



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

Ethirmediu, **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

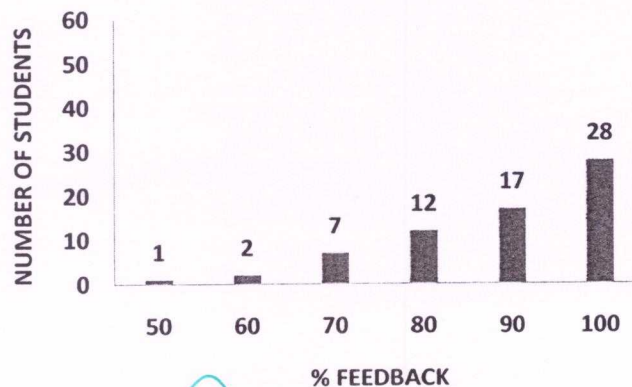
Date: 25/11/2017

Academic year	2017-2018
Addon course title	Automation and compliance
Date	02/11/2017 To 25/11/2017
Duration of the Course	30 HOURS
Total participants Enrolled	67
Successfully Completed	67
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none">Provides the theoretical and practical knowledge on Necessity of automation Techniques in formulation development.Learned about Optimization process to identify and implement new methods in pharmaceutical manufacturing
Outcome Attainment	41 Students scored More than 80% 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,

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

Dr. N. SENTHILKUMAR,
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DATE: 25/11/2017

REPORT

ADDON COURSE TITLE -AUTOMATION AND COMPLIANCE
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. D. KRISHNARAJAN., 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: 67

No. of students certified: 67

Objective of the course

The objective of this value-added course on Automation and compliance program provides the theoretical and practical knowledge on Necessity of automation Techniques in formulation development. In this seminar program students acquire knowledge to apply in pharmaceutical sciences.

Learning outcomes from the course

- Necessity of Optimization Techniques in formulation development
- Formulation optimization are improved patient safety and compliance
- Optimization process to identify and implement new methods in pharmaceutical manufacturing
- Design of experiments applied in pharma industry to develop novel formulations
- Novel drug delivery design and development using design of experiments
- Computer simulations in optimization of formulation development
- Optimization problems in developing novel formulations

Dr. N.SENTHILKUMAR,
PRINCIPAL

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Principal





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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. MUNIRAJAH M.Tech., (Bolton)
Correspondent

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

REF.NO: JKKM/PHARM/CEU/REQ/2017/019

Date: 26/10/2017

From

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

To

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

Subject: 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 **02/11/2017 to 25/11/2017**. We wish to conduct a add-on course regarding the title **AUTOMATION AND COMPLIANCE**. We request you to kindly permit to conduct add-on course program and 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,

all permitted
Senthil Kumar
26/10/17

Yours sincerely,

Senthil Kumar
Head Of the Department



Dr. N. SENTHILKUMAR,
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU KOMARAPALAYAM - 638 183.
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DATE: 26/10/2017

CIRCULAR

This is informed to the B. Pharm- I, II, III, IV & M.Pharm - ALL BRANCH- I SEM 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
AUTOMATION AND COMPLIANCE	02/11/2017 To 25/11/2017	30 HOURS	SEMINAR HALL	DR.N.SENTHILKUMAR DR.S.CHANDRA MR.R.SURESH DR.D.KRISHNARAJAN

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

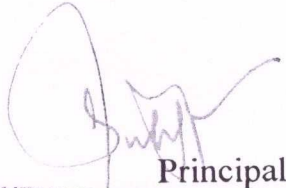
NOTE: Certificates should be issued to all the students after completion of the course and examination.


HOD




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PRINCIPAL,

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ETHIRMEDU, KOMARAPALAYAM - 638 183,
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Principal
Dr. N.SENTHILKUMAR,
PRINCIPAL

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SYLLABUS

DATE	HOURS	TOPIC	SUBTOPICS	RESOURCE PERSON
02/11/2017	6 HOURS	AUTOMATION AND COMPLIANCE	Lab-scale testing of pharmaceutical materials and products	Dr.S.Chandra
				Mr.R.Suresh
			Formulation optimization are improved patient safety and compliance	Dr.D.Krishnarajan
				Dr.N.Senthilkumar
14/11/2017	6 HOURS		Necessity of Optimization Techniques in formulation development	Dr.S.Chandra
				Mr.R.Suresh
			Optimization process to identify and implement new methods in pharmaceutical manufacturing	Dr.D.Krishnarajan
				Dr.N.Senthilkumar
15/11/2017	6 HOURS	Systematic design of experiments by modern approach.	Dr.S.Chandra	
			Mr.R.Suresh	
		Design of experiments applied in pharma industry to develop novel formulations	Dr.D.Krishnarajan	
			Dr.N.Senthilkumar	

HOD



Dr. M. SETHILKUMAR,
PRINCIPAL,


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24/11/2017	6 HOURS		Optimization problem in pharmaceutical manufacturing	Dr.S.Chandra
				Mr.R.Suresh
Novel drug delivery design and development using design of experiments			Dr.D.Krishnarajan	
			Dr.N.Senthilkumar	
25/11/2017			Computer simulations in optimization of formulation development	Dr.S.Chandra
				Mr.R.Suresh
	Optimization problems in developing novel formulations	Dr.D.Krishnarajan		
		Dr.N.Senthilkumar		

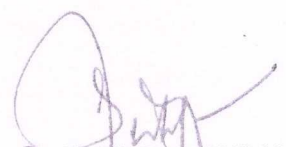
TOTAL HOURS =30


HOD




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JKKMMRF'S ANNAI JKK SAMPOORNIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM

Department of Pharmaceutics

COURSE TITLE

AUTOMATION AND COMPLIANCE

VENUE : SEMINAR HALL

DATE :02/11/2017 To 25/11/2017

TIME: 09.30 AM TO 04.30 PM

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. D. KRISHNARAJAN., 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

- Optimization problem in pharmaceutical manufacturing
- Novel drug delivery design and development using design of experiments
- Computer simulations in optimization of formulation development
- Optimization problems in developing novel formulations
- Optimization problem in pharmaceutical manufacturing
- Novel drug delivery design and development using design of experiments
- Computer simulations in optimization of formulation development
- Optimization problems in developing novel formulations



Dr. N.SENTHILKUMAR,
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Date: 25/11/2017

LIST OF STUDENTS ENROLLED FOR THE COURSE ADDON COURSE TITLE -AUTOMATION AND COMPLIANCE

S.NO	REG.NO	NAME OF THE STUDENT	COURSE
1	561758021	DIVYA K	B.PHARM-I-SEM
2	561758022	ESWARAN N P	B.PHARM-I-SEM
3	561758023	GAYATHRI V	B.PHARM-I-SEM
4	561758024	GOKUL RAJ A	B.PHARM-I-SEM
5	561758025	GOKULAKANNAN M	B.PHARM-I-SEM
6	561758026	GUNA V	B.PHARM-I-SEM
7	561758027	HARISH SRIDHAR S	B.PHARM-I-SEM
8	561758028	HARSHA VARDHINEE K	B.PHARM-I-SEM
9	561758029	HEMALATHA A	B.PHARM-I-SEM
10	561758030	JAGADESWARAN C	B.PHARM-I-SEM
11	561758031	JAIKUMAR P	B.PHARM-I-SEM
12	561758032	JAWAHAR M	B.PHARM-I-SEM
13	561758033	JEEVA P	B.PHARM-I-SEM
14	561758034	JEEVITHA G	B.PHARM-I-SEM
15	561758035	JOSHUA GNANASEELAN B	B.PHARM-I-SEM
16	561758036	KABILAN R	B.PHARM-I-SEM
17	561758037	KALAIYARASAN E	B.PHARM-I-SEM
18	561758038	KAMALRAJ A	B.PHARM-I-SEM
19	561758039	KANNAN A	B.PHARM-I-SEM
20	561758040	KARTHIK KUMAR S	B.PHARM-I-SEM
21	561758041	KARTHIKEYAN M	B.PHARM-I-SEM
22	561758042	KATHIRVEL R	B.PHARM-I-SEM
23	261710801	ESWARA MOORTHI M	M.PHARM -I-SEM
24	261710802	EZHILARASI D	M.PHARM -I-SEM
25	261730702	YAHIA ADAM HASSAN ADAM	M.PHARM -I-SEM
26	261715601	LEELAVATHI K	M.PHARM -I-SEM
27	261740561	SABINA T	M.PHARM -I-SEM
28	261740562	SATHESH V P	M.PHARM -I-SEM
29	261740563	SHAHABAD .U	M.PHARM -I-SEM
30	261740564	SHAIK ISMAIL M	M.PHARM -I-SEM
31	261740565	SONAL CHACKO	M.PHARM -I-SEM
32	261725709	MOHAMMED SHARAFUDHEEN V.K	M.PHARM -I-SEM
33	261725710	OTIENO EBEL TONNY	M.PHARM -I-SEM
34	261725711	PARVATHY S J	M.PHARM -I-SEM

HOD

Dr. N.SENTHILKUMAR,
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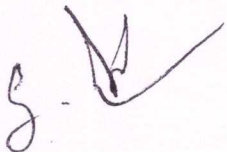
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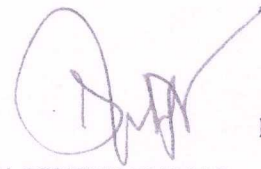
35	261725712	RAJITHA RAVEENDRAN	M.PHARM -I-SEM
36	261725713	SAJINA P SUNNY	M.PHARM -I-SEM
37	261725714	SIVASAKTHI L	M.PHARM -I-SEM
38	561658092	VENUGOPAL R	B.PHARM-II-YEAR
39	561658093	VIGNESH B	B.PHARM-II-YEAR
40	561658094	VIGNESH R	B.PHARM-II-YEAR
41	561658095	VIJAY V	B.PHARM-II-YEAR
42	561658096	VISHNU M S	B.PHARM-II-YEAR
43	561658097	VISHNU PRIYA S	B.PHARM-II-YEAR
44	561658098	VIVEK M	B.PHARM-II-YEAR
45	561658099	YAZHLMOZHLI S	B.PHARM-II-YEAR
46	561758101	KARTHIKEYAN R	B.PHARM-II-YEAR
47	561758102	MOHAMEDASIF A	B.PHARM-II-YEAR
48	561758104	PRIYADEVI B	B.PHARM-II-YEAR
49	561758105	VIJAYAPRADHA K	B.PHARM-II-YEAR
50	561558047	SHARMILA.P	B.PHARM-III-YEAR
51	561558048	SIVASAKTHI.V	B.PHARM-III-YEAR
52	561558049	SOUNDARAJ.M	B.PHARM-III-YEAR
53	561558050	SRIDHARAN.K	B.PHARM-III-YEAR
54	561558051	STALIN.P	B.PHARM-III-YEAR
55	561558052	SUDHA.M	B.PHARM-III-YEAR
56	561558053	SUGANTHKUMAR.M	B.PHARM-III-YEAR
57	561558054	SUNDARAMOORTHY.S	B.PHARM-III-YEAR
58	561558055	TAMILSELVAN.P	B.PHARM-III-YEAR
59	561558056	THAMARAI KANI S	B.PHARM-III-YEAR
60	561558057	THENMOZHI.S	B.PHARM-III-YEAR
61	561558058	VARADHARAJU.S	B.PHARM-III-YEAR
62	561458012	HEMAMALINI.B	B.PHARM-IV-YEAR
63	561458013	JABIR P P	B.PHARM-IV-YEAR
64	561458014	JAGADHIESH P	B.PHARM-IV-YEAR
65	561458015	KANIMOZHIL.R	B.PHARM-IV-YEAR
66	561458016	KARTHICK.V	B.PHARM-IV-YEAR
67	561458017	KARTHIK.K	B.PHARM-IV-YEAR



HOD



Dr. N.SENTHILKUMAR,
PRINCIPAL



Principal

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STUDENTS ATTENDANCE					Date : 25/11/2017				
ADDON COURSE -AUTOMATION AND COMPLIANCE									
S.NO	REG.NO	NAME OF THE STUDENT	COURSE	02/11	14/11	15/11	24/11	25/11	
1	561758021	DIVYA K	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
2	561758022	ESWARAN N P	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
3	561758023	GAYATHRI V	B.PHARM-I-SEM	A	✓	✓	✓	✓	
4	561758024	GOKUL RAJ A	B.PHARM-I-SEM	✓	✓	✓	B	✓	
5	561758025	GOKULAKANNAN M	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
6	561758026	GUNA V	B.PHARM-I-SEM	✓	A	✓	✓	✓	
7	561758027	HARISH SRIDHAR S	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
8	561758028	HARSHA VARDHINEE K	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
9	561758029	HEMALATHA A	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
10	561758030	JAGADESWARAN C	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
11	561758031	JAIKUMAR P	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
12	561758032	JAWAHAR M	B.PHARM-I-SEM	✓	A	✓	✓	✓	
13	561758033	JEEVA P	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
14	561758034	JEEVITHA G	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
15	561758035	JOSHUA GNANASEELAN B	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
16	561758036	KABILAN R	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
17	561758037	KALAIYARASAN E	B.PHARM-I-SEM	✓	✓	✓	A	✓	
18	561758038	KAMALRAJ A	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
19	561758039	KANNAN A	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
20	561758040	KARTHIK KUMAR S	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
21	561758041	KARTHIKEYAN M	B.PHARM-I-SEM	✓	✓	✓	✓	✓	
22	561758042	KATHIRVEL R	B.PHARM-I-SEM	✓	A	✓	✓	✓	
23	261710801	ESWARA MOORTHY M	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
24	261710802	EZHILARASI D	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
25	261730702	YAHIA ADAM HASSAN ADAM	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
26	261715601	LEELAVATHI K	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
27	261740561	SABINA T	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
28	261740562	SATHESH V P	M.PHARM -I-SEM	✓	✓	✓	A	✓	
29	261740563	SHAHABAD .U	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
30	261740564	SHAIK ISMAIL M	M.PHARM -I-SEM	✓	A	✓	✓	✓	
31	261740565	SONAL CHACKO	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
32	261725709	MOHAMMED SHARAFUDHEEN V.K	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
33	261725710	OTIENO EBEL TONNY	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
34	261725711	PARVATHY S J	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
35	261725712	RAJITHA RAVEENDRAN	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
36	261725713	SAJINA P SUNNY	M.PHARM -I-SEM	✓	✓	✓	✓	✓	
37	261725714	SIVASAKTHI L	M.PHARM -I-SEM	✓	✓	✓	✓	✓	

HOD



Dr. N. Senthilkumar,
Principal,

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

Principal

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

38	561658092	VENUGOPAL R	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
39	561658093	VIGNESH B	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
40	561658094	VIGNESH R	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
41	561658095	VIJAY V	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
42	561658096	VISHNU M S	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
43	561658097	VISHNU PRIYA S	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
44	561658098	VIVEK M	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
45	561658099	YAZHLMOZHLS	B.PHARM-II-YEAR	A	✓	✓	✓	✓
46	561758101	KARTHIKEYAN R	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
47	561758102	MOHAMEDASIF A	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
48	561758104	PRIYADEVI B	B.PHARM-II-YEAR	✓	✓	#	A	✓
49	561758105	VIJAYAPRADHA K	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
50	561558047	SHARMILA.P	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
51	561558048	SIVASAKTHI.V	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
52	561558049	SOUNDARAJ.M	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
53	561558050	SRIDHARAN.K	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
54	561558051	STALIN.P	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
55	561558052	SUDHA.M	B.PHARM-III-YEAR	✓	A	✓	✓	✓
56	561558053	SUGANTHKUMAR.M	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
57	561558054	SUNDARAMOORTHY.S	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
58	561558055	TAMILSELVAN.P	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
59	561558056	THAMARAI KANI S	B.PHARM-III-YEAR	✓	✓	✓	A	✓
60	561558057	THENMOZHLS	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
61	561558058	VARADHARAJU.S	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
62	561458012	HEMAMALINI.B	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
63	561458013	JABIR P P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
64	561458014	JAGADHIESH P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
65	561458015	KANIMOZHIL.R	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
66	561458016	KARTHICK.V	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
67	561458017	KARTHIK.K	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓

No. Of students Enrolled = 67
 No. Of students Present = 67
 No. Of students Absent = Nil.

SIGNATURE OF STAFF *P. Sankar*

J. M
HOD



[Signature]
Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

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Dr. N. SENTHILKUMAR,
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 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	AUTOMATION & COMPLIANCE	
DATE	25/11/2017	
NAME OF THE STUDENT	SATHESH.V.P	
REGISTER NO	2617A0562	
COURSE/YEAR/SEM	I. M. PHARM	MARKS OBTAINED: 74
SIGNATURE	STUDENT:	STAFF:

Duration: 01:00 Hour

Maximum Marks:50

1. Which Balance give high performance analytical weighing

2

a) precision Balance b) Analytical Balance c) Moisture analyzers c) Microbalances

2. In which one of the following the criticality of the items is most important than the factor of the 2 cost factor of the items

a) ABC analysis web analysts b) VED analysis c) P system d) q system

3. For optimum level of quality, which of the following cost should be minimum?

2

a) direct cost b) Indirect cost c) Appraisal cost d) Total cost

4. which is the Example of drug addiction

2

a) caffeine b) tea c) Morphine d) none of the above

5. Dapsone is used commonly in the treatment of

2

a) Psoriasis b) Arrhythmia c) Schizophrenia d) Hansen's disease.

6. Normal therapeutic serum concentration of phenytoin is

2

a) 3-100g/ml b) 10-200g/ml c) 10-150g/ml d) 1-30g/ml

7. Which is the first approach in optimization methods

2

a) Theory of bending b) Theory of layout c) Theory of elongation d) Theory of stress

8. The third major approach of Structural optimization is based on the concepts.

a) criterion of optimality b) criterion of design c) criterion of Texture d) criterion of Span

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9. The structural optimization problem is generally expressed as 2
 a) maximize $Z = F(x)$ b) minimize $Z = F(x)$ c) $Z = F(x)$ d) $Z = F(t)$
10. ICH Q> guideline is for Good manufacturing practice guide for 2
 a) raw materials b) Excipients c) API d) None of these.
11. The aim of pharmaceutical development is to design-----product 2
 a) optimized b) availability c) Effective a) none of these
12. ICH Q9 guideline is for 2
 a) safety assessment b) Quality risk management
 c) product development d) none of these
13. 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
14. 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
15. The designed experiments are the part of-----step of DMAIC process 2
 a) Define b) measure c) Analyze d) control
16. Identification of critical element of a process is also known as ----- 2
 a) Design space b) Gap analysis c) IPQC d) acceptance criteria
17. 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
18. design space include 2
 a) variable and process parameters b) attributes c) DMF d) process parameters
- 19) The scope of sanitation and hygiene covers 2
 a) personnel b) premises c) Equipments d) all
- 20) Generally key posts should be occupied by — personnel 2
 a) part Time (b) full time c) Both A & B d) none of these
- 21) GMP ensure which of following parameters
 a) Quality b) safety parameters c) efficacy d) all
- 22) By controlled release drug delivery system bioavailability is 2
 a) Improved b) decreases c) both d) none




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23) The biological factor influencing the design and act of controlled release product is 2
a) partition coefficient b) absorption c) molecular size d) solubility

24) Mechanism of controlled drug delivery include- 2
a) osmosis controlled b) bio responsive controlled release
c) dissolution controlled d) all of the above

25. Fractional factorial design is generally used for- of factor. 2
a) planning b) resolution c) Screening d) all the above

ALL THE BEST




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ADD-ON COURSE-ANSWER SHEET

PROGRAMME NAME

AUTOMATION AND COMPLIANCE.

DATE

25/11/2017

Duration: 01:00 Hour

Maximum Marks:50

1. Which Balance give high performance analytical weighing

2

a) precision Balance b) Analytical Balance c) Moisture analyzers c) Microbalances

ANSWER:A

2. In which one of the following the criticality of the items is most important than the factor of the 2 cost factor of the items

a) ABC analysis web analysts b)VED analysis c) P system d) q system

ANSWER:B

3. For optimum level of quality, which of the following cost should be minimum?

2

a) direct cost b) Indirect cost c) Appraisal cost d) Total cost

ANSWER:D

4. which is the Example of drug addition

2

a) caffeine b) tea c)Morphine d) none of the above

ANSWER:C

5. Dapsone is used commonly in the treatment of

2

a) Psoriasis b) Arrhythmia c) Schizophrenia d)Hansen& disease.

ANSWER:A

6. Normal therapeutic serum concentration of phenytoin is

2

a) 3-100g/ml b) 10-200g/ml c) 10-150g/ml d) 1-30g/ml

ANSWER:B

7. Which is the first approach in optimization methods

2

a) Theory of bending b) Theory of layout c) Theory of elongation d) Theory of stress

ANSWER:A

8. The third major approach of Structural optimization is based on the concepts.

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a) criterion of optimality b) criterion of design c) criterion of Texture d) criterion of Span
ANSWER:C

9. The structural optimization problem is generally expressed as 2

a) maximize $Z = F(x)$ b) minimize $Z = F(x)$ c) $Z = F(x)$ d) $Z = F(t)$

ANSWER:C

10. ICH Q9 guideline is for Good manufacturing practice guide for 2

a) raw materials b) Excipients c) API d) None of these.

ANSWER:C

11. The aim of pharmaceutical development is to design-----product 2

a) optimized b) availability c) Effective a) none of these

ANSWER:A

12. ICH Q9 guideline is for 2

a) safety assessment b) Quality risk management

c) product development d) none of these

ANSWER:B

13. 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

14. 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

15. The designed experiments are the part of-----step of DMAIC process 2

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

ANSWER:D

16. 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

17. 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

18. design space include 2

a) variable and process parameters b) attributes c) DMF d) process parameters



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ANSWER:D

19) The scope of sanitation and hygiene covers

2

a) personnel b) premises c) Equipments (d) all

ANSWER:D

20) Generally key posts should be occupied by — personnel

2

a) partime (b) full time c) Both A & B d) none of these

ANSWER:C

21) GMP ensure which of following parameters

2

a) Quality b) safely parameters c)efficacy d)all

ANSWER:D

22) By controlled release drug delivery system bioavailability is

2

a) Improved b) decreases c)both d) none

ANSWER:C

23) The biological factor influencing the design and act of controlled release product is

2

a) partition coefficient b) absorption c)molecular size d) solubility

ANSWER:AA

24) Mechanism of controlled drug delivery include-

2

a) osmosis controlled b) bio responsive controlled release

c) dissolution controlled d)all of the above

ANSWER:D

25. Practional factorial design is generally used for- of factor.

2

a) planning b) resolution c)Screening d) all the above

ANSWER:D

ALL THE BEST



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MARK STATEMENT

Date: 25/11/201

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1.	561758021	DIVYA K	B.PHARM-I-SEM	40	80
2.	561758022	ESWARAN N P	B.PHARM-I-SEM	36	72
3.	561758023	GAYATHRI V	B.PHARM-I-SEM	38	76
4.	561758024	GOKUL RAJ A	B.PHARM-I-SEM	46	92
5.	561758025	GOKULAKANNAN M	B.PHARM-I-SEM	32	64
6.	561758026	GUNA V	B.PHARM-I-SEM	48	96
7.	561758027	HARISH SRIDHAR S	B.PHARM-I-SEM	44	88
8.	561758028	HARSHA VARDHINEE K	B.PHARM-I-SEM	36	72
9.	561758029	HEMALATHA A	B.PHARM-I-SEM	32	64
10.	561758030	JAGADESWARAN C	B.PHARM-I-SEM	34	68
11.	561758031	JAIKUMAR P	B.PHARM-I-SEM	42	84
12.	561758032	JAWAHAR M	B.PHARM-I-SEM	46	92
13.	561758033	JEEVA P	B.PHARM-I-SEM	38	76
14.	561758034	JEEVITHA G	B.PHARM-I-SEM	44	88
15.	561758035	JOSHUA GNANASEELAN B	B.PHARM-I-SEM	46	92
16.	561758036	KABILAN R	B.PHARM-I-SEM	38	76
17.	561758037	KALAIYARASAN E	B.PHARM-I-SEM	44	88
18.	561758038	KAMALRAJ A	B.PHARM-I-SEM	42	84
19.	561758039	KANNAN A	B.PHARM-I-SEM	46	92
20.	561758040	KARTHIK KUMAR S	B.PHARM-I-SEM	48	96
21.	561758041	KARTHIKEYAN M	B.PHARM-I-SEM	38	76
22.	561758042	KATHIRVEL R	B.PHARM-I-SEM	44	88
23.	261710801	ESWARA MOORTHI M	M.PHARM -I-SEM	40	80
24.	261710802	EZHILARASI D	M.PHARM -I-SEM	36	72
25.	261730702	YAHIA ADAM HASSAN ADAM	M.PHARM -I-SEM	48	96
26.	261715601	LEELAVATHI K	M.PHARM -I-SEM	42	84
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33.	261725710	OTIENO EBEL TONNY	M.PHARM -I-SEM	48	96
34.	261725711	PARVATHY S J	M.PHARM -I-SEM	50	100
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37.	261725714	SIVASAKTHI L	M.PHARM -I-SEM	42	84

HOP



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67.	561458017	KARTHIK.K	B.PHARM-IV-YEAR	44	88

60-70% Marks =3 student
70-80% Marks =23 students
More than 80% Marks =41 students

Outcome Attainment

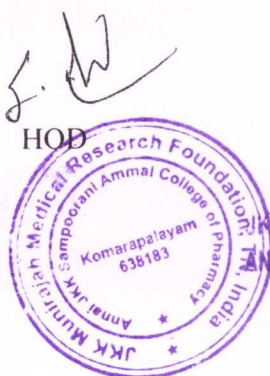
Rubrics:

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, 41 of Students scored above 80% of marks - Attainment level 3 Achieved.



Handwritten signature of Dr. N. Senthilkumar, Principal.

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

Handwritten signature of Dr. N. Senthilkumar, Principal.

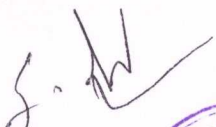
**Dr. N.SENTHILKUMAR,
PRINCIPAL
Principal
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.**



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

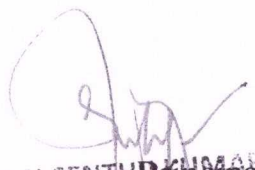
STUDENTS FEEDBACK -QUESTIONS & MARKS				Date: 25/11/2017
S.NO	QUESTION DESCRIPTION	ANSWERS	MARKS	TOTAL MARKS
1	Satisfaction	Very satisfied	5	5
		Satisfied	3	
		Neutral	2	
		Dissatisfied	1	
		Very dissatisfied	0	
2	Clarity	Extremely clear	5	5
		Very clear	4	
		Moderately clear	2	
		Not very clear	1	
		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	


HOD




Dr. N. SENTHILKUMAR,
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8	Accuracy of the sessions	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
9	Session expectations	Excellent	5	5
		Good	3	
		Fair	2	
		Poor	1	
10	Rate the content of the seminar	Not at all clear	0	5
		1	1	
		2	2	
		3	3	
		4	4	
		5	5	

Total marks = 50

J. W.
HOD



Dr. N. Senthilkumar
Dr. N. SENTHILKUMAR,
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Dr. N. SENTHILKUMAR,
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**JKKMMRF's ANNAI JKK SAMPOORANI AMMAL
COLLEGE OF PHARMACY, KOMARAPALAYAM.**

DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT: *V. P. Sathesh*

REGISTRATION NO: *261740562*

COURSE: *M. Pharm (Practice)*

YEAR & SEMESTER: *I Semester*

SEMINAR TOPIC: *Automation and
Compliance*

DATE & TIME: *2.11.2017-25.11.2017*

1. Overall, how satisfied were you with this seminar?

- Very satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very dissatisfied

2. How clear were the ideas and concepts we presented?

- Extremely clear
- Very clear
- Moderately clear
- Not very clear
- Not at all clear

3. What percentage of the information was new to you?

- 100%
- 75%
- 50%
- 25%
- 0%

4. How informative did you find our seminar?

- Extremely Informative
- Very Informative
- Moderately Informative
- Not very informative
- Not informative at all



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

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ETHIRMEDU, KOMARAPALAYAM - 638 183.
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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


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

V.P. 
Student Name & Signature



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SAMPOORANIAMMAL COLLEGE
OF PHARMACY, KOMARAPALAYAM.
VALUE ADDED COURSE**



Organized by
Department of Pharmaceutics



Certificate of Participant

Has appreciated for his / her participation in the **VALUE ADDED COURSE** on
AUTOMATION AND COMPLIANCE 02/11/2017 to 25/11/2017.

[Signature]
Dr. N.SENTHILKUMAR,
PRINCIPAL

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



[Signature]
Co-Ordinator

[Signature]
H.O.D

[Signature]
Principal

JKKMMRF'S - ANNAI JKK
SAMPOORANIAMMAL COLLEGE
OF PHARMACY, KOMARAPALAYAM.
VALUE ADDED COURSE



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Department of Pharmaceutics



Certificate of Participant

S. THENMOZHI

Has appreciated for his / her participation in the VALUE ADDED COURSE on
AUTOMATION AND COMPLIANCE 02/11/2017 to 25/11/2017.

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Principal



H.O.D