



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

Department  
of Pharmaceutics

**COURSE TITLE**

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

**VENUE : SEMINAR HALL**

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

**TIME: 09.30 AM TO 4.30 PM**

**RESOURCE PERSONS**

**Dr.S. Dr.N.SENTHILKUMAR., M. PHARM, Ph.D.,**  
Professor, JKKMMRF'S Annai JKK sampoorani ammal  
College of pharmacy, komarapalayam.

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

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

**Mr. R. SURESH., M. PHARM,**  
Professor, JKKMMRF'S Annai JKK sampoorani  
ammal College of pharmacy, komarapalayam.

**TOPICS**

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

**Artificial Intelligence technology used in the drug designing procedure**

**Pharma Manufacturing and Commercialization Software**

**Automation in pharmaceutical manufacturing**

**Automation is Changing the Global Pharma Industry**

**Robotic process automation pros and cons in pharmaceutical manufacturing**

**India Pharmaceutical Adopting Automation Technologies**

**Artificial Intelligence technology used in the drug designing procedure**

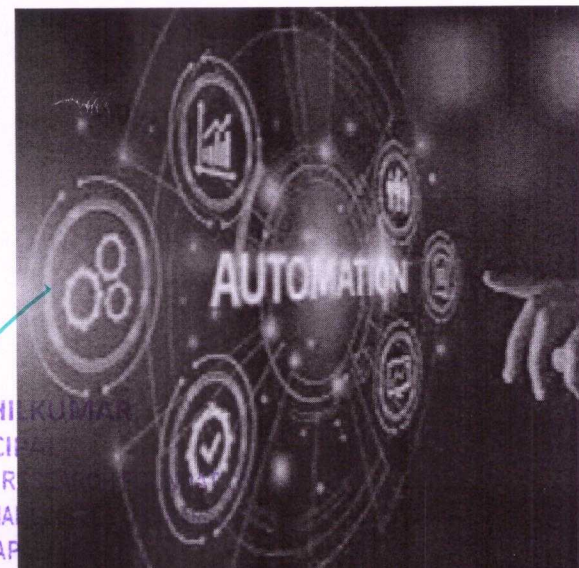
**Pharma Manufacturing and Commercialization Software**

**Automation in pharmaceutical manufacturing**

**Automation is Changing the Global Pharma Industry**

**Robotic process automation pros and cons in pharmaceutical manufacturing**

**India Pharmaceutical Adopting Automation Technologies**



**Dr. N. SENTHILKUMAR**  
**PRINCIPAL**  
**MUNIRAJAH MEDICAL RESEARCH**  
**AND JKK SAMPOORANI AMMAL**  
**COLLEGE OF PHARMACY, KOMARAP**  
**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](http://www.jkkmmrfpharmacy.edu.in) |E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

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

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

HOD



Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

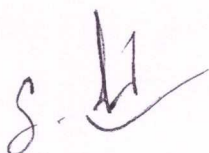
Principal

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



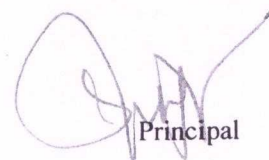
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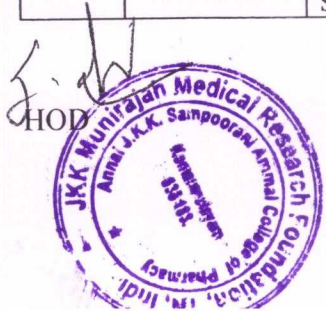


# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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

## STUDENTS ATTENDANCE

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



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



41	561558046	SHAKTHI.R	B.PHARM-III-YEAR	A	✓	✓	✓	✓
42	561458040	SAKTHIVEL.M	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
43	561458041	SANKAR.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
44	561458042	SANTHOSH KUMAR.M	B.PHARM-IV-YEAR	✓	✓	A	✓	✓
45	561458043	SANTHOSHKUMAR.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
46	561458044	SARAVANAN.M	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
47	561458045	SASIKUMAR.V	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
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55	561458053	TAMILSELVAN.P	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
56	561458054	THIRUMALAI.V	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
57	561458055	THULASI RAMAN.S	B.PHARM-IV-YEAR	✓	✓	✓	✓	A
58	561458056	VEERA JOTHI.R	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
59	561458057	VENKATESH.G	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
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61	561458059	VINOTHRANJAN.M	B.PHARM-IV-YEAR	A	✓	✓	✓	✓
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64	561458038	RAJA LAKSHMI.B	B.PHARM-IV-YEAR	✓	✓	✓	✓	✓
65	561458039	REEMA.M.A	B.PHARM-IV-YEAR	A	✓	✓	✓	✓

No. Of students Enrolled = 65

No. Of students Present = 65

No. Of students Absent = Nil

SIGNATURE OF STAFF

*[Handwritten Signature]*

*[Handwritten Signature]*  
HOD



*[Handwritten Signature]*  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

*[Handwritten Signature]*  
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:

REGISTRATION NO:

COURSE:

YEAR & SEMESTER:

SEMINAR TOPIC:

DATE & TIME:

1. Overall, how satisfied were you with this seminar?

Very satisfied  Satisfied  Neutral  Dissatisfied  Very dissatisfied.

2. How clear were the ideas and concepts we presented?

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

3. What percentage of the information was new to you?

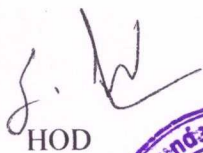
100%  75%  50%  25%  0%

4. How informative did you find our seminar?

Extremely Informative  Very Informative  Moderately Informative  
 Not very informative  Not informative at all

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

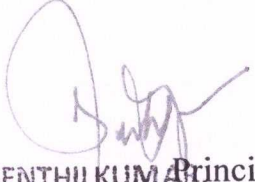
Yes  No

  
HOD



  
Dr. N.SENTHILKUMAR,  
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6. Would you like to learn more about this topic?

Yes  No

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

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

8. How accurate was the session description?

Extremely clear  Very clear  Moderately clear  Not very clear


9. How did the session compare to your expectations?

Excellent  Good  Fair  Poor  Not at all clear

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

1  2  3  4  5

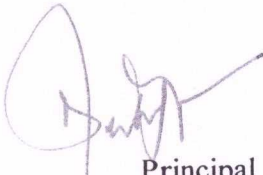
Student Name with Signature

  
HOD



  
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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.

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## MARK STATEMENT

Date: 15/09/2017

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1.	561658001	AJITH M	B.PHARM-II-YEAR	34	68
2.	561658002	AKSHAYA B M	B.PHARM-II-YEAR	46	92
3.	561658003	AMRITHA J	B.PHARM-II-YEAR	44	88
4.	561658004	ANITHA M	B.PHARM-II-YEAR	44	88
5.	561658005	ARCHANA R	B.PHARM-II-YEAR	46	92
6.	561658006	ARUNKUMAR D	B.PHARM-II-YEAR	40	80
7.	561658007	AYYAPPAN S	B.PHARM-II-YEAR	44	88
8.	561658008	BARATH KANNAN K	B.PHARM-II-YEAR	40	80
9.	561658009	BHARATHIRAGAVAN V	B.PHARM-II-YEAR	40	80
10.	561658010	BHARATHIRAJA A	B.PHARM-II-YEAR	46	92
11.	561658011	BRINDHA R	B.PHARM-II-YEAR	46	92
12.	561658012	CHANDRU S	B.PHARM-II-YEAR	42	84
13.	561658013	DEVANANDH D	B.PHARM-II-YEAR	44	88
14.	561658014	DEVANATHAN G	B.PHARM-II-YEAR	42	84
15.	561658015	DHINESHKUMAR M	B.PHARM-II-YEAR	46	92
16.	561658016	DHIVAGAR R	B.PHARM-II-YEAR	44	88
17.	561658017	DHIVYA K	B.PHARM-II-YEAR	44	88
18.	561658018	DIVYA S	B.PHARM-II-YEAR	40	80
19.	561658019	GOWSALYA P	B.PHARM-II-YEAR	46	92
20.	561658020	GOWTHAM S	B.PHARM-II-YEAR	44	88
21.	561558021	LAVANYA.M	B.PHARM-III-YEAR	44	88
22.	561558022	MADESH.C.R	B.PHARM-III-YEAR	46	92
23.	561558023	MAIYARASAN.P	B.PHARM-III-YEAR	44	88
24.	561558024	MOHAMED RAHEES.C	B.PHARM-III-YEAR	46	92
25.	561558026	MOHANA.V	B.PHARM-III-YEAR	48	96
26.	561558027	MOHANRAJ.M	B.PHARM-III-YEAR	38	76
27.	561558028	MUNIRATHINAM.S	B.PHARM-III-YEAR	38	76
28.	561558029	NASIF.KP	B.PHARM-III-YEAR	44	88
29.	561558030	NAVEEN PRABHU.K	B.PHARM-III-YEAR	48	96
30.	561558031	NITHYA.S	B.PHARM-III-YEAR	44	88
31.	561558033	PRAKASH.S	B.PHARM-III-YEAR	38	76
32.	561558034	PRIYADHARANI.S	B.PHARM-III-YEAR	42	84
33.	561558035	PRIYADHARSHINI.B	B.PHARM-III-YEAR	46	92
34.	561558036	RAGUNATH.P.V	B.PHARM-III-YEAR	40	80
35.	561558039	SAJEER MOHAMED.K	B.PHARM-III-YEAR	48	96
36.	561558040	SAKTHI KUMARAN.D	B.PHARM-III-YEAR	38	76
37.	561558041	SANTHOSH.P	B.PHARM-III-YEAR	44	88
38.	561558042	SANTHOSHKUMAR.P	B.PHARM-III-YEAR	48	96
39.	561558044	SATHISH.G	B.PHARM-III-YEAR	40	80
40.	561558045	SENTHAMIZH SELVAN.V	B.PHARM-III-YEAR	46	96
41.	561558046	SHAKTHI.R	B.PHARM-III-YEAR	42	84

HOD



Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

Principal  
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42.	561458040	SAKTHIVEL.M	B.PHARM-IV-YEAR	44	88
43.	561458041	SANKAR.S	B.PHARM-IV-YEAR	38	76
44.	561458042	SANTHOSH KUMAR.M	B.PHARM-IV-YEAR	44	88
45.	561458043	SANTHOSHKUMAR.S	B.PHARM-IV-YEAR	48	96
46.	561458044	SARAVANAN.M	B.PHARM-IV-YEAR	40	80
47.	561458045	SASIKUMAR.V	B.PHARM-IV-YEAR	44	88
48.	561458046	SAYYED SALAHUDHEEN K M P	B.PHARM-IV-YEAR	42	84
49.	561458047	SELVAKUMAR.P	B.PHARM-IV-YEAR	46	92
50.	561458048	SHANMUGAM.N	B.PHARM-IV-YEAR	40	80
51.	561458049	SIRAJ M P	B.PHARM-IV-YEAR	44	88
52.	561458050	SIVARANJITH.S	B.PHARM-IV-YEAR	48	96
53.	561458051	SOMASUNTHARAM.S	B.PHARM-IV-YEAR	42	84
54.	561458052	SYED YASAR ARABATH.G	B.PHARM-IV-YEAR	44	88
55.	561458053	TAMILSELVAN.P	B.PHARM-IV-YEAR	48	96
56.	561458054	THIRUMALAI.V	B.PHARM-IV-YEAR	46	92
57.	561458055	THULASI RAMAN.S	B.PHARM-IV-YEAR	42	84
58.	561458056	VEERA JOTHL.R	B.PHARM-IV-YEAR	40	80
59.	561458057	VENKATESH.G	B.PHARM-IV-YEAR	42	84
60.	561458058	VENKATESH.P	B.PHARM-IV-YEAR	38	76
61.	561458059	VINOTHRANJAN.M	B.PHARM-IV-YEAR	40	80
62.	561458060	ZIYAD A K P	B.PHARM-IV-YEAR	44	88
63.	561458036	RAGAVAPRASATH.C	B.PHARM-IV-YEAR	48	96
64.	561458038	RAJA LAKSHMI.B	B.PHARM-IV-YEAR	44	88
65.	561458039	REEMA.M. A	B. PHARM-IV-YEAR	40	80

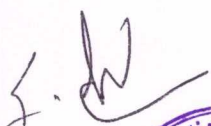
60-70% Marks =1 student  
70-80% Marks =5 students  
More than 80% Marks =59 students

### Outcome Attainment Rubrics:

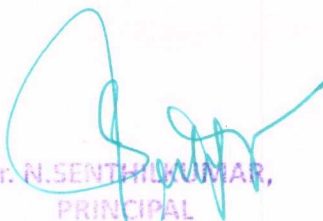
Attainment level 1-If students getting 60-70 % of marks  
Attainment level 2-If students getting 70-80% of marks  
Attainment level 3- If students getting more than 80% of marks

### Attainment level:

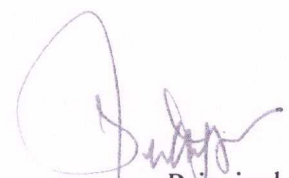
Since, 59 Students scored more than 80% of marks - Attainment level 3 Achieved.

  
HOD



  
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