



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

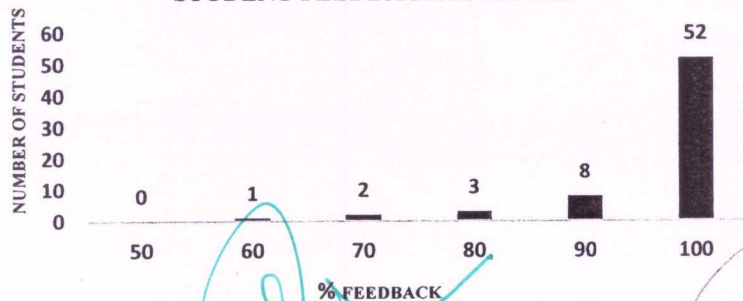
Date: 18/04/2018

Academic year	2018-2019
Date	02/04/2018 to 18/04/2018
Duration of the Course	30 HOURS
Total participants Enrolled	69
Successfully Completed	66
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none"> Update knowledge on Pharma Industry lab Automation and standard operating procedures&Laboratory automation system hardware and software Learned about New and improved processes analysis of drugs Understand Re-analytic, analytical, or post-analytical stages in lab automation and Automation is the Future of Lab Work
Outcome Attainment	42 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



HOD



Dr. N.SENTHILKUMAR,
PRINCIPAL

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

Principal

Dr. N.SENTHILKUMAR,
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REPORT

DATE: 18/04/2018

RESOURCE PERSONS

AUTOMATION IN LABORATORIES

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: 69

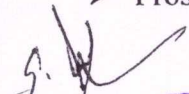
No. of students certified:66

OBJECTIVE OF THE COURSE

The objective of this value-added course on automation in laboratories program provides the theoretical knowledge on pharma industry lab automation and standard operating procedures. in this training program students acquire automation of laboratories in pharma industrial manufacturing knowledge to apply in pharmaceutical sciences.

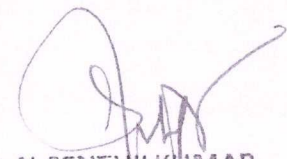
LEARNING OUTCOMES FROM THE COURSE

- Pharma Industry lab Automation and standard operating procedures
- Laboratory automation system hardware and software
- New and improved processes analysis of drugs
- Re-analytic, analytical, or post-analytical stages in lab automation
- Automation is the Future of Lab Work
- Accelerating Drug Discovery with Automation lab
- Pros and cons in automation of laboratories


HOD




Dr. N.SENTHILKUMAR,
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)

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

Correspondent
REF.NO: JKKM/PHARM/CEU/REQ/2018/007

Date: 28/03/2018

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 **02/04/2018** to **18/04/2018**. We wish to conduct a add-on course regarding the title **AUTOMATION IN LABORATORIES**. 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,

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.
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DATE: 28/03/2018

CIRCULAR

This is informed to the B. Pharm-I, II, III, Students that the following Add-on course can be conducted by the Department of Pharmaceutics, JKKMMRF'S ANNAI JKKSAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
AUTOMATION IN LABORATORIES	02/04/2018 To 18/04/2018	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.

Dr. N.SENTHILKUMAR,
PRINCIPAL

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HOD



Principal
Dr. N.SENTHILKUMAR,
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SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
02/04/2018	6 HOURS	AUTOMATION IN LABORATORIES	Introduction on Laboratory automation systems	Dr.S.Chandra
				Mr.R.Suresh
			Pharma Industry lab Automation and standard operating procedures	Dr.D.Krishnarajan
				Dr.N.Senthilkumar
03/04/2018	6 HOURS		Laboratory automation system hardware and software	Dr.S.Chandra
				Mr.R.Suresh
			New and improved processes analysis of drugs	Dr.D.Krishnarajan
Dr.N.Senthilkumar				
10/04/2018	6 HOURS	Re-analytic, analytical, or post-analytical stages in lab automation	Dr.S.Chandra	
			Mr.R.Suresh	
		Instrumentation for lab automation processes	Dr.D.Krishnarajan	
			Dr.N.Senthilkumar	
17/04/2018	6 HOURS	Intelligent integration of robotics and laboratory automation software.	Dr.S.Chandra	
			Mr.R.Suresh	
		Automation is the Future of Lab Work	Dr.D.Krishnarajan	

HOD



Dr. N. Senthilkumar,
PRINCIPAL
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				Dr.N.Senthilkumar
18/04/2018	6 HOURS		Accelerating Drug Discovery with Automation lab	Dr.S.Chandra
				Mr.R.Suresh
			Pros and cons in automation of laboratories	Dr.D.Krishnarajan
				Dr.N.Senthilkumar

TOTAL HOURS:30

S. W.

HOD



[Signature]
Dr. N. SETHILKUMAR,
PRINCIPAL

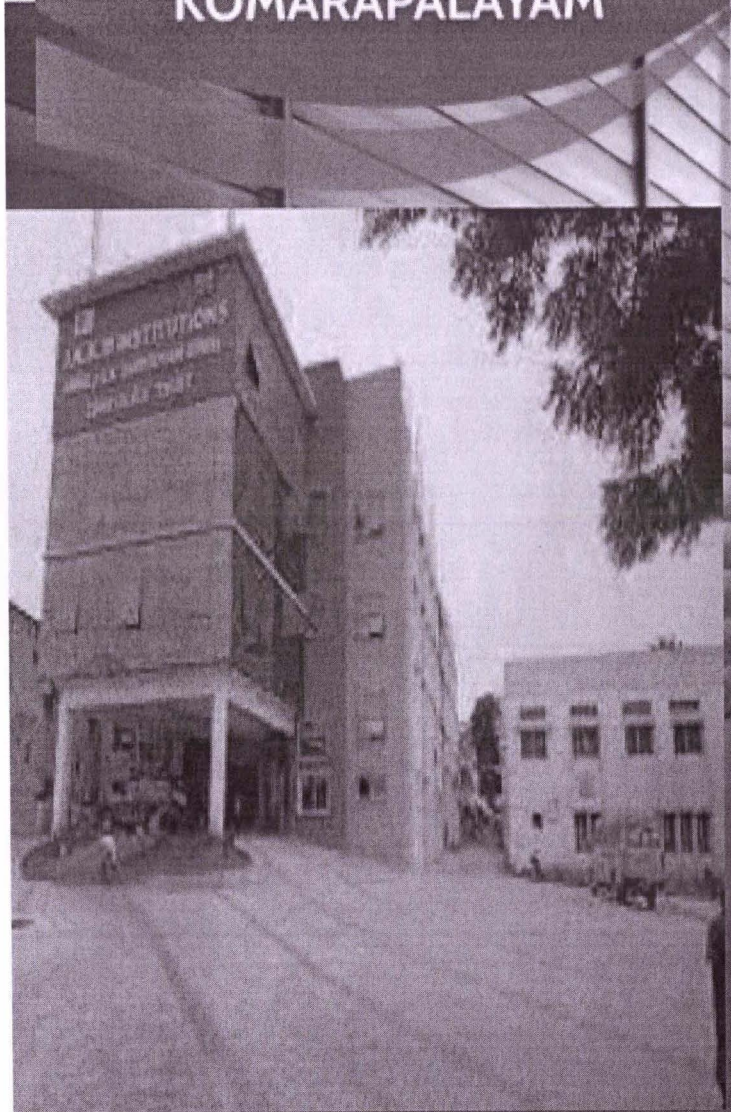
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[Signature]
Dr. N. SETHILKUMAR,
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**JKKMMRF'S ANNAI
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KOMARAPALAYAM**

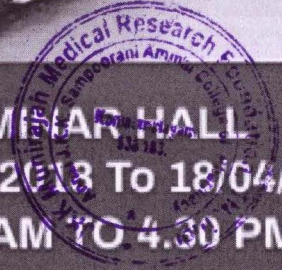


Department of Pharmaceutics



COURSE TITLE

AUTOMATION IN LABORATORIES



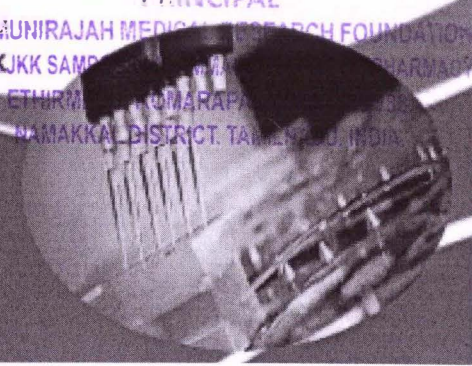
**VENUE: SEMINAR HALL
DATE: 02/04/2018 To 18/04/2018
TIME: 09.30 AM TO 4.30 PM**

TOPICS

- Introduction on Laboratory automation systems
- Pharma Industry lab Automation and standard operating procedures
- Laboratory automation system hardware and software
- New and improved processes analysis of drugs
- Re-analytic, analytical, or post-analytical stages in lab automation
- Instrumentation for lab automation processes
- Intelligent integration of robotics and laboratory automation software.
- Automation is the Future Accelerating Drug Discovery with Automation lab
- Pros and cons in automation of laboratories.
- of Lab Work

**Dr. N. SENTHILKUMAR,
PRINCIPAL**

ANNAI JKSAMPOORANIAMMAL COLLEGE OF PHARMACY
UNIRAJAH MEDICAL RESEARCH FOUNDATION
ETHIRAMANGALAM, KOMARAPALAYAM, NAMAKKAL DISTRICT, TAMILNADU, INDIA





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AUTOMATION IN LABORATORIES

LIST OF STUDENTS ENROLLED FOR THE COURSE

Date: 18/04/2018

S.NO	REG.NO	NAME OF THE STUDENT	COURSE
1	561858048	PRAVEEN M	B.PHARM-I-SEM
2	561858049	PRAVEEN V G	B.PHARM-I-SEM
3	561858050	PRETHY S	B.PHARM-I-SEM
4	561858051	PRIYADHARSHINI M	B.PHARM-I-SEM
5	561858052	PRIYANKA S	B.PHARM-I-SEM
6	561858053	RAJA V M	B.PHARM-I-SEM
7	561858054	RANJITH R	B.PHARM-I-SEM
8	561858055	RISHI E	B.PHARM-I-SEM
9	561858056	ROHINI V	B.PHARM-I-SEM
10	561858057	ROHIT SUNDHAR S	B.PHARM-I-SEM
11	561858058	SAKTHIVEL L	B.PHARM-I-SEM
12	561858059	SANJAYKUMAR M	B.PHARM-I-SEM
13	561858060	SARAN M	B.PHARM-I-SEM
14	561858061	SATHIYAMOORTHI K	B.PHARM-I-SEM
15	561858062	SELVAGANAPATHY R	B.PHARM-I-SEM
16	561858063	SELVAMANI R	B.PHARM-I-SEM
17	561858064	SENTHIL KUMAR S	B.PHARM-I-SEM
18	561858065	SIVARAJA R	B.PHARM-I-SEM
19	561858066	SNEHA A	B.PHARM-I-SEM
20	561758057	MOHAMED AZARUDEEN J	B.PHARM-III-SEM
21	561758058	MOHAMED HUSSAIN M	B.PHARM-III-SEM
22	561758059	MOHAMMED RAFI A	B.PHARM-III-SEM
23	561758060	MOHAMMEDHAKKIMNAVAS A	B.PHARM-III-SEM
24	561758061	MOHAMMEDIBRAHIMSIFAN B	B.PHARM-III-SEM
25	561758062	MOULEESHWARAN M	B.PHARM-III-SEM
26	561758063	NAVEENKUMAR P	B.PHARM-III-SEM
27	561758064	PARTHEEPAN S	B.PHARM-III-SEM
28	561758065	PAVITHRA R	B.PHARM-III-SEM
29	561758066	PAVITHRAN K	B.PHARM-III-SEM
30	561758067	PRAKASH S	B.PHARM-III-SEM
31	561758068	PRAVEEN KUMAR C	B.PHARM-III-SEM
32	561758069	PRIYADHARSHINI M	B.PHARM-III-SEM
33	561758070	PRIYADHARSHINI S	B.PHARM-III-SEM
34	561758071	RAGUNATH S	B.PHARM-III-SEM
35	561758072	RAMAKRISHNAN P	B.PHARM-III-SEM
36	561758073	RANGANATH V	B.PHARM-III-SEM
37	561758074	SAKTHIVEL P	B.PHARM-III-SEM

HOD

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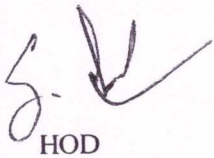
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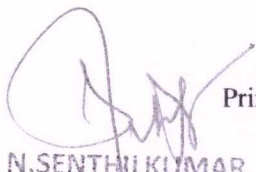
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38	561758075	SAMYUKTA D	B.PHARM-III-SEM
39	561758076	SANTHOSH M	B.PHARM-III-SEM
40	561758077	SANTHOSH RAJ S K	B.PHARM-III-SEM
41	561758078	SATHISHKUMAR M	B.PHARM-III-SEM
42	561758079	SEETHARAM M	B.PHARM-III-SEM
43	561658018	DIVYA S	B.PHARM-III-YR
44	561658019	GOWSALYA P	B.PHARM-III-YR
45	561658020	GOWTHAM S	B.PHARM-III-YR
46	561658021	HARI KRISHNAN K	B.PHARM-III-YR
47	561658022	JAFERI SANDOSH A	B.PHARM-III-YR
48	561658023	JAMBULINGAM P	B.PHARM-III-YR
49	561658024	JAYASHREE L	B.PHARM-III-YR
50	561658025	JEEVANANTHAM T	B.PHARM-III-YR
51	561658026	KAMALI V	B.PHARM-III-YR
52	561658027	KARTHICK S	B.PHARM-III-YR
53	561658028	KARTHIKEYAN K	B.PHARM-III-YR
54	561658029	KARTHIKEYAN N	B.PHARM-III-YR
55	561658030	KARTHIKEYAN S	B.PHARM-III-YR
56	561658031	KAVIN M	B.PHARM-III-YR
57	561658032	KAVIN M	B.PHARM-III-YR
58	561658033	KRISHNAMOORTHY K	B.PHARM-III-YR
59	561658034	LAKSMANAN P	B.PHARM-III-YR
60	561658035	MADHEEHA	B.PHARM-III-YR
61	561658037	MANISHA M	B.PHARM-III-YR
62	561658038	MARIMUTHU P	B.PHARM-III-YR
63	561658039	MOHAMED YASEEN M	B.PHARM-III-YR
64	561658040	MOHAMMED RISAL T	B.PHARM-III-YR
65	561658041	MOHANKUMAR R	B.PHARM-III-YR
66	561658042	MUTHUMURUGAN M	B.PHARM-III-YR
67	561658043	NAHEEMA P T	B.PHARM-III-YR
68	561658044	NANDHINI N	B.PHARM-III-YR
69	561658045	NAVANANDHINI J	B.PHARM-III-YR


HOD


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STUDENTS ATTENDANCE

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2	561858049	PRAVEEN V G	B.PHARM-I-SEM	✓	✓	✓	✓	✓
3	561858050	PRETHY S	B.PHARM-I-SEM	A	✓	✓	✓	✓
4	561858051	PRIYADHARSHINI M	B.PHARM-I-SEM	✓	✓	✓	✓	A
5	561858052	PRIYANKA S	B.PHARM-I-SEM	✓	✓	✓	✓	✓
6	561858053	RAJA V M	B.PHARM-I-SEM	✓	✓	✓	✓	✓
7	561858054	RANJITH R	B.PHARM-I-SEM	✓	✓	✓	✓	✓
8	561858055	RISHI E	B.PHARM-I-SEM	✓	A	✓	✓	✓
9	561858056	ROHINI V	B.PHARM-I-SEM	✓	✓	✓	✓	✓
10	561858057	ROHIT SUNDHAR S	B.PHARM-I-SEM	✓	✓	✓	✓	✓
11	561858058	SAKTHIVEL L	B.PHARM-I-SEM	✓	✓	✓	✓	✓
12	561858059	SANJAYKUMAR M	B.PHARM-I-SEM	✓	✓	✓	A	✓
13	561858060	SARAN M	B.PHARM-I-SEM	✓	✓	✓	✓	✓
14	561858061	SATHIYAMOORTHI K	B.PHARM-I-SEM	✓	✓	✓	✓	✓
15	561858062	SELVAGANAPATHY R	B.PHARM-I-SEM	✓	✓	✓	✓	✓
16	561858063	SELVAMANI R	B.PHARM-I-SEM	A	✓	✓	✓	✓
17	561858064	SENTHIL KUMAR S	B.PHARM-I-SEM	✓	✓	✓	✓	✓
18	561858065	SIVARAJA R	B.PHARM-I-SEM	✓	✓	✓	✓	✓
19	561858066	SNEHA A	B.PHARM-I-SEM	✓	✓	✓	✓	✓
20	561758057	MOHAMED AZARUDEEN J	B.PHARM-III-SEM	✓	✓	✓	✓	✓
21	561758058	MOHAMED HUSSAIN M	B.PHARM-III-SEM	✓	✓	✓	✓	✓
22	561758059	MOHAMMED RAFI A	B.PHARM-III-SEM	✓	✓	A	✓	✓
23	561758060	MOHAMMEDHAKKIMNAVAS A	B.PHARM-III-SEM	✓	✓	✓	✓	✓
24	561758061	MOHAMMEDIBRAHIMSIFAN B	B.PHARM-III-SEM	✓	✓	✓	✓	✓
25	561758062	MOULEESHWARAN M	B.PHARM-III-SEM	✓	✓	✓	✓	✓
26	561758063	NAVEENKUMAR P	B.PHARM-III-SEM	✓	✓	✓	✓	A
27	561758064	PARTHEEPAN S	B.PHARM-III-SEM	✓	✓	✓	✓	✓
28	561758065	PAVITHRA R	B.PHARM-III-SEM	A	✓	✓	✓	✓
29	561758066	PAVITHRAN K	B.PHARM-III-SEM	✓	✓	✓	✓	✓
30	561758067	PRAKASH S	B.PHARM-III-SEM	✓	✓	✓	✓	✓
31	561758068	PRAVEEN KUMAR C	B.PHARM-III-SEM	✓	✓	✓	A	✓
32	561758069	PRIYADHARSHINI M	B.PHARM-III-SEM	✓	✓	✓	✓	✓
33	561758070	PRIYADHARSHINI S	B.PHARM-III-SEM	✓	✓	A	✓	✓
34	561758071	RAGUNATH S	B.PHARM-III-SEM	✓	✓	✓	✓	✓
35	561758072	RAMAKRISHNAN P	B.PHARM-III-SEM	✓	✓	✓	✓	✓
36	561758073	RANGANATH V	B.PHARM-III-SEM	A	✓	✓	✓	✓
37	561758074	SAKTHIVEL P	B.PHARM-III-SEM	✓	✓	✓	✓	✓
38	561758075	SAMYUKTA D	B.PHARM-III-SEM	✓	✓	✓	✓	✓
39	561758076	SANTHOSH M	B.PHARM-III-SEM	✓	✓	✓	✓	✓
40	561758077	SANTHOSH RAJ S K	B.PHARM-III-SEM	✓	✓	✓	✓	✓

HOD



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

41	561758078	SATHISHKUMAR M	B.PHARM-III-SEM	✓	✓	✓	✓	✓
42	561758079	SEETHARAM M	B.PHARM-III-SEM	A	✓	✓	✓	✓
43	561658018	DIVYA S	B.PHARM-III-YR	✓	✓	✓	✓	A
44	561658019	GOWSALYA P	B.PHARM-III-YR	✓	✓	✓	✓	✓
45	561658020	GOWTHAM S	B.PHARM-III-YR	✓	✓	✓	✓	✓
46	561658021	HARI KRISHNAN K	B.PHARM-III-YR	✓	✓	✓	✓	✓
47	561658022	JAFERI SANDOSH A	B.PHARM-III-YR	✓	✓	✓	✓	✓
48	561658023	JAMBULINGAM P	B.PHARM-III-YR	✓	✓	✓	✓	✓
49	561658024	JAYASHREE L	B.PHARM-III-YR	✓	✓	✓	✓	✓
50	561658025	JEEVANANTHAM T	B.PHARM-III-YR	✓	✓	✓	✓	✓
51	561658026	KAMALI V	B.PHARM-III-YR	✓	A	✓	✓	✓
52	561658027	KARTHICK S	B.PHARM-III-YR	✓	✓	✓	✓	✓
53	561658028	KARTHIKEYAN K	B.PHARM-III-YR	✓	✓	✓	✓	✓
54	561658029	KARTHIKEYAN N	B.PHARM-III-YR	✓	✓	✓	✓	✓
55	561658030	KARTHIKEYAN S	B.PHARM-III-YR	✓	✓	✓	✓	✓
56	561658031	KAVIN M	B.PHARM-III-YR	✓	✓	✓	A	✓
57	561658032	KAVIN M	B.PHARM-III-YR	✓	✓	✓	✓	✓
58	561658033	KRISHNAMOORTHY K	B.PHARM-III-YR	✓	✓	✓	✓	✓
59	561658034	LAKSMANAN P	B.PHARM-III-YR	✓	✓	✓	✓	✓
60	561658035	MADHEEHA	B.PHARM-III-YR	✓	✓	✓	✓	✓
61	561658037	MANISHA M	B.PHARM-III-YR	✓	✓	✓	✓	✓
62	561658038	MARIMUTHU P	B.PHARM-III-YR	A	✓	✓	✓	✓
63	561658039	MOHAMED YASEEN M	B.PHARM-III-YR	✓	✓	✓	✓	✓
64	561658040	MOHAMMED RISAL T	B.PHARM-III-YR	✓	✓	✓	✓	✓
65	561658041	MOHANKUMAR R	B.PHARM-III-YR	✓	✓	✓	A	✓
66	561658042	MUTHUMURUGAN M	B.PHARM-III-YR	✓	✓	✓	✓	✓

No. Of students Enrolled = 69
No. Of students Present = 66
No. Of students Absent = 03

SIGNATURE OF STAFF

P. Suresh

HOD

S. V.



[Signature]
Dr. N.SENTHILKUMAR,
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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 IN LABORATORIES	
DATE	18/04/2018	
NAME OF THE STUDENT	SANJAYKUMAR . M	
REGISTER NO	561858059	
COURSE/YEAR/SEM	I - SEM. Bpharm	MARKS OBTAINED: 48
SIGNATURE	STUDENT: 	STAFF: 

TIME: 01:00 Hour

Maximum Marks:50

1. An image, perception or concept that is capable of measurement is called _____ 2
A. Scale. B. Hypothesis. C. Type. D. Variable
2. In order to pursue the research, which of the following is priorly required? 2
A. Developing a research design
 B. Formulating a research question
C. Deciding about the data analysis procedure
D. Formulating a research hypothesis
3. What are the conditions in which Type-I error occurs? 2
A. The null hypotheses get accepted even if it is false
 B. The null hypotheses get rejected even if it is true
C. Both the null hypotheses as well as alternative hypotheses are rejected
D. None of the above
4. How to judge the depth of any research? 2
A. By research title
B. By research duration
 C. By research objectives
D. By total expenditure on research




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5. Which of the following is not the method of Research? 2

A. Survey B. Historical C. Observation D. Philosophical

6. Research is 2

A. Searching again and again
B. Finding solution to any problem
C. Working in a scientific way to search for truth of any problem
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7. In Europe, variations are classified as Type-IA forchange 2

a. Minor b. Major c. Moderate d. Relative

8. are the committees related to EU Regulations 2

a. TGA b. CDER c. CBER d. COMP

9. The "Certificate of Suitability" as per EU guidelines is valid for..... years from the date when the original certificate was granted 2

a. 5 b. 10 c. 15 d. 20

10. CTD is divided intomodules 2

a. 3 b. 4 c. 5 d. 6

11. Scheduleof the D&C Act 1940 and Rules 1945 deals with the guidelines for Good Manufacturing Practices 2

a. Y b. M c. P d. X

12. SRS is also known as specification of 2

(A) White box testing
(B) Stress testing
(C) Integrated testing
(D) Black box testing

13. The model in which the requirements are implemented by category is 2

(A) Evolutionary Development Model
(B) Waterfall Model



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- (C) Prototyping
- (D) Iterative Enhancement

15. SRD stands for

2

- (A) Software requirements definition
- (B) Structured requirements definition
- (C) Software requirements diagram
- (D) Structured requirements diagram

16. If P is risk probability, L is loss, then Risk Exposure (RE) is computed as

2

- (A) $RE = P/L$ (B) $RE = P + L$ (C) $RE = P * L$ (D) $RE = 2 * P * L$

17. Number of clauses used in ISO 9001 to specify quality system requirements are:

2

- (A) 15 (B) 20 (C) 25 (D) 28

18. ER model shows the

2

- (A) Static view. (B) Functional view. (C) Dynamic view. (D) All the above.

19. The tools that support different stages of software development life cycle are called

2

- (A) CASE Tools (B) CAME tools (C) CAQE tools (D) CARE tools

20. Changes made to the system to reduce the future system failure chances is called

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- (A) Preventive Maintenance
- (B) Adaptive Maintenance
- (C) Corrective Maintenance
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21. What is the trend in software nowadays?

2

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

22. What is plasticity in neural networks?

2

- a) input pattern keeps on changing



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- b) input pattern has become static
- c) output pattern keeps on changing
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23. 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 it's weighted input
- d) All of the above

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

2

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

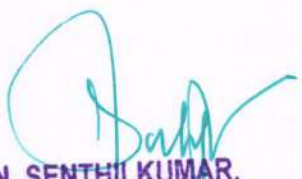
25. The aim of pharmaceutical development is to design-----product

2

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

ALL THE BEST




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ADD-ON COURSE-ANSWER SHEET

PROGRAMME NAME

AUTOMATION IN LABORATORIES

DATE

18/04/2018

TIME: 01:00 Hour

Maximum Marks:50

1. An image, perception or concept that is capable of measurement is called _____ 2

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ANSWER:D

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- A. Developing a research design
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- C. Deciding about the data analysis procedure
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ANSWER:B

3. What are the conditions in which Type-I error occurs? 2

- A. The null hypotheses get accepted even if it is false
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ANSWER:B

4. How to judge the depth of any research? 2

- A. By research title
- B. By research duration
- C. By research objectives
- D. By total expenditure on research

ANSWER:C

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ANSWER:C



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ANSWER:C

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ANSWER:A

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- a. TGA b. CDER c. CBER d. COMP

ANSWER:D

9. The "Certificate of Suitability" as per EU guidelines is valid for..... years from the date when the original certificate was granted

2

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ANSWER:A

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ANSWER:C

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ANSWER:D

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ANSWER:A

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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

- (B) Structured requirements definition
- (C) Software requirements diagram
- (D) Structured requirements diagram

ANSWER:B

16.If P is risk probability, L is loss, then Risk Exposure (RE) is computed as 2

- (A) $RE = P/L$ (B) $RE = P + L$ (C) $RE = P*L$ (D) $RE = 2* P *L$

ANSWER:C

17.Number of clauses used in ISO 9001 to specify quality system requirements are: 2

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ANSWER:B

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- (A) Static view. (B) Functional view. (C) Dynamic view. (D) All the above.

ANSWER:A

19. The tools that support different stages of software development life cycle are called 2

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ANSWER:A

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ANSWER:A

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ANSWER:A

22.What is plasticity in neural networks? 2

- a) input pattern keeps on changing
- b) input pattern has become static
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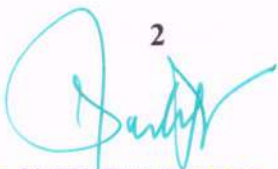
ANSWER:D

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2


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c) Each node computes it's weighted input

d) All of the above

ANSWER:D

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2

a) cherion of optimality b)riterion of design c)riterion of Texture d) afterion of Span

ANSWER:B

25.The aim of pharmaceutical development is to design-----product

2

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

ANSWER:A

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



Principal

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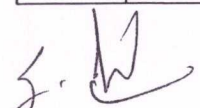
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Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

MARK STATEMENT

Date:18/04/2018

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1.	561858048	PRAVEEN M	B.PHARM-I-SEM	40	80
2.	561858049	PRAVEEN V G	B.PHARM-I-SEM	46	92
3.	561858050	PRETHY S	B.PHARM-I-SEM	38	76
4.	561858051	PRIYADHARSHINI M	B.PHARM-I-SEM	44	88
5.	561858052	PRIYANKA S	B.PHARM-I-SEM	48	96
6.	561858053	RAJA V M	B.PHARM-I-SEM	36	72
7.	561858054	RANJITH R	B.PHARM-I-SEM	40	80
8.	561858055	RISHI E	B.PHARM-I-SEM	46	92
9.	561858056	ROHINI V	B.PHARM-I-SEM	48	96
10.	561858057	ROHIT SUNDHAR S	B.PHARM-I-SEM	44	88
11.	561858058	SAKTHIVEL L	B.PHARM-I-SEM	42	84
12.	561858059	SANJAYKUMAR M	B.PHARM-I-SEM	48	96
13.	561858060	SARAN M	B.PHARM-I-SEM	36	72
14.	561858061	SATHIYAMOORTHY K	B.PHARM-I-SEM	46	92
15.	561858062	SELVAGANAPATHY R	B.PHARM-I-SEM	42	84
16.	561858063	SELVAMANI R	B.PHARM-I-SEM	38	76
17.	561858064	SENTHIL KUMAR S	B.PHARM-I-SEM	36	72
18.	561858065	SIVARAJA R	B.PHARM-I-SEM	42	84
19.	561858066	SNEHA A	B.PHARM-I-SEM	50	100
20.	561758057	MOHAMED AZARUDEEN J	B.PHARM-III-SEM	48	96
21.	561758058	MOHAMED HUSSAIN M	B.PHARM-III-SEM	46	92


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22.	561758059	MOHAMMED RAFI A	B.PHARM-III-SEM	40	80
23.	561758060	MOHAMMEDHAKKIMNAVAS A	B.PHARM-III-SEM	36	72
24.	561758061	MOHAMMEDIBRAHIMSIFAN B	B.PHARM-III-SEM	38	76
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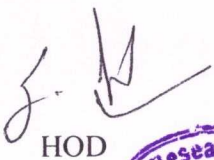
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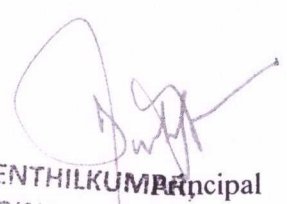
45.	561658020	GOWTHAM S	B.PHARM-III-YR	36	72
46.	561658021	HARI KRISHNAN K	B.PHARM-III-YR	48	96
47.	561658022	JAFERI SANDOSH A	B.PHARM-III-YR	42	84
48.	561658023	JAMBULINGAM P	B.PHARM-III-YR	46	92
49.	561658024	JAYASHREE L	B.PHARM-III-YR	44	88
50.	561658025	JEEVANANTHAM T	B.PHARM-III-YR	38	76
51.	561658026	KAMALI V	B.PHARM-III-YR	44	88
52.	561658027	KARTHICK S	B.PHARM-III-YR	40	80
53.	561658028	KARTHIKEYAN K	B.PHARM-III-YR	42	84
54.	561658029	KARTHIKEYAN N	B.PHARM-III-YR	44	88
55.	561658030	KARTHIKEYAN S	B.PHARM-III-YR	48	96
56.	561658031	KAVIN M	B.PHARM-III-YR	46	92
57.	561658032	KAVIN M	B.PHARM-III-YR	40	80
58.	561658033	KRISHNAMOORTHY K	B.PHARM-III-YR	36	72
59.	561658034	LAKSMANAN P	B.PHARM-III-YR	48	96
60.	561658035	MADHEEHA	B.PHARM-III-YR	44	88
61.	561658037	MANISHA M	B.PHARM-III-YR	38	76
62.	561658038	MARIMUTHU P	B.PHARM-III-YR	46	92
63.	561658039	MOHAMED YASEEN M	B.PHARM-III-YR	40	80
64.	561658040	MOHAMMED RISAL T	B.PHARM-III-YR	46	92
65.	561658041	MOHANKUMAR R	B.PHARM-III-YR	32	64
66.	561658042	MUTHUMURUGAN M	B.PHARM-III-YR	38	76


HOD




Dr. N.SENTHILKUMAR,
PRINCIPAL

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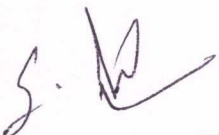
60-70% Marks = 4 students
70-80% Marks = 20 students
More than 80% Marks = 42 students

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


HOD




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

DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT: P. Gayathiri

REGISTRATION NO: 261830705

COURSE: M. Pharm [Analysis]

YEAR & SEMESTER: I - Sem

SEMINAR TOPIC: Automations in laboratory

DATE & TIME: 2.4.2018 - 18.4.2018

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


Student Name & Signature



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

STUDENTS FEEDBACK -ANALYSIS

Date: 18/04/2018

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
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
9	Session expectations	Excellent	5	5
		Good	3	

HOD



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		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]
Dr. N.SENTHILKUMAR,
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Department of Pharmaceutics



Certificate of Participant

M. PRAVEEN

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[Signature]

Coordinator



[Signature]

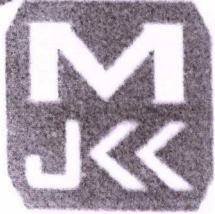
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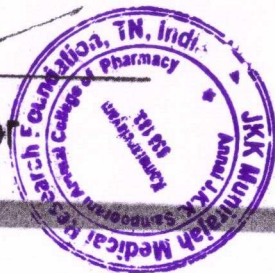
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