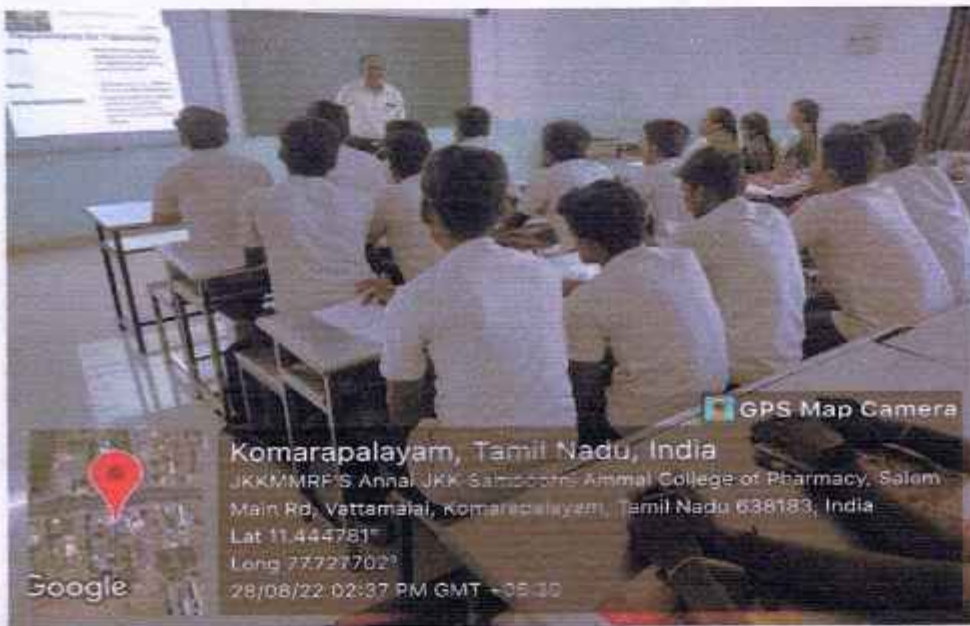
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

## SEMINAR ON EXCEPTIONS AND LIMITATIONS OF PATENT RIGHTS SEMINAR PHOTOS



**.SENTHILKUMAR,  
PRINCIPAL**

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

**Principal**

### PARTICIPANTS LIST

S.NO	NAME	YEAR	COURSE
1.	PALANISAMY P	SEM-I	B.PHARM
2.	PAVISH V	SEM-I	B.PHARM
3.	PRADHAP E	SEM-I	B.PHARM
4.	PRAGADEESWARAN S D	SEM-I	B.PHARM
5.	PRAVEEN K S	SEM-I	B.PHARM
6.	PREM L	SEM-I	B.PHARM
7.	PRITHA R	SEM-I	B.PHARM
8.	PRITHIKA M	SEM-I	B.PHARM
9.	PRIYADHARSHINI S	SEM-I	B.PHARM
10.	RAGAPRIYA R	SEM-I	B.PHARM
11.	RAHUL R	SEM-I	B.PHARM
12.	RAJESH N	SEM-I	B.PHARM
13.	RAMESH V	SEM-I	B.PHARM
14.	RANJITHKUMAR M	SEM-I	B.PHARM
15.	RASIKA R S	SEM-I	B.PHARM
16.	RITHIKA S	SEM-I	B.PHARM
17.	SACHIN G	SEM-I	B.PHARM
18.	SADAKHATH W	SEM-I	B.PHARM
19.	SANJAY KUMAR S	SEM-I	B.PHARM
20.	SANJAY M	SEM-I	B.PHARM
21.	SARATH P	SEM-I	B.PHARM
22.	SARATHYLINGAM S R	SEM-I	B.PHARM
23.	SARAVANAN K	SEM-I	B.PHARM
24.	SARAVANESH M	SEM-I	B.PHARM
25.	SARIGASRI K	SEM-I	B.PHARM
26.	SATHISH A	SEM-I	B.PHARM
27.	SEKAR G	SEM-I	B.PHARM
28.	SHEIK ABDULLA M	SEM-I	B.PHARM
29.	SHOMESHWARAN P	SEM-I	B.PHARM
30.	SIVANI C	SEM-I	B.PHARM



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

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



31	SRIRAM S	SEM-I	B.PHARM
32	SUBAN M	SEM-I	B.PHARM
33	SUBASH K	SEM-I	B.PHARM
34	SUJITH S	SEM-I	B.PHARM
35	SUNDARRAJ T	SEM-I	B.PHARM
36	SURESH C	SEM-I	B.PHARM
37	TAMILSELVAN M	SEM-I	B.PHARM
38	VAISHNAVI P	SEM-I	B.PHARM
39	VASANTH R	SEM-I	B.PHARM
40	VENKATESHWARI K	SEM-I	B.PHARM
41	VIGNESHWARAN K	SEM-I	B.PHARM
42	VIJAYANANTH A	SEM-I	B.PHARM
43	VISHNU KUMAR M	SEM-I	B.PHARM
44	YESWANTH V	SEM-I	B.PHARM
45	YUVARAJ C	SEM-I	B.PHARM
46	ARBITHA B	I-YEAR	PHARM D
47	BALRAJ P	I-YEAR	PHARM D
48	DANISHA T	I-YEAR	PHARM D
49	DHARANIKA S	I-YEAR	PHARM D
50	DELPHIN KINGSY	I-YEAR	PHARM D
51	GIRILIKESH R	I-YEAR	PHARM D
52	HARIHARAN D	I-YEAR	PHARM D
53	HARSINI T	I-YEAR	PHARM D
54	INFANT JOE SUBISHA A	I-YEAR	PHARM D
55	JAYESH P	I-YEAR	PHARM D
56	JOTHIPRAKASH A	I-YEAR	PHARM D



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




# JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

## CERTIFICATE OF PARTICIPATION

THE CERTIFICATE IS GIVEN TO

for the participation in the seminar titled on " EXCEPTIONS AND  
LIMITATIONS OF PATENT RIGHTS " at JKKMMRF'S ANNAI JKK SAMPOORANI  
AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM ON 30.08.2022.



  
COORDINATOR

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

  
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**

**Ethirmedi, B. Komarapalayam-638 183, Namakkal Dist. Tamilnadu,India.**

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

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

**Principal**

**DATE : 28/11/2022**

### **DEPARTMENT OF PHARMACOGNOSY**

**SEMINAR TITLE –HERBAL NANOPARTICLES: PATENT AND DESIGN FILING**

**VENUE: SEMINAR HALL      DATED: 26/11/2022**

**RESOURCE PERSON**

**Dr. V.R. Ravikumar., M.Pharm., Ph.D.**  
Erode College of Pharmacy, Erode.

**No. of students enrolled: 360**

**No. of students certified: 358**

**No. of students certified in our institution : 74**

On Nov.26.2022, the Department of Pharmacognosy at JKKMMRF's Sampoorani Ammal College of Pharmacy held a seminar on Herbal Nanoparticles: Patent and Design Filing in the Seminar hall. The seminar was attended by 360 students and was certified by the college.

The seminar began with an introduction to Herbal Nanoparticles: Patent and Design Filing and its importance in herbal formulations. The speaker discussed the different types of Natural Products based on Nanoparticles.

The speaker also covered the steps involved in Preparation methods for Herbal Nano Formulations like Nanosuspension, Nano fabrication, Hot Homogenization, etc.

The students participated actively in the seminar, asking questions and engaging in discussions, received feedback from the speaker.

Overall, the seminar was well-received by the students and provided them with valuable knowledge and skills in enforcement of IP rights. The Department of Pharmacognosy at JKKMMRF's Sampoorani Ammal College of Pharmacy is committed to providing high-quality education and training to its students and plans to hold similar seminars in the future.

  
**Programme  
Co-ordinator**

  
**HOD**

  
**Principal**



**Dr. N. SENTHILKUMAR,  
PRINCIPAL,**  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

### REQUISITION LETTER

REF.NO: JKKM/PH-COGNOSY /REQ/2022/002

Date: 22/11/2022

From

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

To

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


Subject: Requesting Permission to conduct Seminar -regarding.

Respected Sir,

With due respect, we humbly request you to grand permission to conduct a Seminar in the Seminar Hall during **26/11/2022** on **Herbal Nanoparticles: Patent and Design Filing**. It will be a very informative course for our students.

Kindly do the needful. We will be grateful to you sir.

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,

  
**Dr. E. Thilagam**

Signature of HOD





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

### **DEPARTMENT OF PHARMACOGNOSY**

#### **CIRCULAR(2022-23)**

This is inform to the Students that the following Seminar program can be conducted by the Department of Pharmacognosy, JKKMMRF's ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY and it will be commenced as per the schedule:

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>HERBAL NANOPARTICLES: PATENT AND DESIGN FILING</b>	<b>26/11/2022</b>	<b>SEMINAR HALL</b>	<b>DR. V.R. RAVIKUMAR.</b>

All the above mentioned students must enrol 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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**NAMAKKAL DISTRICT, TAMILNADU, INDIA.**



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



**SEMINAR ON**

**Herbal Nanoparticles - Patent and Design Filing**

**Organised by**

**Department of Pharmacognosy**

**RESOURCE PERSON**

**Dr. V.R. Ravikumar., M.Pharm., Ph.D.  
Erode College of Pharmacy, Erode**

  
**Organizing Secretary**


**Dr. E. Thilagam**

  
**Convenor**

**Dr. N. Senthil Kumar**

**VENUE: SEMINAR HALL  
(26/11/2022)**



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Dr.N. SETHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### **ABOUT THE COURSE**

Intellectual property rights (IPR) have been defined as ideas, inventions, and creative expressions based on which there is a public willingness to bestow the status of property. IPR provide certain exclusive rights to the inventors or creators of that property, in order to enable them to reap commercial benefits from their creative efforts or reputation. There are several types of intellectual property protection like patent, copyright, trademark, etc. Patent is a recognition for an invention, which satisfies the criteria of global novelty, non-obviousness, and industrial application. IPR is prerequisite for better identification, planning, commercialization, rendering, and thereby protection of invention or creativity. Each industry should evolve its own IPR policies, management style, strategies, and so on depending on its area of specialty. Pharmaceutical industry currently has an evolving IPR strategy requiring a better focus and approach in the coming era.

Competition in the global pharmaceutical industry is driven by scientific knowledge rather than manufacturing know-how and a company's success will be largely dependent on its R&D efforts. Therefore, investments in R&D in the drug industry are very high as a percentage of total sales; reports suggest that it could be as much as 15% of the sale. One of the key issues in this industry is the management of innovative risks while one strives to gain a competitive advantage over rival organizations. There is high cost attached to the risk of failure in pharmaceutical R&D with the development of potential medicines that are unable to meet the stringent safety standards, being terminated, sometimes after many years of investment. For those medicines that do clear development hurdles, it takes about 8-10 years from the date when the compound was first synthesized.

Different forms of IPR demand different treatment, handling, planning, and strategies and engagement of persons with different domain knowledge such as science, engineering, medicines, law, finance, marketing, and economics. Each industry should evolve its own IP policies, management style, strategies, etc. depending on its area of specialty. Pharmaceutical industry currently has an evolving IP strategy. Since there exists the increased possibility that some IPR are invalid, antitrust law, therefore, needs to step in to ensure that invalid rights are not being unlawfully asserted to establish and maintain illegitimate, albeit limited, monopolies within the pharmaceutical industry. Still many things remain to be resolved in this context.



**Dr. N.SETHILKUMAR,**  
**PRINCIPAL**

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

### DEPARTMENT OF PHARMACOLOGY

#### STUDENTS FEEDBACK ANALYSIS

DATE: 26/11/2022

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	



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



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 very 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,  
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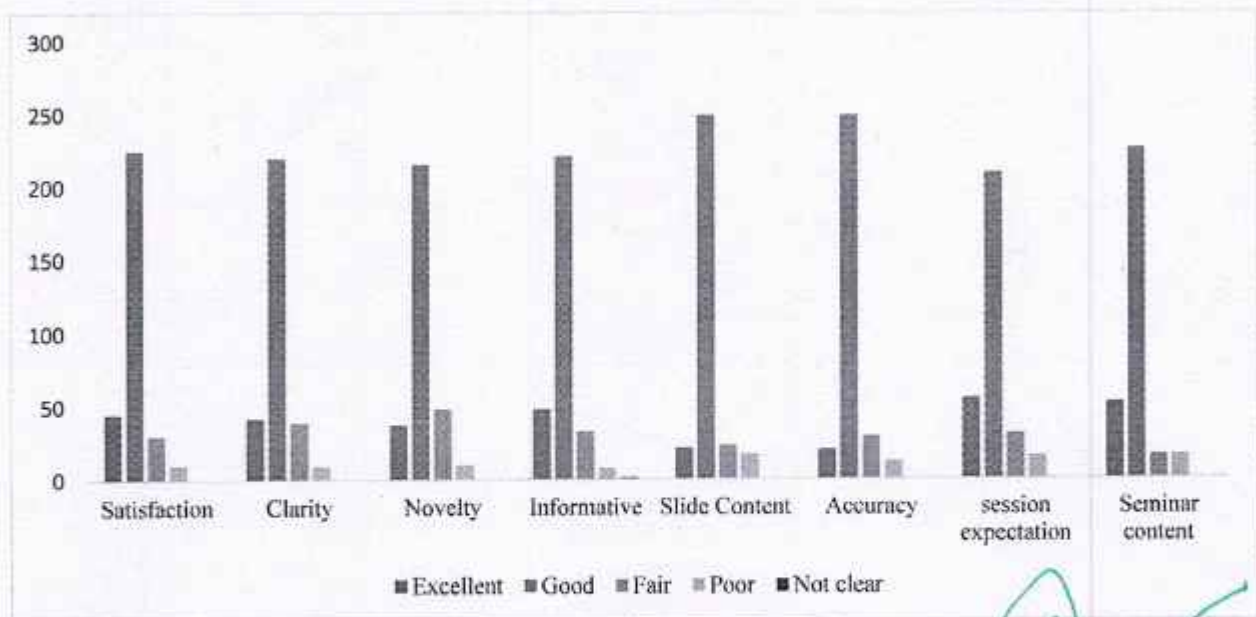
**Principal**

### DEPARTMENT OF PHARMACOGNOSY

#### REPORT SUMMARY

DATE: 29/10/2022

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



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**Principal**

**SEMINAR ON HERBAL NANOPARTICLES: PATENT AND DESIGN FILING**

**SEMINAR PHOTO**



GPS Map Camera

Komarapalayam, Tamil Nadu, India

JKKMMRF's Annai Jkk Sampoorani ammal College of  
Pharmacy, Komarapalayam

Lat 11.445344°

Long 77.730007°

26/11/22 11:38 AM GMT +05:30

Google



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**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	MEIYARASAN K	SEM-V	B.PHARM
2.	MOHAN M	SEM-V	B.PHARM
3.	MUGILARASU S	SEM-V	B.PHARM
4.	NANDHAKUMAR T	SEM-V	B.PHARM
5.	NAVEENKUMAR T	SEM-V	B.PHARM
6.	NAWIN S	SEM-V	B.PHARM
7.	NIDESHWAR G	SEM-V	B.PHARM
8.	PARAMESH K	SEM-V	B.PHARM
9.	POORNIMA D	SEM-V	B.PHARM
10.	PRABHAKARAN P	SEM-V	B.PHARM
11.	PRAKASH S R	SEM-V	B.PHARM
12.	PRIYADHARSHINI P	SEM-V	B.PHARM
13.	RAJESHKUMAR R	SEM-V	B.PHARM
14.	RANJITH R	SEM-V	B.PHARM
15.	SABARINATHAN M	SEM-V	B.PHARM
16.	SANTHOSH S	SEM-V	B.PHARM
17.	SARAN S	SEM-V	B.PHARM
18.	SARANYA S	SEM-V	B.PHARM
19.	SATHIYANARAYANAN M	SEM-V	B.PHARM
20.	SHIVA G	SEM-V	B.PHARM
21.	SHIVAGURU M	SEM-V	B.PHARM
22.	SOWMIYA J	SEM-V	B.PHARM
23.	SRINITHI N	SEM-V	B.PHARM
24.	SURENDHAR J	SEM-V	B.PHARM
25.	SURYASUGANTHAN D	SEM-V	B.PHARM
26.	SUSIENDRAN	SEM-V	B.PHARM



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27.	TAMILAMUTHAN S J	SEM-V	B.PHARM
28.	THARAKESH S	SEM-V	B.PHARM
29.	THARUN R	SEM-V	B.PHARM
30.	THIRUMURUGAN D	SEM-V	B.PHARM
31.	UDHAYAKUMAR S	SEM-V	B.PHARM
32.	VAISHNAVI V	SEM-V	B.PHARM
33.	VARUNKUMAR S	SEM-V	B.PHARM
34.	VEERAYUVARAJ P	SEM-V	B.PHARM
35.	VENKATESH G	SEM-V	B.PHARM
36.	VENKATESH S	SEM-V	B.PHARM
37.	VIGNESH K	SEM-V	B.PHARM
38.	VIGNESH R	SEM-V	B.PHARM
39.	VIGNESHWARAN R	SEM-V	B.PHARM
40.	VIJAY R	SEM-V	B.PHARM
41.	VISHWA S	SEM-V	B.PHARM
42.	YASAR ARAFATH H	SEM-V	B.PHARM
43.	ARULKUMAR G	SEM-V	B.PHARM
44.	BALAMURUGAN S	SEM-V	B.PHARM
45.	HEMAVARSHINY K	SEM-V	B.PHARM
46.	KANNAN M	SEM-V	B.PHARM
47.	KARTHIK K	SEM-V	B.PHARM
48.	LOKESH R	SEM-V	B.PHARM
49.	NAVEENKUMAR M	SEM-V	B.PHARM
50.	PONNUVEL M	SEM-V	B.PHARM
51.	PRABHU M	SEM-V	B.PHARM
52.	SARAN R	SEM-V	B.PHARM
53.	VELMURUGAN D	SEM-V	B.PHARM
54.	JOSHUA GNANASEELAN B	SEM-VII	B.PHARM
55.	SELVABALAGAN M	SEM-VII	B.PHARM
56.	SHANMUGAVEL P	SEM-VII	B.PHARM
57.	NANDHAKUMAR S	SEM-VII	B.PHARM
58.	AJITH KUMAR K	SEM-VII	B.PHARM
59.	ANAND M	SEM-VII	B.PHARM
60.	ANAND R	SEM-VII	B.PHARM
61.	ANBARASAN S	SEM-VII	B.PHARM
62.	ANUSHIYA D D	SEM-VII	B.PHARM
63.	ARUN M	SEM-VII	B.PHARM
64.	ARUNA P	SEM-VII	B.PHARM
65.	ASHOKMOHAN J	SEM-VII	B.PHARM
66.	ASLIN VENISKA V	SEM-VII	B.PHARM



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67	AVINKUMAR A	SEM-VII	B.PHARM
68	BALAGANAPATHI V	SEM-VII	B.PHARM
69	BHARANIDHARAN M	SEM-VII	B.PHARM
70	CHITRA S	SEM-VII	B.PHARM
71	DEEPA S	SEM-VII	B.PHARM
72	DEEPIKA A	SEM-VII	B.PHARM
73	DEEPIKA C	SEM-VII	B.PHARM
74	DHANABABU J	SEM-VII	B.PHARM



  
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PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 636 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.



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



SEMINAR ON

HERBAL NANOPARTICLES - PATENT AND DESIGN  
FILING

Organised by  
Department of pharmacognosy  
CERTIFICATE OF PARTICIPATION

This is to certify that MR./MS./MRS \_\_\_\_\_

has participated as Delegate/ Resource person in the Seminar on HERBAL  
NANOPARTICLES - PATENT AND DESIGN FILING held on 26/11/2022

ORGANIZING SECRETARY

Dr. N.SENTHILKUMAR,  
PRINCIPAL,

CONVENOR



JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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# **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 / E-Mail : principal@jkkmmrfpharmacy.edu.in**

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

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

**Principal**

**DATE:31/10/2022**

### **DEPARTMENT OF PHARMACOGNOSY** **REPORT**

**SEMINAR ON –INTELLECTUAL PROPERTY RIGHTS – AN OVERVIEW AND  
IMPLICATION IN HERBAL INDUSTRY**

**VENUE: SEMINAR HALL**

**DATED: 29/10/2022**

#### **RESOURCE PERSON**

**DR. S.THENMOZHI, M.PHARM., PH.D.**  
**VELLALAR COLLEGE OF PHARMACY, ERODE**

**No. of students enrolled: 352**

**No. of students certified: 351**

**No. of students certified in our institution : 74**

On Oct.29.2022, the Department of Pharmacognosy at JKKMMRF's SampooraniAmmal College of Pharmacy held a seminar on Intellectual Property Rights – An Overview and Implication in Herbal Industry in the Seminar hall. The seminar was attended by 352 students and was certified by the college.

The seminar began with an introduction to Intellectual Property Rights – An Overview and Implication in Herbal Industry and its importance in herbal industry. The speaker discussed the various procedures and protocols regarding IPR on Herbal Industry. The speaker also covered the steps involved in implication of patenting procedures regarding novel herbal formulations and its manufacturing procedures. The students participated actively in the seminar, asking questions and engaging in discussions, received feedback from the speaker.

Overall, the seminar was well-received by the students and provided them with valuable knowledge and skills in enforcement of IP rights. The Department of Pharmacognosy at JKKMMRF's SampooraniAmmal College of Pharmacy is committed to providing high-quality education and training to its students and plans to hold similar seminars in the future.

  
**Programme  
Co-ordinator**

  
**HOD**

  
**Principal**



**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL,**  
**J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY,**  
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**Dr.N. SETHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### **REQUISITION LETTER**

REF.NO: JKKM/PH-COGNOSY /REQ/2022/002

Date: 24/10/2022

From

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

To

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

Subject: Requesting Permission to conduct Seminar -regarding.

Respected Sir,

With due respect, we humbly request you to grand permission to conduct a Seminar in the Seminar Hall during **29/10/2022** on **Intellectual Property Rights – An Overview and Implication in Herbal Industry**. It will be a very informative course for our students.

Kindly do the needful. We will be grateful to you sir.

Thank you

**Dr. N.SETHILKUMAR,  
PRINCIPAL**

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

Yours sincerely,

**Dr. E. Thilagam  
Signature of HOD**





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

**Principal**

### **DEPARTMENT OF PHARMACOGNOSY**

#### **CIRCULAR (2022-23)**

This is inform to the Students that the following Seminar program can be conducted by the Department of Pharmacognosy, JKKMMRF's ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY and it will be commenced as per the schedule:

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>INTELLECTUAL PROPERTY RIGHTS – AN OVERVIEW AND IMPLICATION IN HERBAL INDUSTRY</b>	<b>29/10/2022</b>	<b>SEMINAR HALL</b>	<b>DR. S.THENMOZHI.</b>

All the above mentioned students must enrol 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**

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



**SEMINAR ON**

**Intellectual Property Rights - An Overview and  
Implication in Herbal Industry**

Organised by

**Department of Pharmacognosy**

**RESOURCE PERSON**

**Dr. S. Thenmozhi., M.Pharm., Ph.D.**  
**Vellalar College of Pharmacy, Erode**

**Organising  
Secretary**

**Dr. E. Thilagam**

**Convenor**

**Dr. N. Senthil Kumar**



**VENUE: SEMINAR HALL  
(29/10/2022)**



**Dr. N. Senthil Kumar,**  
**Principal,**

**JKK Munirajah Medical Research Foundation  
Annai JKK Sampoorani Ammal College of Pharmacy,  
Ethirmedi, Komarapalayam - 638 183,  
Namakkal District, Tamilnadu.**



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### **DEPARTMENT OF PHARMACOGNOSY**

#### **ABOUT THE COURSE**

Intellectual property rights (IPR) have been defined as ideas, inventions, and creative expressions based on which there is a public willingness to bestow the status of property. IPR provide certain exclusive rights to the inventors or creators of that property, in order to enable them to reap commercial benefits from their creative efforts or reputation. There are several types of intellectual property protection like patent, copyright, trademark, etc. Patent is a recognition for an invention, which satisfies the criteria of global novelty, non-obviousness, and industrial application. IPR is prerequisite for better identification, planning, commercialization, rendering, and thereby protection of invention or creativity. Each industry should evolve its own IPR policies, management style, strategies, and so on depending on its area of specialty. Pharmaceutical industry currently has an evolving IPR strategy requiring a better focus and approach in the coming era.

Competition in the global pharmaceutical industry is driven by scientific knowledge rather than manufacturing know-how and a company's success will be largely dependent on its R&D efforts. There is high cost attached to the risk of failure in pharmaceutical R&D with the development of potential medicines that are unable to meet the stringent safety standards, being terminated, sometimes after many years of investment. For those medicines that do clear development hurdles, it takes about 8-10 years from the date when the compound was first synthesized.

Different forms of IPR demand different treatment, handling, planning, and strategies and engagement of persons with different domain knowledge such as science, engineering, medicines, law, finance, marketing, and economics. Each industry should evolve its own IP policies, management style, strategies, etc. depending on its area of specialty. Pharmaceutical industry currently has an evolving IP strategy. Since there exists the increased possibility that some IPR are invalid, antitrust law, therefore, needs to step in to ensure that invalid rights are not being unlawfully asserted to establish and maintain illegitimate, albeit limited, monopolies within the pharmaceutical industry. Still many things remain to be resolved in this context.



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

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**Principal**

### STUDENTS FEEDBACK ANALYSIS

**Seminar on - Intellectual Property Rights – An Overview and Implication in Herbal Industry**

**DATE: 29/10/2022**

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	



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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	

**Total marks = 50**

  
Head of the Department



  
Principal

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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**Principal**

### DEPARTMENT OF PHARMACOGNOSY

### SEMINAR ON - INTELLECTUAL PROPERTY RIGHTS – AN OVERVIEW AND IMPLICATION IN HERBAL INDUSTRY

#### 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%




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**NAMAKKAL DISTRICT, TAMILNADU, INDIA.**

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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

  
**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

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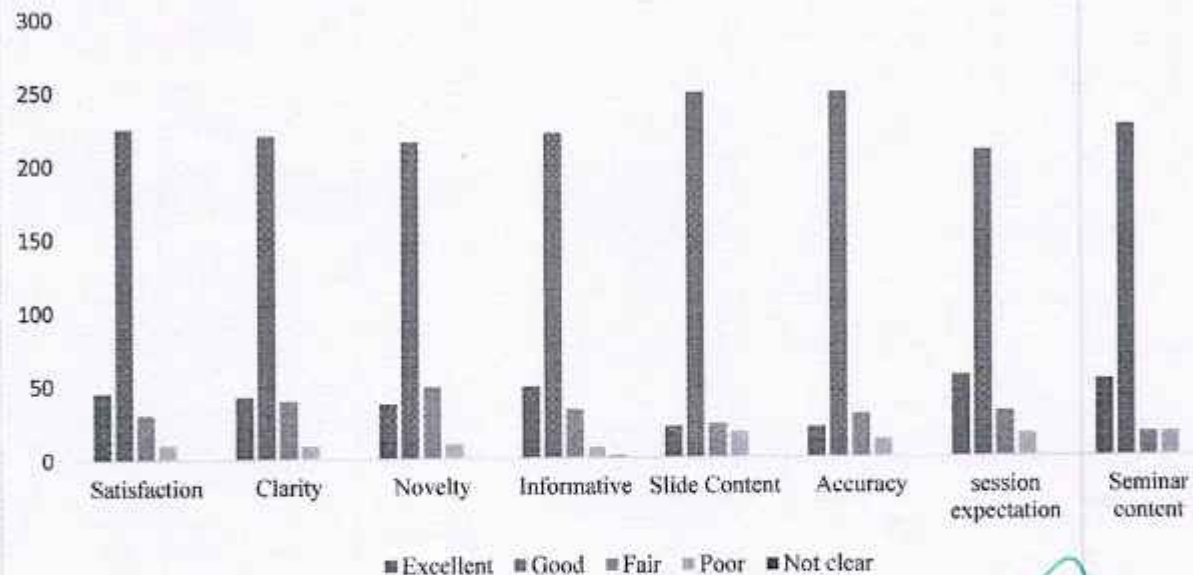
**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### REPORT SUMMARY

**DATE: 29/10/2022**

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



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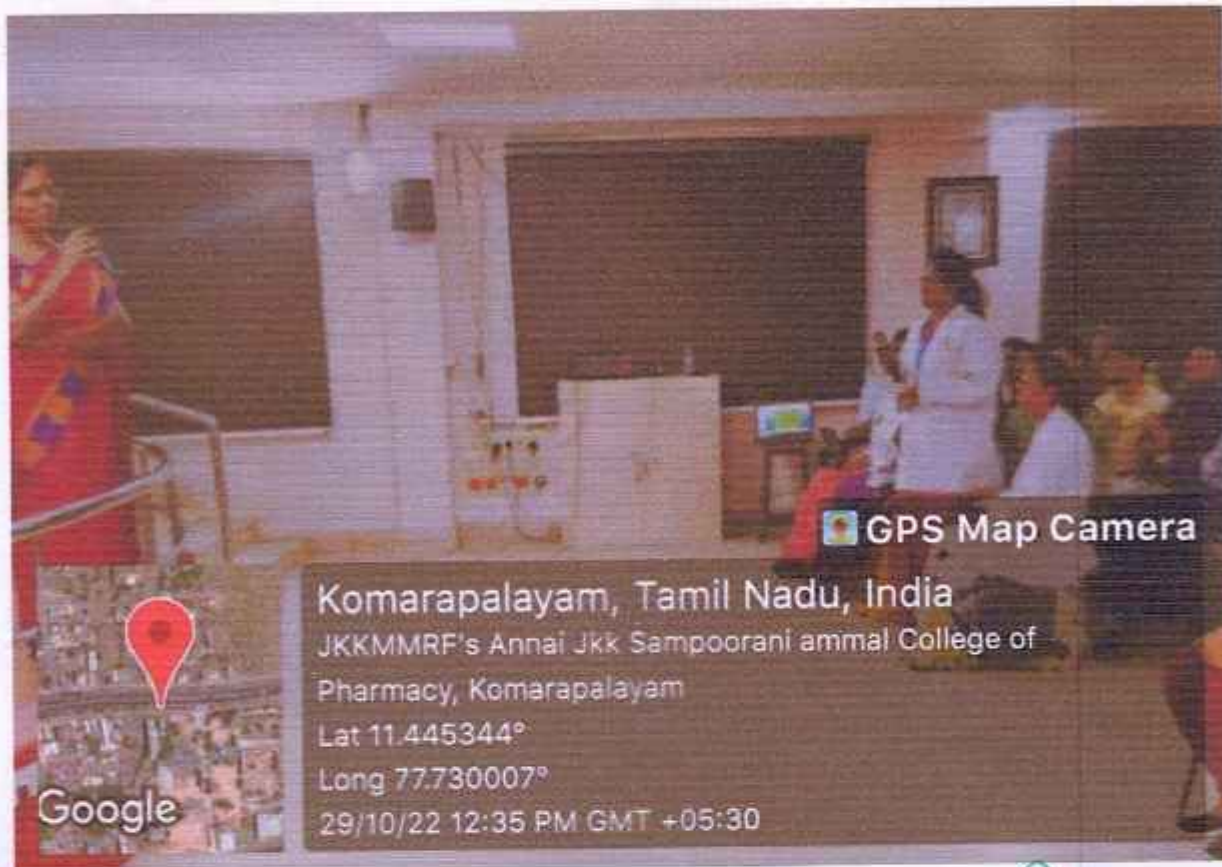
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**Principal**

**SEMINAR ON –INTELLECTUAL PROPERTY RIGHTS – AN OVERVIEW AND  
IMPLICATION IN HERBAL INDUSTRY**

**SEMINAR PHOTO**



**Dr. N.SENTHILKUMAR,**  
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**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1.	DINESH J	SEM-VII	B.PHARM
2.	GOKULKANNAN S K	SEM-VII	B.PHARM
3.	GOWRISHANKAR G	SEM-VII	B.PHARM
4.	GOWTHAM D	SEM-VII	B.PHARM
5.	GOWTHAMAN R	SEM-VII	B.PHARM
6.	GUNAL R	SEM-VII	B.PHARM
7.	GUNASEKAR K	SEM-VII	B.PHARM
8.	HARIKRISHNAN M	SEM-VII	B.PHARM
9.	JEEVANANTHAM S	SEM-VII	B.PHARM
10.	JEGANPATHY S	SEM-VII	B.PHARM
11.	KARTHI V	SEM-VII	B.PHARM
12.	KARTHICK M	SEM-VII	B.PHARM
13.	KARTHIKA M	SEM-VII	B.PHARM
14.	KAVIN P	SEM-VII	B.PHARM
15.	KAVINRAJ K	SEM-VII	B.PHARM
16.	KAVIPRASANTH S	SEM-VII	B.PHARM
17.	KEERTHIHARAN S	SEM-VII	B.PHARM
18.	KESAVAN K	SEM-VII	B.PHARM
19.	KUMARESAN M	SEM-VII	B.PHARM
20.	LOGANATHAN R	SEM-VII	B.PHARM
21.	LOGESH R	SEM-VII	B.PHARM
22.	MANIKAVASAGAM B	SEM-VII	B.PHARM
23.	MESHAPRIYA P M	SEM-VII	B.PHARM
24.	MOHAMED JAMSHEER B	SEM-VII	B.PHARM
25.	MUHAMMED FASIL V	SEM-VII	B.PHARM
26.	MUKILAMALLIGAI D R	SEM-VII	B.PHARM



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

27.	MURALITHARAN V A	SEM-VII	B.PHARM
28.	NAJEER A	SEM-VII	B.PHARM
29.	NANDHINI S	SEM-VII	B.PHARM
30.	NAVEEN N	SEM-VII	B.PHARM
31.	NAVEENKUMAR P	SEM-VII	B.PHARM
32.	NAZMA BEGAM A	SEM-VII	B.PHARM
33.	NIMALKUMAR D	SEM-VII	B.PHARM
34.	PRASANNAKUMAR N	SEM-VII	B.PHARM
35.	PRASATH SIVAKUMAR	SEM-VII	B.PHARM
36.	PRAVEEN T	SEM-VII	B.PHARM
37.	PRAVEEN MATHESAN	SEM-VII	B.PHARM
38.	PRAVEENKUMAR K	SEM-VII	B.PHARM
39.	PRIYA D	SEM-VII	B.PHARM
40.	RAGUL DRAVID G	SEM-VII	B.PHARM
41.	RAHUL V	SEM-VII	B.PHARM
42.	RANGANATHAN C	SEM-VII	B.PHARM
43.	RANJITH J	SEM-VII	B.PHARM
44.	RATHESH G T	SEM-VII	B.PHARM
45.	RATHIKA M	SEM-VII	B.PHARM
46.	RAVIN R	SEM-VII	B.PHARM
47.	ROHITH S	SEM-VII	B.PHARM
48.	SACHIN KUMAR K	SEM-VII	B.PHARM
49.	SAIFULLAH K	SEM-VII	B.PHARM
50.	SANTHOSH KUMAR R	SEM-VII	B.PHARM
51.	SEDUPATHI K	SEM-VII	B.PHARM
52.	SHABEEB ANJALAN	SEM-VII	B.PHARM
53.	SHARMA SMITH L	SEM-VII	B.PHARM
54.	SHRI HARIDHA K	SEM-VII	B.PHARM
55.	SIVANANDHAN P	SEM-VII	B.PHARM
56.	SOWMIYA R	SEM-VII	B.PHARM
57.	SUDEEP CHANDRAN	SEM-VII	B.PHARM
58.	SUDHARSAN S	SEM-VII	B.PHARM
59.	SUMITHA M	SEM-VII	B.PHARM
60.	SUSANTHKUMAR R	SEM-VII	B.PHARM
61.	TAMILSELVAN M A	SEM-VII	B.PHARM
62.	UMA MAHESWARI M	SEM-VII	B.PHARM
63.	VIDHYA DHARSHNI V	SEM-VII	B.PHARM
64.	VIGNESHWARAN B	SEM-VII	B.PHARM
65.	VIJAYA DEVAN G	SEM-VII	B.PHARM
66.	VIJAYJEBASTIN T	SEM-VII	B.PHARM
67.	VIKNESH R	SEM-VII	B.PHARM



Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

68	VISHNUPRIYAN R	SEM-VII	B.PHARM
69	JAYAPRASTH M	SEM-VII	B.PHARM
70	JESTIN JOSEN P	SEM-VII	B.PHARM
71	THAMILARASAN R	SEM-VII	B.PHARM
72	ANANTHAKUMAR R	SEM-IV	M.PHARM (PHARMACEUTICS)
73	DEVANANDH D	SEM-IV	M.PHARM (PHARMACEUTICS)
74	GOKUL L	SEM-IV	M.PHARM (PHARMACEUTICS)



  
PRINCIPAL

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



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



SEMINAR ON

**INTELLECTUAL PROPERTY RIGHTS - AN OVERVIEW AND  
IMPLICATION IN HERBAL INDUSTRY**

Organised by  
Department of pharmacognosy

**CERTIFICATE OF PARTICIPATION**

*This is to certify that MR./MS./MRS* .....

*has participated as Delegate/ Resource person in the Seminar on INTELLECTUAL  
PROPERTY RIGHTS - AN OVERVIEW AND IMPLICATION IN HERBAL INDUSTRY  
held on 29/10/2022*



*[Signature]*

ORGANIZING SECRETARY



Dr. N.SENTHILKUMAR,  
PRINCIPAL,

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

*[Signature]*

CONVENOR



# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Ethirmedi, 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 / E-Mail : principal@jkkmmrfpharmacy.edu.in**

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

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

**DATE:24/11/2022**

### **DEPARTMENT OF PHARMACOLOGY**

### **REPORT**

This workshop focused on the Procedures and Regulations in Patenting of Bio-inventions, Patent Acts and Rules in relation to Life-Sciences and Drafting for Successful Patenting. Faculty/ students/ young scholars from different institutions/organizations participated in the workshop.

#### **SEMINAR TITLE - PATENTING OF BIO-INVENTIONS**

**SEMINAR HALL**

**DATED: 19-11-2022**

#### **RESOURCE PERSON**

**Mr.G.Muthukumar., M.PHARM.,**

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

**No. of students enrolled: 350**

**No. of students certified: 350**

**No. of students certified in our Institution :34**

#### **Introduction:**

The seminar on Patenting of Bio-Inventions was held on 19<sup>th</sup> November, 2022 at JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy. The seminar was organized by the Department of Pharmacy, and a total of 350 students participated. The purpose of the seminar was to provide attendees the importance of patenting for the development and application of new technology for the benefit of society and growth of the nation. At the end of the seminar, all attendees received a certificate of completion.



**Dr. N.SENTHILKUMAR,**  
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.**

**Objectives:**

The main objectives of the seminar were to:

1. Evaluate the patentability of an invention
2. Decide whether to patent an invention
3. Prepare a patent application

**Participants:**

The seminar was open to all students at JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, and a total of 350 students participated. The attendees represented a range of academic disciplines within the field of pharmacy, including pharmacology, pharmaceutical chemistry, and pharmacy practice. Most of the attendees had some prior experience with qualitative research, but some were new to the field.

**Format:**

The seminar was structured as a combination of lectures, group discussions, and hands-on exercises. The lectures were led by an experienced researcher with expertise in intellectual property rights and the hands-on exercises were led by a trained facilitator. The seminar was held over one full day, with breaks in between to allow attendees to rest and ask questions.

**Content:**

The seminar covered a range of topics related to Pharmacological research areas. On the first day, attendees learned about the importance of patenting for the development and application of new technology for the benefit of society. They also learned about the different sections involved in the Indian Patent Act.

**Evaluation:**

At the end of the seminar, attendees were asked to complete a short evaluation form to provide feedback on the seminar. Overall, the evaluations were very positive, with most attendees rating the workshop as "excellent" or "good." Attendees commented that the lectures were clear and well-organized, and that the hands-on exercises were helpful in providing a practical understanding on clear picture of Indian Patent Law.



**Conclusion:**

Overall, the seminar on Patenting of Bio-Inventions was a success. A total of 350 students participated, and all attendees received a certificate of completion. The positive feedback from attendees suggests that the workshop met its objectives and was well-received by the participants. The skills and knowledge gained from the seminar will be valuable to the students as they continue their studies and pursue careers in the field of pharmacy.

**Recommendations:**

Based on the evaluations and feedback from attendees, we recommend offering similar seminar in the future to continue to build capacity in Patenting of Bio-Inventions at JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy. It may also be helpful to consider offering more advanced seminar for those who have already completed the basic workshop and are looking to further develop their skills.

  
**PROGRAMME  
CO-ORDINATOR**

  
**HOD**

  
**PRINCIPAL**



**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.,**

**Principal**

REF.NO: JKKM/PH/SEMINAR/REQ/2022/001

Date: 11/11/2022

From

Department of Pharmacology  
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.

**Respected Sir,**

Subject: Letter for requesting permission to conduct seminar regarding:-

We are writing this letter to request permission to conduct a seminar in the Seminar hall for one day on **19/11/2022**. We wish to conduct the **seminar on Patenting of Bio-Inventions**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about Identification of research problems in pharmacology that would help to shape the students.

Looking forward for your approval.

Thank you



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

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

Yours sincerely,

**Dr.V. Suresh**

Signature of HOD.



# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Principal**

### **DEPARTMENT OF PHARMACOLOGY**

#### **CIRCULAR-2022-23**

This is to inform all the students of our college that the seminar on **Patenting of Bio-Inventions** for the academic year 2022 – 2023 will be conducted on 19/11/2022 for all the batches. Hence request all the interested candidates to register for the seminar:

COURSE NAME	DATE	FN	AN	VENUE	RESOURCE PERSON
PATENTING OF BIO-INVENTIONS	19/11/2022	III B.PHARM (SEM-VI)	III B.PHARM (SEM-VI)	SEMINAR HALL	MR.G.MUTHUKUMARAN

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.**

  
**PROGRAMME  
CO-ORDINATOR**

  
**HOD**

  
**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

**DEPARTMENT OF PHARMACOLOGY**

**PATENTING OF BIO-INVENTIONS**

**RESOURCE PERSON**

**Mr.G.Muthukumar, M.PHARM.,  
ASSOCIATE PROFESSOR,  
JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.**

**DATE: 19/11/2022**

**VENUE: SEMINAR HALL**

**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.,**

**Principal**

### **ABOUT THE TOPIC**

#### **PATENTING OF BIO-INVENTIONS**

##### **INTRODUCTION**

A patent is an exclusive right granted by a government for an invention, which is a product or a process that provides, in general, a new way of doing something, or offers a new technical solution to a problem. The details on the way of acquiring patents will be provided for protecting precious intellectual properties.

##### **CRITERIA FOR GRANTING A PATENT**

In order to be patentable, an invention must meet the following three criteria:

- a. It must be new;
- b. It must involve an inventive step(that is, non-obvious to a person skilled in the relevant field of technology); and
- c. It must be capable of industrial application.

##### **USE OF PATENT**

Like the owner of any other private property, a patent owner has the right to prevent others from using it, abandon it, sell it, that is, assign it for a fee or free (gift), and allow one or many others to use it, while retaining its ownership, by 'licensing out' the patent for one or more specified purposes, during a specified time period, in one or more specified jurisdictions. Licensing is always done for a valid consideration that may be in cash or kind, as may be mutually agreed and specified in a written and formally signed license agreement.



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

**Principal**

### DEPARTMENT OF PHARMACOLOGY

### SEMINAR FEEDBACK FORM

STUDENT NAME:  
YEAR/COURSE:  
NAME OF THE WORKSHOP:

DATE:  
DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the student's questions by the instructor				
The venue was appropriate for the event				
Course organization was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?

A) 0-2    B) 2-5    C) 6-10    D) 11-14    E) 15UP

2. What grade do you expect in this course?

A) BELOW 50%    B) 50-60%    C) 60-70%    D) 70-80%    E) ABOVE 80%

SIGNATURE

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

**Principal**

DATE:19/11/2022

### SEMINAR FEEDBACK FORM

NAME OF STUDENT:		REGISTRATION NO:
COURSE:		YEAR & SEMESTER:
SEMINAR TOPIC:		DATE & TIME:
1.	Overall, how satisfied were you with this seminar?	
	<input type="radio"/> Very satisfied	
	<input type="radio"/> Satisfied	
	<input type="radio"/> Neutral	
	<input type="radio"/> Dissatisfied	
	<input type="radio"/> Very dissatisfied	
2.	How clear were the ideas and concepts we presented?	
	<input type="radio"/> Extremely clear	
	<input type="radio"/> Very clear	
	<input type="radio"/> Moderately clear	
	<input type="radio"/> Not very clear	
	<input type="radio"/> Not at all clear	
3.	What percentage of the information was new to you?	
	<input type="radio"/> 100%	
	<input type="radio"/> 75%	
	<input type="radio"/> 50%	
	<input type="radio"/> 25%	
	<input type="radio"/> 0%	



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### STUDENTS FEEDBACK ANALYSIS

DATE: 24/11/2022

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	



*(Signature)*  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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7	Rate the content of the slides/virtual aid	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**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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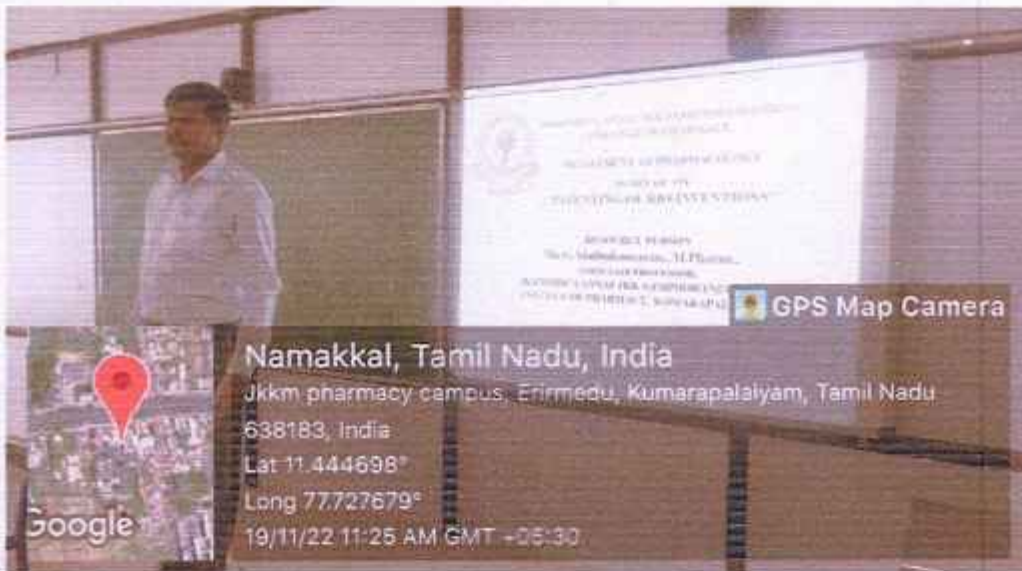
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

## SEMINAR ON PATENTING OF BIO-INVENTIONS

### SEMINAR PHOTO



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

**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR/SEM	COURSE
1.	ARBITHA B	I	PHARM D
2.	BALRAJ P	I	PHARM D
3.	DANISHA T	I	PHARM D
4.	DHARANIKA S	I	PHARM D
5.	DELPHIN KINGSY	I	PHARM D
6.	GIRILIKESH R	I	PHARM D
7.	HARIHARAN D	I	PHARM D
8.	HARSINI T	I	PHARM D
9.	INFANT JOE SUBISHA A	I	PHARM D
10.	JAYESH P	I	PHARM D
11.	JOTHIPRAKASH A	I	PHARM D
12.	KIRTHICK ROSHAN R	I	PHARM D
13.	KIRUBA K	I	PHARM D
14.	LOKESH L	I	PHARM D
15.	MANIKANDAN V	I	PHARM D
16.	MANOJ C	I	PHARM D
17.	MOHAMMED A	I	PHARM D
18.	MOHANAPRIYA S	I	PHARM D
19.	MOHANRAJ R	I	PHARM D
20.	NITHYA SHREE S	I	PHARM D
21.	POOVARASAN C	I	PHARM D
22.	PRIYADHARSHINI S	I	PHARM D
23.	SIVAPOOJA C	I	PHARM D
24.	SUBHAHARINI R	I	PHARM D
25.	SAKTHIPRIYA P	I	PHARM D
26.	SUDESH G	I	PHARM D
27.	SWADESHI O S	I	PHARM D
28.	THIRUNAVUKARASU M	I	PHARM D
29.	VIGNESH R	I	PHARM D
30.	YOGESH WARAN M	I	PHARM D
31.	AJAY MILAN P	II	PHARM D
	AJAY SRINIVAS M	II	PHARM D
	AZHAGURAJA B	II	PHARM D
34.	DHARENI M	II	PHARM D



**DR. N. SENTHILKUMAR,**

**PRINCIPAL**

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

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

**CERTIFICATE OF APPRECIATION**




This is to certify that Mr./Mrs./Ms \_\_\_\_\_  
has appreciated for his/her participation in the seminar on  
“PATENTING OF BIO-INVENTIONS”  
organized by  
Department of Pharmacology on 19-11-2022

  
**Convenor**

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

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

  
**Organizing Secretary**





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Ethirmedi, 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 / E-Mail : principal@jkkmmrfpharmacy.edu.in**

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

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

**Principal**

**DATE: 29.01.2023**

### **DEPARTMENT OF PHARMACEUTICS**

#### **REPORT**

**SEMINAR TITLE-ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS**

#### **RESOURCE PERSONS**

- 1. Dr.S.CHANDRA., M. PHARM, Ph.D.,**  
PROFESSOR AND HOD ,
- 2. MR.R.SURESH., M. PHARM,**  
ASSOCIATE PROFESSOR

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

**No. of students enrolled: 370**

**No. of students certified: 355**

**No. of students certified in our institution : 58**

#### **Objective:**

pharmacokinetic parameters of a drug including volume of distribution, clearance terms, extraction ratio, elimination half-life, unbound fraction and to understand how these parameters are related to **improve the development of safe and effective pharmaceuticals**. We aim to increase the knowledge about the uptake, kinetics, metabolism, effects and side-effects of pharmaceutical drugs.

#### **Learning outcomes:**

- Biopharmaceutics provides the scientific basis for drug product design and drug product development. Each step in the manufacturing process of a finished dosage form may potentially affect the release of the drug from the drug product and the availability of the drug at the site of action.allows you to understand the solubility, dissolution and permeability of a compound and from this we can then assess the potential fraction absorbed (Fabs). Now fraction absorbed and bioavailability are often confused and used interchangeably.
- Biopharmaceutics deals with the study of physiochemical and physiological factors that influence the liberation and absorption of drugs from different dosage forms. Pharmacokinetics deals with the absorption, distribution, metabolism and excretion of a drug; the study of drug response is known as pharmacodynamics.
- The main objective for a bioequivalence study is that the drug bioavailability from test and reference products are not statistically different when administered to patients or subjects at the same molar dose under similar experimental condition

**Head of the Department**

**Principal**



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

**Principal**

**REF.NO: JKKM/PHARM/CEU/REQ/2022/001**

**Date: 25.01.2023**

**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 on two days seminar regarding: -**

**Respected Sir,**

We are writing this letter to request permission to conduct a one day seminar in the Seminar Hall on 27.01.2023. We wish to conduct seminar regarding the **Advanced Biopharmaceutics & Pharmacokinetics**. 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

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

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



**Yours sincerely,**

**Dr.S. CHANDRA.,**  
**Head of the Department**



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**Principal**

### **CIRCULAR**

This is informed to the B. Pharm-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
ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS	27.01.2023	27.01.2023 FN (2 HOURS) & AN (2 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**

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**Principal**

### SYLLABUS

DATE	HOURS	SEMINAR TOPIC	SUB TOPICS	RESOURCE PERSON
27.01.2023	27.01.2023 FN (2 HOURS)	Advanced Biopharmaceutics & Pharmacokinetics-	Advanced Biopharmaceutics & Pharmacokinetics-	<b>Dr.S. CHANDRA</b>
	& AN (2 HOURS)		Biopharmaceutics consideration in drug product design & In Vitro drug product performance	<b>Mr.R. SURESH.</b>

**TOTAL HOURS- 4 HOURS**

**HEAD OF THE DEPARTMENT**



**PRINCIPAL**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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

**Komarapalayam, Namakkal Dt-638183**

**DEPARTMENT OF PHARMACEUTICS**

**One day Workshop on  
Advanced Biopharmaceutics & Pharmacokinetics  
held on 27.01.2023**



**Venue: SEMINAR HALL**



**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.,**

**Principal**

### ONE-DAY SEMINAR ON: ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

#### ABOUT THE SEMINAR

*Biopharmaceutics* examines the interrelationship of the physical/chemical properties of the drug, the dosage form (drug product) in which the drug is given, and the route of administration on the rate and extent of systemic drug absorption. The importance of the drug substance and the drug formulation on absorption, and *in vivo* distribution of the drug to the site of action, is described as a sequence of events that precede elicitation of a drug's therapeutic effect. A general scheme describing this dynamic relationship is illustrated

Biopharmaceutics provides the scientific basis for drug product design and drug product development. Each step in the manufacturing process of a finished dosage form may potentially affect the release of the drug from the drug product and the availability of the drug at the site of action. The most important steps in the manufacturing process are termed *critical manufacturing variables*. Examples of biopharmaceutic considerations in drug product design are listed in A detailed discussion of drug product design is found in Knowledge of physiologic factors necessary for designing oral products are discussed in. Finally, drug product quality and drug product testing are discussed in later chapters.

After a drug is released from its dosage form, the drug is absorbed into the surrounding tissue, the body, or both. The distribution through and elimination of the drug in the body varies for each patient but can be characterized using mathematical models and statistics. *Pharmacokinetics* is the science of the kinetics of drug absorption, distribution, and elimination (ie, metabolism and excretion). The description of drug distribution and elimination is often termed *drug disposition*. Characterization of drug disposition is an important prerequisite for determination or modification of dosing regimens for individuals and groups of patients. The study of pharmacokinetics involves both experimental and theoretical approaches. The experimental aspect of pharmacokinetics involves the development of biological sampling techniques, analytical methods for the measurement of drugs and metabolites, and procedures that facilitate data collection and manipulation. The theoretical aspect of pharmacokinetics involves the development of pharmacokinetic models that predict drug disposition after drug administration. The application of statistics is an integral part of pharmacokinetic studies. Statistical methods are used for pharmacokinetic parameter estimation and data interpretation ultimately for the purpose of designing and predicting optimal dosing regimens for individuals or groups of patients. Statistical methods are applied to pharmacokinetic models to determine data error and structural model deviations. Mathematics and computer techniques form the theoretical basis of many pharmacokinetic methods. Classical pharmacokinetics is a study of theoretical models focusing mostly on model development and parameterization



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**Principal**

### STUDENT FEEDBACK FORM

NAME OF STUDENT:

REGISTRATION NO :

COURSE:

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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**Principal**

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
  - Not at all clear



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**NAMAKKAL DISTRICT, TAMILNADU, INDIA.**



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**Principal**

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

- 1
- 2
- 3
- 4
- 5



**Student Name with Signature**

**Dr. N. SENTHILKUMAR,  
PRINCIPAL**

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**Principal**

**DATE: 27.01.2023**

### STUDENTS FEEDBACK ANALYSIS

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	The 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



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**Principal**

		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,  
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Principal

### REPORT SUMMARY

Duration of the Course	4 HOURS
Total participants Enrolled	370
Successfully Completed	355
Type of Feedback Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none"><li>• Biopharmaceutics provides the scientific basis for drug product design and drug product development. Each step in the manufacturing process of a finished dosage form may potentially affect the release of the drug from the drug product and the availability of the drug at the site of action.</li><li>• Allows you to understand the solubility, dissolution and permeability of a compound and from this we can then assess the potential fraction absorbed (Fabs). Now fraction absorbed and bioavailability are often confused and used interchangeably.</li><li>• Biopharmaceutics deals with the study of physiochemical and physiological factors that influence the liberation and absorption of drugs from different dosage forms. Pharmacokinetics deals with the absorption, distribution, metabolism and excretion of a drug; the study of drug response is known as pharmacodynamics.</li><li>• The main objective for a bioequivalence study is that the drug bioavailability from test and reference products are not statistically different when administered to patients or subjects at the same molar dose under similar experimental conditions.</li></ul>

### 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



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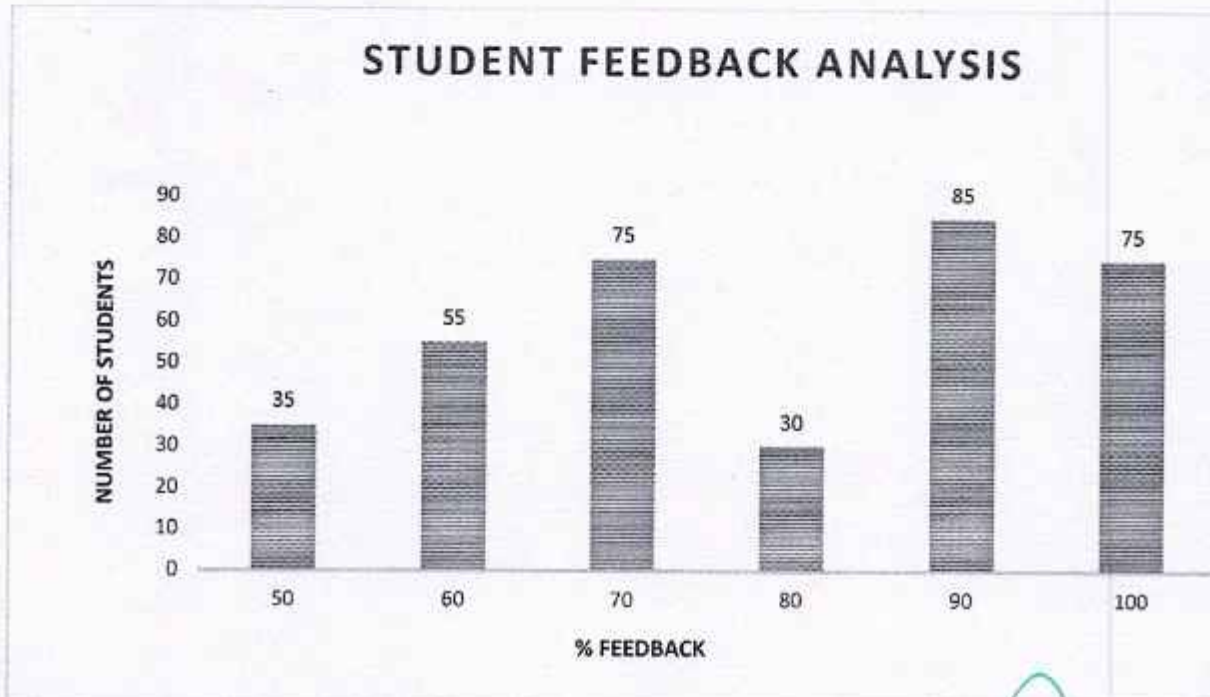
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**



*(Signature)*  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE CANDIDATE	YEAR
1	CHANDRU D	M.PHARM I SEM
2	GOWTHAM M	M.PHARM I SEM
3	KALAIARASI.R	M.PHARM I SEM
4	KOTHAI.S	M.PHARM I SEM
5	MANI BHARATHI.P	M.PHARM I SEM
6	MOHAMMED AABITH.M	M.PHARM I SEM
7	MOHANA KANNAN.M	M.PHARM I SEM
8	NAVEEN KUMAR M	M.PHARM I SEM
9	PRASANTH R	M.PHARM I SEM
10	VATHENDIRAN S	M.PHARM I SEM
11	AMEER SUHAIL A K	M.PHARM I SEM
12	ASHROOK AHAMED E K	M.PHARM I SEM
13	HEMA R	M.PHARM I SEM
14	MOHAMMED FAWAZ	M.PHARM I SEM
15	MOHAMMED SALEEK A K	M.PHARM I SEM
16	NAINA MOHAMMED V C	M.PHARM I SEM
17	SHAMEEM BABU M	M.PHARM I SEM
18	AJITH KUMAR K	B PHARM VI SEM
19	ANAND M	B PHARM VI SEM
20	ANAND R	B PHARM VI SEM
21	ANBARASAN S	B PHARM VI SEM
22	ANUSHIYA D D	B PHARM VI SEM
23	ARUN M	B PHARM VI SEM
24	ARUNA P	B PHARM VI SEM
25	ASHOKMOHAN J	B PHARM VI SEM
26	ASLIN VENISKA V	B PHARM VI SEM
27	AVIN KUMAR A	B PHARM VI SEM
28	BALAGANAPATHI V	B PHARM VI SEM
29	BHARANIDHARAN M	B PHARM VI SEM
30	CHITRA S	B PHARM VI SEM
31	DEEPA S	B PHARM VI SEM
32	DEEPIKA A	B PHARM VI SEM
33	DEEPIKA C	B PHARM VI SEM
35	DINESH J	B PHARM VI SEM
36	GOKULKANNAN S K	B PHARM VI SEM



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

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



# 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.

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

**Principal**

37	GOWTHAMAN R	B PHARM VI SEM
38	GUNAL R	B PHARM VI SEM
39	GUNASEKAR K	B PHARM VI SEM
40	HARIKRISHNAN M	B PHARM VI SEM
41	JEEVANANTHAM S	B PHARM VI SEM
42	JEGANPATHY S	B PHARM VI SEM
43	KARTHI V	B PHARM VI SEM
44	KARTHICK M	B PHARM VI SEM
45	KARTHIKA M	B PHARM VI SEM
46	KAVIN P	B PHARM VI SEM
47	KAVINRAJ K	B PHARM VI SEM
48	KAVIPRASANTH S	B PHARM VI SEM
49	KEERTHIHARAN A M A S	B PHARM VI SEM
50	KESAVAN K	B PHARM VI SEM
51	KUMARESAN M	B PHARM VI SEM
52	LOGANATHAN R	B PHARM VI SEM
53	LOGESH R	B PHARM VI SEM
54	MANIKAVASAGAM R	B PHARM VI SEM
55	MESHAPRIYA P M	B PHARM VI SEM
56	MOHAMEED JEMSHEER	B PHARM VI SEM
57	MUHAMMEDFASIL V	B PHARM VI SEM
58	MUGILAMALLIGAI D R	B PHARM VI SEM



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

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

**Principal**

## SEMINAR ON ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

### SEMINAR PHOTOS



GPS Map Camera

Komarapalayam, Tamil Nadu, India

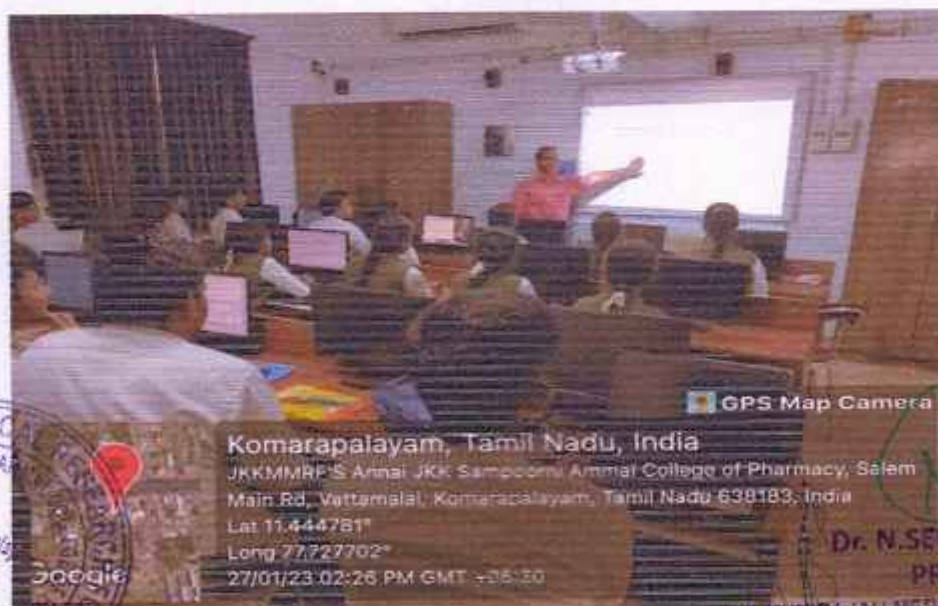
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy, Salem  
Main Rd, Vattamalai, Komarapalayam, Tamil Nadu 638183, India

Lat 11.444781°

Long 77.727702°

27/01/23 10:55 AM GMT +05:30

Google



GPS Map Camera

Komarapalayam, Tamil Nadu, India

JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy, Salem  
Main Rd, Vattamalai, Komarapalayam, Tamil Nadu 638183, India

Lat 11.444781°

Long 77.727702°

27/01/23 02:26 PM GMT +05:30

Google



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

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

JKKMMRF'S ANNAI JKK SAMPOORNAI  
AMMAL COLLEGE OF PHARMACY



KOMARAPALAYAM 638183, NAMAKKAL

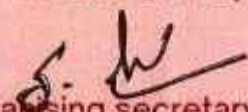
Department of  
"PHARMACEUTICS"

ONE DAY SEMINAR ON


**ADVANCED BIOPHARMACEUTICS &  
PHARMACOKINETICS**


This is certify to \_\_\_\_\_

HAS APPRECIATED FOR HIS/HER CONTRIBUTION IN ONE DAY SEMINAR  
HELD ON 27TH JANUARY 2023 AT SEMINAR HALL.

  
Organising secretary



  
Convener

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183,  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

**DATE:07/11/2022**

### **DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

#### **REPORT**

**SEMINAR TITLE- DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING**

**VENUE: SEMINAR HALL**

**DATED: 05/11/2022**

#### **RESOURCE PERSON**

**DR.K. SUMATHI., M. PHARM, PH. D**

**JKKMMRFS ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
KOMARAPALAYAM**

**No. of students enrolled: 350**

**No. of students certified: 349**

**No. of students certified in our institution: 47**

### **INTRODUCTION**

Writing a scientific article is an essential component of the academics and research field. It involves a process thinking of the observation that needs to be conveyed to scientific forum. Clear communication of the validated scientific data is a skill that can be acquired over a period of writing. Keep in mind that it is not a difficult process, but it is just time consuming. The workflow of scientific writing given in this article will give you a fair idea about how to start from the scratch while writing a scientific article. The scientific article helps in enriching knowledge, gives impact on the society, and helps in academic and scientific progress. Many universities and scientific societies and bodies give scores to scientific articles for carrier achievement schemes and promotions

**Programme  
Co-ordinator**

**HOD**

**Principal**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SETHILKUMAR, M.Pharm., Ph.D.,**  
**Principal**

Date: 01/11/2022

**REF.NO: JKKM/PH/SEMINAR/REQ/2022/07**

From

Department of Pharmaceutical Chemistry,  
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.

**Respected Sir,**

**Subject: Letter for requesting Permission to conduct seminar regarding: -**

We are writing this letter to request permission to conduct a seminar in the Seminar Hall on 05/11/2022. We wish to conduct the seminar on DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING that would help to shape the students.

Looking forward for your approval.

Thank you

**Dr. N.SETHILKUMAR,**  
**PRINCIPAL**

Yours sincerely,



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





# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Principal**

### **DEPARTMENT OF PHARMACEUTICAL CHEMISTRY** **CIRCULAR**

This is to inform all the students of our college that the seminar on **DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING** for the academic year 2022-23 will be commenced on for all the batches. Hence request all the interested candidates to register for the seminar.

<b>COURSE NAME</b>	<b>SCHEDULE</b>	<b>VENUE</b>	<b>RESOURCE PERSON</b>
<b>SEMINAR ON DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING</b>	<b>05/11/2022</b>	<b>SEMINAR HALL</b>	<b>DR.K. SUMATHI</b>

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

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

**Programme  
Co-ordinator**

**HOD**

**Principal**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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





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

**YOU ARE INVITED TO A  
SEMINAR ON**

**SEMINAR ON DATA ANALYSIS, SCIENTIFIC  
WRITING AND SUPERLATIVE PUBLISHING**

**Date: 5 NOVEMBER 2022**

**VENUE: SEMINAR HALL**

**RESOURCE PERSON: Dr. K. SUMATHI, M. Pharm., Ph. D.**

**Associate Professor,**

**Department of Pharmaceutical Chemistry,**

**JKKMMRF'S Annai JKK Sampoorani Ammal college of pharmacy**



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183,  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### **ABOUT THE TOPIC**

#### **SEMINAR ON DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING**

#### **INTRODUCTION**

Writing a scientific article is an essential component of the academics and research field. It involves a process thinking of the observation that needs to be conveyed to scientific forum. Clear communication of the validated scientific data is a skill that can be acquired over a period of writing. Keep in mind that it is not a difficult process, but it is just time consuming. The workflow of scientific writing given in this article will give you a fair idea about how to start from the scratch while writing a scientific article. The scientific article helps in enriching knowledge, gives impact on the society, and helps in academic and scientific progress. Many universities and scientific societies and bodies give scores to scientific articles for carrier achievement schemes and promotions

#### **Original research article**

It includes description of research, such as “how it was done” and “what are the observations.” The results are supported by discussion about the probable justifications of the findings.

#### **Editorial article**

It is a short review about a particular topic written by a subject expert. It includes expert suggestions or comments on the topic of discussion

#### **Case report**

It is based on an unusual or novel finding.



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

### SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE:

YEAR/ COURSE:

NAME OF THE SEMINAR:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students' questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

#### **Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



  
**SIGNATURE**

**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**Principal**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

### STUDENT FEEDBACK FORM

NAME OF STUDENT:

COURSE:

SEMINAR TOPIC:

REGISTRATION NO:

YEAR & SEMESTER:

DATE & TIME:

- Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
- How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
- What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
- How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL

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

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
  - Not at all clear
10. **How Would you rate the content of the seminar?**
- 1
  - 2
  - 3
  - 4
  - 5



**Student Name with Signature**

A handwritten signature in green ink, appearing to be "Dr. N. Senthil Kumar".

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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
A-194 JKK SAMPOORANI ANIMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 103,  
NAMAKKAL DISTRICT, TAMILNADU.**



# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

#### STUDENTS FEEDBACK ANALYSIS

DATE: 08/10/2022

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	



  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

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	

**Total marks = 50**

  
**Head of the Department**

  
**Principal**



**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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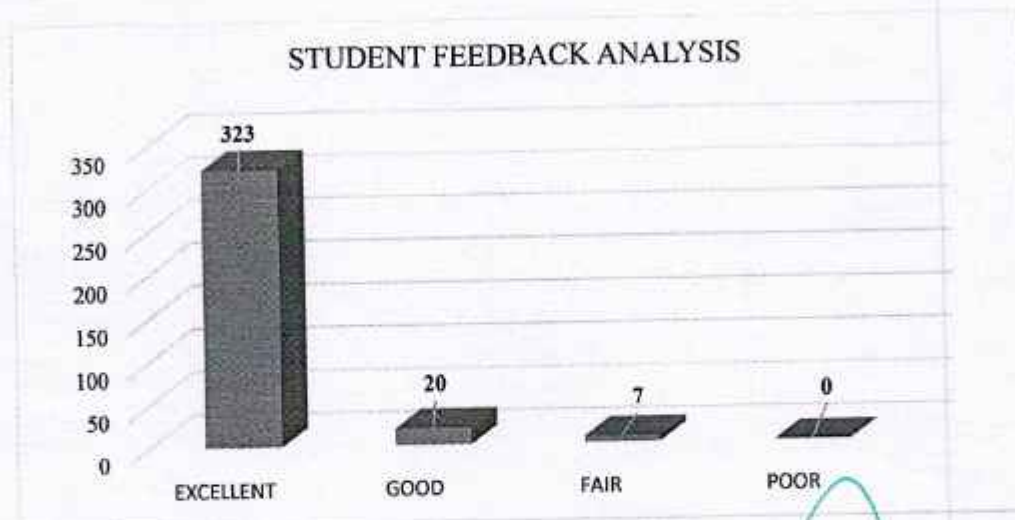
Contact No : +919789456750, +919943066944, +919943069944.

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

### REPORT SUMMARY

#### 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



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



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

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

## SEMINAR ON DATA ANALYSIS SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING

### SEMINAR PHOTO



**Dr. N.SENTHILKUMAR,**  
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**Principal**

### PARTICIPANTS LIST

S.NO	NAME	YEAR	COURSE
1.	AAKASH M	SEM-I	B.PHARM
2.	AARTHIPRIYAN S	SEM-I	B.PHARM
3.	ABDULLA V	SEM-I	B.PHARM
4.	ABIENAV L	SEM-I	B.PHARM
5.	ABISHEK D	SEM-I	B.PHARM
6.	ABISHEK S	SEM-I	B.PHARM
7.	ALIS MIRIAM R	SEM-I	B.PHARM
8.	ANANDHAKUMAR B	SEM-I	B.PHARM
9.	ARUN K S	SEM-I	B.PHARM
10.	ASWINI D	SEM-I	B.PHARM
11.	AYYAPPAN P	SEM-I	B.PHARM
12.	BALAJI V	SEM-I	B.PHARM
13.	BALAKRISHNAN S	SEM-I	B.PHARM
14.	BHARATHIKANNAN E	SEM-I	B.PHARM
15.	DEVI PRIYA M	SEM-I	B.PHARM
16.	DHANANJI V	SEM-I	B.PHARM
17.	DHANUSH S	SEM-I	B.PHARM
18.	DHARSHINI A	SEM-I	B.PHARM
19.	DIVYA C	SEM-I	B.PHARM
20.	DILIP P	SEM-I	B.PHARM
21.	ELAKKIYA G	SEM-I	B.PHARM
22.	GANAPATHY S	SEM-I	B.PHARM
23.	GOBIKA SRI M	SEM-I	B.PHARM
24.	GOKULAVAISHNAVI B	SEM-I	B.PHARM
25.	GOPALAKRISHNAN R	SEM-I	B.PHARM
26.	GOWTHAM ARTHANARI	SEM-I	B.PHARM
27.	GUNASEELAN R G	SEM-I	B.PHARM
28.	GURUMOORTHI K	SEM-I	B.PHARM



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

29	GURUMOORTHY K	SEM-I	B.PHARM
30	INDHUJA P	SEM-I	B.PHARM
31	JANANI SRI T	SEM-I	B.PHARM
32	KAJENDHIRAN P	SEM-I	B.PHARM
33	KANISHKAR SHASATIVEL S	SEM-I	B.PHARM
34	KANNAN M	SEM-I	B.PHARM
35	KAVIYA R	SEM-I	B.PHARM
36	KAVIYA S	SEM-I	B.PHARM
37	KISHORE S	SEM-I	B.PHARM
38	LAVANYA M	SEM-I	B.PHARM
39	MADHAN M	SEM-I	B.PHARM
40	MAHARANJANI T	SEM-I	B.PHARM
41	MANOJKUMAR G	SEM-I	B.PHARM
42	MANOJKUMAR VELU	SEM-I	B.PHARM
43	MONISHWARAN S	SEM-I	B.PHARM
44	MOUNIKASRI E	SEM-I	B.PHARM
45	NALLAMUTHU N	SEM-I	B.PHARM
46	NAVEEN KUMAR K	SEM-I	B.PHARM
47	NAVEEN KUMAR S	SEM-I	B.PHARM



*(Handwritten Signature)*  
**Dr. N.SENTHILKUMAR,**  
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**NAMAKKAL DISTRICT, TAMILNADU, INDIA.**



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

## **Certificate of Participation**

This certificate is presented to \_\_\_\_\_

For participation in the seminar titled on "SEMINAR ON DATA ANALYSIS, SCIENTIFIC WRITING AND SUPERLATIVE PUBLISHING" in JKKMMRF'S- ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM ON 5 NOVEMBER 2022.

**COORDINATOR**

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

**PRINCIPAL**



JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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# **J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION**

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

**Principal**

DATE:25.12.2022

### DEPARTMENT OF PHARMACY PRACTICE

### REPORT

### WORKSHOP ON MENDELEY

VENUE: SEMINAR HALL      DATED: 23/12/2022

### RESOURCE PERSON

**Dr.K.C. ARULPRAKASAM, M PHARM, PH.D.**

PROFESSOR AND HOD,

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

No. of students enrolled: 259

No. of students certified:258

No. of students certified in our institution: 56

### **Introduction:**

The workshop on MENDELEY was held on October 23th ,2022 at JKKMMRF's AnnaiSampooraniammal College of Pharmacy. The workshop was organized by the Department of Pharmacy, and a total of 50 students participated. The purpose of the workshop was to provide attendees with basic ideas of ysage of MENDELEY. At the end of the workshop, all attendees received a certificate of completion.

### **Objectives:**

The main objectives of the workshop were to:

- Introduce attendees the term MENDELEY and its importance.
- Areas where MENDELEY can be applied in a hospital.
- Advantages and disadvantages of MENDELEY.



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

**Participants:**

The workshop was open to all students at JKKMMRF's AnnaiSampoornaniAmmal College of Pharmacy, and a total of 50 students participated. The attendees represented a range of academic disciplines within the field of pharmacy, including pharmacology, pharmaceutical chemistry, and pharmacy practice.

**Format:**

The workshop was structured as a combination of lectures, group discussions, along with quiz programme. The lectures were led by an experienced senior clinical pharmacists, and the quiz session was conducted by the pharmacy practice faculties. The winners of the quiz competition were given with awards. The workshop was held over one full day, with breaks in between to allow attendees to rest and ask questions.

**Conclusion:**

Overall, the workshop on MENDELEY was a success. A total of 50 students participated, and all attendees received a certificate of completion. The positive feedback from attendees suggests that the workshop met its objectives and was well-received by the participants. The skills and knowledge gained from the workshop will be valuable to the students as they continue their studies and pursue careers in the field of pharmacy.

  
**Programme  
Co ordinator**

  
**HOD**

  
**Principal**

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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

## WORKSHOP

Date:14/12/2022

REF.NO: JKKM/PH/WORKSHOP/REQ/2022/02

From

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

To

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

Subject: Letter for requesting Permission to Conduct workshop regarding:-

Respected Sir,

We Are writing this letter to request permission to conduct a workshop in the Seminar hall for one day on **23/12/2022**. We wish to conduct the workshop on **MENDELEY**. We believe that this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **MENDELEY** that would help to shape the students.

Looking forward for your approval.

Thank you

Yours sincerely,

Signature of HOD.



**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.,**  
**Principal**

### CIRCULAR

This is to inform all the students of our college that the **workshop on Mendeley** for the academic year 2022 - 2023 will be commenced on 23/12/2022 for all the batches. Hence request all the interested candidates to register for the workshop.

COURSE NAME	SCHEDULE	VENUE	RESOURCE PERSON
WORKSHOP ON MENDELEY	23/12/2022	SEMINAR HALL	DR.K.C.ARULPRAKASAM

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

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

Programme  
co-ordinator

HOD

Principal



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



## RESOURCE PERSON

**Dr. K. C. Arulprakasam**  
**Professor & HOD**  
**JKKMMRF'S College Of Pharmacy,**  
**Komarapalayam, Nammakal**  
**Dist-638183**

# WORKSHOP

TOPIC: MENDELEY

**Date : 23/12/22**

**Venue: Seminar Hall**

Mendeley is a reference manager software founded in 2007 by PhD students Paul Foeckler, Victor Henning, Reichelt and acquired by Elsevier in 2013. It is used to manage and share research papers and generate bibliographies for scholarly articles.



**JKKMMRF'S-**  
**SAMPOORANI**  
**AMMAL COLLEGE OF PHARMACY**

*Komarapalayam, Nammakal*  
*Dist-638183*



  
**Dr. N.SENTHILKUMAR,**  
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**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,**

**Principal**

## ABOUT THE TOPIC MENDELEY

Mendeley Reference Manager is a free web and desktop reference management application. It helps you simplify your reference management workflow so you can focus on achieving your goals with Mendeley Reference Manager you can:

- Store, organize and search all your references from just one library.
- Seamlessly insert references and bibliographies into your Microsoft® Word documents using Mendeley Cite.
- Read, highlight and annotate PDFs, and keep all your thoughts across multiple documents in one place.
- Collaborate with others by sharing references and ideas.

1. **Add new** - Use this to add new references to your Mendeley library.  
For more details on how to add references to your library see [02. Adding references](#).
2. **All References** - Select this to return to your personal library in Mendeley Reference Manager.
3. **Smart Collections** - Mendeley Reference Manager automatically organizes aspects of your library into smart collections.  
For more details on how to use smart collections see [03. Searching and organizing references](#).
4. **Custom Collections** - Keep your references organized in custom collections.  
For more details on how to create and use custom collections see [03. Searching and organizing references](#).
5. **Private Groups** - Any private groups you join or create will be listed under this heading.  
For more details about private groups see [09. Sharing references](#).
6. **Search** - Use this field to search your Mendeley library.
7. **Library table** - All of the references in your selected collection or group will be visible here.
8. **Action panel** - Select the check box next to a reference in the library table to bring up the action panel.  
For more details on what you can do with the action panel see [03. Searching and organizing references](#).
9. **Info panel** - Select a reference in the library table to view the metadata in the info panel.
10. **Library** - Select 'Library' to return to the main library view.



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

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

DATE:25.12.2022

Principal

DEPARTMENT OF PHAREMACY PRACTICE

WORKSHOP FEEDBACK FORM

STUDENT NAME:

DATE:23/12/22

YEAR/ COURSE :

NAME OF THE WORKSHOP:

DURATION:

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

**Student Participation**

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A)0-2 B) 2-5 C)6-10 D)11-14 E)15UP
2. What grade do you expect in this course?  
A)BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%

SIGNATURE



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**

### LIST OF PARTICIPANTS

S.NO	NAME OF THE STUDENTS	YEAR	COURSE
1	BALAJI B	SEM-V	B.PHARM
2	BERGIN G	SEM-V	B.PHARM
3	BHARANIDHARAN S	SEM-V	B.PHARM
4	BHARATHVAAJ S	SEM-V	B.PHARM
5	BHUVANESHWARAN R	SEM-V	B.PHARM
6	BOOPALAN S	SEM-V	B.PHARM
7	CHANDEESH S	SEM-V	B.PHARM
8	DEVANDHIRAN K	SEM-V	B.PHARM
9	DHANASEKAR U	SEM-V	B.PHARM
10	DHANUSH S	SEM-V	B.PHARM
11	DHAYANANTHAN V	SEM-V	B.PHARM
12	DINESH K	SEM-V	B.PHARM
13	DINESH M	SEM-V	B.PHARM
14	DINESHKUMAR P	SEM-V	B.PHARM
15	DIVYA P	SEM-V	B.PHARM
16	GOKUL RAJ M	SEM-V	B.PHARM
17	GOKULAKANNAN P	SEM-V	B.PHARM
18	GOWTHAM J	SEM-V	B.PHARM
19	GOWTHAMAN K	SEM-V	B.PHARM
20	HARIHARAN K	SEM-V	B.PHARM
21	HARISHRAGUL G	SEM-V	B.PHARM



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NAMAKKAL DISTRICT, TAMILNADU.

22	HARITHRA P S	SEM-V	B.PHARM
23	HARIVARMAN P	SEM-V	B.PHARM
24	HEMANATH N	SEM-V	B.PHARM
25	HEMANTH KUMAR K	SEM-V	B.PHARM
26	JAGAN P	SEM-V	B.PHARM
27	JAGATHEEP P	SEM-V	B.PHARM
28	JEEVA E	SEM-V	B.PHARM
29	JEEVANANTH K	SEM-V	B.PHARM
30	JEYAPRAKASH S	SEM-V	B.PHARM
31	KAMALI A	SEM-V	B.PHARM
32	KAMALI S D	SEM-V	B.PHARM
33	KANNAPRAN M	SEM-V	B.PHARM
34	KARTHICKRAJA S	SEM-V	B.PHARM
35	KARTHIKEYAN M	SEM-V	B.PHARM
36	KASSIPRASATH G	SEM-V	B.PHARM
37	KESIYAMOL VARGEESH	SEM-V	B.PHARM
38	KISHOREKUMAR M	SEM-V	B.PHARM
39	KOUSALYA R	SEM-V	B.PHARM
40	KUPENDRAN S	SEM-V	B.PHARM
41	LINDA DINOLIN B A	SEM-V	B.PHARM
42	LOGESH S	SEM-V	B.PHARM
43	MANOJ K	SEM-V	B.PHARM
44	MARIYA BENIT D	SEM-V	B.PHARM
45	MATHAN RAJ R	SEM-V	B.PHARM
46	MEGAVARSHINI V G	SEM-V	B.PHARM
47	MEIYARASAN K	SEM-V	B.PHARM
48	MOHAN M	SEM-V	B.PHARM
49	MUGILARASU S	SEM-V	B.PHARM
50	NANDHAKUMAR T	SEM-V	B.PHARM
51	NAVEENKUMAR T	SEM-V	B.PHARM
52	NAWIN S	SEM-V	B.PHARM
53	NIDESHWAR G	SEM-V	B.PHARM
54	PARAMESH K	SEM-V	B.PHARM



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55	POORNIMA D	SEM-V	B.PHARM
56	PRABHAKARAN P	SEM-V	B.PHARM



  
PRINCIPAL

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NAMAKKAL DISTRICT, TAMILNADU.



JKKMMRF's Annai JKK Sampoorani Ammal  
College of Pharmacy  
Komarapalayam-638183, Namakkal




DEPARTMENT OF PHARMACY PRACTICE  
Workshop on  
MENDELEY

This is to certify that

\_\_\_\_\_

has appreciated for his/her contribution as Delegate/Resource  
person/Organizing Committee Member in the One Day Workshop held  
on 23 December 2022

  
\_\_\_\_\_  
Organizing Secretary

  
\_\_\_\_\_  
Convenor

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL,

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

