



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

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

REPORT SUMMARY

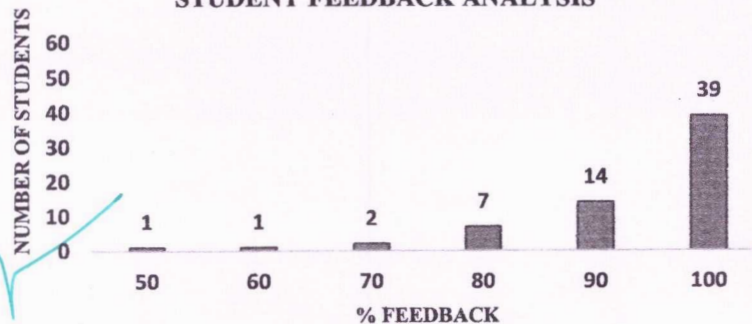
Date: 29/11/2021

Academic year	2021-2022
Add-on course title	Artificial neural network
Date	09/11/2021 To 29/11/2021
Duration of the Course	30 HOURS
Total participants Enrolled	67
Successfully Completed	64
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none">Artificial neural network program provides the knowledge on artificial neural network as helping tool for drug formulation strategies.In this training program students acquire artificial neural network knowledge to apply in pharmaceutical sciences.
Outcome Attainment	38 Students scored more than 80% of marks - Attainment level 3 Achieved

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

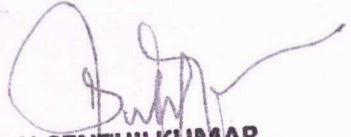
STUDENT FEEDBACK ANALYSIS




Dr. N.SENTHILKUMAR,
PRINCIPAL

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




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'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

DATE: 29/11/2021

REPORT

ADDON COURSE TITLE- ARTIFICIAL NEURAL NETWORK

VENUE-SEMINAR HALL

RESOURCE PERSONS

Dr.N.SENTHILKUMAR., 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.

Dr. V.SURESH., 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.

No. of students enrolled: 67

No. of students certified:64

OBJECTIVE OF THE COURSE

The objective of this value-added artificial neural network program provides the knowledge on artificial neural network as helping tool for drug formulation strategies and artificial neural networks in the process analytical technology of pharmaceutical manufacturing techniques. In this training program students acquire artificial neural network knowledge to apply in pharmaceutical sciences.

LEARNING OUTCOMES FROM THE COURSE

- Artificial Neural Network as Helping Tool for Drug Formulation Strategies
- Artificial Neural Networks in the Process Analytical Technology of Pharmaceutical Manufacturing
- Artificial Neural Networks innovative manufacturing in pharma sector
- Prospects of Artificial Neural Networks
- Application of Artificial Neural Networks in Modern Drug Discovery



Dr. N.SENTHILKUMAR,
PRINCIPAL

Dr. N.SENTHILKUMAR,
PRINCIPAL

Principal

J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S
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

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. MPH. Dr. J.K.K. MUNIRAJAH M.Tech., (Bolton)
Correspondent

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

REF.NO:JKKM/PHARM/CEU/REQ/2021/011

Date: 29/10/2021

From

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

To

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

Subject: Letter for requesting Permission to Conduct an **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 **09/11/2021 to 29/11/2021**. We wish to conduct a add-on course regarding the title **Artificial Neural Network**. 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,

ob printed
[Signature] 29/10/21

[Signature]

Yours sincerely,

[Signature]
Head Of the Department

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'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

DATE: 29/10/2021

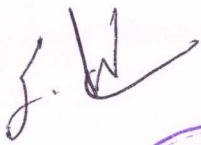
CIRCULAR

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 PHARACY, KOMARAPALAYAM and it will be commenced as per the schedule:


COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
ARTIFICIAL NEURAL NETWORK	09/11/2021 To 29/11/2021	30 HOURS	SEMINAR HALL	DR.N.SENTHILKUMAR DR.S.CHANDRA MR.R.SURESH DR.V.SURESH

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

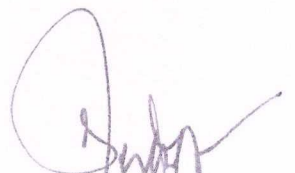
NOTE: Certificates should be issued to all the students after completion of the course and examination.


HOD




Dr. N. SENTHILKUMAR,
PRINCIPAL,

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


Dr. N. SENTHILKUMAR,
PRINCIPAL

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



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

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

SYLLABUS

DATE	HOURS	TOPIC	SUBTOPICS	RESOURCE PERSON
09/11/2021	6 HOURS	Artificial neural network	Artificial Neural Network as Helping Tool for Drug Formulation Strategies	Dr.S.Chandra
				Mr.R.Suresh
			Artificial Neural Networking in Controlled Drug Delivery	Dr.V.Suresh
				Dr.N.Senthilkumar
11/11/2021	6 HOURS		Neural Networks and Computational Complexity	Dr.S.Chandra
				Mr.R.Suresh
			Artificial Neural Networks in the Process Analytical Technology of Pharmaceutical Manufacturing	Dr.V.Suresh
				Dr.N.Senthilkumar
17/11/2021	6 HOURS	Artificial Neural Networks innovative manufacturing in pharma sector	Dr.S.Chandra	
			Mr.R.Suresh	
		ANNs in upstream processes in API manufacturing	Dr.V.Suresh	
			Dr.N.Senthilkumar	
25/11/2021	6 HOURS	ANNs in downstream processes in pharma manufacturing	Dr.S.Chandra	
			Mr.R.Suresh	
			Dr.V.Suresh	

HOD



Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

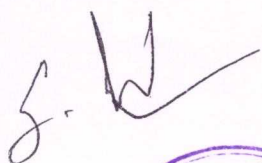
Principal

Dr. N. SENTHILKUMAR,
PRINCIPAL

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

			Prospects of Artificial Neural Networks	Dr.N.Senthilkumar
29/11/2021	6 HOURS		Prediction of <i>in vitro</i> dissolution by neural network	Dr.S.Chandra
				Mr.R.Suresh
			Application of Artificial Neural Networks in Modern Drug Discovery	Dr.D.Krishnarajan
				Dr.N.Senthilkumar

TOTAL HOURS= 30



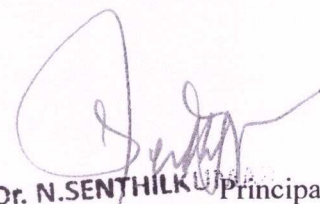
HOD





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

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



Dr. N.SENTHILKUMAR, Principal

PRINCIPAL

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

**JKKMMRF'S
ANNAL
KKSAMPOORANI
AMMAL
COLLEGE OF
PHARMACY,
OMARAPALAYAM**

**Department of
Pharmaceutics**

JE:SEMINAR HALL

09/11/2021 To 29/11/2021

09.30 AM-04.30 PM



with PosterMyWall.com

**COURSE TITLE
ARTIFICIAL NEURAL NETWORK**

RESOURCE PERSONS

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

Professor, JKKMMRF'S Annal JKK sampoorni ammal College of pharmacy, komarapalayam.

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

Professor, JKKMMRF'S Annal JKK sampoorni ammal College of pharmacy, komarapalayam.

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

Professor, JKKMMRF'S Annal JKK sampoorni ammal College of pharmacy, komarapalayam.

Mr. R. SURESH., M. PHARM,

Professor, JKKMMRF'S Annal JKK sampoorni ammal College of pharmacy, komarapalayam.

TOPICS

Artificial Neural Network as Helping Tool for Drug Formulation Strategies

Artificial Neural Networking in Controlled Drug Delivery

Neural Networks and Computational Complexity

Artificial Neural Networks in the Process Analytical Technology of Pharmaceutical Manufacturing

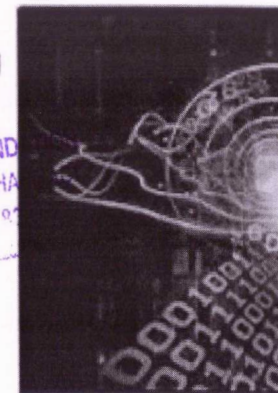
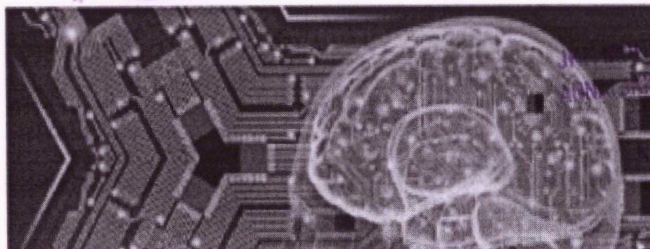
Artificial Neural Networks innovative manufacturing in pharma

ANNs in upstream processes in API manufacturing



**Dr. N.SENTHILKUMAR,
PRINCIPAL**

**RAJAH MEDICAL RESEARCH FOUNDATION
KKSAMPOORANI AMMAL COLLEGE OF PHARMACY
KOMARAPALAYAM**





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

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

LIST OF STUDENTS ENROLLED FOR THE COURSE

DATE: 29/11/2021

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	SIGNATURE
1	Pharm D/249/ 2021-22	AJAY MILAN P	I-PHARM D	Ajay Milan P
2	Pharm D/250/ 2021-22	AJAY SRINIVAS M	I-PHARM D	Ajay Srinivas M
3	Pharm D/251/ 2021-22	AZHAGURAJA B	I-PHARM D	Azhaguraja B
4	Pharm D/252/ 2021-22	DHARENI M	I-PHARM D	Dhareni M
5	Pharm D/253/ 2021-22	GOBIKA G	I-PHARM D	G. Gobika
6	Pharm D/254/ 2021-22	HARINI M	I-PHARM D	Harini M
7	Pharm D/255/ 2021-22	HARSHINI REETHU S	I-PHARM D	Harshini Reethu S
8	Pharm D/256/ 2021-22	HASAN MOHAMED K	I-PHARM D	Hasan
9	Pharm D/257/ 2021-22	JAGAN S	I-PHARM D	Jagan S
10	Pharm D/258/ 2021-22	JOHN BERLIN JOE J U	I-PHARM D	John Berlin Joe J U
11	Pharm D/259/ 2021-22	KANIMOZHI K	I-PHARM D	Kanimozhi K
12	380020507501	ABIRAMI S	II-PHARM D	S Abirami
13	380020507502	AKESH S	II-PHARM D	S. Akesh
14	380020507503	CHARANKUMAR C	II-PHARM D	Charankumar C
15	380020507504	DHANUSHKUMAR S	II-PHARM D	Dhanush Kumar S
16	380020507505	EDWIN V REJI	II-PHARM D	Edwin V Reji
17	380020507506	FALAHUDDHARAIN R	II-PHARM D	Falahuddin R
18	380020507507	GEHESH S V	II-PHARM D	Gehesh S V
19	380020507508	GUNASEKAR M	II-PHARM D	Gunasekar M
20	380020507509	KALAIKARUNA K	II-PHARM D	Kalai Karuna K
21	380020507510	KARTHIKEYAN K	II-PHARM D	K. Karthikeyan
22	380020507511	KEERTHI VASAN A	II-PHARM D	Keerthi Vasana A
23	381910402	ALSHADA SHARF	III-PHARM D	Alshada Sharf
24	381910403	ANCY B	III-PHARM D	B. Anancy
25	381910404	ARCHANA B	III-PHARM D	Archana B
26	381910405	BALAJI S	III-PHARM D	S. Balaji
27	381910406	BHARATH M	III-PHARM D	Bharath M
28	381910407	DHILIP KUMAR M	III-PHARM D	Dhilip Kumar M
29	381910408	DONY D	III-PHARM D	D. Dony
30	381810410	DIVIKA S	IV-PHARM D	Divika S
31	381810411	EZILKKAVIA S	IV-PHARM D	Ezilkkavia S
32	381810412	FELIC S	IV-PHARM D	S. Felicia
33	381810413	GNANAGURU C	IV-PHARM D	Gnanaguru C
34	381810414	GOPI B	IV-PHARM D	B. Gopi
35	381810415	KARTHIKA SREEKUMAR J	IV-PHARM D	Karthika Sreekumar J
36	381710407	JEBISH G S	V-PHARM D	Jebish G S
37	381710408	JEMISHA J	V-PHARM D	J. Jemisha
38	381710409	KAVINKISHORE S	V-PHARM D	Kavinkishore S
39	381710411	MUKILAN M	V-PHARM D	Mukilan M
40	381710413	PREETHI T	V-PHARM D	T. Preethi
41	381710414	PUSHPARAJ A	V-PHARM D	A. Pushparaj
42	381610406	BHARATH K	VI-PHARM D	Bharath K
43	381610407	BITTY R	VI-PHARM D	R. Bitty

HOD



Dr. N. SENTHILKUMAR,
PRINCIPAL

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

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.

44	381610408	DEEPAK K	VI-PHARM D	K. Deepak
45	381610409	FEBA SHAJI	VI-PHARM D	Feba Shaji
46	381610410	HARIHARAN V	VI-PHARM D	V. Hariharan
47	261120507501	ANANTHAKUMAR R	M.PHARM- SEM-III	R. Ananthakumar
48	261120507502	DEVANANDH D	M.PHARM- SEM-III	D. Devanandh
49	261120507503	GOKUL L	M.PHARM- SEM-III	L. Gokul
50	261120507504	GOWTHAM K	M.PHARM- SEM-III	Gowtham K
51	261120507505	GOWTHAMAN T	M.PHARM- SEM-III	Gowtham T
52	261120507506	KALPANA P	M.PHARM- SEM-III	P. Kalpana
53	261220507501	ARATHY P NAIR	M.PHARM- SEM-III	Arathy P. Nair
54	261220507502	EZHILARASAN S	M.PHARM- SEM-III	S. Ezhilarasan
55	261220507503	GOKUL T	M.PHARM- SEM-III	T. Gokul
56	261220507505	RAGAVI P	M.PHARM- SEM-III	P. Ragavi
57	261320507501	ASARUDEEN A	M.PHARM- SEM-III	A. Asarudeen
58	261320507502	ASWIN KUMAR N	M.PHARM- SEM-III	N. Aswin Kumar
59	261320507503	HARIPRAKASH K	M.PHARM- SEM-III	K. Hariprakash
60	261320507504	KARTHICK S	M.PHARM- SEM-III	S. Karthick
61	261320507505	KATHIRAVAN K N	M.PHARM- SEM-III	N. Kathiravan K
62	261520507502	ANAND P	M.PHARM- SEM-III	P. Anand
63	261520507503	BHAVANA R	M.PHARM- SEM-III	R. Bhavana
64	261520507504	FASILA LULU FAISAL	M.PHARM- SEM-III	Fasila Lulu Faisal
65	261520507505	FITHAL K JYOTHISH	M.PHARM- SEM-III	K. Fithal Jyothish
66	261520507506	HAMZAL HABEEB	M.PHARM- SEM-III	H. Hamzal Habeeb
67	261520507507	JANARTHANAN G	M.PHARM- SEM-III	G. Janarthanan

J. W.
HOD



Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

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'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

ADD ON COURSE-STUDENT ANSWER SHEET

ADD-ON COURSE TITLE	ARTIFICIAL NEURAL NETWORK	
NAME OF THE STUDENT	Archana.B	
DATE	29/11/2021	
REGISTER NO	381910404	
COURSE/YEAR/SEM	III - Pharm - D	MARKS OBTAINED: 48
SIGNATURE	STUDENT: Archana	STAFF: Ganesh

Duration: 01:00 Hour

Maximum Marks:50

- 1. Why do we need biological neural networks?** 2
 - a) to solve tasks like machine vision & natural language processing
 - b) to apply heuristic search methods to find solutions of problem
 - c) to make smart human interactive & user-friendly system
 - d) all of the mentioned
- 2. What is the trend in software nowadays?** 2
 - a) to bring computer more & closer to user
 - b) to solve complex problems
 - c) to be task specific
 - d) to be versatile
- 3. What's the main point of difference between human & machine intelligence?** 2
 - a) human perceive everything as a pattern while machine perceive it merely as data
 - b) human have emotions
 - c) human have more IQ & intellect
 - d) human have sense organs
- 4. What is auto-association task in neural networks?** 2
 - a) find relation between 2 consecutive inputs
 - b) related to storage & recall task

Dr. N. SENTHILKUMAR,
PRINCIPAL,

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



- c) predicting the future inputs
d) none of the mentioned
5. Does pattern classification belongs to category of non-supervised learning? 2
a) yes (b) no
6. In pattern mapping problem in neural nets, is there any kind of generalization involved between input & output? 2
(a) yes b) no
7. What is unsupervised learning? 2
a) features of group explicitly stated
b) number of groups may be known
(c) neither feature & nor number of groups is known
d) none of the mentioned
8. Does pattern classification & grouping involve same kind of learning? 2
a) yes
(b) no
9. Does for feature mapping there's need of supervised learning? 2
a) yes
(b) no
10. Example of a unsupervised feature map? 2
a) text recognition
(b) voice recognition
c) image recognition
d) none of the mentioned
11. What is plasticity in neural networks? 2
(a) input pattern keeps on changing
b) input pattern has become static
c) output pattern keeps on changing
d) output is static
12. What is stability plasticity dilemma ? 2
a) system can neither be stable nor plastic
b) static inputs & categorization can't be handled
(c) dynamic inputs & categorization can't be handled
d) none of the mentioned
13. Drawbacks of template matching are? 2
a) time consuming
(b) highly restricted
c) more generalized
d) none of the mentioned
14. Why do we need biological neural networks? 2
To make smart human interactive & user friendly system
a. To apply heuristic search methods to find solutions of problem
b. To solve tasks like machine vision & natural language processing
All of the above

Dr. N. SENTHILKUMAR,
PRINCIPAL,

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



15. Artificial neural network is used for

2

- a) Classification
- b) Clustering
- b. c) Pattern recognition
- c. d) All of the above

16. Artificial Neural Network is based on which approach?

2

- a) Weak Artificial Intelligence approach
- b) Cognitive Artificial Intelligence approach
- b. c) Strong Artificial Intelligence approach
- c. d) Applied Artificial Intelligence approach

17. Neural Network can answer

2

- a) For Loop questions
- a. b) what-if questions
- b. c) IF-The-Else Analysis Questions
- c. d) None of the mentioned

18. The first neural network computer:

2

- a) AM
- a. b) AN
- b. c) RFD
- c. d) SNARC

19. _____ computes the output volume by computing dot product between all filters and image patch

2

- a) Input Layer
- a. b) Convolution Layer
- b. c) Pool Layer
- c. d) Activation Function Layer

20. Which of the following is true for neural networks?

2

- a. It has a set of nodes and connections
- b. A node could be in an excited state or non-excited state
- c. Each node computes its weighted input
- d. All of the above

21. In the pharmaceutical industry, modernization is also promoted by the.....

2

- a. QbD
- b. PAT
- c. CMA
- d. All the above

22. Emerged as versatile tools to realize the aims of Industry/Pharma 4.0 is/are

- a. ML
- b. AI
- c. Both
- d. None

23. Elman network, LRNN, NARX, LSTM are called

- a. RNN
- b. AI
- c. ML
- d. None




Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

24. One of the following is a quantum chemical parameter?

2

- a) STERIMOL b) Taft constant
c) Highest occupied material d) Hammett's constant

25. The semiconductor material NOT used in LED is :

2

- a) Silicon carbide b) GaAsp c) Ga As d) S

***ALL THE BEST*



**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'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

ADD ON COURSE-ANSWER SHEET

PROGRAMME NAME

ARTIFICIAL NEURAL NETWORK

DATE

29/11/2021

Duration: 01:00 Hour

Maximum Marks:50

1. Why do we need biological neural networks? 2

- a) to solve tasks like machine vision & natural language processing
- b) to apply heuristic search methods to find solutions of problem
- c) to make smart human interactive & user-friendly system
- d) all of the mentioned

ANSWER:D

2. What is the trend in software nowadays? 2

- a) to bring computer more & closer to user
- b) to solve complex problems
- c) to be task specific
- d) to be versatile

ANSWER:A

3. What's the main point of difference between human & machine intelligence? 2

- a) human perceive everything as a pattern while machine perceive it merely as data
- b) human have emotions
- c) human have more IQ & intellect
- d) human have sense organs

ANSWER:A

4. What is auto-association task in neural networks? 2

- a) find relation between 2 consecutive inputs
- b) related to storage & recall task
- c) predicting the future inputs
- d) none of the mentioned

ANSWER:B

5. Does pattern classification belongs to category of non-supervised learning? 2

- a) yes b) no

ANSWER:B

6. In pattern mapping problem in neural nets, is there any kind of generalization involved between input & output? 2

- a) yes b) no

ANSWER:A




Dr. N.SENTHILKUMAR,
PRINCIPAL

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

- 7. What is unsupervised learning?** 2
 a) features of group explicitly stated
 b) number of groups may be known
 c) neither feature & nor number of groups is known
 d) none of the mentioned
 ANSWER:C
- 8. Does pattern classification & grouping involve same kind of learning?** 2
 a) yes
 b) no
 ANSWER:B
- 9. Does for feature mapping there's need of supervised learning?** 2
 a) yes
 b) no
 ANSWER:B
- 10. Example of a unsupervised feature map?** 2
 a) text recognition
 b) voice recognition
 c) image recognition
 d) none of the mentioned
 ANSWER:B
- 11. What is plasticity in neural networks?** 2
 a) input pattern keeps on changing
 b) input pattern has become static
 c) output pattern keeps on changing
 d) output is static
 ANSWER:A
- 12. What is stability plasticity dilemma ?** 2
 a) system can neither be stable nor plastic
 b) static inputs & categorization can't be handled
 c) dynamic inputs & categorization can't be handled
 d) none of the mentioned
 ANSWER:C
- 13. Drawbacks of template matching are?** 2
 a) time consuming
 b) highly restricted
 c) more generalized
 d) none of the mentioned
 ANSWER:B
- 14. Why do we need biological neural networks?** 2
 . To make smart human interactive & user friendly system
 a. To apply heuristic search methods to find solutions of problem
 b. To solve tasks like machine vision & natural language processing
 c. All of the above



Dr. N.SENTHILKUMAR,
 PRINCIPAL

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

ANSWER:B

15. Artificial neural network is used for

2

- . Classification
- a. Clustering
- b. Pattern recognition
- c. All of the above

ANSWER:B

16. Artificial Neural Network is based on which approach?

2

- . Weak Artificial Intelligence approach
- a. Cognitive Artificial Intelligence approach
- b. Strong Artificial Intelligence approach
- c. Applied Artificial Intelligence approach

ANSWER:B

17. Neural Network can answer

2

- . For Loop questions
- a. what-if questions
- b. IF-The-Else Analysis Questions
- c. None of the mentioned

ANSWER:B

18. The first neural network computer:

2

- . AM
- a. AN
- b. RFD
- c. SNARC

ANSWER:D

19. _____ computes the output volume by computing dot product between all filters and image patch

2

- . Input Layer
- a. Convolution Layer
- b. Pool Layer
- c. Activation Function Layer

ANSWER:B

20. Which of the following is true for neural networks?

2

- a. It has a set of nodes and connections
- b. A node could be in an excited state or non-excited state
- c. Each node computes its weighted input
- d. All of the above

ANSWER:D

21. In the pharmaceutical industry, modernization is also promoted by the.....

2

- a. QbD
- b. PAT
- c. CMA
- d. All the above

ANSWER:



Dr. N.SENTHILKUMAR,
PRINCIPAL

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

22. Emerged as versatile tools to realize the aims of Industry/Pharma 4.0 is/are

- a. ML b. AI c. Both d. None

ANSWER:

23. Elman network, LRNN, NARX, LSTM are called

- a. RNN b. AI c. ML d. None

ANSWER:

24. One of the following is a quantum chemical parameter? 2

- a) STERIMOL b) Taft constant
c) Highest occupied material d) Hammett's constant

ANSWER:

25. The semiconductor material NOT used in LED is : 2

- a) Silicon carbide b) GaAsp c) Ga As d) S

ANSWER:

***ALL THE BEST*



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'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in | E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

MARK STATEMENT

Date: 29/11/2021

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1.	Pharm D/249/ 2021-22	AJAY MILAN P	I-PHARM D	38	70
2.	Pharm D/250/ 2021-22	AJAY SRINIVAS M	I-PHARM D	44	88
3.	Pharm D/251/ 2021-22	AZHAGURAJA B	I-PHARM D	42	84
4.	Pharm D/252/ 2021-22	DHARENI M	I-PHARM D	42	84
5.	Pharm D/253/ 2021-22	GOBIKA G	I-PHARM D	38	76
6.	Pharm D/254/ 2021-22	HARINI M	I-PHARM D	36	72
7.	Pharm D/255/ 2021-22	HARSHINI REETHU S	I-PHARM D	36	72
8.	Pharm D/256/ 2021-22	HASAN MOHAMED K	I-PHARM D	42	84
9.	Pharm D/257/ 2021-22	JAGAN S	I-PHARM D	44	88
10.	Pharm D/258/ 2021-22	JOHN BERLIN JOE J U	I-PHARM D	46	92
11.	Pharm D/259/ 2021-22	KANIMOZHI K	I-PHARM D	40	80
12.	380020507501	ABIRAMI S	II-PHARM D	46	92
13.	380020507502	AKESH S	II-PHARM D	38	76
14.	380020507503	CHARANKUMAR C	II-PHARM D	42	84
15.	380020507504	DHANUSHKUMAR S	II-PHARM D	38	76
16.	380020507505	EDWIN V REJI	II-PHARM D	36	72
17.	380020507506	FALAHUDDHARAIN R	II-PHARM D	36	72
18.	380020507507	GEHESH S V	II-PHARM D	40	80
19.	380020507508	GUNASEKAR M	II-PHARM D	44	88
20.	380020507509	KALAIKARUNA K	II-PHARM D	46	92
21.	380020507510	KARTHIKEYAN K	II-PHARM D	42	82
22.	380020507511	KEERTHI VASAN A	II-PHARM D	42	84
23.	381910402	ALSHADA SHARF	III-PHARM D	38	76
24.	381910403	ANCY B	III-PHARM D	34	68
25.	381910404	ARCHANA B	III-PHARM D	48	96

HOD



Dr. N. SETHILKUMAR,
PRINCIPAL,

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

Dr. N. SETHILKUMAR,
PRINCIPAL

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

26.	381910405	BALAJI S	III-PHARM D	42	84
27.	381910406	BHARATH M	III-PHARM D	46	92
28.	381910407	DHILIP KUMAR M	III-PHARM D	38	76
29.	381910408	DONY D	III-PHARM D	40	80
30.	381810410	DIVIKA S	IV-PHARM D	38	76
31.	381810411	EZILKKAVIA S	IV-PHARM D	38	76
32.	381810412	FELIC S	IV-PHARM D	34	68
33.	381810413	GNANAGURU C	IV-PHARM D	42	84
34.	381810414	GOPI B	IV-PHARM D	42	84
35.	381810415	KARTHIKA SREEKUMAR J	IV-PHARM D	46	92
36.	381710407	JEBISH G S	V-PHARM D	32	64
37.	381710408	JEMISHA J	V-PHARM D	44	88
38.	381710409	KAVINKISHORE S	V-PHARM D	46	92
39.	381710411	MUKILAN M	V-PHARM D	36	72
40.	381710413	PREETHI T	V-PHARM D	34	68
41.	381710414	PUSHPARAJ A	V-PHARM D	46	92
42.	381610406	BHARATH K	VI-PHARM D	42	84
43.	381610407	BITTY R	VI-PHARM D	48	96
44.	381610408	DEEPAK K	VI-PHARM D	42	84
45.	381610409	FEBE SHAJI	VI-PHARM D	38	76
46.	381610410	HARIHARAN V	VI-PHARM D	36	72
47.	261120507501	ANANTHAKUMAR R	M.PHARM- SEM-III	42	84
48.	261120507502	DEVANANDH D	M.PHARM- SEM-III	44	88
49.	261120507503	GOKUL L	M.PHARM- SEM-III	46	92
50.	261120507504	GOWTHAM K	M.PHARM- SEM-III	36	72
51.	261120507505	GOWTHAMAN T	M.PHARM- SEM-III	46	92
52.	261120507506	KALPANA P	M.PHARM- SEM-III	46	92

HOD



Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

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.

53.	261220507501	ARATHY P NAIR	M.PHARM- SEM-III	36	72
54.	261220507502	EZHILARASAN S	M.PHARM- SEM-III	44	88
55.	261220507503	GOKUL T	M.PHARM- SEM-III	32	64
56.	261220507505	RAGAVI P	M.PHARM- SEM-III	36	72
57.	261320507501	ASARUDEEN A	M.PHARM- SEM-III	42	84
58.	261320507502	ASWIN KUMAR N	M.PHARM- SEM-III	42	84
59.	261320507503	HARIPRAKASH K	M.PHARM- SEM-III	46	92
60.	261320507504	KARTHICK S	M.PHARM- SEM-III	44	88
61.	261320507505	KATHIRAVAN K N	M.PHARM- SEM-III	46	92
62.	261520507502	ANAND P	M.PHARM- SEM-III	32	64
63.	261520507503	BHAVANA R	M.PHARM- SEM-III	36	72
64.	261520507504	FASILA LULU FAISAL	M.PHARM- SEM-III	40	80

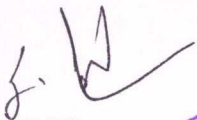
60-70% Marks = 07 students
70-80% Marks = 19 students
More than 80% Marks = 38 students

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

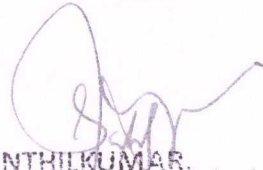
Attainment level:

Since, 38 Students scored more than 80% of marks - Attainment level 3 Achieved


HOD




Dr. N. SENTHILKUMAR,
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'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

STUDENTS FEEDBACK ANALYSIS

Date: 29/11/2021

S.NO	QUESTION DESCRIPTION	ANSWERS	MARKS	TOTAL MARKS
1	Satisfaction	Verysatisfied	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	
8		Extremely clear	5	5

HOD



Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

Dr. N.SENTHILKUMAR
PRINCIPAL

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



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



DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT: *Deepak K*

REGISTRATION NO: *381610408*

COURSE: *Pharm.D*

YEAR & SEMESTER: *6th Pharm.D*

SEMINAR TOPIC: *Artificial neural network*

DATE & TIME: *9/11/2021 to 29/11/2021*

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



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

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

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? Select: Excellent Good Fair Poor

Excellent

Good

Fair

Poor

Not at all clear

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

1

2

3

4

5


Dr. N. SENTHILKUMAR,
PRINCIPAL,

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


Student Name & Signature



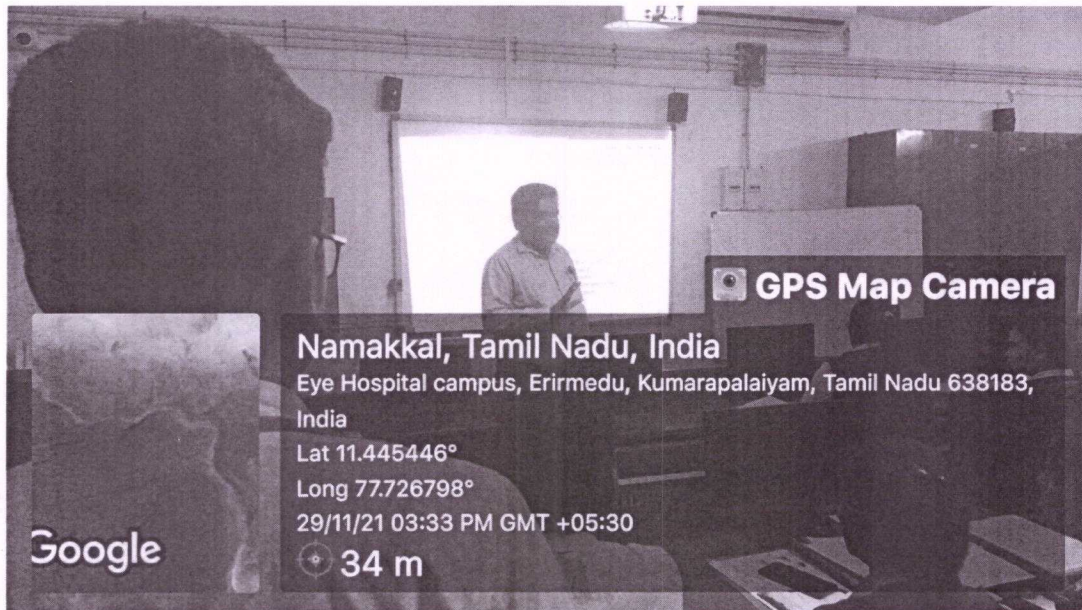


J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

PHOTOGRAPH

DATE: 29/11/2021



Add-on course regarding the Topic Application of Artificial Neural Networks in Modern Drug Discovery conducted on 29.11.2021, the speech delivered by Dr.N.Senthilkumar.,M.Pharm.,PhD.,Professor & Principal, which was an interactive session and students could able to understand the Application of Artificial Neural Networks in Modern Drug Discovery in various areas in the fields of pharmaceutical sciences



Dr. N.SENTHILKUMAR,
PRINCIPAL

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

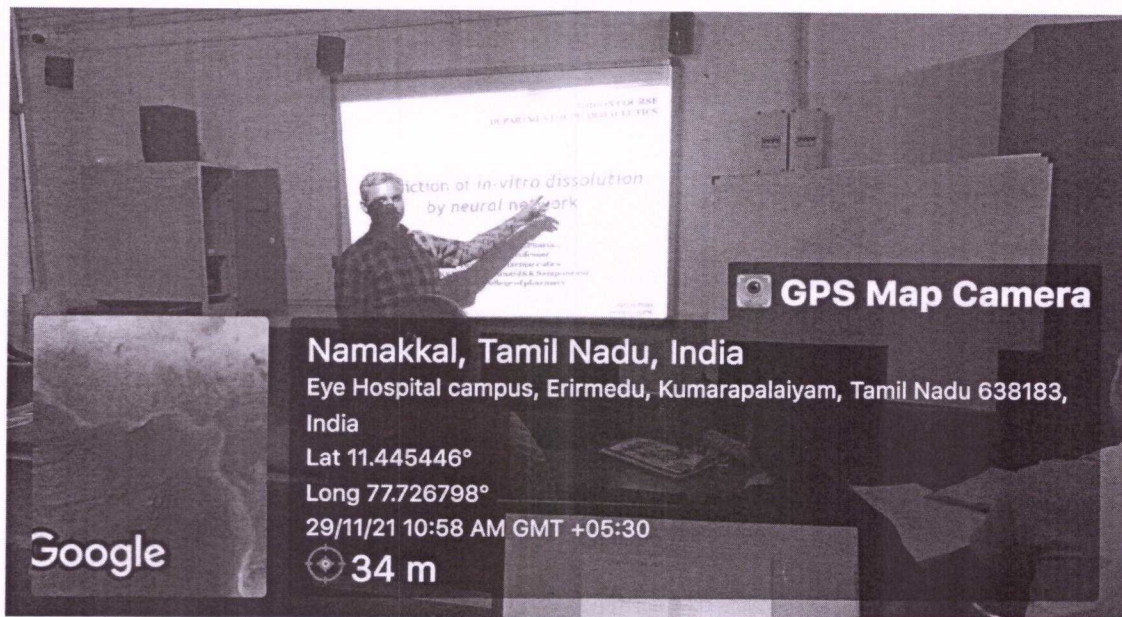


J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

PHOTOGRAPH

DATE: 29/11/2021



Add-on course regarding the Topic Prediction of *in-vitro* dissolution by Neural Network conducted on 29.11.2021, the speech delivered by Mr.R.Suresh.,M.Pharm., Associate Professor, which was an interactive session and students could able to understand Prediction of *in-vitro* dissolution by Neural Network in various areas in the fields of pharmaceutical sciences





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**



VALUE ADDED COURSE
Organized by
Department of Pharmaceutics



Certificate of Participant



Has appreciated for his/her participation in VALUE ADDED COURSE on
Artificial Neural Network 09/11/2021 to 29/11/2021

Coordinator

H.O.D

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**



VALUE ADDED COURSE
Organized by
Department of Pharmaceutics



Certificate of Participant

ABIRAMI.S

Has appreciated for his/her participation in VALUE ADDED COURSE on
Artificial Neural Network 09/11/2021 to 29/11/2021

Coordinator

H.O.D

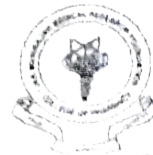
Principal

**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**



VALUE ADDED COURSE
Organized by
Department of Pharmaceutics



Certificate of Participant
BALAJI.S

Has appreciated for his/her participation in VALUE ADDED COURSE on
Artificial Neural Network 09/11/2021 to 29/11/2021

Coordinator

H.O.D

Principal

**Dr. N.SENTHILKUMAR,
PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM
NAMAKKAL DISTRICT, TAMIL NADU**