



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

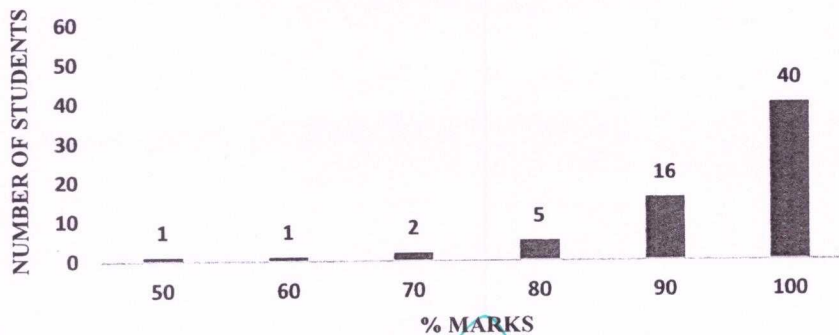
Date: 27/02/2020

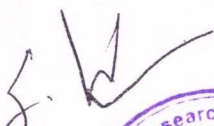
Academic year	2019-2020
Add-on course title	Robotics: introduction and applications in pharmaceutical industry.
Date	13/02/2020 to 27/02/2020
Duration of the Course	30 HOURS
Total participants Enrolled	67
Successfully Completed	65
Type of Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ul style="list-style-type: none">• Defines Robotics simulations in pharmaceutical industry.• Learned about Robots currently used by the pharmaceutical industry.• R&D tests and trials using robots and the evolution of robotics research
Outcome Attainment	38 Students scored more than 80% of marks - Attainment level 3 Achieved

Feedback Question Analysis – Question Asked-Feedback Rating

1.Satisfaction	6.Like to learn more about this topic
2.Clarity	7.Rate the content of the slides/virtual aid
3. Percentage of the information was new	8.Accuracy of the sessions
4.Informative	9.Session expectations
5.Technical issues	10.Rate the content of the seminar

STUDENT FEEDBACK ANALYSIS




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.


Principal
Dr. N.SENTHILKUMAR,
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DATE: 27/02/2020

REPORT

ADD-ON COURSE TITLE- ROBOTICS: INTRODUCTION AND APPLICATIONS IN PHARMACEUTICAL INDUSTRY.

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:65.

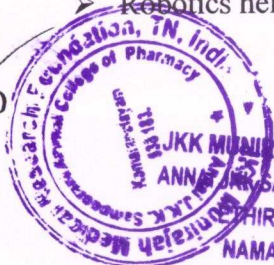
OBJECTIVE OF THE COURSE

The objective of this ADD-ON COURSE on the topic Robotics: introduction and applications in pharmaceutical industry. this program provides the theoretical and practical knowledge on robotics simulations in pharmaceutical industry.in this training program students acquire updated knowledge to apply in pharmaceutical sciences.

LEARNING OUTCOMES FROM THE COURSE

- Robotics simulations in pharmaceutical industry
- Robots currently used by the pharmaceutical industry.
- R&D tests and trials using robots.
- The evolution of robotics research
- Service robotics to the pharmaceutical industry
- Challenges used robots in pharmaceutical industry.
- Robots in quality control operations
- Robots in testing and validation
- Robotics helps regulatory compliance.

HOD



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PRINCIPAL

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Website : www.jkkm.info | E-mail : senthilkumarjkkm@gmail.com

Ph : 0091 - 04288-260032, 260588, 266778

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

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

REF.NO: JKKM/PHARM/CEU/REQ/2020/004

Date: 07/02/2020

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 13/02/2020 to 27/02/2020. We wish to conduct a add-on course regarding the title **ROBOTICS: INTRODUCTION AND APPLICATIONS IN PHARMACEUTICAL INDUSTRY**. 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,

06/02/2020
Senthil Kumar

Senthil Kumar

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:08/02/2020

CIRCULAR

This is informed to the B. Pharm-I, II, III& Pharm.D- I, II, III,IV,V,VI Students that the following value-added 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
ROBOTICS: INTRODUCTION AND APPLICATIONS IN PHARMACEUTICAL INDUSTRY	13/02/2020 To 27/02/2020	30 HOURS	SEMINAR HALL	DR.N.SENTHILKUMAR DR.S.CHANDRA MR.R.SURESH DR.D.KRISHNARAJAN

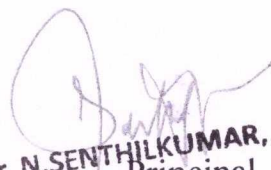
All the above-mentioned students must enroll and actively participate in the course without fail.

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




Dr. N.SENTHILKUMAR,
PRINCIPAL

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SYLLABUS

DATE	HOURS	SEMINAR TOPIC	SUBTOPICS	RESOURCE PERSON	
13/02/2020	6 HOURS	ROBOTICS: INTRODUCTION AND APPLICATIONS IN PHARMACEUTICAL INDUSTRY	Robotics Simulations in pharmaceutical industry	Dr.S.Chandra	
				Mr.R.Suresh	
			Robots currently used by the pharmaceutical industry	Dr.N.Senthilkumar	
				Dr.D.Krishnarajan	
18/02/2020	6 HOURS			R&D Tests and trials using robots	Dr.S.Chandra
					Mr.R.Suresh
				The evolution of robotics research	Dr.S.Chandra
					Mr.R.Suresh
19/02/2020	6 HOURS			Service robotics to the pharmaceutical industry	Dr.S.Chandra
					Mr.R.Suresh
				Challenges used robots in pharmaceutical industry	Dr.D.Krishnarajan
					Dr.N.Senthilkumar
26/02/2020	6 HOURS		Robots in Quality control operations	Dr.S.Chandra	
				Mr.R.Suresh	
			Robots in Testing and validation	Dr.D.Krishnarajan	
				Dr.N.Senthilkumar	
27/02/2020	6 HOURS		Robotics helps Regulatory compliance	Dr.S.Chandra	
				/Mr.R.Suresh	
			Advantages and disadvantages of robotics in the pharmaceutical industry	Dr.D.Krishnarajan	
				Dr.N.Senthilkumar	

TOTAL HOURS=30



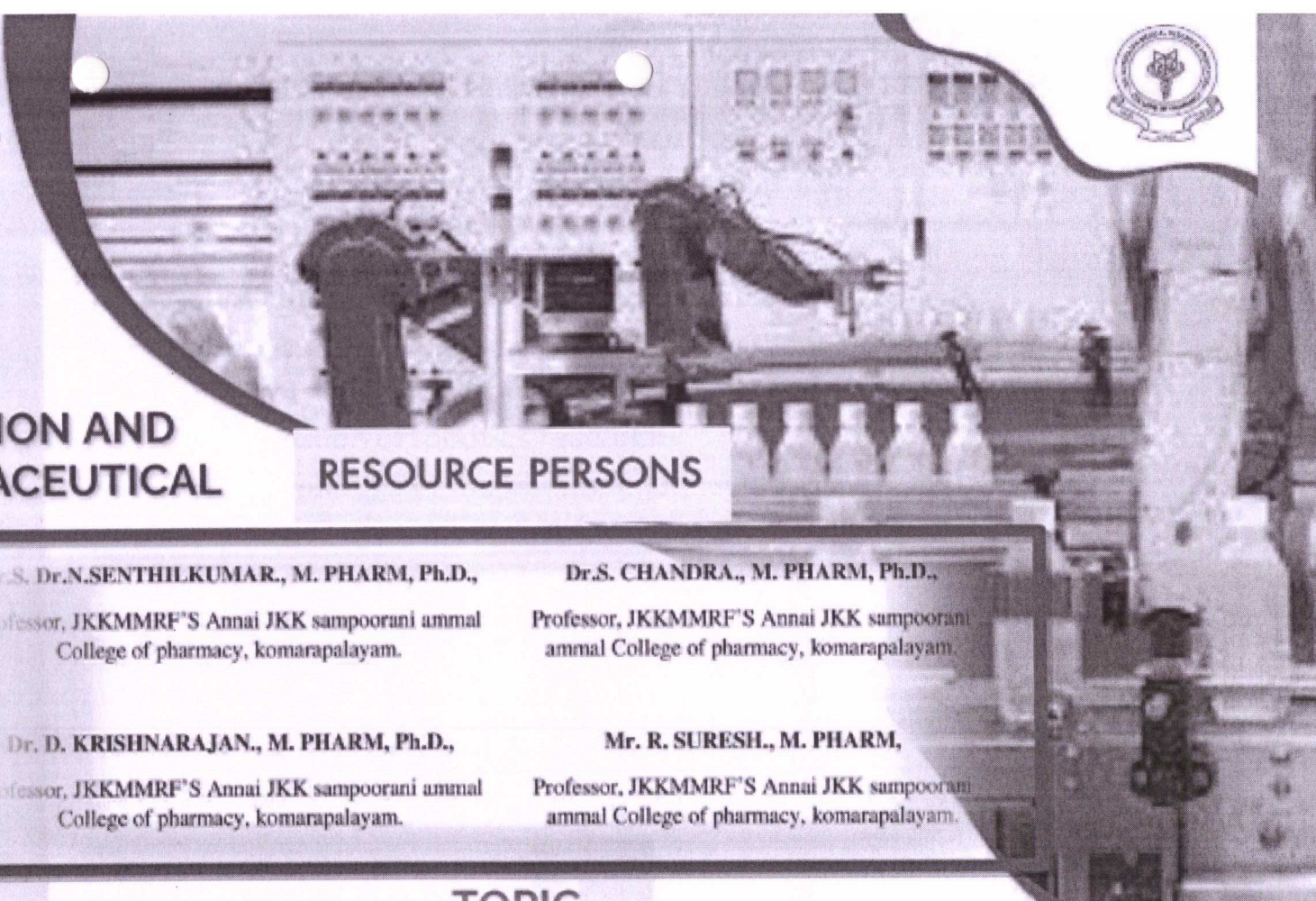
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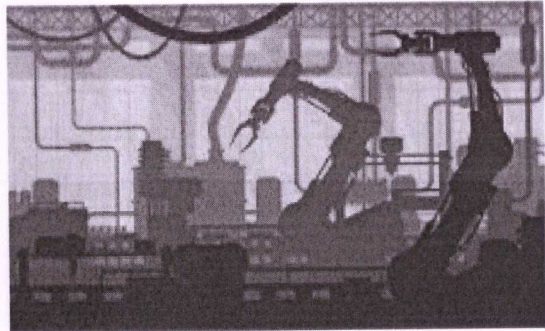
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**JKKMMRF'S ANNAI
JKKSAMPOORANIAMMAL
COLLEGE OF PHARMACY,
KOMARAPALAYAM**



COURSE ON

**ROBOTICS: INTRODUCTION AND
APPLICATIONS IN PHARMACEUTICAL
INDUSTRY**



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.

TOPIC

Robotics Simulations in pharmaceutical industry

Robots currently used by the pharmaceutical industry

R&D Tests and trials using robots

The evolution of robotics research

Service robots to the pharmaceutical industry

Challenges used robots in pharmaceutical industry

Robots in Quality control operations

Robots in Testing and validation

Robotics helps Regulatory compliance

Advantages and disadvantages of robotics in the pharmaceutical industry

DATE

13/02/2020 To 27/02/2020

VENUE:SEMINAR HALL

TIME:09.30AM-04.30PM



**DR. ALBERT JAYARAJ
PRINCIPAL**

**MUNIKAJAH MEDICAL RESEARCH FOUNDATION
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ETHIRMEDU, KOMARAPALAYAM - 638 183.
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ROBOTICS: INTRODUCTION AND APPLICATIONS IN PHARMACEUTICAL INDUSTRY

LIST OF STUDENTS ENROLLED FOR THE COURSE

DATE:27/02/2020

S.NO	REG.NO	NAME OF THE STUDENT	COURSE
1	561658094	VIGNESH R	B.PHARM-IV-YEAR
2	561658095	VIJAY V	B.PHARM-IV-YEAR
3	561658096	VISHNU M S	B.PHARM-IV-YEAR
4	561658097	VISHNU PRIYA S	B.PHARM-IV-YEAR
5	561658098	VIVEK M	B.PHARM-IV-YEAR
6	561658099	YAZHLMOZHLI S	B.PHARM-IV-YEAR
7	561758101	KARTHIKEYAN R	B.PHARM-IV-YEAR
8	561758102	MOHAMEDASIF A	B.PHARM-IV-YEAR
9	561758104	PRIYADEVI B	B.PHARM-IV-YEAR
10	561758105	VIJAYAPRADHA K	B.PHARM-IV-YEAR
11	381910406	BHARATH M	I-PHARM.D
12	381910407	DHILIP KUMAR M	I-PHARM.D
13	381910408	DONY D	I-PHARM.D
14	381910409	GODWIN S	I-PHARM.D
15	381810401	AAMINA HANEEF	II-PHARM.D
16	381810402	ABDUL BASITH M	II-PHARM.D
17	381810404	ABISHEK P	II-PHARM.D
18	381810405	ALWIN BABYKUTTY ALEX	II-PHARM.D
19	381810406	ANAGHA S	II-PHARM.D
20	381710430	NAIVIN D ALMEDA	III-PHARM.D
21	381510328	RAVEENA A	III-PHARM.D
22	381510414	OBINCHU N ONGUBO ROBIN	III-PHARM.D
23	381510426	STALIN ANTONY	III-PHARM.D
24	381610425	TAMILSELVAN N	III-PHARM.D
25	381610407	BITTY R	IV-PHARM.D
26	381610408	DEEPAK K	IV-PHARM.D
27	381610409	FEBA SHAJI	IV-PHARM.D
28	381610410	HARIHARAN V	IV-PHARM.D
29	381610412	KRIPA VARGHESE	IV-PHARM.D
30	381510427	THESNI PASHA.S	V-PHARM.D
31	381510428	THIRU ARUL.S	V-PHARM.D
32	381510429	THIRUGNANAM.T.S	V-PHARM.D
33	381510430	YOGA KRISHNAN.S	V-PHARM.D
34	381410418	PACHIYAPPAN M	V-PHARM.D
35	381410401	ALEENA S	VI-PHARM.D
36	381410402	ARIYA MOL R	VI-PHARM.D
37	381410403	ARYA M S	VI-PHARM.D
38	381410405	ASLAM A	VI-PHARM.D
39	381410406	ATHMAJA KRISHNA P S	VI-PHARM.D
40	561958001	ABDUL VAHID	B.PHARM-I-SEM
41	561958002	AJITH KUMAR K	B.PHARM-I-SEM

HOD

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Principal



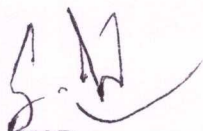
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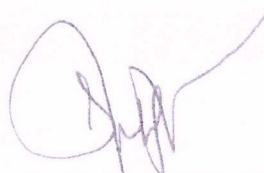
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42	561958003	ANAND M	B.PHARM-I-SEM
43	561958004	ANAND R	B.PHARM-I-SEM
44	561958005	ANBARASAN S	B.PHARM-I-SEM
45	561958006	ANUSHIYA D D	B.PHARM-I-SEM
46	561958007	ARUN M	B.PHARM-I-SEM
47	561958008	ARUNA P	B.PHARM-I-SEM
48	561958009	ASHOKMOHAN J	B.PHARM-I-SEM
49	561958010	ASLIN VENISKA V	B.PHARM-III-SEM
50	561858008	BOOPATHI K	B.PHARM-III-SEM
51	561858009	CHANDRASEKAR R	B.PHARM-III-SEM
52	561858010	DEEBAK K C	B.PHARM-III-SEM
53	561858011	DEEPIKA P	B.PHARM-III-SEM
54	561758001	AAKASH S	B.PHARM-V-SEM
55	561758002	ABINAYA V	B.PHARM-V-SEM
56	561758003	AJAY KUMAR M	B.PHARM-V-SEM
57	561758004	AKILANDESWARAN S	B.PHARM-V-SEM
58	561758005	AMARNATH A	B.PHARM-V-SEM
59	561758006	ANANTH R	B.PHARM-V-SEM
60	561758007	ANBUDURAI S	B.PHARM-V-SEM
61	561758008	ARJUNAN K	B.PHARM-V-SEM
62	561758009	ARUN KUMAR R	B.PHARM-V-SEM
63	561758010	ARUNPRAKASH S	B.PHARM-V-SEM
64	561758011	AYYASAMY R	B.PHARM-V-SEM
65	561758012	BALA GURU I T	B.PHARM-V-SEM
66	561758013	CHANDRU D	B.PHARM-V-SEM
67	561758014	DEEPA P	B.PHARM-V-SEM


HOD


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STUDENTS ATTENDANCE

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	13/02	18/02	19/02	26/02	27/02
1	561658094	VIGNESH R	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
2	561658095	VIJAY V	B.PHARM-IV-YEAR	A	✓	✓	✓	✓
3	561658096	VISHNU M S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
4	561658097	VISHNU PRIYA S	B.PHARM-IV-YEAR	✓	✓	A	✓	✓
5	561658098	VIVEK M	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
6	561658099	YAZHLMOZHLI S	B.PHARM-IV-YEAR	✓	✓	✓	✓	A
7	561758101	KARTHIKEYAN R	B.PHARM-IV-YEAR	✓	A	✓	✓	✓
8	561758102	MOHAMEDASIF A	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
9	561758104	PRIYADEVI B	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
10	561758105	VIJAYAPRADHA K	B.PHARM-IV-YEAR	✓	✓	A	✓	✓
11	381910406	BHARATH M	I-PHARM.D	✓	✓	✓	✓	✓
12	381910407	DHILIP KUMAR M	I-PHARM.D	✓	✓	✓	✓	A
13	381910408	DONY D	I-PHARM.D	✓	✓	✓	✓	✓
14	381910409	GODWIN S	I-PHARM.D	✓	✓	✓	✓	✓
15	381810401	AAMINA HANEEF	II-PHARM.D	✓	A	✓	✓	✓
16	381810402	ABDUL BASITH M	II-PHARM.D	✓	✓	✓	✓	✓
17	381810404	ABISHEK P	II-PHARM.D	✓	✓	✓	✓	✓
18	381810405	ALWIN BABYKUTTY ALEX	II-PHARM.D	✓	✓	✓	A	✓
19	381810406	ANAGHA S	II-PHARM.D	✓	✓	✓	✓	✓
20	381710430	NAIVIN D ALMEDA	III-PHARM.D	✓	✓	✓	✓	✓
21	381510328	RAVEENA A	III-PHARM.D	✓	A	✓	✓	✓
22	381510414	OBINCHU N ONGUBO ROBIN	III-PHARM.D	✓	✓	✓	✓	A
23	381510426	STALIN ANTONY	III-PHARM.D	✓	✓	✓	✓	✓
24	381610425	TAMILSELVAN N	III-PHARM.D	✓	✓	✓	✓	✓
25	381610407	BITTY R	IV-PHARM.D	✓	✓	A	✓	✓
26	381610408	DEEPAK K	IV-PHARM.D	✓	✓	✓	✓	✓
27	381610409	FEBA SHAJI	IV-PHARM.D	✓	✓	✓	✓	✓
28	381610410	HARIHARAN V	IV-PHARM.D	✓	✓	✓	✓	A
29	381610412	KRIPA VARGHESE	IV-PHARM.D	✓	✓	✓	✓	✓
30	381510427	THESNI PASHA.S	V-PHARM.D	✓	✓	✓	✓	✓
31	381510428	THIRU ARUL.S	V-PHARM.D	A	✓	✓	✓	✓
32	381510429	THIRUGNANAM.T.S	V-PHARM.D	✓	✓	✓	✓	✓
33	381510430	YOGA KRISHNAN.S	V-PHARM.D	✓	✓	✓	A	✓
34	381410418	PACHIYAPPAN M	V-PHARM.D	✓	✓	✓	✓	✓
35	381410401	ALEENA S	VI-PHARM.D	✓	✓	✓	✓	A
36	381410402	ARIYA MOL R	VI-PHARM.D	✓	✓	✓	✓	✓
37	381410403	ARYA M S	VI-PHARM.D	A	✓	✓	✓	✓
38	381410405	ASLAM A	VI-PHARM.D	✓	✓	✓	✓	✓

HOD



Dr. N.SENTHILKUMAR,
PRINCIPAL

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, INDIA.

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

39	381410406	ATHMAJA KRISHNA P S	VI-PHARM.D	✓	✓	✓	✓	✓
40	561958001	ABDUL VAHID	B.PHARM-I-SEM	✓	✓	✓	✓	✓
41	561958002	AJITH KUMAR K	B.PHARM-I-SEM	✓	✓	✓	✓	✓
42	561958003	ANAND M	B.PHARM-I-SEM	✓	✓	✓	✓	✓
43	561958004	ANAND R	B.PHARM-I-SEM	✓	✓	✓	✓	✓
44	561958005	ANBARASAN S	B.PHARM-I-SEM	✓	✓	✓	✓	✓
45	561958006	ANUSHIYA D D	B.PHARM-I-SEM	✓	✓	✓	✓	✓
46	561958007	ARUN M	B.PHARM-I-SEM	✓	✓	✓	✓	✓
47	561958008	ARUNA P	B.PHARM-I-SEM	✓	✓	✓	✓	✓
48	561958009	ASHOKMOHAN J	B.PHARM-I-SEM	✓	✓	✓	✓	✓
49	561958010	ASLIN VENISKA V	B.PHARM-III-SEM	✓	✓	A	✓	✓
50	561858008	BOOPATHI K	B.PHARM-III-SEM	✓	✓	✓	✓	✓
51	561858009	CHANDRASEKAR R	B.PHARM-III-SEM	✓	✓	✓	✓	✓
52	561858010	DEEBAK K C	B.PHARM-III-SEM	✓	✓	✓	✓	✓
53	561858011	DEEPIKA P	B.PHARM-III-SEM	✓	✓	✓	✓	✓
54	561758001	AAKASH S	B.PHARM-V-SEM	✓	✓	✓	✓	✓
55	561758002	ABINAYA V	B.PHARM-V-SEM	✓	✓	✓	✓	✓
56	561758003	AJAY KUMAR M	B.PHARM-V-SEM	A	✓	✓	✓	✓
57	561758004	AKILANDESWARAN S	B.PHARM-V-SEM	✓	✓	✓	✓	A
58	561758005	AMARNATH A	B.PHARM-V-SEM	✓	✓	✓	✓	✓
59	561758006	ANANTH R	B.PHARM-V-SEM	✓	A	✓	✓	✓
60	561758007	ANBUDURAI S	B.PHARM-V-SEM	✓	✓	✓	✓	✓
61	561758008	ARJUNAN K	B.PHARM-V-SEM	✓	✓	✓	✓	✓
62	561758009	ARUN KUMAR R	B.PHARM-V-SEM	✓	✓	✓	✓	✓
63	561758010	ARUNPRAKASH S	B.PHARM-V-SEM	✓	✓	✓	✓	✓
64	561758011	AYYASAMY R	B.PHARM-V-SEM	✓	✓	✓	✓	✓
65	561758012	BALA GURU I T	B.PHARM-V-SEM	✓	✓	A	✓	✓

No. Of students Enrolled = 67

No. Of students Present = 65

No. Of students Absent = 02

SIGNATURE OF STAFF

Pradip

J. W.

HOD



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



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

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

ADD-ON COURSE- STUDENT ANSWER SHEET

ADD-ON COURSE TITLE	ROBOTICS: INTRODUCTION AND APPLICATIONS IN PHARMACEUTICAL INDUSTRY	
NAME OF THE STUDENT	NairinD ALMEDA	
DATE	27.02.2020	
REGISTER NO	381710430	
COURSE/YEAR/SEM	Pharm.D. III Year	MARKS OBTAINED: 48
SIGNATURE	STUDENT:	STAFF:

Duration: 01:00 Hour

Maximum Marks:50

- 1) Robotics simulation software also typically provides not Support for 2
 a) cutting b) spraying c) Arc Welding d) none of these.
- 2) Choose the correct robotics Simulator ? 2
 a) webots b) Java c) c++ d) All of these.
- 3) A robotics simulator is a simulator used to Create application for 2
a) Digital Software b) physical work c) physical robot d) virtual Environ
- 4) SCARA robots used for 2
a) welding b) Cutting c) Pick &place d) packing
- 5) Choose robot for "Mixing & Dosing". 2
a) AMR b) AGV c) Delta robot d) a and b
- 6) Choose a robot for "packing" 2
 a) Articulated robots b) cobots c) Delta robots d) AMR
- 7) Which Country more money spent in R&D work? 2
a) India b) Pakistan c) china d) OELD



Dr. N. SENTHILKUMAR,
PRINCIPAL,

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

- 8) Robots create a major role in R&D. 2
 a) Novel pharmaceuticals b) Drug Quality control c) QC d) All of the above.
- 9) HTS Consists of 2
 a) Nanoplate b) macro plate c) micro plate d) None of the above
- 10) When industrial robots are introduced in production process 2
 a) 1960 b) 1944 c) 1980 d) 1992
- 11) Robot mapping has commonly been referred as 2
 a) SLIM b) SLAM c) e-SIM d) None of the above
- 12) Industrial robots: when introduced the Medical robots. 2
 a) 2003 b) 2003 c) 1995 d) 1998
- 13) Service robot defines by 2
 a) IOS b) ISO c) BIS d) AGMARK
- 14) Robots require a 2
 a) Autonomy b) ° of autonomy c) Interaction d) all the above
- 15) Industrial Robots have been defined by 2
 a) IFR b) IOS c) ISO d) BIS
- 16) Advantage of industrial robot 2
 a) Low Cost b) Low space c) Reduced direct Labour cost d) None of the above
- 17) Disadvantage of industrial robot. 2
 a) save time b) Greater Safety c) High cost d) None
- 18) Robot Challenge in pharma industry. 2
 a) Reduce the Manufacturing Process b) Increase the demand of cost
 c) Increase the productivity & fulfil the demand d) All the above
- 19) HPLC device is used for 2
 a) Dry packing b) Quality Control c) Quality assurance d) All the above
- 20) Software of Quality control robot. 2
 a) SCARA b) Artiminds RPS c) AGV d) all these
- 2) Quality control used for 2
 a) stability b) Nutrients c) Impurities d) All these



Dr. N. Senthilkumar
 Dr. N. SENTHILKUMAR,
 PRINCIPAL,

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

- 22) Validation and Testing is the process of 2
a) Q.C b) Q.A c) R&D d) None of the above
- 23) Main goal of validation Tasting is to verify a 2
a) Physical product b) Drug Assurance c) Software Product d) None of the above
- 24) How many stages for "Validation and Testing". 2
a) 1 b) 2 c) 3 d) 3 & above
- 25) RPA is used for 2
a) Reduced Legal issues b) Better Business operation c) a & b d) None of them.

ALL THE BEST



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



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

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

ADD-ON COURSE-ANSWER SHEET

Date:27/02/2020

NAME OF THE STUDENT **ROBOTICS: INTRODUCTION AND APPLICATIONS IN
PHARMACEUTICAL INDUSTRY**

Duration: 01:00 Hour

Maximum Marks:50

1) Robotics simulation software also typically provides not Support for 2

a) cutting b) spraying c) Arc Welding d) none of these.

ANSWER:D

2) Choose the correct robotics Simulator ? 2

a) webots b) Java c) c++ d) All of these.

ANSWER:A

3) A robotics simulator is a simulator used to Create application for 2

a) Digital Software b) physical work c) physical robot d) virtual Environ

ANSWER:C

4) SCARA robots used for 2

a) welding b) Cutting c) Pick &place d) packing

ANSWER:C

5) Choose robot for "Mixing & Dosing". 2

a) AMR b) AGV c) Delta robot (d) a and b

ANSWER:D

6) Choose a robot for "packing" 2

a) Articulated robots b) cobots c) Delta robots d) AMR

ANSWER:A

7) Which Country more money spent in R&D work? 2

a) India b) Pakistan c) china d) OELD

ANSWER:D

8) Robots create a major role in R&D. 2

a) Novel pharmaceuticals b) Drug Quality control c) QC

d) All of the above

ANSWER:A



Dr. N.SENTHILKUMAR,
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
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- 9) HTS Consists of 2
 a) Nanoplate b) macro plate c) micro plate d) None of the above
 ANSWER:C
- 10) When industrial robots are introduced in production process 2
 a) 1960 b) 1944 c) 1980 d) 1992
 ANSWER:A
- 11) Robot mapping has commonly been referred as 2
 a) SLIM b) SLAM c) eSIM d) None of the above
 ANSWER:B
- 12) Industrial robots: when introduced the Medical robots. 2
 a) 2003 b) 2003 c) 1995 d) 1998
 ANSWER:C
- 13) Service robot defines by 2
 a) IOS b) ISO c) BIS d) AGMARK
 ANSWER:A
- 14) Robots require a 2
 a) Autonomy (b) ° of autonomy c) Interaction d) all the above
 ANSWER:B
- 15) Industrial Robots have been defined by 2
 a) IFR b) IOS c) ISO d) BIS
 ANSWER:A
- 16) Advantage of industrial robot 2
 a) Low Cost b) Low space c) Reduced direct Labour cost d) None of the above
 ANSWER:C
- 17) Disadvantage of industrial robot. 2
 a) save time b) Greater Safety c) High cost d) None
 ANSWER:C
- 18) Robot Challenge in pharma industry. 2
 a) Reduce the Manufacturing Process b) Increase the demand of cost
 c) Increase the productivity & fulfil the demand d) All the above
 ANSWER:C
- 19) HPLC device is used for 2
 a) Dry packing b) Quality Control c) Quality assurance d) All the above




Dr. N.SENTHILKUMAR,
PRINCIPAL

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

ANSWER:B

20) Software of Quality control robot.

2

a) SCARA b) Artiminds RPS c) AGV d) all these

ANSWER:B

2) Quality control used for

2

a) stability b) Nutrients c) Impurities d) All these

ANSWER:D

22) Validation and Testing is the process of

2

a) Q.C b) Q.A C) R&D d) None of the above

ANSWER:B

23) Main goal of validation Tasting is to verify a

2

a) Physical product b) Drug Assurance c) Software Product d) None of the above

ANSWER:C

24) How many stages for "Validation and Testing".

2

a) 1 b) 2 c) 3 d) 3 & above

ANSWER:D

25) RPA is used for

2

a) Reduced Legal issues b) Better Business operation c) a & b d) None of them.

ANSWER:C

ALL THE BEST




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Dr. N.SENTHILKUMAR,
PRINCIPAL

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



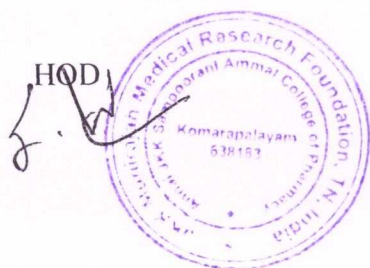
J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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

MARK STATEMENT

Date:27/02/2020

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1	561658094	VIGNESH R	IV -B.PHARM	42	84
2	561658095	VIJAY V	IV -B.PHARM	36	72
3	561658096	VISHNU M S	IV -B.PHARM	46	92
4	561658097	VISHNU PRIYA S	IV -B.PHARM	38	76
5	561658098	VIVEK M	IV -B.PHARM	46	92
6	561658099	YAZHLMOZHILI S	IV -B.PHARM	48	96
7	561758101	KARTHIKEYAN R	IV -B.PHARM	38	76
8	561758102	MOHAMEDASIF A	IV -B.PHARM	42	84
9	561758104	PRIYADEVI B	IV -B.PHARM	38	76
10	561758105	VIJAYAPRADHA K	IV -B.PHARM	44	88
11	381910406	BHARATH M	I-PHARM.D	32	64
12	381910407	DHILIP KUMAR M	I-PHARM.D	42	84
13	381910408	DONY D	I-PHARM.D	36	72
14	381910409	GODWIN S	I-PHARM.D	46	92
15	381810401	AAMINA HANEEF	II-PHARM.D	38	76
16	381810402	ABDUL BASITH M	II-PHARM.D	46	92
17	381810404	ABISHEK P	II-PHARM.D	46	92
18	381810405	ALWIN BABYKUTTY ALEX	II-PHARM.D	42	84
19	381810406	ANAGHA S	II-PHARM.D	38	76
20	381710430	NAIVIN D ALMEDA	III-PHARM.D	48	96
21	381510328	RAVEENA A	III-PHARM.D	36	72
22	381510414	OBINCHU N ONGUBO ROBIN	III-PHARM.D	42	84
23	381510426	STALIN ANTONY	III-PHARM.D	32	64
24	381610425	TAMILSELVAN N	III-PHARM.D	46	92
25	381610407	BITTY R	IV-PHARM.D	36	72
26	381610408	DEEPAK K	IV-PHARM.D	42	84
27	381610409	FEBE SHAJI	IV-PHARM.D	38	76
28	381610410	HARIHARAN V	IV-PHARM.D	38	76
29	381610412	KRIPA VARGHESE	IV-PHARM.D	42	84
30	381510427	THESNI PASHA.S	V-PHARM.D	42	84
31	381510428	THIRU ARUL.S	V-PHARM.D	34	68
32	381510429	THIRUGNANAM.T. S	V-PHARM.D	48	96
33	381510430	YOGA KRISHNAN.S	V-PHARM.D	36	72
34	381410418	PACHIYAPPAN M	V-PHARM.D	48	96
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36	381410402	ARIYA MOL R	VI-PHARM.D	36	72
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Dr. N.SENTHILKUMAR,
PRINCIPAL

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

ETHIRMEDU, KOMARAPALAYAM - 638 183.

NAMAKKAL DISTRICT, TAMILNADU

Principal
Dr. N.SENTHILKUMAR,
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
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38	381410405	ASLAM A	VI-PHARM.D	38	76
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ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL, DISTRICT, TAMILNADU

Dr. N.SENTHILKUMAR,
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
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			SEM		
63	561758010	ARUNPRAKASH S	B.PHARM-V-SEM	32	64
64	561758011	AYYASAMY R	B.PHARM-V-SEM	48	96
65	561758012	BALA GURU I T	B.PHARM-V-SEM	48	96

60-70% Marks =08 students
70-80% Marks =19 students
More than 80% Marks =38 students

Outcome Attainment Rubrics:

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

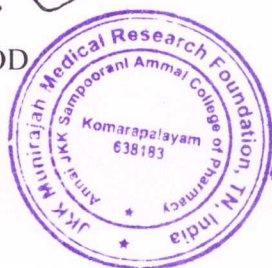
Attainment level 2-If students getting 70-80% of marks

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

Attainment level:

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

[Handwritten Signature]
HOD



[Handwritten Signature]
Dr. N.SENTHILKUMAR,
PRINCIPAL

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

[Handwritten Signature]
Dr. N.SENTHILKUMAR,
PRINCIPAL

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



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

DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT: V. VIJAY

REGISTRATION NO: 561658095

COURSE: B.Pharm

YEAR & SEMESTER: IV-YEAR non-SEM

SEMINAR TOPIC: Robotics : Introduction and applications in Pharmaceutical industry

DATE & TIME: 13/02/2020 to 27/2/20

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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PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
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NAMAKKAL DISTRICT, TAMILNADU.

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

- Yes
 No

6. Would you like to learn more about this topic?

- Yes
 No

7. Rate the content of the slides/virtual aid?

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

8. How accurate was the session description?

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

9. How did the session compare to your expectations? Select: Excellent Good Fair Poor

- Excellent
 Good
 Fair
 Poor
 Not at all clear

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

- 1
 2
 3
 4
 5


Dr. N. SENTHILKUMAR,
PRINCIPAL,

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


Student Name & Signature





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

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: 27/02/2020

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



Dr. N.SENTHILKUMAR,
PRINCIPAL

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

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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

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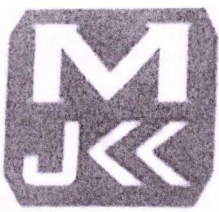


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PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638183
NAMAKKAL DISTRICT, TAMILNADU, INDIA

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Principal
Dr. N.SENTHILKUMAR
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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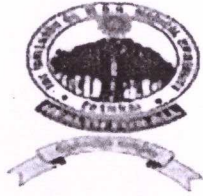
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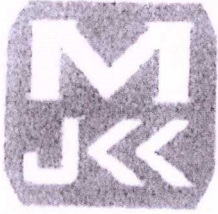
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PRINCIPAL

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

[Signature]
Dr. N. Senthilkumar
PRINCIPAL

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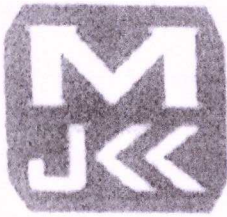
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

Dr. N. Senthil Kumar,
PRINCIPAL
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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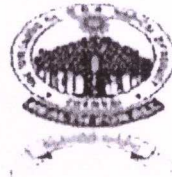


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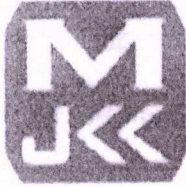


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PRINCIPAL
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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183,
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

[Signature]
DR. N. SENTHILKUMAR,
PRINCIPAL

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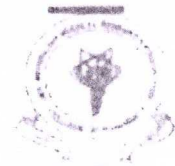
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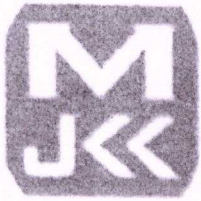
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PRINCIPAL
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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

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

[Signature]
Dr. N. Senthilkumar,
 PRINCIPAL
 JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
 ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
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