



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

REPORT SUMMARY

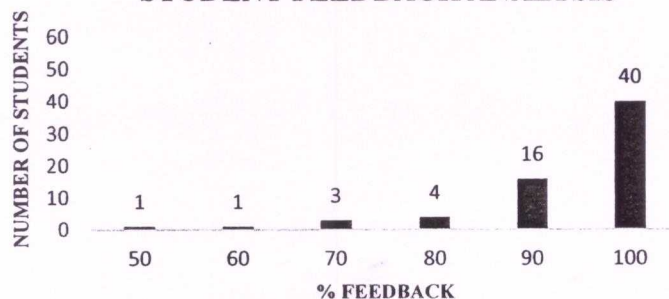
Date: 15/09/2017

Academic year	2017-2018
Addon course title	Pharmaceutical automation: merits, demerits, current challenges & future directions
Session Date	21/08/2017 to 15/09/2017
Duration of the Course	30 HOURS
Total participants Enrolled	65
Successfully Completed	65
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none">• Defines pharmaceutical automation program provides the theoretical and practical knowledge on Automation in pharmaceutical industry techniques.• Develops industrial skills on automation techniques in pharma industry & acquire basic concepts of artificial intelligence in pharma industry
Outcome Attainment	59 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

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

Dr. N.SENTHILKUMAR,
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DATE: 15/09/2017

REPORT

RESOURCE PERSONS

PHARMACEUTICAL AUTOMATION: MERITS, DEMERITS, CURRENT CHALLENGES & FUTURE DIRECTIONS

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: 65

No. of students certified: 65

Objective of the add-on course:

The objective of this value-added course on pharmaceutical automation program provides the theoretical and practical knowledge on Automation in pharmaceutical industry techniques merits and their demerits. In this training program students acquire automation in pharmaceutical production knowledge to apply in pharmaceutical sciences.

Learning outcomes from add-on course:

- Develops industrial skills on automation techniques in pharma industry.
- Acquire basic concepts of artificial intelligence in pharma industry.
- Provides knowledge on Pharma Manufacturing and Commercialization Software
- Robotic Pharmaceutical Manufacturing Processes for Improved Pharmaceutical Production
- Robotic process automation in pharmaceutical manufacturing

Dr. N.SENTHILKUMAR,
PRINCIPAL

Dr. N.SENTHILKUMAR,
PRINCIPAL

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

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

REF.NO: JKKM/PHARM/CEU/REQ/2017/014

Date: 17/08/2017

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 **21/08/2017 to 15/09/2017**. We wish to conduct a add-on course regarding the title **PHARMACEUTICAL AUTOMATION: MERITS, DEMERITS, CURRENT CHALLENGES & FUTURE DIRECTIONS**. 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.
NAMAKKAL DISTRICT, TAMILNADU.



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DATE: 18/08/2017

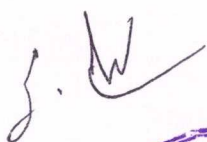
CIRCULAR

This is informed to the B. Pharm- II, III, IV Students that the following add-on course 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
SEMINAR ON PHARMACEUTICAL AUTOMATION: MERITS, DEMERITS, CURRENT CHALLENGES & FUTURE DIRECTIONS.	21/08/2017 To 15/09/2017	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.

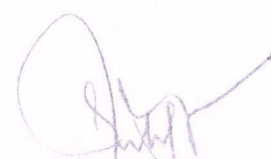


HOD




Dr. N.SENTHILKUMAR,
PRINCIPAL

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


Principal
Dr. N.SENTHILKUMAR,
PRINCIPAL

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SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSONS
21/08/2017	6 HOURS	PHARMACEUTICAL AUTOMATION: MERITS, DEMERITS, CURRENT CHALLENGES & FUTURE DIRECTIONS.	Automation in pharmaceutical profiling and drug discovery	Dr.S.Chandra
				Mr.R.Suresh
			Pharma Industry Automation and compliance	Dr.D.Krishnarajan
				Dr.N.Senthilkumar
22/08/2017	6 HOURS		Artificial Intelligence technology used in the drug designing procedure	Dr.S.Chandra
				Mr.R.Suresh
			Pharma Manufacturing and Commercialization Software	Dr.D.Krishnarajan
				Dr.N.Senthilkumar
23/08/2017	6 HOURS	Automation in pharmaceutical manufacturing	Dr.S.Chandra	
			Mr.R.Suresh	
		Automation is Changing the Global Pharma Industry	Dr.D.Krishnarajan	
			Dr.N.Senthilkumar	
14/09/2017	6 HOURS	Robotic process automation pros and cons in pharmaceutical manufacturing	Dr.S.Chandra	
			Mr.R.Suresh	
		India Pharmaceutical Adopting Automation Technologies	Dr.D.Krishnarajan	
			Dr.N.Senthilkumar	

HOD



Dr. N.SENTHILKUMAR,
PRINCIPAL

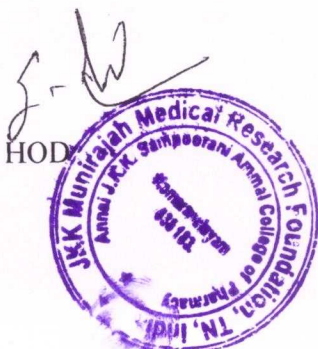
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15/09/2017	6 HOURS		Automating Biopharma Manufacturing	Dr.S.Chandra
				Mr.R.Suresh
			Robotic Pharmaceutical Manufacturing Processes for Improved Pharmaceutical Production	Dr.D.Krishnarajan
				Dr.N.Senthilkumar

Total hours =30



(Handwritten Signature)
Dr. N.SENTHILKUMAR,
PRINCIPAL

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 NAMAKKAL DISTRICT TAMILNADU, INDIA.

(Handwritten Signature)
Dr. N.SENTHILKUMAR,
Principal
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 NAMAKKAL DISTRICT, TAMILNADU, INDIA.



**JKKMMRF'S ANNAI JKK
SAMPOORANIAMMAL
COLLEGE OF
PHARMACY,
KOMARAPALAYAM**

Department
of Pharmaceutics

COURSE TITLE

**PHARMACEUTICAL AUTOMATION: MERITS, DEMERITS,
CURRENT CHALLENGES & FUTURE DIRECTIONS.**

VENUE : SEMINAR HALL

DATE :21/08/2017 To 15/09/2017

TIME: 09.30 AM TO 4.30 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

Automation in pharmaceutical profiling and drug discovery
Pharma Industry Automation and compliance

Artificial Intelligence technology used in the drug designing procedure

Pharma Manufacturing and Commercialization Software

Automation in pharmaceutical manufacturing

Automation is Changing the Global Pharma Industry

Robotic process automation pros and cons in pharmaceutical manufacturing

India Pharmaceutical Adopting Automation Technologies

Artificial Intelligence technology used in the drug designing procedure

Pharma Manufacturing and Commercialization Software

Automation in pharmaceutical manufacturing

Automation is Changing the Global Pharma Industry

Robotic process automation pros and cons in pharmaceutical manufacturing

India Pharmaceutical Adopting Automation Technologies



Dr. N. SENTHILKUMAR
PRINCIPAL
MUNIRAJAH MEDICAL RESEARCH
AND JKK SAMPOORANI AMMAL
COLLEGE OF PHARMACY,
KOMARAPALAYAM,
NAMAKKAL DISTRICT, TAMILNADU, INDIA.



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PHARMACEUTICAL AUTOMATION: MERITS, DEMERITS, CURRENT CHALLENGES & FUTURE DIRECTIONS LIST OF STUDENTS ENROLLED FOR THE COURSE 15/09/2017

S.NO	REG.NO	NAME OF THE STUDENT	COURSE
1	561658001	AJITH M	B.PHARM-II-YEAR
2	561658002	AKSHAYA B M	B.PHARM-II-YEAR
3	561658003	AMRITHA J	B.PHARM-II-YEAR
4	561658004	ANITHA M	B.PHARM-II-YEAR
5	561658005	ARCHANA R	B.PHARM-II-YEAR
6	561658006	ARUNKUMAR D	B.PHARM-II-YEAR
7	561658007	AYYAPPAN S	B.PHARM-II-YEAR
8	561658008	BARATH KANNAN K	B.PHARM-II-YEAR
9	561658009	BHARATHIRAGAVAN V	B.PHARM-II-YEAR
10	561658010	BHARATHIRAJA A	B.PHARM-II-YEAR
11	561658011	BRINDHA R	B.PHARM-II-YEAR
12	561658012	CHANDRU S	B.PHARM-II-YEAR
13	561658013	DEVANANDH D	B.PHARM-II-YEAR
14	561658014	DEVANATHAN G	B.PHARM-II-YEAR
15	561658015	DHINESHKUMAR M	B.PHARM-II-YEAR
16	561658016	DHIVAGAR R	B.PHARM-II-YEAR
17	561658017	DHIVYA K	B.PHARM-II-YEAR
18	561658018	DIVYA S	B.PHARM-II-YEAR
19	561658019	GOWSALYA P	B.PHARM-II-YEAR
20	561658020	GOWTHAM S	B.PHARM-II-YEAR
21	561558021	LAVANYA.M	B.PHARM-III-YEAR
22	561558022	MADESH.C. R	B.PHARM-III-YEAR
23	561558023	MAIYARASAN.P	B.PHARM-III-YEAR
24	561558024	MOHAMED RAHEES.C	B.PHARM-III-YEAR
25	561558026	MOHANA.V	B.PHARM-III-YEAR
26	561558027	MOHANRAJ.M	B.PHARM-III-YEAR
27	561558028	MUNIRATHINAM.S	B.PHARM-III-YEAR
28	561558029	NASIF.KP	B.PHARM-III-YEAR
29	561558030	NAVEEN PRABHU.K	B.PHARM-III-YEAR
30	561558031	NITHYA.S	B.PHARM-III-YEAR
31	561558033	PRAKASH.S	B.PHARM-III-YEAR
32	561558034	PRIYADHARAN.I.S	B.PHARM-III-YEAR
33	561558035	PRIYADHARSHINI.B	B.PHARM-III-YEAR
34	561558036	RAGUNATH.P. V	B.PHARM-III-YEAR
35	561558039	SAJEER MOHAMED.K	B.PHARM-III-YEAR
36	561558040	SAKTHI KUMARAN.D	B.PHARM-III-YEAR
37	561558041	SANTHOSH.P	B.PHARM-III-YEAR
38	561558042	SANTHOSHKUMAR.P	B.PHARM-III-YEAR
39	561558044	SATHISH.G	B.PHARM-III-YEAR
40	561558045	SENTHAMIZH SELVAN.V	B.PHARM-III-YEAR
41	561558046	SHAKTHI.R	B.PHARM-III-YEAR
42	561458040	SAKTHIVEL.M	B.PHARM-IV-YEAR
43	561458041	SANKAR.S	B.PHARM-IV-YEAR
44	561458042	SANTHOSH KUMAR.M	B.PHARM-IV-YEAR

HOD



Dr. N.SENTHILKUMAR,
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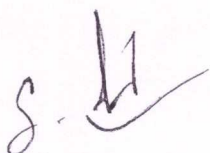
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45	561458043	SANTHOSHKUMAR.S	B.PHARM-IV-YEAR
46	561458044	SARAVANAN.M	B.PHARM-IV-YEAR
47	561458045	SASIKUMAR.V	B.PHARM-IV-YEAR
48	561458046	SAYYED SALAHUDHEEN K M P	B.PHARM-IV-YEAR
49	561458047	SELVAKUMAR.P	B.PHARM-IV-YEAR
50	561458048	SHANMUGAM.N	B.PHARM-IV-YEAR
51	561458049	SIRAJ M P	B.PHARM-IV-YEAR
52	561458050	SIVARANJITH.S	B.PHARM-IV-YEAR
53	561458051	SOMASUNTHARAM.S	B.PHARM-IV-YEAR
54	561458052	SYED YASAR ARABATH.G	B.PHARM-IV-YEAR
55	561458053	TAMILSELVAN.P	B.PHARM-IV-YEAR
56	561458054	THIRUMALAI.V	B.PHARM-IV-YEAR
57	561458055	THULASI RAMAN.S	B.PHARM-IV-YEAR
58	561458056	VEERA JOTHI.R	B.PHARM-IV-YEAR
59	561458057	VENKATESH.G	B.PHARM-IV-YEAR
60	561458058	VENKATESH.P	B.PHARM-IV-YEAR
61	561458059	VINOTHRANJAN.M	B.PHARM-IV-YEAR
62	561458060	ZIYAD A K P	B.PHARM-IV-YEAR
63	561458036	RAGAVAPRASATH.C	B.PHARM-IV-YEAR
64	561458038	RAJA LAKSHMI.B	B.PHARM-IV-YEAR
65	561458039	REEMA.M. A	B.PHARM-IV-YEAR



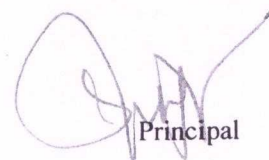
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STUDENTS ATTENDANCE

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	21/08	22/08	23/08	14/09	15/09
1	561658001	AJITH M	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
2	561658002	AKSHAYA B M	B.PHARM-II-YEAR	✓	A	✓	✓	✓
3	561658003	AMRITHA J	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
4	561658004	ANITHA M	B.PHARM-II-YEAR	✓	✓	✓	A	✓
5	561658005	ARCHANA R	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
6	561658006	ARUNKUMAR D	B.PHARM-II-YEAR	✓	✓	A	✓	✓
7	561658007	AYYAPPAN S	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
8	561658008	BARATH KANNAN K	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
9	561658009	BHARATHIRAGAVAN V	B.PHARM-II-YEAR	A	✓	✓	✓	✓
10	561658010	BHARATHIRAJA A	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
11	561658011	BRINDHA R	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
12	561658012	CHANDRU S	B.PHARM-II-YEAR	✓	✓	✓	✓	A
13	561658013	DEVANANDH D	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
14	561658014	DEVANATHAN G	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
15	561658015	DHINESHKUMAR M	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
16	561658016	DHIVAGAR R	B.PHARM-II-YEAR	✓	A	✓	✓	✓
17	561658017	DHIVYA K	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
18	561658018	DIVYA S	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
19	561658019	GOWSALYA P	B.PHARM-II-YEAR	✓	✓	✓	✓	✓
20	561658020	GOWTHAM S	B.PHARM-II-YEAR	✓	✓	✓	✓	A
21	561558021	LAVANYA.M	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
22	561558022	MADESH.C.R	B.PHARM-III-YEAR	✓	✓	A	✓	✓
23	561558023	MAIYARASAN.P	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
24	561558024	MOHAMED RAHEES.C	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
25	561558026	MOHANA.V	B.PHARM-III-YEAR	A	✓	✓	✓	✓
26	561558027	MOHANRAJ.M	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
27	561558028	MUNIRATHINAM.S	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
28	561558029	NASIF.KP	B.PHARM-III-YEAR	✓	✓	A	✓	✓
29	561558030	NAVEEN PRABHU.K	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
30	561558031	NITHYA.S	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
31	561558033	PRAKASH.S	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
32	561558034	PRIYADHARAN.I.S	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
33	561558035	PRIYADHARSHINI.B	B.PHARM-III-YEAR	✓	A	✓	✓	✓
34	561558036	RAGUNATH.P.V	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
35	561558039	SAJEER MOHAMED.K	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
36	561558040	SAKTHI KUMARAN.D	B.PHARM-III-YEAR	✓	✓	✓	A	✓
37	561558041	SANTHOSH.P	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
38	561558042	SANTHOSHKUMAR.P	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
39	561558044	SATHISH.G	B.PHARM-III-YEAR	✓	✓	✓	✓	✓
40	561558045	SENTHAMIZH SELVAN.V	B.PHARM-III-YEAR	✓	✓	✓	✓	A

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41	561558046	SHAKTHI.R	B.PHARM-III-YEAR	A	✓	✓	✓	✓	✓
42	561458040	SAKTHIVEL.M	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
43	561458041	SANKAR.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
44	561458042	SANTHOSH KUMAR.M	B.PHARM-IV-YEAR	✓	✓	A	✓	✓	✓
45	561458043	SANTHOSHKUMAR.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
46	561458044	SARAVANAN.M	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
47	561458045	SASIKUMAR.V	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
48	561458046	SAYYED SALAHUDHEEN K M P	B.PHARM-IV-YEAR	A	✓	✓	✓	✓	✓
49	561458047	SELVAKUMAR.P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
50	561458048	SHANMUGAM.N	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
51	561458049	SIRAJ M P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
52	561458050	SIVARANJITH.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
53	561458051	SOMASUNTHARAM.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
54	561458052	SYED YASAR ARABATH.G	B.PHARM-IV-YEAR	✓	✓	A	✓	✓	✓
55	561458053	TAMILSELVAN.P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
56	561458054	THIRUMALAI.V	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
57	561458055	THULASI RAMAN.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	A
58	561458056	VEERA JOTHI.R	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
59	561458057	VENKATESH.G	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
60	561458058	VENKATESH.P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
61	561458059	VINOTHRANJAN.M	B.PHARM-IV-YEAR	A	✓	✓	✓	✓	✓
62	561458060	ZIYAD A K P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
63	561458036	RAGAVAPRASATH.C	B.PHARM-IV-YEAR	✓	✓	✓	A	✓	✓
64	561458038	RAJA LAKSHMI.B	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓	✓
65	561458039	REEMA.M.A	B.PHARM-IV-YEAR	A	✓	✓	✓	✓	✓

No. Of students Enrolled = 65

No. Of students Present = 65

No. Of students Absent = Nil

SIGNATURE OF STAFF

[Handwritten Signature]

[Handwritten Signature]
HOD



[Handwritten Signature]
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[Handwritten Signature]
Dr. N.SENTHILKUMAR,
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ADD-ON COURSE- STUDENT ANSWER SHEET

ADD-ON COURSE TITLE	PHARMACEUTICAL AUTOMATION : MERITS & DEMERITS	
NAME OF THE STUDENT	AKCHAYA.K	
REGISTER NO		
COURSE/YEAR/SEM	B.PHARM -II yr	MARKS OBTAINED: 46.
SIGNATURE	STUDENT:	STAFF:

Duration: 01:00 Hour

Maximum Marks:50

- Which one of the automated Machines used In the Pharmaceutical Industries for QA? 2
(a) Ball Mill (b) Air separator (c) Raman Spectroscopy (d) None of these
- Which of the following is a phase of technology transfer Process is considered as a last phase ? 2
(a) Development phase (b) Production phase (c) Quality testing phase (d) All of these
- Which of the following the methods are generally used in liquid filling? 2
(a) Volumetric (b) constant level method (c) Gravimetric (d) All the above
- The Pharmacy Act of India was introduced in 2
(a) 1948 (b) 1950 (c) 1947 (d) 1949
- Why Regulatory Compliance Requirements Importance? 2
(a) Ensure Quality (b) Eliminates Risk (c) To ensure customer confidence (d) All the above
- Regulatory Affairs Department includes 2
(a) Raw Material department (b) Medical device (c) Quality assurance (d) All the above.
- What is the need for AI in drugs development 2
(a) Increase global regulatory Requirements (b) Increase Volume of Data
(c) High attrition rate (d) All the above
- What are the Next Generation of Drug development? 2
(a) AI/ML/DL (b) NLP (C) Big data analytics (d) All the above
- What is the full form of AI
(a) Artificially Inligent Intelligence



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(e) Artificial Intelligence (d) Advanced Intelligence

10. Which one these is the drug manufacturing activities? 2

(a) Processing (b) Purification (c) Packing (d) all of these

11. How do I start manufacturing of drugs? 2

(a) company Registration (b) Drug License Number
(c) Generate GST Number (d) all of these

12. What is meaning of API?

(a) Active Pharmaceutical Ingredient
(b) Active Pharmacopeia Ingredient
(c) Active pharmacy Ingredient (d) All of these

13. What is purpose of the automation in pharmaceutical Industry? 2

(a) Improving the Efficiency of products (b) Increasing the Production
(c) Increasing the Parity of the Drug (d) All the above

14. What are the advantage of pharmaceutical Automation? 2

(a) Eliminate human errors (b) Efficiency of drug (c) accuracy of drugs (d) all the above

15. Which is the country known as Pharmacy of world 2

(a) India (b) USA (c) United Kingdom (d) All the above

16. Robots are specified by 2

(a) Pay Load (b) dimension of work develops (c) degree of freedom (d) all the above

17. The following type of Robot is most suitable for pick and place operation. 2

(a) Rectangular (b) Conical (c) cylindrical (d) None of these

18. The knowledge Base of an expert system includes both facts and 2

(a) Theories (b) heuristics (c) algorithms (d) analysis

19. Cytochrome P450 induction is often associated with 2

(a) Increased enzyme Synthesis rates (b)
(c) Reduced enzyme degradation rates (d) Neither.

20. Examples of "high - extraction drugs-related to hepatic drug cleanse 2

(a) Morphine (b) Meperidine (c) verapamil (d) all of these

21. Parameter to be considered for scale up of FBD 2

(a) optimum load (b) Air flow rate (c) Inlet air temperature (d) All the above

22. NDA takes 2

(a) 15 years (b) 12 years (c) 10 years (d) 5 years




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23. Which of the following guideline, provides Principle for QRM? 2
a) Q8 b) Q9 c) Q10 (d) Q11

24. The hepatic flow dependent drug elimination refers to 2
(a) changes in plasma protein concentration
(b) rate-limiting step is drug delivery to hepatic elimination sites
(c) number of functional hepatocytes.
(d) carrier saturation.

25. Characteristic (s) of a drug whose action is terminate by redistribution include: 2
(a) generally long-acting (b) usually a hydrophilic (not very lipid-soluble) drug
(c) eventually concentrates usually in adipose (fat) tissue (d) None of these

ALL THE BEST.




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Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in

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

MARK STATEMENT

Date: 15/09/2017

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1.	561658001	AJITH M	B.PHARM-II-YEAR	34	68
2.	561658002	AKSHAYA B M	B.PHARM-II-YEAR	46	92
3.	561658003	AMRITHA J	B.PHARM-II-YEAR	44	88
4.	561658004	ANITHA M	B.PHARM-II-YEAR	44	88
5.	561658005	ARCHANA R	B.PHARM-II-YEAR	46	92
6.	561658006	ARUNKUMAR D	B.PHARM-II-YEAR	40	80
7.	561658007	AYYAPPAN S	B.PHARM-II-YEAR	44	88
8.	561658008	BARATH KANNAN K	B.PHARM-II-YEAR	40	80
9.	561658009	BHARATHIRAGAVAN V	B.PHARM-II-YEAR	40	80
10.	561658010	BHARATHIRAJA A	B.PHARM-II-YEAR	46	92
11.	561658011	BRINDHA R	B.PHARM-II-YEAR	46	92
12.	561658012	CHANDRU S	B.PHARM-II-YEAR	42	84
13.	561658013	DEVANANDH D	B.PHARM-II-YEAR	44	88
14.	561658014	DEVANATHAN G	B.PHARM-II-YEAR	42	84
15.	561658015	DHINESHKUMAR M	B.PHARM-II-YEAR	46	92
16.	561658016	DHIVAGAR R	B.PHARM-II-YEAR	44	88
17.	561658017	DHIVYA K	B.PHARM-II-YEAR	44	88
18.	561658018	DIVYA S	B.PHARM-II-YEAR	40	80
19.	561658019	GOWSALYA P	B.PHARM-II-YEAR	46	92
20.	561658020	GOWTHAM S	B.PHARM-II-YEAR	44	88
21.	561558021	LAVANYA.M	B.PHARM-III-YEAR	44	88
22.	561558022	MADESH.C.R	B.PHARM-III-YEAR	46	92
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25.	561558026	MOHANA.V	B.PHARM-III-YEAR	48	96
26.	561558027	MOHANRAJ.M	B.PHARM-III-YEAR	38	76
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32.	561558034	PRIYADHARANI.S	B.PHARM-III-YEAR	42	84
33.	561558035	PRIYADHARSHINI.B	B.PHARM-III-YEAR	46	92
34.	561558036	RAGUNATH.P.V	B.PHARM-III-YEAR	40	80
35.	561558039	SAJEER MOHAMED.K	B.PHARM-III-YEAR	48	96
36.	561558040	SAKTHI KUMARAN.D	B.PHARM-III-YEAR	38	76
37.	561558041	SANTHOSH.P	B.PHARM-III-YEAR	44	88
38.	561558042	SANTHOSHKUMAR.P	B.PHARM-III-YEAR	48	96
39.	561558044	SATHISH.G	B.PHARM-III-YEAR	40	80
40.	561558045	SENTHAMIZH SELVAN.V	B.PHARM-III-YEAR	46	96
41.	561558046	SHAKTHI.R	B.PHARM-III-YEAR	42	84

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42.	561458040	SAKTHIVEL.M	B.PHARM-IV-YEAR	44	88
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65.	561458039	REEMA.M. A	B. PHARM-IV-YEAR	40	80

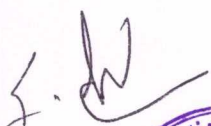
60-70% Marks =1 student
70-80% Marks =5 students
More than 80% Marks =59 students

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:

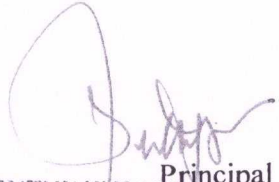
Since, 59 Students scored more than 80% of marks - Attainment level 3 Achieved.


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JKKMMRF's ANNAI JKK SAMPOORANI AMMAL



COLLEGE OF PHARMACY, KOMARAPALAYAM

DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT:

REGISTRATION NO:

COURSE:

YEAR & SEMESTER:

SEMINAR TOPIC:

DATE & TIME:

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

5. Were there any technical issues that prevented you from seeing or hearing the seminar?

Yes No

HOD



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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


9. How did the session compare to your expectations?

Excellent Good Fair Poor Not at all clear

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

1 2 3 4 5

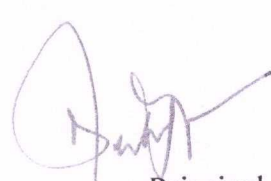
Student Name with Signature


HOD




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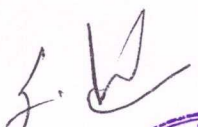
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 Contact No. : +919789456750, +919943069944, +919943066944

STUDENTS FEEDBACK -QUESTIONS & MARKS

Date: 15/09/2017

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	

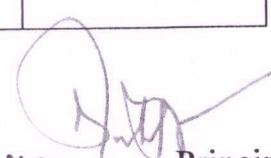
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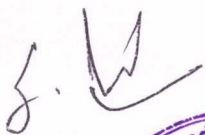
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	Accuracy of the sessions	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
9	Session expectations	Excellent	5	5
		Good	3	
		Fair	2	
		Poor	1	
		Not at all clear	0	
10	Rate the content of the seminar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

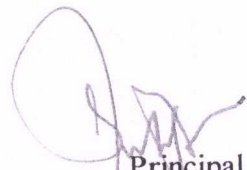
Total marks = 50


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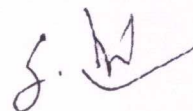
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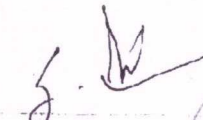
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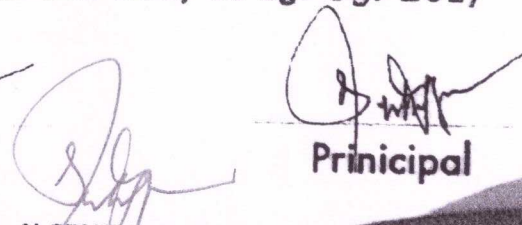


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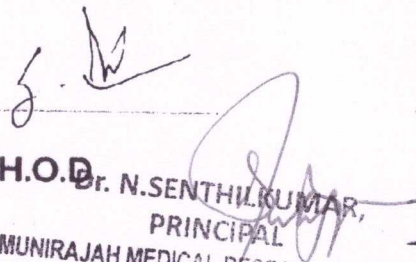


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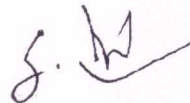


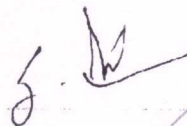
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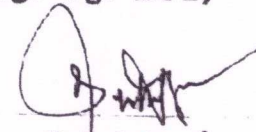


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