



# 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](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: 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 SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
KOMARAPALAYAM.

**No. of students enrolled: 370**

**No. of students certified: 355**

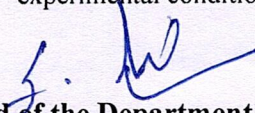
**No. of students certified in our institution : 58**

#### **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,**  
**PRINCIPAL**

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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,  
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**Yours sincerely,**

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





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### **CIRCULAR**

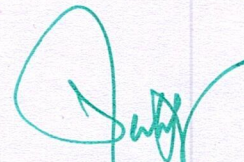
This is informed to the B. Pharm-III, IV Students that the following SEMINAR can be conducted by the Department of Pharmaceutics, JKKMMRF'S ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

| SEMINAR NAME  | SCHEDULE   | DURATION  | VENUE           | RESOURCE PERSON                  |
|---|------------|---|-----------------|----------------------------------|
| ADVANCED<br>BIOPHARMACEUTICS<br>&<br>PHARMACOKINETICS | 27.01.2023 | 27.01.2023<br>FN<br>(2 HOURS)<br>&<br>AN<br>(2 HOURS) | SEMINAR<br>HALL | Dr.S.CHANDRA<br>&<br>MR.R.SURESH |

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

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



  
**PRINCIPAL**

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### SYLLABUS

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

TOTAL HOURS- 4 HOURS

HEAD OF THE DEPARTMENT



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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### 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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### 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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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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**Principal**

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

- 1
- 2
- 3
- 4
- 5



**Student Name with Signature**

**Dr. N.SENTHILKUMAR,  
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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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|    |                                 |                  |   |   |
|----|---------------------------------|------------------|---|---|
|    |                                 | 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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DATE: 27.01.2023

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

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### 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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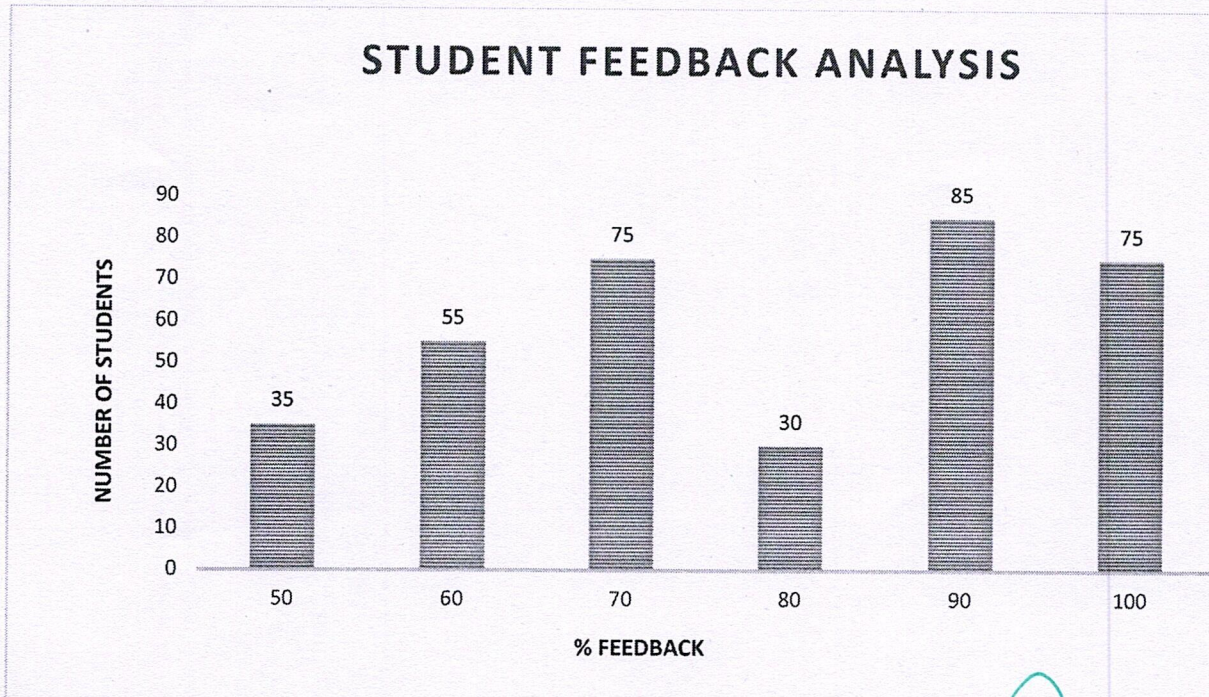
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**Principal**



*(Signature)*  
**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183,  
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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.

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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    | KOTHALS               | 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 |



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**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 |



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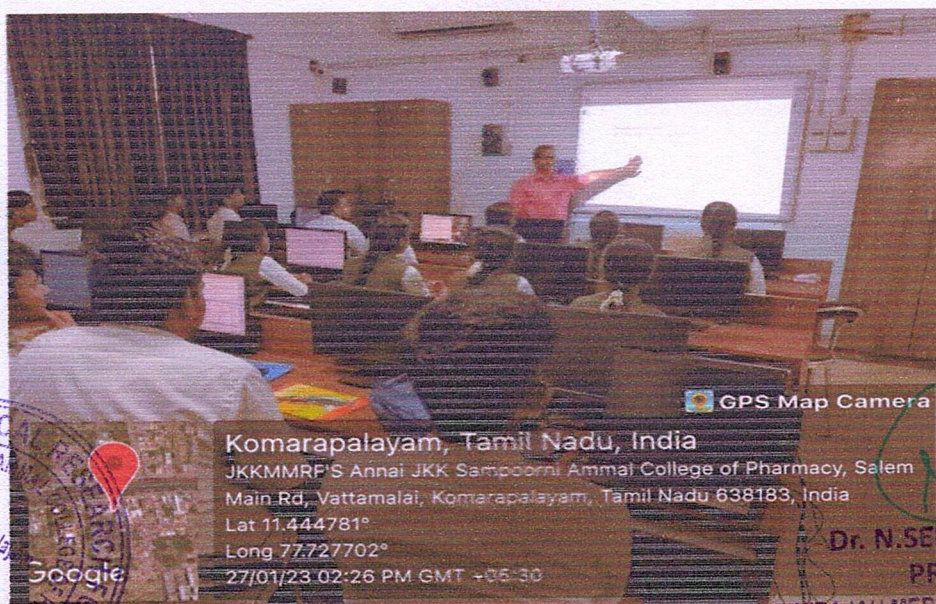
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**Principal**

## SEMINAR ON ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

### SEMINAR PHOTOS



**Dr. N. SENTHILKUMAR,**  
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# JKKMMRF'S ANNAI JKK SAMPOORNAI AMMAL COLLEGE OF PHARMACY



KOMARAPALAYAM 638183, NAMAKKAL

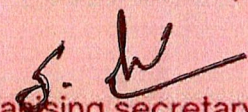
## Department of "PHARMACEUTICS"

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  
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