



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

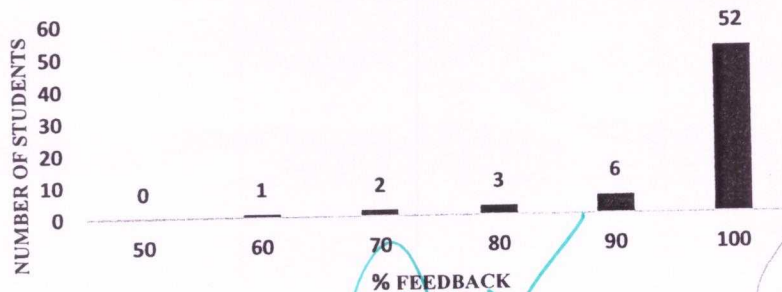
Date: 24/02/2022

Academic year	2021-2022
Date	07/02/2022 To 24/02/2022
Addon course title	Computer simulations: concepts and applications in formulation development
Duration of the Course	30 HOURS
Total participants Enrolled	64
Successfully Completed	64
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none">Understand the Drug-Excipient Interaction and Incompatibilities screening using computer Simulation.Acquire the knowledge of computers in Pharmaceutical Research Design, discovery, and optimization of new chemical entities using Computer Simulation
Outcome Attainment	32 Students scored above 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



HOD



Dr. N.SENTHILKUMAR,
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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ETHIRMEDU, KOMARAPALAYAM - 638 183.
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DATE: 24/02/2022

REPORT

ADDON COURSE TITLE -COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN FORMULATION
DEVELOPMENT
VENUE-SEMINAR HALL
RESOURCE PERSONS

Dr.N.SENTHILKUMAR., 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.

Dr. V.SURESH., 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: 64

No. of students certified:64

OBJECTIVE OF THE COURSE

The objective of this value-added course computersimulations: concepts and applications in formulation developmentprogram provides the knowledge on computer and theirapplications in formulation development. In this value-added course students acquire knowledge to apply inpharmaceutical sciences.

LEARNING OUTCOMES FROM THE COURSE

- Types of commonly uses simulations in formulation development.
- High Performance Computing and Network Simulation in formulation development
- Drug–Excipient Interaction and Incompatibilities using computer Simulation.
- Ethics and Legal Protection of Uses of Computer Applications in Pharmaceutical Research
- Design, discovery, and optimization of new chemical entities using Computer Simulation
- Applications of Modelling and Simulation in pharmaceutical formulations



Dr. N.SENTHILKUMAR,
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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/2022/003

Date: 06/02/2022

From

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

To

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

Subject: Letter for requesting Permission to Conduct 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 07/02/2022 to 24/02/2022. We wish to conduct a add-on course regarding the title COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN FORMULATION DEVELOPMENT. 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,

Ok - permitted
Senthil Kumar
06/02/22

Yours sincerely,

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.



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

DATE: 06/02/2022

CIRCULAR

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

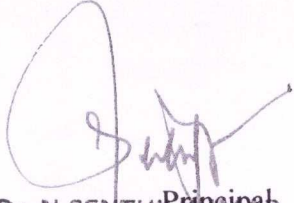
COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN FORMULATION DEVELOPMENT	07/02/2022 To 24/02/2022	30 HOURS	SEMINAR HALL	DR.N.SENTHILKUMAR DR.S.CHANDRA MR.R.SURESH DR.V.SURESH

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.


Dr. N.SENTHILKUMAR,
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SYLLABUS

DATE	HOURS	TOPIC	SUBTOPICS	RESOURCE PERSON
07/02/2022	6 HOURS	COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN FORMULATION DEVELOPMENT	Types of commonly uses simulations in formulation development	Dr.S.Chandra
				Mr.R.Suresh
			High Performance Computing and Network Simulation in formulation development	Dr.V.Suresh
				Dr.N.Senthilkumar
08/02/2022	6 HOURS		Problem-solving methodology in formulation development	Dr.S.Chandra
				Mr.R.Suresh
			Drug-Excipient Interaction and Incompatibilities using computer Simulation	Dr.V.Suresh
				Dr.N.Senthilkumar
16/02/2022	6 HOURS	Ethics and Legal Protection of Uses of Computer Applications in Pharmaceutical Research	Dr.S.Chandra	
			Mr.R.Suresh	
		Dosage Form Design Uses of Computer Simulation	Dr.V.Suresh	
			Dr.N.Senthilkumar	

HOD

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Principal
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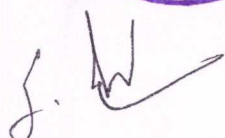
IQAC

* KPM *

23/02/2022	6 HOURS		Computer Simulation in Biotechnology-based pharmaceutical production	Dr.S.Chandra
				Mr.R.Suresh
			Proteins and peptides drug delivery precise prediction using Computer Simulation	Dr.V.Suresh
				Dr.N.Senthilkumar
24/02/2022	6 HOURS		Design, discovery, and optimization of new chemical entities using Computer Simulation	Dr.S.Chandra
				Mr.R.Suresh
			Applications of Modelling and Simulation in pharmaceutical formulations	Dr.V.Suresh
				Dr.N.Senthilkumar

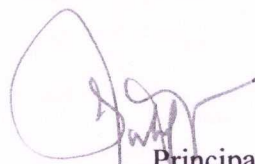
Total hours =30




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JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM

Department of Pharmaceutics

COURSE TITLE

COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN FORMULATION DEVELOPMENT

RESOURCE PERSONS

Dr.S. 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.,

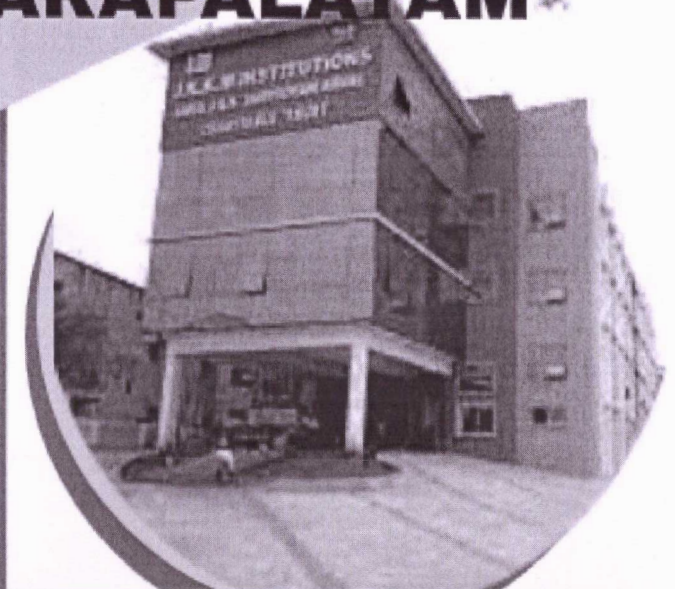
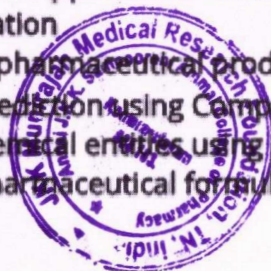
Professor, JKKMMRF'S Annai JKK sampoorani ammal College of pharmacy, komarapalayam.

Mr. R. SURESH., M. PHARM,

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

TOPICS

- Types of commonly uses simulations in formulation development
- High Performance Computing and Network Simulation in formulation development
- Problem-solving methodology in formulation development
- Drug-Excipient Interaction and Incompatibilities using computer Simulation
- Ethics and Legal Protection of Uses of Computer Applications in Pharmaceutical Research
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- Proteins and peptides drug delivery precise prediction using Computer Simulation
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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 626 001
NAMAKKAL DISTRICT, TAMILNADU

VENUE: SEMINAR HALL

DATE: 07/02/2022

To 24/02/2022

TIME: 09.30 AM-04.30 PM



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LIST OF STUDENTS ENROLLED FOR THE COURSE

DATE: 24/02/2022

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	SIGNATURE
1	561858081	THARANESH S	B.PHARM-SEM-VII	Tharanesh S
2	561858082	VALLAL E	B.PHARM-SEM-VII	Vallal E
3	561858083	VENKATESH K	B.PHARM-SEM-VII	Venkatesh K
4	561858085	VIGNESH S	B.PHARM-SEM-VII	S. Vignesh
5	561858086	VIJAY A	B.PHARM-SEM-VII	Vijay A
6	561858087	VIJAYANAGARAJ S	B.PHARM-SEM-VII	Vijayanagaraj S
7	561858088	VINITHA S	B.PHARM-SEM-VII	S. Vinithe
8	561858089	YUVARAJ C P	B.PHARM-SEM-VII	Yuvaraj C P
9	561858090	ZACHARIAH CHRISTOPHER M	B.PHARM-SEM-VII	Zachariah Christopher M
10	561958101	AMRISH K	B.PHARM-SEM-VII	K. Amrish
11	561958102	ARUN KUMAR V	B.PHARM-SEM-VII	Arun Kumar V
12	561958103	BOOPATHI RAJA P	B.PHARM-SEM-VII	Boopathi Raja P
13	561958105	KANAGARAJ M	B.PHARM-SEM-VII	Kanagaraj M
14	561958106	KARTHICK N	B.PHARM-SEM-VII	Karthick N
15	561958065	PRAVEENKUMAR K	B.PHARM-SEM-V	Praaveen Kumar K
16	561958066	PRIYA D	B.PHARM-SEM-V	Priya D
17	561958067	RAGUL DRAVID G	B.PHARM-SEM-V	Ragul Draavid G
18	561958068	RAHUL V	B.PHARM-SEM-V	Rahul V
19	561958069	RANGANATHAN C	B.PHARM-SEM-V	Ranganathan C
20	561958070	RANJITH J	B.PHARM-SEM-V	Ranjith J
21	561958071	RATHESH G T	B.PHARM-SEM-V	Rathesh G T
22	561958072	RATHIKA M	B.PHARM-SEM-V	Rathika M
23	561958073	RAVIN R	B.PHARM-SEM-V	Ravin R
24	561958075	ROHITH S	B.PHARM-SEM-V	Rohith S
25	560020507581	SURENDHAR J	B.PHARM-SEM-III	Surendhar J
26	560020507582	SURYASUGANTHAN D	B.PHARM-SEM-III	Surya Sugathan D
27	560020507583	SUSIENDRAN CHANDRAN	B.PHARM-SEM-III	Susiendran Chandran
28	560020507584	TAMILAMUTHAN S J	B.PHARM-SEM-III	Tamilamuthan S J
29	560020507585	THARAKESH S	B.PHARM-SEM-III	Tharakesh S
30	560020507586	THARUN R	B.PHARM-SEM-III	Tharun R
31	560020507587	THIRUMURUGAN D	B.PHARM-SEM-III	Thirumurugan D
32	560020507588	UDHAYAKUMAR S	B.PHARM-SEM-III	S. Udhaya Kumar
33	560020507589	VAISHNAVI V	B.PHARM-SEM-III	Vaishnavi V
34	560020507590	VARUNKUMAR S	B.PHARM-SEM-III	Varun Kumar S
35	560020507591	VEERAYUVARAJ P	B.PHARM-SEM-III	Veerayuvraj P

HOD



Dr. N.SENTHILKUMAR,
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36	560020507592	VENKATESH G	B.PHARM-SEM-III	G. Venkatesh
37	BPY/1813/2021-22	SOWMIKA M	B.PHARM-SEM-I	Sowmiika M.
38	BPY/1814/2021-22	SRIRAM L	B.PHARM-SEM-I	L. Sri Ram
39	BPY/1815/2021-22	SUDHARSANA R	B.PHARM-SEM-I	Sudhas ramb.
40	BPY/1816/2021-22	SURYA PRANESH V R	B.PHARM-SEM-I	Surya P.
41	BPY/1817/2021-22	TAMILSELVAN R	B.PHARM-SEM-I	R. Tamil selvan
42	BPY/1818/2021-22	THILAGAVATHI T	B.PHARM-SEM-I	Thilagavathi
43	BPY/1819/2021-22	THILAGAVATHY K	B.PHARM-SEM-I	Thila Gavathy.
44	BPY/1820/2021-22	VASANTHAKUMAR V	B.PHARM-SEM-I	Vasanthakumar V.
45	BPY/1821/2021-22	VASUDEVAN V	B.PHARM-SEM-I	Vasudevan v
46	BPY/1822/2021-22	VELAN A R	B.PHARM-SEM-I	Velan A.R
47	BPY/1823/2021-22	VELAN S	B.PHARM-SEM-I	S. Velan
48	BPY/1824/2021-22	VIGNESH S	B.PHARM-SEM-I	S. Vignesh
49	BPY/1733/2021-22	ARIVOZHI L	B.PHARM-SEM-I	Ari.ozhi
50	BPY/1734/2021-22	ARULMANI P	B.PHARM-SEM-I	Arulmani
51	BPY/1735/2021-22	ARUNA SIVAKUMAR	B.PHARM-SEM-I	Aruna
52	BPY/1736/2021-22	ASHOK M	B.PHARM-SEM-I	M. Ashok
53	BPY/1737/2021-22	BALAJI P	B.PHARM-SEM-I	Balaji
54	BPY/1738/2021-22	BALAJI P L	B.PHARM-SEM-I	P.L. Balaji
55	BPY/1739/2021-22	BARNEDO P	B.PHARM-SEM-I	Barnedo
56	261120507507	KAVYA S	M.PHARM-SEM-III	S. Kayya.
57	261120507508	KAYATHRI DEVI K	M.PHARM-SEM-III	Kayathri
58	261120507509	KIRUBHA HARI C	M.PHARM-SEM-III	Kirubha
59	261120507510	PANTHALARASA S	M.PHARM-SEM-III	Panthalarasa
60	261220507506	REVATHI J	M.PHARM-SEM-III	J. Revathi
61	261220507507	SOMASUNDARAM P	M.PHARM-SEM-III	Somasundaram. P
62	261320507509	SRIVIJAY R	M.PHARM-SEM-III	Srivijay R.
63	261320507510	VIGNESH S	M.PHARM-SEM-III	S. Vignesh
64	261520507501	AHAMMED SHABEEN	M.PHARM-SEM-III	Ahmed Shabeen



HOD

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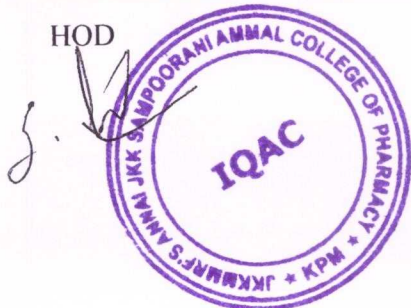
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STUDENTS ATTENDANCE

DATE:24/02/2022

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	07/02	08/02	16/02	23/02	24/02
1	561858081	THARANESH S	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
2	561858082	VALLAL E	B.PHARM-SEM-VII	✓	A	✓	✓	✓
3	561858083	VENKATESH K	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
4	561858085	VIGNESH S	B.PHARM-SEM-VII	✓	✓	✓	✓	A
5	561858086	VIJAY A	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
6	561858087	VIJAYANAGARAJ S	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
7	561858088	VINITHA S	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
8	561858089	YUVARAJ C P	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
9	561858090	ZACHARIAH CHRISTOPHER M	B.PHARM-SEM-VII	A	✓	✓	✓	✓
10	561958101	AMRISH K	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
11	561958102	ARUN KUMAR V	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
12	561958103	BOOPATHI RAJA P	B.PHARM-SEM-VII	✓	✓	A	✓	✓
13	561958105	KANAGARAJ M	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
14	561958106	KARTHICK N	B.PHARM-SEM-VII	✓	✓	✓	✓	✓
15	561958065	PRAVEENKUMAR K	B.PHARM-SEM-V	✓	✓	✓	✓	A
16	561958066	PRIYA D	B.PHARM-SEM-V	✓	✓	✓	✓	✓
17	561958067	RAGUL DRAVID G	B.PHARM-SEM-V	✓	✓	✓	✓	✓
18	561958068	RAHUL V	B.PHARM-SEM-V	✓	A	✓	✓	✓
19	561958069	RANGANATHAN C	B.PHARM-SEM-V	✓	✓	✓	✓	✓
20	561958070	RANJITH J	B.PHARM-SEM-V	✓	✓	✓	✓	✓
21	561958071	RATHESH G T	B.PHARM-SEM-V	✓	✓	✓	✓	✓
22	561958072	RATHIKA M	B.PHARM-SEM-V	✓	✓	A	✓	✓
23	561958073	RAVIN R	B.PHARM-SEM-V	✓	✓	✓	✓	✓
24	561958075	ROHITH S	B.PHARM-SEM-V	✓	✓	✓	✓	✓
25	560020507581	SURENDHAR J	B.PHARM-SEM-III	✓	✓	✓	✓	A
26	560020507582	SURYASUGANTHAN D	B.PHARM-SEM-III	✓	✓	✓	✓	✓
27	560020507583	SUSIENDRAN CHANDRAN	B.PHARM-SEM-III	✓	✓	✓	✓	✓
28	560020507584	TAMILAMUTHAN S J	B.PHARM-SEM-III	✓	✓	✓	✓	✓
29	560020507585	THARAKESH S	B.PHARM-SEM-III	✓	✓	✓	✓	✓
30	560020507586	THARUN R	B.PHARM-SEM-III	A	✓	✓	✓	✓
31	560020507587	THIRUMURUGAN D	B.PHARM-SEM-III	✓	✓	✓	✓	✓
32	560020507588	UDHAYAKUMAR S	B.PHARM-SEM-III	✓	✓	✓	✓	✓
33	560020507589	VAISHNAVI V	B.PHARM-SEM-III	✓	✓	✓	A	✓
34	560020507590	VARUNKUMAR S	B.PHARM-SEM-III	✓	✓	✓	✓	✓
35	560020507591	VEERAYUVARAJ P	B.PHARM-SEM-III	✓	✓	✓	✓	✓
36	560020507592	VENKATESH G	B.PHARM-SEM-III	✓	✓	✓	✓	✓
37	BPY/1813/2021-22	SOWMIKA M	B.PHARM-SEM-I	✓	A	✓	✓	✓
38	BPY/1814/2021-22	SRIRAM L	B.PHARM-SEM-I	✓	✓	✓	✓	✓
39	BPY/1815/2021-22	SUDHARSANA R	B.PHARM-SEM-I	✓	✓	✓	✓	✓
40	BPY/1816/2021-22	SURYA PRANESH V R	B.PHARM-SEM-I	✓	✓	✓	✓	✓
41	BPY/1817/2021-22	TAMILSELVAN R	B.PHARM-SEM-I	✓	✓	✓	✓	✓
42	BPY/1818/2021-22	THILAGAVATHI T	B.PHARM-SEM-I	✓	✓	✓	✓	A

HOD



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

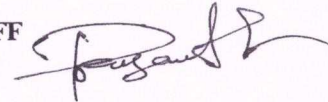
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

43	BPY/1819/2021-22	THILAGAVATHY K	B.PHARM-SEM-I	✓	A	A	✓	✓
44	BPY/1820/2021-22	VASANTHAKUMAR V	B.PHARM-SEM-I	✓	✓	✓	✓	✓
45	BPY/1821/2021-22	VASUDEVAN V	B.PHARM-SEM-I	✓	A	✓	✓	✓
46	BPY/1822/2021-22	VELAN A R	B.PHARM-SEM-I	✓	✓	✓	✓	✓
47	BPY/1823/2021-22	VELAN S	B.PHARM-SEM-I	✓	✓	✓	A	✓
48	BPY/1824/2021-22	VIGNESH S	B.PHARM-SEM-I	✓	✓	✓	✓	✓
49	BPY/1733/2021-22	ARIVOZHI L	B.PHARM-SEM-I	✓	✓	✓	✓	✓
50	BPY/1734/2021-22	ARULMANI P	B.PHARM-SEM-I	A	✓	✓	✓	✓
51	BPY/1735/2021-22	ARUNA SIVAKUMAR	B.PHARM-SEM-I	✓	✓	✓	✓	✓
52	BPY/1736/2021-22	ASHOK M	B.PHARM-SEM-I	✓	✓	✓	✓	✓
53	BPY/1737/2021-22	BALAJI P	B.PHARM-SEM-I	✓	✓	✓	✓	✓
54	BPY/1738/2021-22	BALAJI P L	B.PHARM-SEM-I	✓	✓	✓	✓	✓
55	BPY/1739/2021-22	BARNEDO P	B.PHARM-SEM-I	✓	✓	✓	A	✓
56	261120507507	KAVYA S	M.PHARM-SEM-III	✓	✓	✓	✓	✓
57	261120507508	KAYATHRI DEVI K	M.PHARM-SEM-III	✓	✓	✓	✓	✓
58	261120507509	KIRUBHA HARI C	M.PHARM-SEM-III	A	✓	✓	✓	✓
59	261120507510	PANTHALARASA S	M.PHARM-SEM-III	✓	✓	✓	✓	✓
60	261220507506	REVATHI J	M.PHARM-SEM-III	✓	✓	✓	✓	✓
61	261220507507	SOMASUNDARAM P	M.PHARM-SEM-III	✓	✓	✓	✓	✓
62	261320507509	SRIVIJAY R	M.PHARM-SEM-III	A	✓	✓	✓	✓
63	261320507510	VIGNESH S	M.PHARM-SEM-III	✓	✓	✓	✓	✓
64	261520507501	AHAMMED SHABEEN	M.PHARM-SEM-III	✓	✓	✓	✓	A

No. Of students Enrolled = 64
 No. Of students Present = 64
 No. Of students Absent = Nil

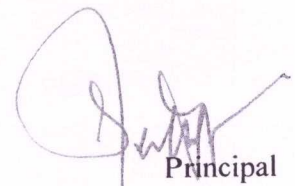
SIGNATURE OF STAFF




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ADD-ON COURSE-STUDENT ANSWER SHEET

ADD-ON COURSE TITLE	COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN FORMULATION DEVELOPMENT	
NAME OF THE STUDENT	Venkatesh.K.	
DATE	24.02.2022	
REGISTER NO	561858083	
COURSE/YEAR/SEM	B.Pharm VII B Sem	MARKS OBTAINED: 48
SIGNATURE	STUDENT: Venkatesh.K.	STAFF: [Signature]

Duration: 01:00 Hour

Maximum Marks:50

- Which of the following is an example of Homology and similarity tool? 2
(a) BLAST (b) RasMol (c) EMBOSS (d) PROSPECT
- In which year did the SWISSPROT protein sequence database begin? 2
(a) 1988 (b) 1985 (c) 1986 (d) 1987
- Which of the following scientists created the first Bioinformatics database? 2
(a) Dayhoff (b) Pearson (c) Richard Durbin (d) Michael.J.Dunn
- The human genome contains approximately _____ 2
(a) 6 billion base pairs (b) 5 billion base pairs (c) 3 billion base pairs (d) 4 billion base pairs
- Which of the following tools is used for the identification of motifs? 2
(a) BLAST (b) COPIA (c) PROSPECT (d) Pattern hunter
- The first molecular biology server expasy was in the year _____ 2
(a) 1992 (b) 1993 (c) 1994 (d) 1995
- What is the deposition of cDNA into the inert structure called? 2



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(a) DNA probes (b) DNA polymerase (c) DNA microarrays (d) DNA fingerprinting

8. The identification of drugs through the genomic study is called _____. 2

(a) Genomics (b) Pharmacogenomics (c) Pharmacogenetics (d) Cheminformatics

9. Which of the following compounds has desirable properties to become a drug? 2

(a) Fit drug (b) Lead (c) Fit compound (d) All of the above

10. Proteomics refers to the study of _____. 2

(a) Set of proteins in a specific region of the cell (b) Biomolecules (c) Set of proteins (d) The entire set of expressed proteins in the cell

11. The process of finding the relative location of genes on a chromosome is called 2

(a) Gene tracking (b) Genome walking (c) Genome mapping (d) Chromosome walking

12. The computational methodology that tries to find the best matching between two molecules, a receptor and ligand are called _____. 2

(a) Molecular fitting (b) Molecular matching (c) Molecular docking (d) Molecule affinity checking

13. Which of the following are not the application of bioinformatics? 2

(a) Drug designing (b) Data storage and management (c) Understand the relationships between organisms (d) None of the above

14. The term "invitro" is the Latin word which refers to _____. 2

(a) Within the lab (b) Within the glass (c) Outside the lab (d) Outside the glass

15. The stepwise method for solving problems in computer science is called _____. 2

(a) Flowchart (b) Algorithm (c) Procedure (d) Sequential design

16. The term Bioinformatics was coined by _____. 2

(a) J.D Watson (b) Pauline Hogeweg (c) Margaret Dayhoff (d) Frederic Sanger



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NAMAKKAL DISTRICT, TAMILNADU.

17. The laboratory work using computers and associated with web-based analysis generally online is referred to as _____. 2
(a) In silico (b) Dry lab (c) Wet lab (d) All of the above
18. Which of the following is the first completed and published gene sequence? 2
(a) Φ X174 (b) T4 phage (c) M13 phage (d) Lambda phage
19. The laboratory work using computers and computer-generated models generally offline is referred to as _____. 2
(a) Insilico (b) Wet lab (c) Dry lab (d) All of the above
20. The computer simulation refers to _____. 2
(a) Dry lab (b) Invitro (c) In silico (d) Wet lab
21. which of these does not come into the general model of a process? 2
a) Input b) controllable input factors.
c) uncontrollable input factors (d) Acceptance Sampling
22. The uncontrollable factors are the factor----- 2
a) That varies according normal distribution b) That does not vary at all
(c) That can be controlled by user d) That cannot be changed according to the wish of user
23. The designed experiments are the part of-----step of DMAIC process 2
a) Define b) measure c) Analyze (d) control
24. Identification of critical element of a process is also known as ----- 2
a) Design space b) Gap analysis (c) IPQC d) acceptance criteria
25. Parameter to be considered for scale up of fluidized bed dryer 2
a) optimum load b) air flow rate c) Inlet air temperature (d) all of above

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




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Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

ADD-ON COURSE-ANSWER SHEET

DATE: 24/02/2022

ADDON COURSE TITLE

**COMPUTER SIMULATIONS: CONCEPTS AND APPLICATIONS IN
FORMULATION DEVELOPMENT**

Duration: 01:00 Hour

Maximum Marks:50

1. Which of the following is an example of Homology and similarity tool? 2

(a) BLAST(b) RasMol (c) EMBOSS(d) PROSPECT

Answer:A

2. In which year did the SWISSPROT protein sequence database begin? 2

(a) 1988(b) 1985(c) 1986(d) 1987

Answer:D

3.Which of the following scientists created the first Bioinformatics database? 2

(a) Dayhoff(b) Pearson(c) Richard Durbin(d) Michael.J.Dunn

Answer:A

4. The human genome contains approximately _____ . 2

(a) 6 billion base pairs(b) 5 billion base pairs(c) 3 billion base pairs(d) 4 billion base pairs

Answer:C

5. Which of the following tools is used for the identification of motifs? 2

(a) BLAST(b) COPIA(c) PROSPECT(d) Pattern hunter

Answer:B

6. The first molecular biology server expasy was in the year _____ . 2



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NAMAKKAL DISTRICT, TAMILNADU.**

(a) 1992(b) 1993(c) 1994(d) 1995

Answer:B

7. What is the deposition of cDNA into the inert structure called? 2

(a) DNA probes(b) DNA polymerase(c) DNA microarrays(d) DNA fingerprinting

Answer:C

8. The identification of drugs through the genomic study is called _____. 2

(a) Genomics(b) Pharmacogenomics(c) Pharmacogenetics(d) Cheminformatics

Answer:B

9. Which of the following compounds has desirable properties to become a drug? 2

(a) Fit drug(b) Lead(c) Fit compound(d) All of the above

Answer:B

10. Proteomics refers to the study of _____. 2

(a) Set of proteins in a specific region of the cell(b) Biomolecules(c) Set of proteins(d) The entire set of expressed proteins in the cell

Answer:D

11. The process of finding the relative location of genes on a chromosome is called 2

(a) Gene tracking(b) Genome walking(c) Genome mapping(d) Chromosome walking

Answer:C

12. The computational methodology that tries to find the best matching between two molecules, a receptor and ligand are called _____. 2

(a) Molecular fitting(b) Molecular matching(c) Molecular docking(d) Molecule affinity checking

Answer:C

13. Which of the following are not the application of bioinformatics? 2

(a) Drug designing(b) Data storage and management(c) Understand the relationships between organisms(d) None of the above

Answer:B

14. The term “invitro” is the Latin word which refers to _____. 2

(a) Within the lab(b) Within the glass(c) Outside the lab(d) Outside the glass

Answer:B

15. The stepwise method for solving problems in computer science is called _____. 2


(a) Flowchart(b) Algorithm(c) Procedure(d) Sequential design

Answer:B

16. The term Bioinformatics was coined by _____. 2

(a) J.D Watson(b) Pauline Hogeweg(c) Margaret Dayhoff(d) Frederic Sanger




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ETHIRMEDU, KOMARAPALAYAM - 638 103,
NAMAKKAL DISTRICT, TAMILNADU.

Answer:B

17. The laboratory work using computers and associated with web-based analysis generally online is referred to as _____. 2

- (a) In silico(b) Dry lab(c) Wet lab(d) All of the above

Answer:A

18. Which of the following is the first completed and published gene sequence? 2

- (a) Φ X174(b) T4 phage(c) M13 phage(d) Lambda phage

Answer:A

19. The laboratory work using computers and computer-generated models generally offline is referred to as _____. 2

- (a) Insilico(b) Wet lab(c) Dry lab(d) All of the above

Answer:C

20. The computer simulation refers to _____. 2

- (a) Dry lab(b) Invitro(c) In silico(d) Wet lab

Answer:C

21. which of these does not come into the general model of a process? 2

- a) Input b) controllable input factors.
c) uncontrollable input factors d)Acceptance Sampling

Answer:D

22.The uncontrollable factors are the factor----- 2

- a) That varies according normal distribution b) That does not vary at all
c) That can be controlled by user d) That cannot be changed according to the wish of user

Answer:C

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- a) Define b) measure c) Analyze d) control

Answer:D

24. Identification of critical element of a process is also known as ----- 2

- a) Design space b)Gap analysis c) IPQC d)acceptance criteria

Answer:C

25. Parameter to be considered for scale up of fluidized bed dryer 2

- a) optimum load b) air flow rate c) Inlet air temperature d) all of above

Answer:D



ALL THE BEST

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MARK STATEMENT

Date: 24/02/2022

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1.	561858081	THARANESH S	B.PHARM-SEM-VII	44	88
2.	561858082	VALLAL E	B.PHARM-SEM-VII	46	92
3.	561858083	VENKATESH K	B.PHARM-SEM-VII	48	96
4.	561858085	VIGNESH S	B.PHARM-SEM-VII	44	88
5.	561858086	VIJAY A	B.PHARM-SEM-VII	46	92
6.	561858087	VIJAYANAGARAJ S	B.PHARM-SEM-VII	42	84
7.	561858088	VINITHA S	B.PHARM-SEM-VII	48	96
8.	561858089	YUVARAJ C P	B.PHARM-SEM-VII	42	84
9.	561858090	ZACHARIAH CHRISTOPHER M	B.PHARM-SEM-VII	42	84
10.	561958101	AMRISH K	B.PHARM-SEM-VII	44	88
11.	561958102	ARUN KUMAR V	B.PHARM-SEM-VII	40	80
12.	561958103	BOOPATHI RAJA P	B.PHARM-SEM-VII	36	72
13.	561958105	KANAGARAJ M	B.PHARM-SEM-VII	38	76
14.	561958106	KARTHICK N	B.PHARM-SEM-VII	36	72
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16.	561958066	PRIYA D	B.PHARM-SEM-V	36	72
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18.	561958068	RAHUL V	B.PHARM-SEM-V	38	76
19.	561958069	RANGANATHAN C	B.PHARM-SEM-V	38	76
20.	561958070	RANJITH J	B.PHARM-SEM-V	36	72
21.	561958071	RATHESH G T	B.PHARM-SEM-V	36	72
22.	561958072	RATHIKA M	B.PHARM-SEM-V	38	76
23.	561958073	RAVIN R	B.PHARM-SEM-V	36	72
24.	561958075	ROHITH S	B.PHARM-SEM-V	32	64
25.	560020507581	SURENDHAR J	B.PHARM-SEM-III	34	68
26.	560020507582	SURYSUGANTHAN D	B.PHARM-SEM-III	36	72
27.	560020507583	SUSIENDRAN CHANDRAN	B.PHARM-SEM-III	32	64
28.	560020507584	TAMILAMUTHAN S J	B.PHARM-SEM-III	42	84
29.	560020507585	THARAKESH S	B.PHARM-SEM-III	44	88
30.	560020507586	THARUN R	B.PHARM-SEM-III	46	92
31.	560020507587	THIRUMURUGAN D	B.PHARM-SEM-III	48	96
32.	560020507588	UDHAYAKUMAR S	B.PHARM-SEM-III	34	68
33.	560020507589	VAISHNAVI V	B.PHARM-SEM-III	38	76
34.	560020507590	VARUNKUMAR S	B.PHARM-SEM-III	32	64
35.	560020507591	VEERAYUVARAJ P	B.PHARM-SEM-III	44	88
36.	560020507592	VENKATESH G	B.PHARM-SEM-III	46	92
37.	BPY/1813/2021-22	SOWMIKA M	B.PHARM-SEM-I	48	96
38.	BPY/1814/2021-22	SRIRAM L	B.PHARM-SEM-I	32	64

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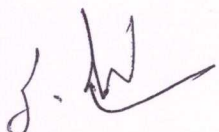
Principal

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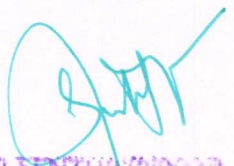
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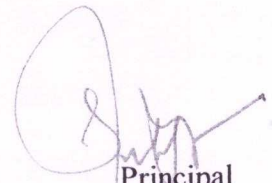
39.	BPY/1815/2021-22	SUDHARSANA R	B.PHARM-SEM-I	36	72
40.	BPY/1816/2021-22	SURYA PRANESH V R	B.PHARM-SEM-I	46	92
41.	BPY/1817/2021-22	TAMILSELVAN R	B.PHARM-SEM-I	44	88
42.	BPY/1818/2021-22	THILAGAVATHI T	B.PHARM-SEM-I	46	92
43.	BPY/1819/2021-22	THILAGAVATHY K	B.PHARM-SEM-I	48	96
44.	BPY/1820/2021-22	VASANTHAKUMAR V	B.PHARM-SEM-I	42	84
45.	BPY/1821/2021-22	VASUDEVAN V	B.PHARM-SEM-I	44	88
46.	BPY/1822/2021-22	VELAN A R	B.PHARM-SEM-I	42	84
47.	BPY/1823/2021-22	VELAN S	B.PHARM-SEM-I	46	92
48.	BPY/1824/2021-22	VIGNESH S	B.PHARM-SEM-I	44	88
49.	BPY/1733/2021-22	ARIVOZHI L	B.PHARM-SEM-I	42	84
50.	BPY/1734/2021-22	ARULMANI P	B.PHARM-SEM-I	42	84
51.	BPY/1735/2021-22	ARUNA SIVAKUMAR	B.PHARM-SEM-I	42	84
52.	BPY/1736/2021-22	ASHOK M	B.PHARM-SEM-I	48	96
53.	BPY/1737/2021-22	BALAJI P	B.PHARM-SEM-I	36	72
54.	BPY/1738/2021-22	BALAJI P L	B.PHARM-SEM-I	36	72
55.	BPY/1739/2021-22	BARNEDO P	B.PHARM-SEM-I	38	76
56.	261120507507	KAVYA S	M.PHARM-SEM-III	42	84
57.	261120507508	KAYATHRI DEVI K	M.PHARM-SEM-III	38	76
58.	261120507509	KIRUBHA HARI C	M.PHARM-SEM-III	38	76
59.	261120507510	PANTHALARASA S	M.PHARM-SEM-III	38	76
60.	261220507506	REVATHI J	M.PHARM-SEM-III	38	76
61.	261220507507	SOMASUNDARAM P	M.PHARM-SEM-III	36	72
62.	261320507509	SRIVIJAY R	M.PHARM-SEM-III	38	76
63.	261320507510	VIGNESH S	M.PHARM-SEM-III	44	88
64.	261520507501	AHAMMED SHABEEN	M.PHARM-SEM-III	32	64


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60-70% Marks = 10 students
70-80% Marks = 22 students
More than 80% Marks = 32 students

Outcome Attainment Rubrics:

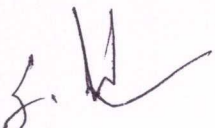
Attainment level 1-If students getting 60-70 % of marks

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


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

Attainment level:

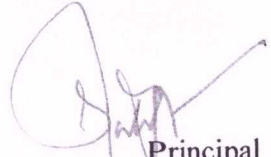
Since, 32 Students scored more than 80% of marks - Attainment level 3 Achieved.


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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 QUESTIONS

Date: 24/02/2022

S.NO	QUESTION DESCRIPTION	ANSWERS	MARKS	TOTAL MARKS
1	Satisfaction	Very satisfied	5	5
		Satisfied	3	
		Neutral	2	
		Dissatisfied	1	
		Very dissatisfied	0	
2	Clarity	Extremely clear	5	5
		Very clear	4	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
3	Percentage of the information was new	100%	5	5
		75%	4	
		50%	3	
		25%	2	
		0%	1	
4	Informative	Extremely Informative	5	5
		Very Informative	3	
		Moderately Informative	2	
		Not very informative	1	
		Not informative at all	0	
5	Technical issues	Yes	5	5
		No	0	
6	Like to learn more about this topic	Yes	5	5
		No	0	
7	Rate the content of the slides/virtual aid	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
8	Accuracy of the sessions	Extremely clear	5	5

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		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

[Handwritten Signature]

HOD



[Handwritten Signature]

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DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT: PRIYA D.

REGISTRATION NO: 561985066.

COURSE: B.Pharm.

YEAR & SEMESTER: 5th sem

SEMINAR TOPIC: COMPUTERSIMULATION CONCEPT & APPLICATION IN FORMULATION DEVELOPMENT. DATE & TIME: 07.02.2022 / 24.02.22.

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



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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


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


Student Name & Signature



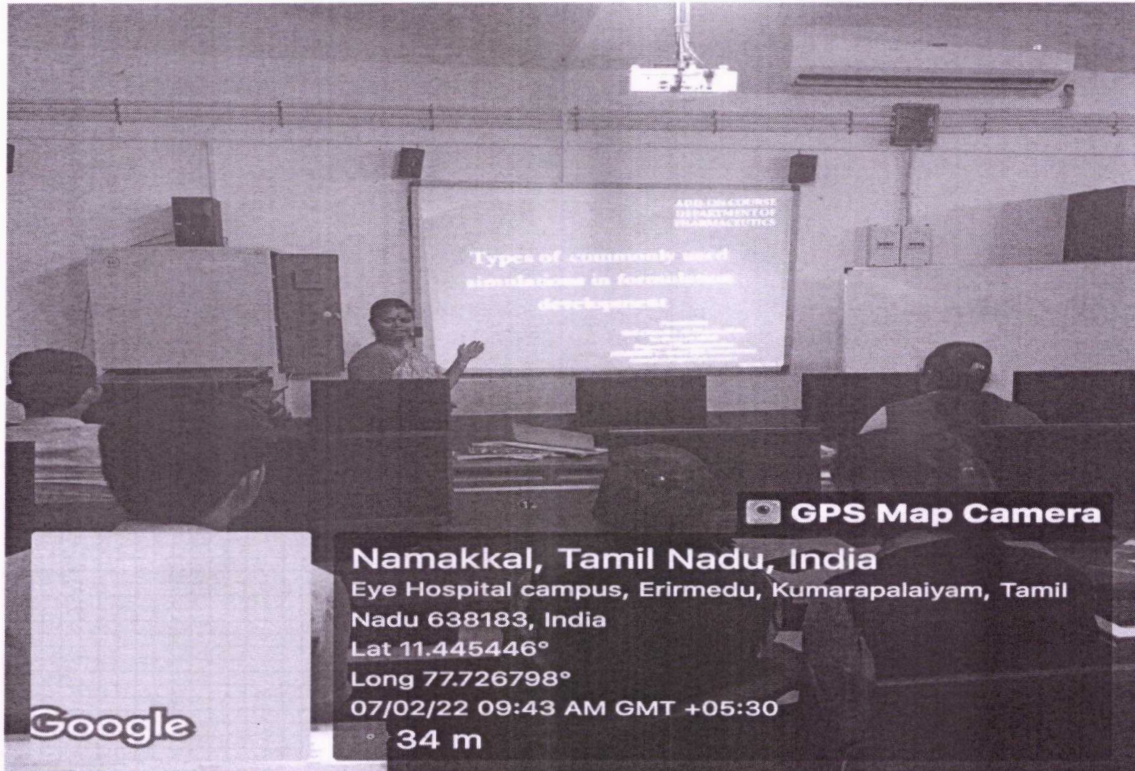


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PHOTOGRAPH

DATE: 24/02/2022



Add-on course regarding the Topic Types of commonly used simulations in formulation development conducted on 07.02.2022, the speech delivered by Dr.S.Chandra.,M.Pharm.,PhD., Professor & Head, which was an interactive session and students could able to understand the Types of commonly used simulations in formulation development in various areas in the fields of pharmaceutical sciences



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Certificate of Participant

J. REVATHI

Has appreciated for his/her participation in VALUE ADDED COURSE on
**Computer simulations: Concepts and applications in
formulation development** 07/02/2022 to 24/02/2022

Coordinator



H.O.D

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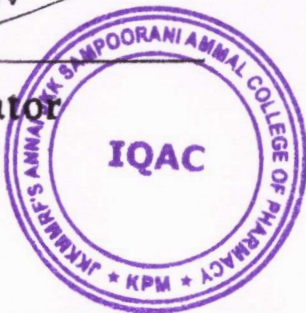


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S. J. TAMILAMUTHAN

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