



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

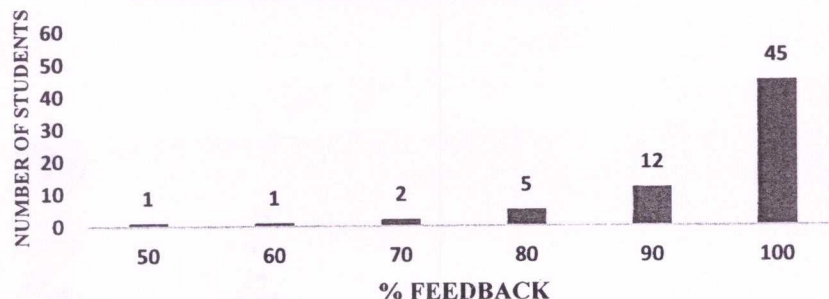
Date:30/10/2019

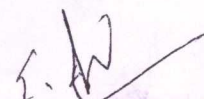
| | |
|-----------------------------|---|
| Academic year | 2019-2020 |
| Addon course title | Automation in pharmaceutical manufacturing |
| Date | 10/10/2019 To 30/10/2019 |
| Duration of the Course | 30 HOURS |
| Total participants Enrolled | 68 |
| Successfully Completed | 66 |
| Type of Assessment | Multiple Choice Questions (MCQ's) |
| Course Outcome | <ul style="list-style-type: none">students could obtain the knowledge on automation in pharmaceutical manufacturingknown updated Process automation and equipment in pharma industry |
| Outcome Attainment | 66 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

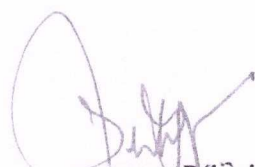



HOD




Dr. N.SENTHILKUMAR,
PRINCIPAL

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


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REPORT

Date:30/10/2019

ADDON COURSE TITLE-AUTOMATION IN PHARMACEUTICAL MANUFACTURING

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: 68

No. of students certified: 66

OBJECTIVE OF THE COURSE

The objective of this ADD-ON COURSE on Program provides the knowledge on automation in pharmaceutical manufacturing in this training program students acquire automation in pharmaceutical manufacturing knowledge to apply in pharmaceutical sciences and updated pharma production.

LEARNING OUTCOMES FROM THE COURSE

- Automation technologies help in improving the efficiency of the pharmaceutical development and production
- Advantages of process automation technologies in pharma
- Process automation and equipment's in pharma industry
- Types of automation systems
- The best automation testing tools
- Artificial intelligence and automation



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Dr. N.SENTHILKUMAR,
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Principal

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Approved by : Pharmacy Council of India, AICTE, New Delhi & The Tamilnadu Dr. M.G.R. Medical University, Chennai.

Website : www.jkkm.info | E-mail : senthilkumarjkk@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/2019/010

Date: 07/10/2019

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 seminar in the **SEMINAR HALL** on 10/10/2019 to 30/10/2019. We wish to conduct a seminar regarding the **AUTOMATION IN PHARMACEUTICAL MANUFACTURING**. 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,

Dr. J.K.K. Munirajah
07/10/19

Dr. N. Senthil Kumar

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:08/10/2019

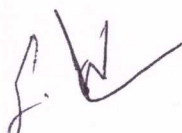
CIRCULAR

This is informed to the B. Pharm-I, II, III, IV 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 PHARMACEUTICAL MANUFACTURING | 10/10/2019 To 30/10/2019 | 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.

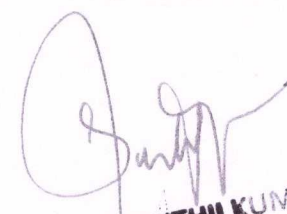
NOTE: Certificates should be issued to all the students after completion of the course and examination.


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Dr. N.SENTHILKUMAR,
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SYLLABUS

| DATE | HOURS | SEMINAR TOPIC | SUBTOPICS | RESOURCE PERSON |
|------------|---------|--|---|-------------------|
| 10/10/2019 | 6 HOURS | AUTOMATION IN PHARMACEUTICAL MANUFACTURING | Automation technologies help in improving the efficiency of the pharmaceutical development and production | Dr.S.Chandra |
| | | | | Mr.R.Suresh |
| | | | Advantages of process automation technologies in pharma | Dr.N.Senthilkumar |
| | | | | Dr.D.Krishnarajan |
| 16/10/2019 | 6 HOURS | AUTOMATION IN PHARMACEUTICAL MANUFACTURING | Process Automation and Equipment | Dr.S.Chandra |
| | | | | Mr.R.Suresh |
| | | | Improved accuracy, reliability, productivity through Automation Process | Dr.S.Chandra |
| | | | | Mr.R.Suresh |
| 17/10/2019 | 6 HOURS | AUTOMATION IN PHARMACEUTICAL MANUFACTURING | Common Data Automation Techniques in Pharmaceutical manufacturing | Dr.S.Chandra |
| | | | | Mr.R.Suresh |
| | | | Types of automation systems | Dr.D.Krishnarajan |
| | | | | Dr.N.Senthilkumar |

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NAMAKKAL DISTRICT. TA

Dr. N.SENTHILKUMAR
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| | | | | |
|------------|---------|--|--|-------------------|
| 29/10/2019 | 6 HOURS | | The best automation testing tools | Dr.S.Chandra |
| | | | | Mr.R.Suresh |
| | | | Artificial intelligence and automation | Dr.D.Krishnarajan |
| | | | | Dr.N.Senthilkumar |
| 30/10/2019 | 6 HOURS | | Significance in enabling automation across pharma industries | Dr.S.Chandra |
| | | | | Mr.R.Suresh |
| | | | The pros and cons of automation in pharma manufacturing | Dr.D.Krishnarajan |
| | | | | Dr.N.Senthilkumar |

TOTAL HOURS=30

HOD



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

Department of Pharmaceutics

COURSE TITLE

AUTOMATION IN PHARMACEUTICAL MANUFACTURING



TOPICS

Automation technologies help in improving the efficiency of the pharmaceutical development and production

Advantages of process automation technologies in pharma

Process Automation and Equipment

Improved accuracy, reliability, productivity through Automation Process

Common Data Automation Techniques in Pharmaceutical manufacturing

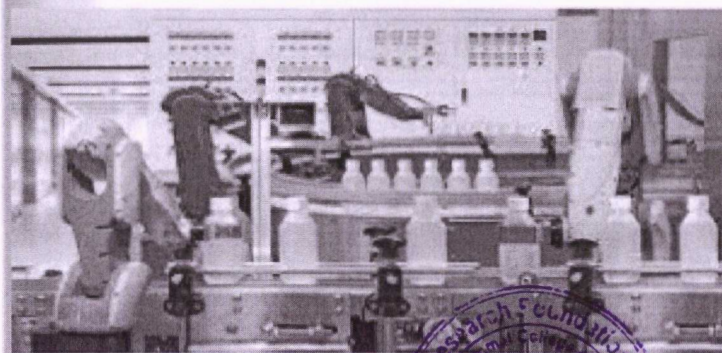
Types of automation systems

The best automation testing tools

Artificial intelligence and automation

Significance in enabling automation across pharma industries

The pros and cons of automation in pharma manufacturing



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.



**VENUE: SEMINAR HALL
DATE:10/10/2019 To 30/10/2019
TIME:09.30 AM TO 4.30 PM**

Dr. N. Senthilkumar
PRINCIPAL
JKK MURUGAI MEDICAL RESEARCH FOUNDATION
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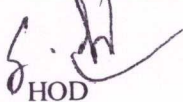
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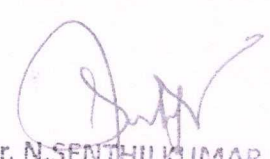
AUTOMATION IN PHARMACEUTICAL MANUFACTURING LIST OF STUDENTS ENROLLED FOR THE COURSE

| S.NO | REG.NO | NAME OF THE STUDENT | COURSE |
|------|-----------|---------------------|---------|
| 1 | 561958016 | DEEPA S | B.PHARM |
| 2 | 561958017 | DEEPIKA A | B.PHARM |
| 3 | 561958018 | DEEPIKA C | B.PHARM |
| 4 | 561958019 | DHANABABU J | B.PHARM |
| 5 | 561958020 | DHINESH RAM R | B.PHARM |
| 6 | 561958021 | DINESH J | B.PHARM |
| 7 | 561958022 | DINESH M | B.PHARM |
| 8 | 561958023 | GOKULKANNAN S K | B.PHARM |
| 9 | 561958024 | GOWRISHANKAR G | B.PHARM |
| 10 | 561958025 | GOWTHAM D | B.PHARM |
| 11 | 561958026 | GOWTHAMAN R | B.PHARM |
| 12 | 561958027 | GUGAN ESWAR N | B.PHARM |
| 13 | 561958028 | GUNAL R | B.PHARM |
| 14 | 561958029 | GUNASEKAR K | B.PHARM |
| 15 | 561958030 | HARI MAGESH P B | B.PHARM |
| 16 | 561958031 | HARIKRISHNAN M | B.PHARM |
| 17 | 561958032 | JEEVANANTHAM S | B.PHARM |
| 18 | 561958033 | JEGANPATHY S | B.PHARM |
| 19 | 561958034 | KALAIVASAN M N | B.PHARM |
| 20 | 561958035 | KARTHI L | B.PHARM |
| 21 | 561958036 | KARTHI V | B.PHARM |
| 22 | 561858013 | DHINESH KARTHIK P | B.PHARM |
| 23 | 561858014 | DINESH B | B.PHARM |
| 24 | 561858015 | DINESHMOORTHY M | B.PHARM |
| 25 | 561858016 | ELAVARASAN P | B.PHARM |
| 26 | 561858017 | GAUTHAM G | B.PHARM |
| 27 | 561858018 | GOKULPRIYA M | B.PHARM |
| 28 | 561858019 | HARISH A | B.PHARM |
| 29 | 561858020 | INBAKUMAR K | B.PHARM |
| 30 | 561858021 | ISHWARYA G | B.PHARM |
| 31 | 561858022 | JAYAPRAKASH D | B.PHARM |
| 32 | 561858023 | JEEVA S | B.PHARM |
| 33 | 561858024 | JISHAN M.K | B.PHARM |
| 34 | 561858025 | JOHN PAUL E | B.PHARM |
| 35 | 561858026 | KALAISELVAN P | B.PHARM |
| 36 | 561858027 | KALIRAJ S A | B.PHARM |
| 37 | 561858028 | KARAN M | B.PHARM |

DATE:30.10.2019


HOD


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PRINCIPAL


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PRINCIPAL

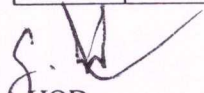
Principal

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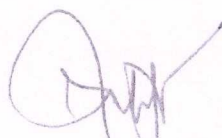
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| | | | |
|----|-----------|-------------------|---------|
| 38 | 561758087 | SUPRIYA M | B.PHARM |
| 39 | 561758088 | SURESH T | B.PHARM |
| 40 | 561758090 | SURYA T | B.PHARM |
| 41 | 561758091 | SURYAMATHI P | B.PHARM |
| 42 | 561758092 | TAMILVANAN R | B.PHARM |
| 43 | 561758093 | UDHAYABALAJI R | B.PHARM |
| 44 | 561758094 | UDHYAKUMAR M | B.PHARM |
| 45 | 561758096 | VATHENDIRAN S | B.PHARM |
| 46 | 561758097 | VIMALRAJ T | B.PHARM |
| 47 | 561758098 | VINOTH P | B.PHARM |
| 48 | 561758099 | YUVA PRASANTH P | B.PHARM |
| 49 | 561758100 | YUVARAJ S | B.PHARM |
| 50 | 561858091 | AVINASH S | B.PHARM |
| 51 | 561858092 | RAMKUMAR P | B.PHARM |
| 52 | 561658001 | AJITH M | B.PHARM |
| 53 | 561658002 | AKSHAYA B M | B.PHARM |
| 54 | 561658003 | AMRITHA J | B.PHARM |
| 55 | 561658004 | ANITHA M | B.PHARM |
| 56 | 561658006 | ARUNKUMAR D | B.PHARM |
| 57 | 561658007 | AYYAPPAN S | B.PHARM |
| 58 | 561658008 | BARATH KANNAN K | B.PHARM |
| 59 | 561658009 | BHARATHIRAGAVAN V | B.PHARM |
| 60 | 561658010 | BHARATHIRAJA A | B.PHARM |
| 61 | 561658011 | BRINDHA R | B.PHARM |
| 62 | 561658012 | CHANDRU S | B.PHARM |
| 63 | 561658013 | DEVANANDH D | B.PHARM |
| 64 | 561658014 | DEVANATHAN G | B.PHARM |
| 65 | 561658015 | DHINESHKUMAR M | B.PHARM |
| 66 | 561658016 | DHIVAGAR R | B.PHARM |
| 67 | 561658017 | DHIVYA K | B.PHARM |
| 68 | 561658018 | DIVYA S | B.PHARM |


HOD


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PRINCIPAL


Principal
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STUDENTS ATTENDANCE

| S.NO | REG.NO | NAME OF THE STUDENT | COURSE | 10/10 | 16/10 | 17/10 | 29/10 | 30/10 |
|------|-----------|---------------------|---------|-------|-------|-------|-------|-------|
| 1 | 561958016 | DEEPA S | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | 561958017 | DEEPIKA A | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | 561958018 | DEEPIKA C | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | 561958019 | DHANABABU J | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | 561958020 | DHINESH RAM R | B.PHARM | ✓ | ✓ | ✓ | A | ✓ |
| 6 | 561958021 | DINESH J | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 | 561958022 | DINESH M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | 561958023 | GOKULKANNAN S K | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9 | 561958024 | GOWRISHANKAR G | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10 | 561958025 | GOWTHAM D | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | 561958026 | GOWTHAMAN R | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12 | 561958027 | GUGAN ESWAR N | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13 | 561958028 | GUNAL R | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14 | 561958029 | GUNASEKAR K | B.PHARM | A | ✓ | ✓ | ✓ | ✓ |
| 15 | 561958030 | HARI MAGESH P B | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16 | 561958031 | HARIKRISHNAN M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17 | 561958032 | JEEVANANTHAM S | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18 | 561958033 | JEGANPATHY S | B.PHARM | ✓ | A | ✓ | ✓ | ✓ |
| 19 | 561958034 | KALAIVASAN M N | B.PHARM | ✓ | ✓ | ✓ | ✓ | A |
| 20 | 561958035 | KARTHI L | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 21 | 561958036 | KARTHI V | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22 | 561858013 | DHINESH KARTHIK P | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 23 | 561858014 | DINESH B | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24 | 561858015 | DINESHMOORTHY M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 25 | 561858016 | ELAVARASAN P | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26 | 561858017 | GAUTHAM G | B.PHARM | ✓ | ✓ | A | ✓ | ✓ |

HOD



Dr. N.SENTHILKUMAR,
PRINCIPAL

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

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

| | | | | | | | | |
|----|-----------|-----------------|---------|---|---|---|---|---|
| 27 | 561858018 | GOKULPRIYA M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | 561858019 | HARISH A | B.PHARM | A | ✓ | ✓ | ✓ | ✓ |
| 29 | 561858020 | INBAKUMAR K | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | 561858021 | ISHWARYA G | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | 561858022 | JAYAPRAKASH D | B.PHARM | ✓ | A | ✓ | ✓ | ✓ |
| 32 | 561858023 | JEEVA S | B.PHARM | ✓ | ✓ | ✓ | A | ✓ |
| 33 | 561858024 | JISHAN M.K | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 34 | 561858025 | JOHN PAUL E | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35 | 561858026 | KALAISELVAN P | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 36 | 561858027 | KALIRAJ S A | B.PHARM | A | ✓ | ✓ | ✓ | ✓ |
| 37 | 561858028 | KARAN M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 38 | 561758087 | SUPRIYA M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 39 | 561758088 | SURESH T | B.PHARM | ✓ | ✓ | A | ✓ | ✓ |
| 40 | 561758090 | SURYA T | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 41 | 561758091 | SURYAMATHI P | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 42 | 561758092 | TAMILVANAN R | B.PHARM | A | ✓ | ✓ | ✓ | ✓ |
| 43 | 561758093 | UDHAYABALAJI R | B.PHARM | ✓ | ✓ | ✓ | A | ✓ |
| 44 | 561758094 | UDHYAKUMAR M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 45 | 561758096 | VATHENDIRAN S | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 46 | 561758097 | VIMALRAJ T | B.PHARM | ✓ | ✓ | A | ✓ | ✓ |
| 47 | 561758098 | VINOTH P | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 48 | 561758099 | YUVA PRASANTH P | B.PHARM | A | ✓ | ✓ | ✓ | ✓ |

HOD



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

| | | | | | | | | |
|----|-----------|-------------------|---------|---|---|---|---|---|
| 49 | 561758100 | YUVARAJ S | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50 | 561858091 | AVINASH S | B.PHARM | A | ✓ | ✓ | ✓ | ✓ |
| 51 | 561858092 | RAMKUMAR P | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 52 | 561658001 | AJITH M | B.PHARM | ✓ | ✓ | A | ✓ | ✓ |
| 53 | 561658002 | AKSHAYA B M | B.PHARM | ✓ | A | ✓ | ✓ | ✓ |
| 54 | 561658003 | AMRITHA J | B.PHARM | ✓ | ✓ | ✓ | ✓ | A |
| 55 | 561658004 | ANITHA M | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 56 | 561658006 | ARUNKUMAR D | B.PHARM | ✓ | A | ✓ | ✓ | ✓ |
| 57 | 561658007 | AYYAPPAN S | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 58 | 561658008 | BARATH KANNAN K | B.PHARM | ✓ | ✓ | ✓ | A | ✓ |
| 59 | 561658009 | BHARATHIRAGAVAN V | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 60 | 561658010 | BHARATHIRAJA A | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 61 | 561658011 | BRINDHA R | B.PHARM | ✓ | ✓ | ✓ | A | ✓ |
| 62 | 561658012 | CHANDRU S | B.PHARM | ✓ | A | ✓ | ✓ | ✓ |
| 63 | 561658013 | DEVANANDH D | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 64 | 561658014 | DEVANATHAN G | B.PHARM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 65 | 561658015 | DHINESHKUMAR M | B.PHARM | A | ✓ | ✓ | ✓ | A |
| 66 | 561658016 | DHIVAGAR R | B.PHARM | ✓ | ✓ | ✓ | A | ✓ |

HOD



No. of Student Cancelled - 02
 No. of Student Present - 66
 Absent - 02
 DR. N.SENTHILKUMAR, PRINCIPAL

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

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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

ADD-ON COURSE-ANSWER SHEET

| | | |
|---------------------|--|--------------------|
| ADD-ON COURSE TITLE | AUTOMATION IN PHARMACEUTICAL MANUFACTURING 30/10/2019 | |
| NAME OF THE STUDENT | AITH.M | |
| REGISTER NO | 561658001 | |
| COURSE/YEAR/SEM | IV B.pharmy | MARKS OBTAINED: 48 |
| SIGNATURE | STUDENT: AITH.M. | STAFF: Nagaraj |

Duration: 01:00 Hour

Maximum Marks:50

1. is a manufacturing philosophy in which different parts are manufactured in a small batch or group based on similarities 2

- A. Production technology
- B. Group technology
- C. Flexible manufacturing system
- D. None of the above

2. Which layout is mostly used for batch type of production? 2

- A. Product layout
- B. Process layout
- C. In line layout
- D. None of the above

3. In which layout manufacturing is done according to machine arrangement 2

- A. GT layout
- B. Product layout
- C. Process layout
- D. Hybrid layout

4. In which layout manufacturing is done according to product's characteristics? 2




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- A. Process layout
- B. GT layout
- C. Product layout
- D. Both A & B

5. From the following which is type of coding system? 2

- A. OPITZ coding system
- B. KK3 system
- C. The MICLASS system
- D. All of the above

6. From the following in which coding method supplementary code and form code are used? 2

- A. KK3 system
- B. The MICLASS system
- C. OPITZ coding system
- D. The DICLASS system

7. ____ is a collection of parts which have similar characteristics 2

- A. Part family
- B. Mono family
- C. GT family
- D. Poly family

8. From the following which is the step of machine cell design? 2

- A. Divide parts into part families
- B. Select type of machine cell
- C. Prepare a composite part
- D. All of the above

9. Cellular manufacturing is not a application of thought of group technology 2

- A. True
- B. False

10. Form which of the following is the objective of cellular manufacturing. 2

- A. Reduced manufacturing lead time
- B. Increased in quality
- C. Reduced setup time
- D. All of the above

11. ____ is a highly automated group of GT machine cell. 2

- A. Flexible manufacturing system
- B. Group technology
- C. Automated system
- D. None of the above

12. From the following which is the main components of Flexible manufacturing system (FMS). 2



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- A. Main frame computer
- B. Automated guided vehicle
- C. Material handling system
- D. All of the above

13. From the following what is the full form of AGV? 2

- A. Automatic Guided Vehicle
- B. Automated Gas Vehicle
- C. Automated Guided Vehicle
- D. None of the above

14. From the following which is the types of Automated Guided Vehicle (AGV). 2

- A. Driver less train
- B. Pallet trucks
- C. Unit load carriers
- D. All of the above

15. From the following which method is used to guide the AGV. 2

- A. Wire guided
- B. Paint strip
- C. Self guided vehicle
- D. All of the above

16. From the following which is not the application of AGV. 2

- A. Truck loading and unloading
- B. To change the tool
- C. Material transfer
- D. Paper roll transfer

17. From the following which is the benefits of AGV. 2

- A. Reduction in man-hours
- B. Useful in hazardous area
- C. Both A & B
- D. None of the above

18. A combination of equipment and controls which handles, stores and retrieves materials with precision, accuracy and speed under a defined degree of automation is known as _____ 2

- A. Automated storage and retrieval system (AS/RS)
- B. Flexible manufacturing system
- C. Automated guided vehicle
- D. None of the above

19. From the following which is the benefits of AS/RS 2

- A. Less product damage
- B. Good and easy housekeeping in FMS
- C. Reduce labour cost
- D. All of the above

20. From the following which is the type of FMS layout 2



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- A. In line layout
- B. Ladder layout
- C. Both A & B
- D. None of the above

21. A drum timer is good example of: 2
a) An output actuator b) An input sensor c) A position sensor d) A sequence controller

22. Example of a unsupervised feature map? 2
a) text recognition b) voice recognition c) image recognition d) none of the mentioned

23 What is stability plasticity dilemma ? 2
a) system can neither be stable nor plastic b) static inputs & categorization can't be handled
c) dynamic inputs & categorization can't be handled d) none of the mentioned

24. 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

25. Artificial Neural Network is based on which approach? 2
a) Weak Artificial Intelligence approach b) Cognitive Artificial Intelligence approach
c) Strong Artificial Intelligence approach d) Applied Artificial Intelligence approach

****ALLTHE BEST****



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NAMAKKAL DISTRICT, TAMILNADU.



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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

ADD-ON COURSE-ANSWER SHEET

NAME OF THE STUDENT

AUTOMATION IN PHARMACEUTICAL MANUFACTURING

REGISTER NO

30/10/2019

Duration: 01:00 Hour

Maximum Marks:50

1. is a manufacturing philosophy in which different parts are manufactured in a small batch or group based on similarities 2

- A. Production technology
- B. Group technology
- C. Flexible manufacturing system
- D. None of the above

ANSWER:B

2. Which layout is mostly used for batch type of production? 2

- A. Product layout
- B. Process layout
- C. In line layout
- D. None of the above

ANSWER:B

3. In which layout manufacturing is done according to machine arrangement 2

- A. GT layout
- B. Product layout
- C. Process layout
- D. Hybrid layout

ANSWER:C

4. In which layout manufacturing is done according to product's characteristics? 2

- A. Process layout
- B. GT layout
- C. Product layout
- D. Both A & B

ANSWER:D




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NAMAKKAL DISTRICT. TAMILNADU. INDIA.**

5. From the following which is type of coding system? 2

- A. OPITZ coding system
- B. KK3 system
- C. The MICLASS system
- D. All of the above

ANSWER:D

6. From the following in which coding method supplementary code and form code are used? 2

- A. KK3 system
- B. The MICLASS system
- C. OPITZ coding system
- D. The DICLASS system

ANSWER:C

7. ____ is a collection of parts which have similar characteristics 2

- A. Part family
- B. Mono family
- C. GT family
- D. Poly family

ANSWER:A

8. From the following which is the step of machine cell design? 2

- A. Divide parts into part families
- B. Select type of machine cell
- C. Prepare a composite part
- D. All of the above

ANSWER:B

9. Cellular manufacturing is not a application of thought of group technology 2

- A. True
- B. False

ANSWER:A

10. Form which of the following is the objective of cellular manufacturing. 2

- A. Reduced manufacturing lead time
- B. Increased in quality
- C. Reduced setup time
- D. All of the above

ANSWER:B

11. ____ is a highly automated group of GT machine cell. 2

- A. Flexible manufacturing system
- B. Group technology
- C. Automated system
- D. None of the above

ANSWER:A



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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

12. From the following which is the main components of Flexible manufacturing system(FMS).2

- A. Main frame computer
- B. Automated guided vehicle
- C. Material handling system
- D. All of the above

ANSWER:B

13. From the following what is the full form of AGV? 2

- A. Automatic Guided Vehicle
- B. Automated Gas Vehicle
- C. Automated Guided Vehicle
- D. None of the above

ANSWER:C

14. From the following which is the types of Automated Guided Vehicle (AGV). 2

- A. Driver less train
- B. Pallet trucks
- C. Unit load carriers
- D. All of the above

ANSWER:B

15. From the following which method is used to guide the AGV.

2

- A. Wire guided
- B. Paint strip
- C. Self guided vehicle
- D. All of the above

ANSWER:D

16. From the following which is not the application of AGV.

2

- A. Truck loading and unloading
- B. To change the tool
- C. Material transfer
- D. Paper roll transfer

ANSWER:B

17. From the following which is the benefits of AGV.

2

- A. Reduction in man-hours
- B. Useful in hazardous area
- C. Both A & B
- D. None of the above

ANSWER:C

18. A combination of equipment and controls which handles, stores and retrieves materials with precision,accuracy and speed under a defined degree of automation is known as ____

2

- A. Automated storage and retrieval system (AS/RS)
- B. Flexible manufacturing system
- C. Automated guided vehicle
- D. None of the above

ANSWER:A




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19. From the following which is the benefits of AS/RS

2

- A. Less product damage
- B. Good and easy housekeeping in FMS
- C. Reduce labourcost
- D. All of the above

ANSWER:D

20. From the following which is the type of FMS layout

2

- A. In line layout
- B. Ladder layout
- C. Both A &B
- D. None of the above

ANSWER:C

21. A drum timer is good example of:

2

- a) An output actuator b) An input sensor c) A position sensor d) A sequence controller

ANSWER:B

22. Example of a unsupervised feature map?

2

- a) text recognitionb) voice recognitionc) image recognitiond) none of the mentioned

ANSWER:B

23 What is stability plasticity dilemma ?

2

- a) system can neither be stable nor plastic b) static inputs & categorization can't be handled
- c) dynamic inputs & categorization can't be handled d) none of the mentioned

ANSWER:C

24. 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

ANSWER:B

25. Artificial Neural Network is based on which approach?

2

- a) Weak Artificial Intelligence approachb) Cognitive Artificial Intelligence approach
- c) Strong Artificial Intelligence approachd) Applied Artificial Intelligence approach

ANSWER:C




Principal

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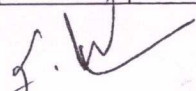
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MARK STATEMENT

Date:30/10/2019

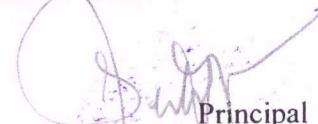
| S.NO | REG.NO | NAME OF THE STUDENT | COURSE | MARKS SCORED | %MARKS |
|------|-----------|---------------------|-----------------|--------------|--------|
| 1 | 561958016 | DEEPA S | B.PHARM-I-SEM | 42 | 84 |
| 2 | 561958017 | DEEPIKA A | B.PHARM-I-SEM | 36 | 72 |
| 3 | 561958018 | DEEPIKA C | B.PHARM-I-SEM | 46 | 92 |
| 4 | 561958019 | DHANABABU J | B.PHARM-I-SEM | 44 | 88 |
| 5 | 561958020 | DHINESH RAM R | B.PHARM-I-SEM | 38 | 76 |
| 6 | 561958021 | DINESH J | B.PHARM-I-SEM | 42 | 84 |
| 7 | 561958022 | DINESH M | B.PHARM-I-SEM | 38 | 76 |
| 8 | 561958023 | GOKULKANNAN S K | B.PHARM-I-SEM | 48 | 96 |
| 9 | 561958024 | GOWRISHANKAR G | B.PHARM-I-SEM | 36 | 72 |
| 10 | 561958025 | GOWTHAM D | B.PHARM-I-SEM | 48 | 96 |
| 11 | 561958026 | GOWTHAMAN R | B.PHARM-I-SEM | 46 | 92 |
| 12 | 561958027 | GUGAN ESWAR N | B.PHARM-I-SEM | 42 | 84 |
| 13 | 561958028 | GUNAL R | B.PHARM-I-SEM | 32 | 64 |
| 14 | 561958029 | GUNASEKAR K | B.PHARM-I-SEM | 46 | 92 |
| 15 | 561958030 | HARI MAGESH P B | B.PHARM-I-SEM | 38 | 76 |
| 16 | 561958031 | HARIKRISHNAN M | B.PHARM-I-SEM | 46 | 92 |
| 17 | 561958032 | JEEVANANTHAM S | B.PHARM-I-SEM | 32 | 64 |
| 18 | 561958033 | JEGANPATHY S | B.PHARM-I-SEM | 42 | 84 |
| 19 | 561958034 | KALAIIVASAN M N | B.PHARM-I-SEM | 36 | 72 |
| 20 | 561958035 | KARTHI L | B.PHARM-I-SEM | 44 | 88 |
| 21 | 561958036 | KARTHI V | B.PHARM-I-SEM | 38 | 76 |
| 22 | 561858013 | DHINESH KARTHIK P | B.PHARM-III-SEM | 48 | 96 |
| 23 | 561858014 | DINESH B | B.PHARM-III-SEM | 43 | 86 |
| 24 | 561858015 | DINESHMOORTHY M | B.PHARM-III-SEM | 36 | 72 |
| 25 | 561858016 | ELAVARASAN P | B.PHARM-III-SEM | 48 | 96 |
| 26 | 561858017 | GAUTHAM G | B.PHARM-III-SEM | 32 | 64 |
| 27 | 561858018 | GOKULPRIYA M | B.PHARM-III-SEM | 38 | 76 |
| 28 | 561858019 | HARISH A | B.PHARM-III-SEM | 48 | 96 |
| 29 | 561858020 | INBAKUMAR K | B.PHARM-III-SEM | 38 | 76 |
| 30 | 561858021 | ISHWARYA G | B.PHARM-III-SEM | 42 | 84 |
| 31 | 561858022 | JAYAPRAKASH D | B.PHARM-III-SEM | 44 | 88 |
| 32 | 561858023 | JEEVA S | B.PHARM-III-SEM | 42 | 84 |
| 33 | 561858024 | JISHAN M. K | B.PHARM-III-SEM | 38 | 76 |
| 34 | 561858025 | JOHN PAUL E | B.PHARM-III-SEM | 44 | 88 |
| 35 | 561858026 | KALAISELVAN P | B.PHARM-III-SEM | 34 | 68 |
| 36 | 561858027 | KALIRAJ S A | B.PHARM-III-SEM | 42 | 84 |
| 37 | 561858028 | KARAN M | B.PHARM-III-SEM | 36 | 72 |
| 38 | 561758087 | SUPRIYA M | B.PHARM-SEM-V | 46 | 92 |
| 39 | 561758088 | SURESH T | B.PHARM-SEM-V | 36 | 72 |
| 40 | 561758090 | SURYA T | B.PHARM-SEM-V | 42 | 84 |


HOD




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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

| | | | | | |
|----|-----------|-------------------|-----------------|----|----|
| 41 | 561758091 | SURYAMATHI P | B.PHARM-SEM-V | 38 | 76 |
| 42 | 561758092 | TAMILVANAN R | B.PHARM-SEM-V | 46 | 92 |
| 43 | 561758093 | UDHAYABALAJI R | B.PHARM-SEM-V | 46 | 92 |
| 44 | 561758094 | UDHYAKUMAR M | B.PHARM-SEM-V | 32 | 64 |
| 45 | 561758096 | VATHENDIRAN S | B.PHARM-SEM-V | 48 | 96 |
| 46 | 561758097 | VIMALRAJ T | B.PHARM-SEM-V | 38 | 76 |
| 47 | 561758098 | VINOTH P | B.PHARM-SEM-V | 36 | 72 |
| 48 | 561758099 | YUVA PRASANTH P | B.PHARM-SEM-V | 46 | 92 |
| 49 | 561758100 | YUVARAJ S | B.PHARM-SEM-V | 38 | 76 |
| 50 | 561858091 | AVINASH S | B.PHARM-SEM-V | 46 | 92 |
| 51 | 561858092 | RAMKUMAR P | B.PHARM-SEM-V | 38 | 76 |
| 52 | 561658001 | AJITH M | B.PHARM-IV-YEAR | 48 | 96 |
| 53 | 561658002 | AKSHAYA B M | B.PHARM-IV-YEAR | 32 | 64 |
| 54 | 561658003 | AMRITHA J | B.PHARM-IV-YEAR | 42 | 84 |
| 55 | 561658004 | ANITHA M | B.PHARM-IV-YEAR | 36 | 72 |
| 56 | 561658006 | ARUNKUMAR D | B.PHARM-IV-YEAR | 44 | 88 |
| 57 | 561658007 | AYYAPPAN S | B.PHARM-IV-YEAR | 38 | 76 |
| 58 | 561658008 | BARATH KANNAN K | B.PHARM-IV-YEAR | 42 | 84 |
| 59 | 561658009 | BHARATHIRAGAVAN V | B.PHARM-IV-YEAR | 48 | 96 |
| 60 | 561658010 | BHARATHIRAJA A | B.PHARM-IV-YEAR | 44 | 88 |
| 61 | 561658011 | BRINDHA R | B.PHARM-IV-YEAR | 40 | 80 |
| 62 | 561658012 | CHANDRU S | B.PHARM-IV-YEAR | 46 | 92 |
| 63 | 561658013 | DEVANANDH D | B.PHARM-IV-YEAR | 38 | 76 |
| 64 | 561658014 | DEVANATHAN G | B.PHARM-IV-YEAR | 46 | 92 |
| 65 | 561658015 | DHINESHKUMAR M | B.PHARM-IV-YEAR | 38 | 76 |
| 66 | 561658016 | DHIVAGAR R | B.PHARM-IV-YEAR | 46 | 92 |

60-70% Marks =6 students
70-80% Marks =22 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.

HOD



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

DEPARTMENT OF PHARMACEUTICS

STUDENT FEEDBACK FORM

NAME OF STUDENT: ILASVARASEN . P

REGISTRATION NO: 561858016

COURSE: B.Pharm

YEAR & SEMESTER: IIIrd sem.

SEMINAR TOPIC: AUTOMATION in PHARMACEUT. MANUFACTURING DATE & TIME: 10.10.19 - 30.10.19

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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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


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Student Name & Signature





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.jkmmrfpharmacy.edu.in |E-Mail : principal@jkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

STUDENTS FEEDBACK ANALYSIS

Date:30/10/2019

| S.NO | QUESTION DESCRIPTION | ANSWERS | MARKS | TOTAL MARKS |
|------|--|------------------------|-------|-------------|
| 1 | Satisfaction | Verysatisfied | 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 | |

HOD



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| | | | | |
|----|---------------------------------|------------------|---|---|
| | | 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

[Signature]

HOD



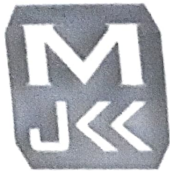
[Signature]
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[Signature]

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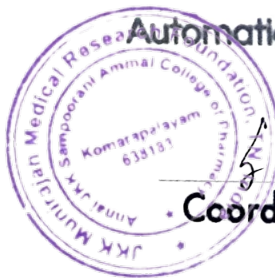
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Department of Pharmaceutics



Certificate of Participant

Has appreciated for his/her participation in VALUE ADDED COURSE on


Automation in Pharmaceutical manufacturing 10/10/2019 to 30/10/2019




Coordinator


H.O.D


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S. CHANDRU

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T. VIMALRAJ

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Coordinator

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H.O.D

[Signature]

Principal



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D. N. SENTHILKUMAR,
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