

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai. Website: www.jkkmmrfpharmacy.edu.in |E-Mail: principal@jkkmmrfpharmacy.edu.in

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

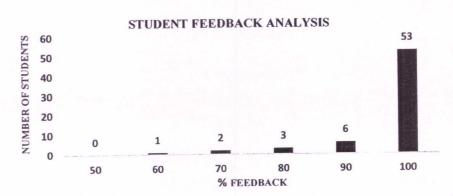
#### REPORT SUMMARY

Date: 26/03/2021

Academic year	2020-2021				
Add on course title	Population modeling				
Date	01/03/2021 To 26/03/2021				
<b>Duration of the Course</b>	30 HOURS				
<b>Total participants Enrolled</b>	65				
Successfully Completed	65				
Type of Assessment	Multiple Choice Questions (MCQ's)				
Course Outcome	<ul> <li>Basic Population Modeling in pharma industry and drug development</li> <li>Students learned about Population Modeling in Biopharmaceutical applications and Software testing, Modeling Environment in pharma industry</li> </ul>				
Outcome Attainment	36 Students scored more than 80% of marks - Attainment level 23Achieved				

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

6.Like to learn more about this topic
7.Rate the content of the slides/virtual aid
8.Accuracy of the sessions
9.Session expectations
10.Rate the content of the seminar



Dr. N.SENTHIL PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDAT ANNAL JKK SAMPOORANI ANNAL COLLEGE OF PHARMAL ETHIRMEDU, KOMARAPALAYAM - 638 183. NAMAKKAL DISTRICT, TAMILHADU, INDIA.



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DATE: 26/03/2021

### REPORT

ADDON COURSE TITLE-POPULATION MODELING **VENUE-SEMINAR HALL** 

#### **RESOURCE PERSONS**

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

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

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

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

No. of students enrolled: 65 No. of students certified:65

#### **OBJECTIVE OF THE COURSE**

The objective of this value-added course on population modeling program provides knowledge on techniques involved in Population Modeling in pharma industry, drug discovery and development, in this value-added course students acquire Population Modeling Based Drug Development in pharmaceutical sciences.

#### LEARNING OUTCOMES FROM THE COURSE

- Population Modeling in pharma industry
- Population Modeling Based Drug Development
- Modeling as a tool in drug development
- Rational decisions regarding drug use and development using Population Modelling
- Population Modeling in Biopharmaceutical applications

Software and Modeling Environment in pharma industry

Dr. N.SENTH PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION

PRINCIPAL ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMANK MUNIRAJAH MEDICAL RESEARCH FOUNDAT ETHIRMEDU, KOMARAPALAYAM - 638 183.

NAMAKKAL DISTRICT, TAMILARAGO INDIA.

ANNALIJKK SAMPOORANI ANNAL COLLEGE OF PHARM ETHIRMEDU, KOMARAPALAYAM - 638 183.

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

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

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

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

Website: www.jkkm.info | E-mail: senthilkumarjkkm@gmail.com

Ph: 0091 - 04288-260032, 260588, 266778

Rtn. MPHF. Dr. J.K.K. MUNIRAJAHH M. Tech., (Bolton) Correspondent

Dr. N. SENTHIL KUMAR, M. Pharm., Ph.D., Principal

REF.NO: JKKM/PHARM/CEU/REQ/2021/007

Date: 25/02/2021

Yours sincerely.

Head Of the Department

From

Department of Pharmaceutics, 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: Letter for requesting Permission to Conduct an ADD ON COURSE regarding: -

Respected Sir,

We are writing this letter to request permission to conduct a add-on course in the SEMINAR HALL on 01/03/2021 to 26/03/2021. We wish to conduct a add-on course regarding the title POPULATION MODELING. We request you to kindly permit to conduct add-on course program as this would be a great opportunity for Students to learn and that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Dr. N. SENTHILKUMAR. PRINCIPAL.

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

NAMAKKAL DISTRICT, TAMILNADU.



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DATE: 26/02/2021

### **CIRCULAR**

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

COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
POPULATION MODELING	01/03/2021 To 26/03/2021	30 HOURS	SEMINAR HALL	DR.N.SENTHILKUMAH DR.S.CHANDRA MR.R.SURESH DR.D.KRISHNARAJAN

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

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

HOD

TN. Indi

Dr. N. SENTHILKUMAR,

Dr. N.SENTHILKPMORal

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

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NAMAKKAL DISTRICT, TAMILNADU.

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#### **SYLLABUS**

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
			Population Modeling in	Dr.S.Chandra
			pharma industry	Mr.R.Suresh
1/03/2021	6 HOURS		Population Modeling	Dr.V.Suresh
170372021			Based Drug Development	Dr.N.Senthilkumar
			4	Dr.S.Chandra
04/03/2021	6 HOURS		Modeling as a tool in drug development	Mr.R.Suresh
0 11 03/2021			Modeling and	Dr.V.Suresh
10/03/2021			simulation	Dr.N.Senthilkumar
	6 HOURS	POPULATION	Rational decisions regarding drug use and development using Population Modelling	Dr.S.Chandra
				Mr.R.Suresh
		MODELING	Population Modelling in Biopharmaceutics applications	Dr.V.Suresh
				Dr.N.Senthilkumar
	6 HOURS			Dr.S.Chandra
18/03/2021			The Components of Population Models	Mr.R.Suresh
	Onoons		Estimation parameters	Dr.V.Suresh
			in the model	Dr.N.Senthilkumar
			Graphical evaluations	Dr.S.Chandra
26/03/2021	6 HOURS		of the data in Population Models	Mr.R.Suresh
	Tarana mana		Software and Modeling	Dr.V.Suresh
Tota	l hours = 30		Environment	Dr.N.Senthilkumar

Dr. N. SENTHILKUMAR.

PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION

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JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY PRINCIPAL.

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

Dr. N. SENTHILKUM Principal

ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY THIRMEDU. KOMARA PALAYAM - 536 183.

NAMAKKAL DISTRICT, TAMILNADU, INDIA.

## JKKMMRF'S ANNAI JKKSAM' OORANIAMMAL COLL GE OF PHARMACY, KOMARAPALAYAM



## **Department of Pharmaceutics**

#### **RESOURCE PERSONS**

Dr.S. Dr.N.SENTHILKUMAR., M. PHARM, Ph.D.,

Professor, JKKMMRF'S Annai JKK sampoorani ammal College of pharmacy, komarapalayam.

Dr. V. SURESH., M. PHARM, Ph.D.,

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

Professor, JKKMMRF'S Annai JKK sampoorani ammal College of pharmacy, komarapalayam.

Mr. R. SURESH., M. PHARM,

Professor, JKKMMRF'S Annai JKK sampoorani ammal College of pharmacy, komarapalayam.

# COURSE TITLE POPULATION MODELING

### **TOPICS**

Population Modeling in pharma industry
Population Modeling Based Drug Development

Modeling as a tool in drug development Modeling and simulation

Rational decisions regarding drug use and development using Population Modelling

Population Modelling in Biopharmaceutics applications

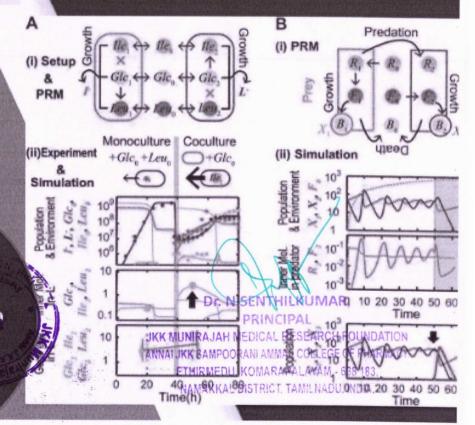
The Components of Population Models
Estimation parameters in the model

Graphical evaluations of the data in Population Models

Software and Modeling Environment

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DATE: 01/03/2021 To 26/03/2021 TIME:09.30AM=04.30 PM VENUE:SEM!RAR HALL





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LIST OF STUDENTS ENROLLED FOR THE COURSE ADDON COURSE TITLE- POPULATION MODELING						
S.NO	REG.NO	NAME OF THE STUDENT	COURSE	SIGNATURE		
1	261120507501	ANANTHAKUMAR R	M.PHARM-SEM-I	P. Ananthay		
2	261120507502	DEVANANDH D	M.PHARM-SEM-I	D. Do bahdh		
3	261120507503	GOKUL L	M.PHARM-SEM-I	1. Crokul.		
4	261120507504	GOWTHAM K	M.PHARM-SEM-I	R. Gon from		
5	261120507505	GOWTHAMAN T	M.PHARM-SEM-I	Gow Marman T		
6	261220507506	REVATHI J	M.PHARM-SEM-I	J. Really		
7	261220507507	SOMASUNDARAM P	M.PHARM-SEM-I	gomasondanan 1		
8	261220507508	STELLAMARY D	M.PHARM-SEM-I	D. Stellandery		
9	261220507509	SUGANTHI P	M.PHARM-SEM-I	P. Svalet		
10	261220507510	VINODHINI P	M.PHARM-SEM-I	P. vinodthan		
11	261320507501	ASARUDEEN A	M.PHARM-SEM-I	Pa Agrew		
12	261320507502	ASWIN KUMAR N	M.PHARM-SEM-I	Asin Kim . A		
13	261320507503	HARIPRAKASH K	M.PHARM-SEM-I	Mari Dearlesh 1K		
14	261320507504	KARTHICK S	M.PHARM-SEM-I	C. Kosthick		
15	261520507501	AHAMMED SHABEEN	M.PHARM-SEM-I	Am Shul		
	261520507502	ANAND P	M.PHARM-SEM-I	P. Arond.		
16	261520507502	BHAVANA R	M.PHARM-SEM-I	D. Bhoyans		
18	261520507504	FASILA LULU FAISAL	M.PHARM-SEM-I	Face Luke Eas		
19	261520507505	FITHAL K JYOTHISH	M.PHARM-SEM-I	FIRE JUDE		
	261620507501	AJITHKUMAR B	M.PHARM-SEM-I	B. Andhorse		
20	261620507502	AKASH RAJ K	M.PHARM-SEM-I	K. Oh V but		
21		DIVYA SHALINI B	M.PHARM-SEM-I	Divid Shalining		
22	261620507503	GANESH S	M.PHARM-SEM-I	Silvanesh		
23	261620507504 261620507505	HEMAMALINI B	M.PHARM-SEM-I	Hema. R		
24		ABIRAMI S	I-PHARM D	Phipami's		
25	380020507501	AKESH S	I-PHARM D	C. Alpesh.		
26	380020507502	CHARANKUMAR C	I-PHARM D	C. Chankeun		
27	380020507503	DHANUSHKUMAR S	I-PHARM D	Dan Chush S		
28	380020507504	EDWIN V REJI	I-PHARM D	Falura V Reil		
29	380020507505	FALAHUDDHARAIN R	I-PHARM D	For Milk.		
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32	381910411	JAYA PRIYA N JEBIN MISHAEL DAVIS S	II-PHARM D	Jen 19		
33	381910412		II-PHARM D	M. Jay itha		
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Dr. N. SENTHILKUMAR, PRINCIPAL.

ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY KK MUNIRAJAH MEDICAL RESEARCH FOUNDS

ETHIRMEDU, KOMARAPALAYAM - 638 183 NAMAKKAL DISTRICT, TAMILNADU.

Dr. N.SENTHIL

PRINCIPAL

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

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46	381710411	MUKILAN M	IV-PHARM D	M. Mugliba
47	381710412	NATHIYA A	IV-PHARM D	prality
48	381710413	PREETHI T	IV-PHARM D	T. Quel
49	381710414	PUSHPARAJ A	IV-PHARM D	A. Pushparaj
50	381710415	RAGHUL G	IV-PHARM D	Cr. Poget
51	381710416	SHANGEETHA S	IV-PHARM D	Skarondays
52	381710417	SUDHARSAN V	IV-PHARM D	V. Sudharen
53	381710418	SULIMAN B	ĮV-PHARM D	B. Sulman
54	381710419	TAMIL SELVAN S	IV-PHARM D	J. Tomil Bbn
55	381710420	VEDIYAPPAN V	IV-PHARM D	V. Xediyeppon
56	381710421	YOGAVARSHINI K S	IV-PHARM D	Yoga Me to
57	381610412	KRIPA VARGHESE	V-PHARM D	Kill But
58	381610413	LINSHA BABU	V-PHARM D	Logla By
59	381610414	MANOJ S	V-PHARM D	S. White
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61	381610416	NAVEEN KUMAR B	V-PHARM D	B. While the
62	381510406	HIMAJA.G	VI-PHARM D	Historica G
63	381510407	JEBISHA.Y. J	VI-PHARM D	Soloh / J
64	381510408	MARIA REJI	VI-PHARM D	Maria Rest
65	381510409	MERTYL TINA DAVID	VI-PHARM D	Mental Too Dal

HOD



Dr. N. SENTHILKUMAR, PRINCIPAL,

NAMAKKAL DISTRICT, TAMILNADU.

Dr. N.SENTHILKUMAR.

PRINCIPAL

NAMAKKAL DISTRICT, TAMILNADU, INDIA.

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATIONKK MUNIRAJAH MEDICAL RESEARCH FOUNDATIONAL ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACINNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACINNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACIN



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			ATTENDANCE	04/02	0.4/02	10/02	10/02	26/03
S.NO	REG.NO	NAME OF THE STUDENT	COURSE	01/03	04/03	10/03	18/03	-
1	261120507501	ANANTHAKUMAR R	M.PHARM-SEM-I		V	~	V	
2	261120507502	DEVANANDH D	M.PHARM-SEM-I	A	V		V	V
3	261120507503	GOKUL L	M.PHARM-SEM-I					A
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9	261220507509	SUGANTHI P	M.PHARM-SEM-I	~		_		
10	261220507510	VINODHINI P	M.PHARM-SEM-I	~	·	~		~
11	261320507501	ASARUDEEN A	M.PHARM-SEM-I	A	~			
12	261320507502	ASWIN KUMAR N	M.PHARM-SEM-I					1
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14	261320507504	KARTHICK S	M.PHARM-SEM-I		~	/		-
15	261520507501	AHAMMED SHABEEN	M.PHARM-SEM-I	~	~	~	~	~
16	261520507502	ANAND P	M.PHARM-SEM-I	~		A	V	V
17	261520507503	BHAVANA R	M.PHARM-SEM-I	~	~	~	V	1
18	261520507504	FASILA LULU FAISAL	M.PHARM-SEM-I	~	*	~	V	1
19	261520507505	FITHAL K JYOTHISH	M.PHARM-SEM-I		V	1	V	A
20	261620507501	AJITHKUMAR B	M.PHARM-SEM-I	~	~		V	V
21	261620507502	AKASH RAJ K	M.PHARM-SEM-I	~	I	A	~	V
22	261620507503	DIVYA SHALINI B	M.PHARM-SEM-I	~	V	V	V	V
23	261620507504	GANESH S	M.PHARM-SEM-I		~	V	V	1
24	261620507505	HEMAMALINI B	M.PHARM-SEM-I	~		V	V	-
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26	380020507502	AKESH S	I-PHARM D	~	~	V	1	V
27	380020507503	CHARANKUMAR C	I-PHARM D	~	V	V	V	V
28	380020507504	DHANUSHKUMAR S	I-PHARM D	V	1	V	1	V
29	380020507505	EDWIN V REJI	I-PHARM D	1	1		A	-
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34	381910412	JEEVITHA M	II-PHARM D	V	V		1	/
35	381910414	JOSEPH CHINNAPPA RAJ J	II-PHARM D	V	1		1	/
36	381910414	JOTHIMANI S	II-PHARM D	1	1		1	/
37	381910416	KIRUTHIGA O B	II-PHARM D		V			1
38	381910417	MAHALAKSHMI M	II-PHARM D	V	V			
39		NAVEENA S	II-PHARM D	A	10	10	1	1

Dr. N. SENTHILKUMAR, PRINCIPAL,

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

PRINCIPAL

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

	40	381810421	NANTHISH N	III-PHARM D	A			1	-
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	42	381810423	NAVEEN V	III-PHARM D	-	-	A	7	7
	43	381810424	OMARALI THANGAL V	III-PHARM D		-7	7	-	1
	44	381810425	PAPITHA S	III-PHARM D	-	~	7	1	1
	45	381710409	KAVINKISHORE S	IV-PHARM D		1	7	1	-
	46	381710411	MUKILAN M	IV-PHARM D	1		1	120	7
	47	381710412	NATHIYA A	IV-PHARM D	-	_		1	-
	48	381710413	PREETHI T	IV-PHARM D		1	1	-	
	49	381710414	PUSHPARAJ A	IV-PHARM D	1	~	7	7	
1	50	381710415	RAGHUL G	IV-PHARM D		A	7	1	
1	51	381710416	SHANGEETHA S	IV-PHARM D	-		1	1	
H	52	381710417	SUDHARSAN V	IV-PHARM D		7	~		~
-	53	381710418	SULIMAN B	IV-PHARM D	-	1	~	~	7
	54	381710419	TAMIL SELVAN S	IV-PHARM D	-			./	A
	55	381710420	VEDIYAPPAN V	IV-PHARM D	-	~	7	1	1
	56	381710421	YOGAVARSHINI K S	IV-PHARM D	-	1	~	7	1
	57	381610412	KRIPA VARGHESE	V-PHARM D	1	1	7	-	1
	58	381610413	LINSHA BABU	V-PHARM D	1	1	A	1	7
	59	381610414	MANOJ S	V-PHARM D		-		1	1
	60	381610415	MONITTA ROBINSON D	V-PHARM D	1		-	-	-
	61	381610416	NAVEEN KUMAR B	V-PHARM D			1	1	1
	62	381510406	HIMAJA.G	VI-PHARM D	A	7	1	A	-
	63	381510407	JEBISHA.Y. J	VI-PHARM D	1	-	-	7	7
	64	381510408	MARIA REЛ	VI-PHARM D	_				-
	65	381510409	MERTYL TINA DAVID	VI-PHARM D	1	1	1	7	A

= 65 No. Of students Enrolled

= 65 No. Of students Present

No. Of students Absent

SIGNATURE OF STAFF

Dr. N. SENTHILKUMAR, PRINCIPAL,

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

Principal

Dr. N.SENTHILKUMAR.

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

ETHIRMEDIL KOMARADAL MANAL SAMPOORANI AMMAL COLLEGE OF PHARMACY. ETHIRMEDU, KOMARAPALAYAM - 638 183.

NAMAKKAL DISTRICT, TAMILNADU, IN



Ethirmedu, **B.Komarapalayam** — 638 183, Namakkal Dist. Tamilnadu. India Approved by: Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai. Website: <a href="www.jkkmmrfpharmacy.edu.in">www.jkkmmrfpharmacy.edu.in</a> |E-Mail: <a href="mailto:principal@jkkmmrfpharmacy.edu.in">principal@jkkmmrfpharmacy.edu.in</a>

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

### ADD-ON COURSE- STUDENT ANSWER SHEET

ADD-ON COURSE TITLE	POPULATION MODELING				
NAME OF THE STUDENT	NAVEEN.Y				
DATE	,				
REGISTER NO	381810423				
COURSE/YEAR/SEM	II PHARM. D MARKS OBTAINED: (48)				
SIGNATURE	STUDENT: Naveen y STAFF: Mitame				

Duration: 01:00 Hour	Maximum Marks:50
Population modeling requires accurate information on     a) Do Sing b) Measurements c) Covariates d) All of the above	2
2. Which is not a mechanism fox pharmacokinetic analysis a) Compartment analysis c) Physiological modeling b) Non compartment d) Human model	2
3. Which organ will make up the peripheral organ?  (a) Lungs b) Liver c) Kidney d) Pancreas	2
4. What type of drug administration will have shown the compartment (a) IV administration (b) Oral administration (c) Rectal administration (d) Sublingual administration	nent at 1-K10 2
5. In which model compartments are joined in stories?  a) Compartment model b) Cater nary model c) Physiologic model d) Mamillary model.	Dr. N. SENTHILKUMAR, PRINCIPAL,
JKK MUI	NIRAJAH MEDICAL RESEARCH FOUNDATION

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

The area under first moment b) Area under c) Area under first curve d) Area under	Zero moment der zero curve
7. The process by which molecules diffuse from external energy expanded is called a) Active transport b) Passive transport c) Passive transport c)	2
8. Which law states about concentration difference (a) Fick's law b) Avogadro's law c) Hook's law	ence and is inversely proportional to membrane? w d) Pascal's law 2
9. Which of the following is a not mechanism o a) Pore transport b) Active transport c) Endocyto	f drug absorption through GIT? 2 osis d) Metastasis
10. The process of engulfing of particulate mat a) Pinocytosis b Phagocytosis c) convective trans	erial is Called as 2 sport d) facilitated transport
11. Which of the following process is called as a Pinocytosis b) Phagocytosisc) pore transport d)	
12. The absorption of drug like  (a) Ion pair transport b) convective transport c) Active transport d) Pore transport	2
13. Fick's law is used for study for  a) Dissolution rate c) Dissociation rate d) Diffusion rate	ate 2
14. The delivery of drug through skin is known a) Sublingual b) Transdermal c) inhalati	
15. Rate of absorption of drug by passive diffusion and small intestine b) Stomach c) esophage	sion is maximum in 2 gus d) Large intestine
16. Maximum movement of drugs across the man a) completely ionized b) partially ionized c)	nembrane occurs by 2 Anionized d) None of them
17. Which of the following statistical methods and Regression analysis by t-tests containing analysis	of variants d) all the above stimulation results?
a) STERIMOL b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumptions of the following is a quantum chemical b) Taft consumption consumptio	stant
19. Find the analogues to σ constant?  a) log P b) Rt c) ES (d) p-ka	2
20. Find analogues to π constant?	Dr. N. SENTHILKUMAR, PRINCIPAL, JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATIO ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMAC ETHIRMEDU, KOMARAPALAYAM - 638 183. NAMAKKAL DISTRICT, TAMILNADU.

2 21. Which model is also known as membrane permeation rate limited b) compartment model a) physiological model d) Hammily model c) non-compartment model 2 22. What is the sigma growth curve called? a) exponential growth curve (b) logistic growth curve d) Interactive curve c) Declining growth curve 23. which model applies equation computational procedure to solve equation? 2 a) Dynamic model (b) Numeric model c) static model d) analytical 24. Which model changes over time the results from System activities? 2 (a) Dynamic model b) numeric model c) static model d) analytical 2 25. Which one the following is principal organ for drug Excretion. d) Sweat glands c) Kidneys a) Lungs b) Liver

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



Dr. N. SENTHILKUMAR PRINCIPAL,

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



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#### ADD-ON COURSE- ANSWER SHEET

PROGRAMME NAME

DATE

POPULATION MODELING 26/03/2021

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

Duration: 01:00 Hour	Maximum Marks:50
1. Population modeling requires accurate information on a) Do Sing b) Measurements c) Covariates d) All of the above ANSWER:D	2
2.Which is not a mechanism fox pharmacokinetic analysis a) Compartment analysis b) Non compartment c)Physiological modeling d) Human model ANSWER:D	2
3.Which organ will make up the peripheral organ? a) Lungs b) Liver c) Kidney d) Pancreas ANSWER:D	2
4.What type of drug administration will have shown the compartment a) IV administration b) Oral administration c) Rectal administration d) Sublingual administration ANSWER:A	nt at 1-K10 2
5. In which model compartments are joined in stories? a) Compartment model b) Cater nary model c) Physiologic model d) Mamillary model. ANSWER:B	2
6. In non-compartment analysis mean residence time is equal to a) The area under first moment b) Area under Zero moment c) Area under first curve d) Area under zero curve ANSWER:A	2
TE ST STATE OF THE	SENTHILKUMAR, PRINCIPAL

8. Which law states about concentration difference and is inversely proportional to membrane? a) Fick's law b) Avogadro's law c) Hook's law d) Pascal's law ANSWER:A 2 9. Which of the following is a not mechanism of drug absorption through GIT? a) Pore transport b) Active transport c) Endocytosis d) Metastasis ANSWER:D 10. The process of engulfing of particulate material is Called as a) Pinocytosis b) Phagocytosis c) convective transport d) facilitated transport ANSWER:B 11. Which of the following process is called as cell "drinking"? a) Pinocytosis b) Phagocytosisc) pore transport d) Active transport. ANSWER:A 2 12. The absorption of drug like a) Ion pair transport b) convective transport c) Active transport d) Pore transport ANSWER:A 13. Fick's law is used for study for b) disintegration rate a) Dissolution rate c)Dissociation rate d) Diffusion rate ANSWER:D 2 14. The delivery of drug through skin is known as a) Sublingual b) Transdermal c) inhalation d) Buccal. ANSWER:B 15. Rate of absorption of drug by passive diffusion is maximum in 2 b) Stomach c) esophagus d) Large intestine a) small intestine ANSWER:A 2 16. Maximum movement of drugs across the membrane occurs by a) completely ionized b) partially ionized c) unionized d) None of them ANSWER:C 17. Which of the following statistical methods are commonly used to analyze stimulation a) Regression analysis b) t-tests c) analysis of variants d) all the above 2 ANSWER:D Dr. N.SENTHILKUMAR, PRINCIPAL

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

a) Active transport b) Passive transport c) Passive diffusion d) Pore

ANSWER:B

a) STERIMOL b) Taft constant c) Highest occupied material d) Hammett's constant	2
ANSWER:C	
19. Find the analogues to σ constant? a) log P b) Rt c) ES d) p-ka ANSWER:D	2
20. Find analogues to π constant? a) pk b) K'c)ES d) mw ANSWER:B	2
21. Which model is also known as membrane permeation rate limited	
a) physiological model b) compartment model c) non-compartment model d) Hammily model ANSWER:A	
22. What is the sigma growth curve called? a) exponential growth curve b) logistic growth curve c) Declining growth curve d) Interactive curve ANSWER:B	2
23. which model applies equation computational procedure to solve equation?  a) Dynamic model b) Numeric model c) static model d) analytical ANSWER:B	2
24. Which model changes over time the results from System activities?  a) Dynamic model b) numeric model c) static model d) analytical ANSWER:A	2
25. Which one the following is principal organ for drug Excretion. a) Lungs b) Liver c) Kidneys d) Sweat glands ANSWER:A	

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



Dr. N.SENTHILKUMAR, PRINCIPAL

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

#### MARK STATEMENT

Date:26/03/2021

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1	261120507501	ANANTHAKUMAR R	M.PHARM-SEM-I	44	88
1	261120507502	DEVANANDH D	M.PHARM-SEM-I	32	64
3	261120507503	GOKUL L	M.PHARM-SEM-I	48	96
4	261120507504	GOWTHAM K	M.PHARM-SEM-I	32	64
5	261120507505	GOWTHAMAN T	M.PHARM-SEM-I	48	96
6	261220507506	REVATHI J	M.PHARM-SEM-I	32	64
7	261220507507	SOMASUNDARAM P	M.PHARM-SEM-I	44	88
	261220507508	STELLAMARY D	M.PHARM-SEM-I	34	66
8	261220507509	SUGANTHI P	M.PHARM-SEM-I	42	84
9	261220507510	VINODHINI P	M.PHARM-SEM-I	32	64
10	261320507501	ASARUDEEN A	M.PHARM-SEM-I	42	84
11	261320507502	ASWIN KUMAR N	M.PHARM-SEM-I	48	96
12	261320507503	HARIPRAKASH K	M.PHARM-SEM-I	32	64
13	261320507504	KARTHICK S	M.PHARM-SEM-I	36	72
14	261520507501	AHAMMED SHABEEN	M.PHARM-SEM-I	46	92
15		ANAND P	M.PHARM-SEM-I	36	72
16	261520507502 261520507503	BHAVANA R	M.PHARM-SEM-I	42	84
17	261520507504	FASILA LULU FAISAL	M.PHARM-SEM-I	38	76
18	261520507505	FITHAL K JYOTHISH	M.PHARM-SEM-I	44	88
19	261620507501	AJITHKUMAR B	M.PHARM-SEM-I	38	76
20	261620507502	AKASH RAJ K	M.PHARM-SEM-I	48	96
21	261620507503	DIVYA SHALINI B	M.PHARM-SEM-I	38	76
22	261620507504	GANESH S	M.PHARM-SEM-I	46	92
23		HEMAMALINI B	M.PHARM-SEM-I	38	76
24	261620507505 380020507501	ABIRAMI S	I-PHARM D	36	72
25		AKESH S	I-PHARM D	44	88
26	380020507502	CHARANKUMAR C	I-PHARM D	42	84
27	380020507503	DHANUSHKUMAR S	I-PHARM D	48	96
28	380020507504	EDWIN V REJI	I-PHARM D	44	88
29	380020507505	FALAHUDDHARAIN R	I-PHARM D	36	72
30	380020507506	JACKSON SELVIN Y	II-PHARM D	42	84
31	381910410	JAYA PRIYA N	II-PHARM D	38	76
32	381910411	JEBIN MISHAEL DAVIS S	II-PHARM D	48	96
33	381910412	JEEVITHA M	II-PHARM D	46	92
34	381910413	JOSEPH CHINNAPPA RAJ J	II-PHARM D	38	76
35	381910414	JOSEPH CHINNAFFA RAJ J	II-PHARM D	46	92
36	381910415	KIRUTHIGA O B	II-PHARM D	34	68
37	381910416	MAHALAKSHMI M	II-PHARM D	46	92
38	381910417	NAVEENA S	II-PHARM D	42	84
39	381910418		/ III-PHARM D	42	84
40	381810421 381810422	NANTHISH N NAVEEN C S	III-PHARM D	36	72

Dr. N. SENTHILKUMAR, PRINCIPAL,

Principal Dr. N. SENTHILKUMAR. PRINCIPAL

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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNALJKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNALJKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION ETHIRMEDU, KOMARA PALAYAM - 638 183.

NAMAKKAL DISTRICT, TAMILNADU, INDIA.

				48	96
			III-PHARM D	42	84
42	381810423	NAVEEN V	III-PHARM D	38	76
42	381810424	OMARALI THANGAL V	III-PHARM D	44	88
43	381810425	PAPITHA S	IV-PHARM D	44	88
44	381710409	KAVINKISHORE S	IV-PHARM D	36	72
45	381710411	MUKILAN M	IV-PHARM D	38	76
46	381710412	NATHIYA A	IV-PHARM D		84
47	381710413	PREETHI T	IV-PHARM D	42	76
48	381710414	PUSHPARAJ A	IV-PHARM D	38	72
49	381710415	RAGHUL G	IV-PHARM D	36	92
50	381710416	SHANGEETHA S	IV-PHARM D	46	72
51	381710417	SUDHARSAN V	IV-PHARM D	36	96
52	381710418	SULIMAN B	IV-PHARM D	48	76
53	381710419	TAMIL SELVAN S	IV-PHARM D	38	88
54	381710420	VEDIYAPPAN V	IV-PHARM D	44	84
55	381710421	YOGAVARSHINI K S	V-PHARM D	42	72
56	381610412	KRIPA VARGHESE	V-PHARM D	36	
57	381610412	LINSHA BABU	V-PHARM D	42	84
58	381610414	MANOJS	V-PHARM D	38	76
59		MONITTA ROBINSON D	V-PHARM D	36	72
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63	381510407	MARIA REJI	VI-PHARM D	44	88
64	381510408	MERTYL TINA DAVID	VI-PHARW D		
65	381510409	IATTORCE AT			

60-70% Marks

= 06 students

70-80% Marks

= 23 students

More than 80% Marks

= 36 students

### **Outcome Attainment Rubrics:**

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

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

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

### Attainment level:

Since, 36 Students scored More than 80% of marks - Attainment level 3 Achieved.

Dr. N. SENTHILKUMAR, PRINCIPAL,

Dr. N.SENTHILKUMAR.

PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION MUNIRAJAH MEDICAL RESEARCH FOUNDATION ANNALIKK SAMPOORANI AMMAL COLLEGE OF PHARMADYALIKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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

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





### JKKMMRF's ANNAI JKK SAMPOORANI AMMAL

### **COLLEGE OF PHARMACY, KOMARAPALAYAM.**

#### **DEPARTMENT OF PHARMACEUTICS**

STUDENT FEED	DBACK FORM
NAME OF STUDENT: Anand, P	REGISTRATION NO: 26 15 2050 750
COURSE: M. Pharm Prodices	YEAR & SEMESTER: M. Pharm 2-Sem
SEMINAR TOPIC: Population modeling	DATE & TIME: 01/03/21 to 26/03/2
1. Overall, how satisfied were you with this semin Very satisfied Satisfied Neutral Dissatisfied Very dissatisfied	nar?
2. How clear were the ideas and concepts we pres  Extremely clear  Very clear  Moderately clear  Not very clear  Not at all clear	ented?
3. What percentage of the information was new to  100%  75%  50%  25%  0%  4. How informative did you find our seminar?  Extremely Informative  Very Informative	S M
Moderately Informative arch.	Dr. N. SENTHILKUMAR, PRINCIPAL,

Not very informative

Not informative at attended to

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION ANNALJKK SAMPOORANI AMMAL COLLEGE OF PHARMES ! ETHIRMEDU, KOMARAPALAYAM - 638 183. NAMAKKAL DISTRICT, TAMILNADU.

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	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1
	Very clear	
	Moderately clear	
	Not very clear	
	Not at all clear	
8.	How accurate was the session description?	í
	Extremely clear	*
	C Very clear	
	Moderately clear	
	Not very clear	q"er
	Not at all clear	
		S. L. A. Frankland Cond. Frin Provi
9.	How did the session compare to your expectations?	Select: Excellent Good Fair Foor
	7 Excellent	
	Good	
	Fair	
	Poor	
	Not at all clear	
10	. How Would you rate the content of the seminar?	
	C 1	
	C 2	
	S/ 3	
	C 4	
	C 5 Chappy	adical Kee
	Dr. N. SENTHILKUMAR, PRINCIPAL,	D. Mooorani annual co
	JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION	Student Name & Signature
	ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMAC ETHIRMEDU, KOMARAPALAYAM - 638 183.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	NAMAKKAL DISTRICT, TAMILNADU.	Washington Williams



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

PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION Annai JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY. Dr. N.SENTHILKUMAR.

PRINCIPAL

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

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

HOD

		Good	3	
		Fair	2	
		Poor	1	
	100	Not at all clear	0	
		1	1	
Rate the content of the seminar		2	2	
		3	3	5
	4	4		
		5	5	

Total marks = 50



Dr. N. SENTHILKUMAR, PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION

NAMAKKAL DISTRICT, TAME LANGE

Principal

Dr. N.SENTHILKUMAR. PRINCIPAL

ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM 633 183.

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



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**PHOTOGRAPH** 

DATE: 26/03/2021



Add-on course regarding the Topic Population Modeling in Biopharmaceutical Applications conducted on 10.03.2021, the speech delivered by Dr.V.Suresh.,M.Pharm.,PhD.,Professor & Head, which was an interactive session and students could able to understand the population modeling in the biopharmaceutical applications in various areas in the fields of pharmaceutical sciences

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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**



VALUE ADDED COURSE Organized by Department of Pharmaceutics



Certificate of Participant

Has appreciated for his/her participation in VALUE ADDED COMPSE

Population Modelling 01/03/2021 to 26/03/2021

Coordinator

H.O.D

Principal



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



VALUE ADDED COURSE
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Department of Pharmaceutics



## Certificate of Participant

JEEVITHA.M

Has appreciated for his/her participation in VALUE ADDED COURSE on

Population Modelling 01/03/2021 to 26/03/2021

8.2

5. W

Principal

Coordinator

H.O.D



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



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H.O.D

**Principal** 

Coordinator