



**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

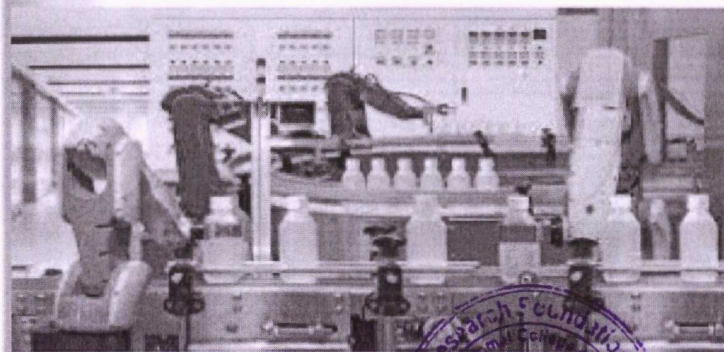
Types of automation systems

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 sampoornani ammal
College of pharmacy, komarapalayam.

Dr.S. CHANDRA., M. PHARM, Ph.D.,
Professor, JKKMMRF'S Annai JKK sampoornani
ammal College of pharmacy, komarapalayam.

Dr. D. KRISHNARAJAN., M. PHARM, Ph.D.,
Professor, JKKMMRF'S Annai JKK sampoornani ammal
College of pharmacy, komarapalayam.

Mr. R. SURESH., M. PHARM,
Professor, JKKMMRF'S Annai JKK sampoornani
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
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.





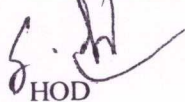
J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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

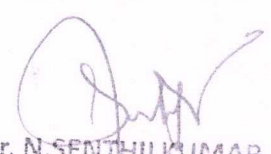
AUTOMATION IN PHARMACEUTICAL MANUFACTURING LIST OF STUDENTS ENROLLED FOR THE COURSE

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
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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


Dr. N.SENTHILKUMAR,
PRINCIPAL

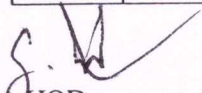

Principal
Dr. N.SENTHILKUMAR,
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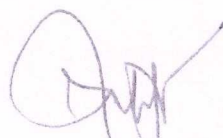
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



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

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



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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	✓	✓
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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 Enrolled - 68
 No. of Student Present - 66
 Absent - 02
 DR. N.SENTHILKUMAR, PRINCIPAL

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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


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


Student Name & Signature





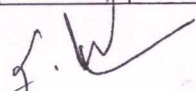
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Contact No. : +919789456750, +919943069944, +919943066944

MARK STATEMENT

Date:30/10/2019

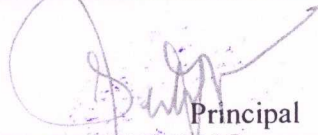
S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	%MARKS
1	561958016	DEEPA S	B.PHARM-I-SEM	42	84
2	561958017	DEEPIKA A	B.PHARM-I-SEM	36	72
3	561958018	DEEPIKA C	B.PHARM-I-SEM	46	92
4	561958019	DHANABABU J	B.PHARM-I-SEM	44	88
5	561958020	DHINESH RAM R	B.PHARM-I-SEM	38	76
6	561958021	DINESH J	B.PHARM-I-SEM	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
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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
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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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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

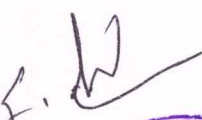
60-70% Marks =6 students
70-80% Marks =22 students
More than 80% Marks =38 students

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:

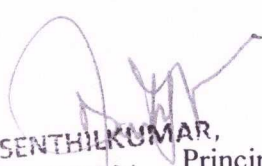
Since, 38 Students scored more than 80% of marks - Attainment level 3 Achieved.


HOD




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