



# 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](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

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

## DEPARTMENT OF PHARMACEUTICS

ONE DAY SEMINAR ON NOVEL TECHNOLOGIES ADOPTED IN PHARMACEUTICAL PLANTS

VENUE: SEMINAR HALL

### RESOURCE PERSONS

1. Dr. N. SENTHILKUMAR. M. PHARM, Ph.D.,

PRINCIPAL

JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL

COLLEGE OF PHARMACY,

KOMARAPALAYAM.

2. Dr. S. CHANDRA., M. PHARM, Ph.D.,

PROFESSOR AND HOD ,

JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL

COLLEGE OF PHARMACY,

KOMARAPALAYAM.

No. of students enrolled: 120

No. of students certified: 120

No. of students certified in our institution : 25



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,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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Contact No. : +919789456750, +919943069944, +919943066944

**DATE: 18.12.2020**

## DEPARTMENT OF PHARMACEUTICS

### REPORT

#### RESOURCE PERSONS

**1. Dr. N. SENTHILKUMAR, M. PHARM, Ph.D.,**  
PRINCIPAL

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

**2. Dr. S. CHANDRA., M. PHARM, Ph.D.,**  
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**No. of students enrolled: 120**

**No. of students certified: 120**

**No. of students certified in our institution : 25**

#### Objective:

The aim of novel technologies adopted in pharmaceutical plants is to design a quality product and its manufacturing process to consistently deliver the intended performance of the product.

#### Learning outcomes:

Students know about artificial intelligence, big data & analytics, flexible production, precision medicine, additive manufacturing, blockchain, extended reality, real world data, digital therapeutics, curative therapies

Head of the Department

Principal

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

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

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

REF.NO: JKKM/PHARM/CEU/REQ/2020/003

Date: 17.12.2020

**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 one day seminar regarding: -**

**Respected Sir,**

We Are writing this letter to request permission to conduct an one day seminar in the SEMINAR HALL on 18.12.2020. We wish to conduct seminar regarding the NOVEL TECHNOLOGIES ADOPTED IN PHARMACEUTICAL PLANTS. We request you to kindly permit to conduct seminar 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,



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,**  
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## CIRCULAR

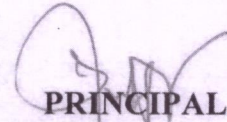
This is informed to the B. Pharm-I, II, III, IV Students that the following SEMINAR can be conducted by the Department of Pharmaceutics, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

SEMINAR NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
NOVEL TECHNOLOGIES ADOPTED IN PHARMACEUTICAL PLANTS	18.12.2020	3 HOURS	SEMINAR HALL	Dr.N.SENTHILKUMAR Dr.S.CHANDRA

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.



  
PRINCIPAL

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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Dr. N.SENTHILKUMAR,  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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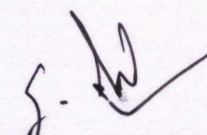
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## SYLLABUS

DATE	HOURS	SEMINAR TOPIC	SUB TOPICS	RESOURCE PERSON
18.12.2020	3 HOURS	NOVEL TECHNOLOGIES	<b>Digitization and digital maturity</b>	<b>Dr.N.SENTHILKUMAR</b>
		ADOPTED IN PHARMACEUTICAL PLANTS	<b>Artificial intelligence</b>	<b>Dr.S.CHANDRA</b>

TOTAL HOURS=3 hours

  
Head Of the Department



  
Principal  
**Dr. N. SENTHILKUMAR,**  
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**JKKMMRF'S-ANNAI JKK  
SAMPOORANI AMMAL COLLEGE  
OF PHARMACY**

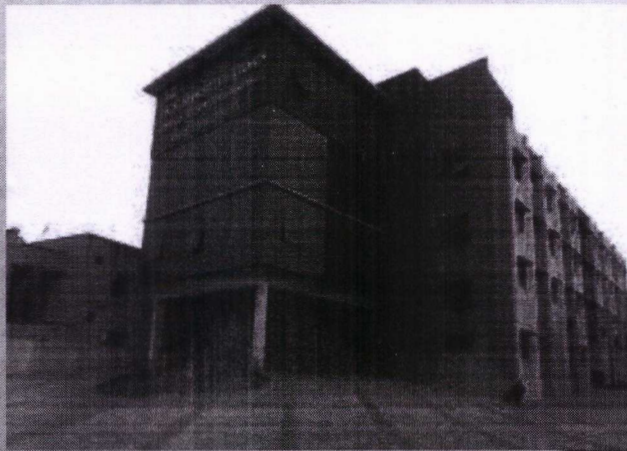
**Komarapalayam, Nammakal Dt-638183**

**DEPARTMENT OF PHARMACEUTICS**

**Seminar Topic**

**NOVEL TECHNOLOGIES ADOPTED IN  
PHARMACEUTICAL PLANTS**

**held on 18.12.2020**



**Venue: SEMINAR**



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

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**DEPARTMENT OF PHARMACEUTICS**

**STUDENT FEEDBACK FORM**

NAME OF STUDENT:

COURSE :

SEMINAR TOPIC :

REGISTRATION NO. :

YEAR & SEMESTER:

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%



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

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

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?**

- Excellent
- Good
- Fair



**Dr. N. SENTHILKUMAR,**  
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- Poor
- Not at all clear

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

- 1
- 2
- 3
- 4
- 5

Student Name With Signature



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

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## STUDENTS FEEDBACK ANALYSIS

DATE: 18.12.2020

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

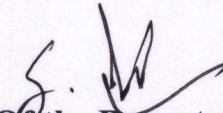


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**NAMAKKAL DISTRICT, TAMILNADU.**

		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	
		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**

  
**Head Of the Department**

  
**Principal**

**Dr. N. SENTHILKUMAR,  
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## REPORT SUMMARY

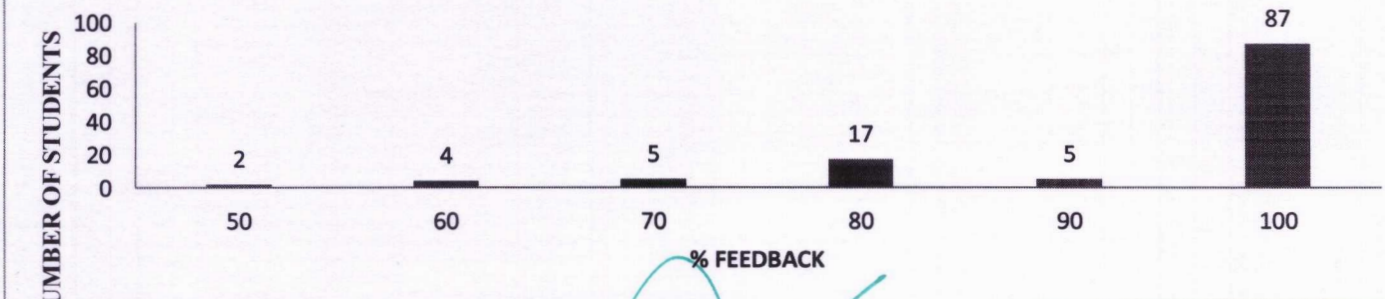
DATE: 18.12.2020

Duration of the Course	3 HOURS
Total participants Enrolled	120
Successfully Completed	120
Type of Feedback Assessment	Multiple Choice Questions (MCQ's)
Course Outcome	<ol style="list-style-type: none"><li>1. Artificial Intelligence</li><li>2. Big Data &amp; Analytics</li><li>3. Flexible Production</li><li>4. Precision Medicine</li></ol>

### 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



**Dr. N. Senthilkumar,**  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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## DEPARTMENT OF PHARMACEUTICS

ONE DAY SEMINAR ON **NOVEL TECHNOLOGIES ADOPTED IN PHARMACEUTICAL PLANTS**

### ABOUT THE SEMINAR

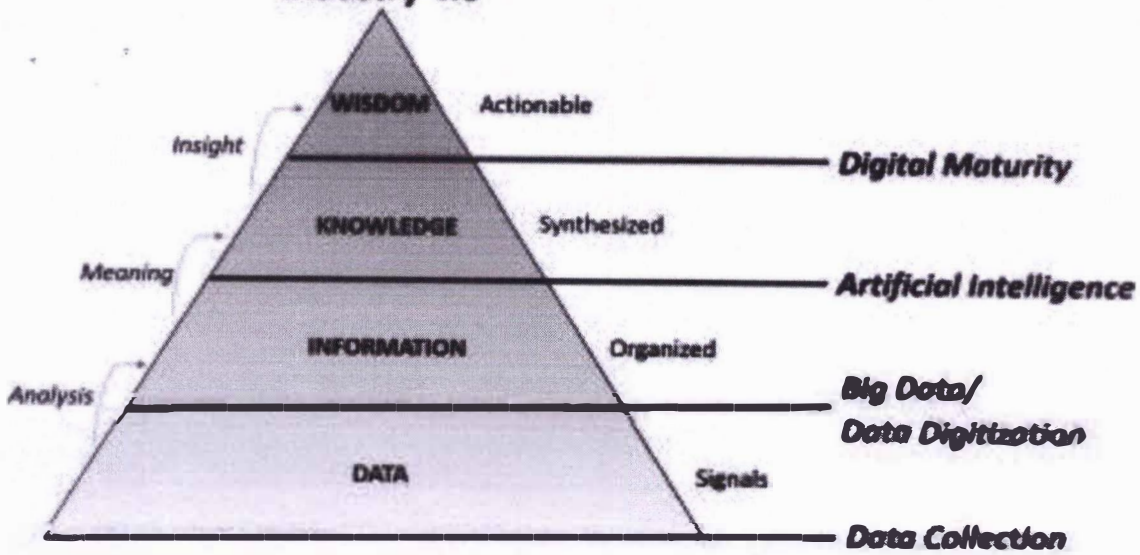
Over the last two centuries, medicines have evolved from crude herbal and botanical preparations into more complex manufacturing of sophisticated drug products and dosage forms. Along with the evolution of medicines, the manufacturing practices for their production have advanced from small-scale manual processing with simple tools to large-scale production as part of a trillion-dollar pharmaceutical industry. Today's pharmaceutical manufacturing technologies continue to evolve as the internet of things, artificial intelligence, robotics, and advanced computing begin to challenge the traditional approaches, practices, and business models for the manufacture of pharmaceuticals. The application of these technologies has the potential to dramatically increase the agility, efficiency, flexibility, and quality of the industrial production of medicines. How these technologies are deployed on the journey from data collection to the hallmark digital maturity of Industry 4.0 will define the next generation of pharmaceutical manufacturing. Achieving the benefits of this future requires a vision for it and an understanding of the extant regulatory, technical, and logistical barriers to realizing it.



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

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

# Industry 4.0



**Dr. N. SENTHILKUMAR,**  
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## LIST OF PARTICIPANTS

381410429	VIMMYANNATHOMAS
381410430	VISHNUKUMARVA
381310401	ABHIRAMIJAYACHANDRAN
381310402	ANNMARYJOSEPH
381310403	ANUACHACKO
381310404	ARCHANAM.NAIR
381310405	ASMINASHERIN.H
381310406	ASWINPRAJ
381310407	BITUCHULLIKKATIL.A
381310408	DONC YRAICHALCHACKO
381310410	GOWTHAM.D
381310411	JIMSHAD.M.I
381310412	JITHIN.T.G
381310413	NANISHAZACHARIAH
381310414	NIKHIL.V
381310415	POOJACHANDRAN
381310416	RAHIYANATH.M.R
381310417	RAJA.K.R
381310418	RAMYA.S
381310419	ROHANJ.MATHEW
381310420	SARANYA.P
381310421	SHARONJOY
381310422	SHEMIMOL.S
381310423	SIJOABRAHAM
381310424	SIRAJULMUNEER.M.A



**Dr. N. SENTHILKUMAR,**  
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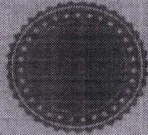
**Certificate  
of Appreciation**

DEPARTMENT OF PHARMACEUTICS

ONE DAY SEMINAR

Mr./Ms ..... has participated in one day seminar about novel technologies adopted in pharmaceutical plants was organized by department of pharmaceutics held on 18 december 2020

CONVENOR



CO-CONVENOR



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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**Certificate  
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**DEPARTMENT OF PHARMACEUTICS  
ONE DAY SEMINAR**

Mr./Ms. RAMYA S has participated in one day seminar about novel technologies adopted in pharmaceutical plants was organized by department of pharmaceuticals held on 18 december 2020

CONVENOR



CO-CONVENOR



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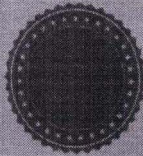
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DEPARTMENT OF PHARMACEUTICS

ONE DAY SEMINAR

Mr./Ms. NIKHIL V has participated in one day  
seminar about novel technologies adopted in pharmaceutical plants  
was organized by department of pharmaceutics held on 18 december  
2020

convenor



co-convenor



Dr. N. SENTHILKUMAR,  
PRINCIPAL,

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