



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	UNIT OPERATION
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	1.02.2021-25.02.2021
VENUE	SEMINAR HALL

REPORT

Dr.M.CHITRA.,M.PHARM,Ph.D.,

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

DR. A.CHITRA., M.PHARM,Ph.D.,

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

No. of students enrolled:64

No. of students certified: 59

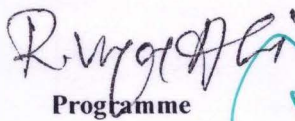
Objective:

The objective of this value added **UNIT OPERATION** program explains the students how to write an good research paper. It helps the students to

Learning outcomes:

- Develops industrial skills on spectroscopic techniques

The students were actively participated in these course and gained knowledge on Instrument handling.


Programme

Co-ordinator


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,
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
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ETHIRMEDU, KOMARAPALAYAM - 638 183.
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REF.NO:JKKM/PHARM.CHEM/REQ/2021/002

Date: 28.01.2021

From

Department of Pharmaceutical Chemistry,

JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.

Komarapalayam, Namakkal [Dist]

Tamil Nadu, PIN:638183.

To

The Principal,

JKKMMRF'S Annai JKK Sampoorani 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 **01.02.2021 to 25.02.2021**. We wish to conduct a seminar regarding the **UNIT OPERATION**. We believe this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **UNIT OPERATION** that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Dr. N.SENTHILKUMAR,
PRINCIPAL

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Yours sincerely,

Program coordinator



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CIRCULAR

This is inform to the M.PHARM (SEM-I&III) Students that the following value added course can be conducted by the Department of Pharmaceutical Chemistry, JKKMMRF'S annai jkk sampoorani ammal college of pharmacy, komarapalayam and it will be commenced as per the schedule:

Course Name	Schedule	Duration	Venue	Resource Person
UNIT OPERATION	01.02.2021 to 25.02.2021	30 HRS	SEMINAR HALL	Dr. M. Chitra & Dr. A.Chitra

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

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

Programme
Co-ordinator
R. Mohan

[Signature]
HOD

[Signature]
Dr. N.SENTHILKUMAR,
PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
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[Signature]
Principal

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DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	1.02.2021-25.02.2021
VENUE	SEMINAR HALL

SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
01.02.2021	5 hrs	UNIT OPERATION	INTRODUCTION	Dr. M.CHITRA
03.02.2021	5 hrs		CHEMICAL ENGINEERING	
10.02.2021	5 hrs		PROCEESS CONTROL, THERMODYNAMICS	
15.02.2021	5 hrs		FLUID MECHANICS, HEAT TRANSFER	DR. A.CHITRA
20.02.2021	5 hrs		TRANSPORT PHENOMENON	
25.02.201	5 hrs		MECHANICAL OPERATION	



Dr. N.SENTHILKUMAR,
PRINCIPAL

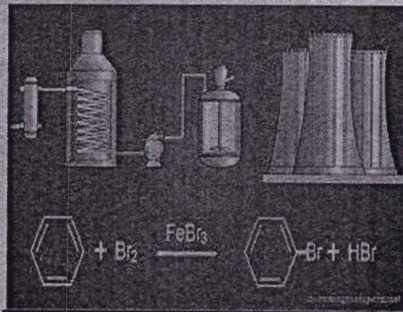
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BROCHURE



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

DEPARTMENT OF PHARMACEUTICAL
CHEMISTRY



TOPIC: UNIT OPERATION

VENUE: SEMINAR HALL

DATE: 01.02.2021 TO 25.02.2021

TIME: 9.00 am to 6.00 pm



COURSE SCHEDULE:

- > INTRODUCTION
- > CHEMICAL ENGINEERING
- > PROCEESS CONTROL, THERMODYNAMICS
- > FLUID MECHANICS, HEAT TRANSFER
- > TRANSPORT PHENOMENON
- > MECHANICAL OPERATION

Resource person:

Dr.M.CHITRA, M.Pharm.,Ph.D.,

Associate Professor,
JKKMMRF'S Annai JKK Sampoornani Ammal
College of Pharmacy,
Komarapalayam.



Dr.A.CHITRA, M.Pharm.,Ph.D.,

Associate Professor,
JKKMMRF'S Annai JKK Sampoornani Ammal
College of Pharmacy,
Komarapalayam.



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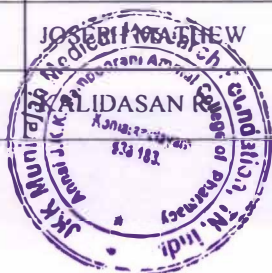
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VENUE	SEMINAR HALL

LIST OF STUDENTS ENROLLED FOR THE COURSE

S.NO	REG.NO	NAME OF THE STUDENTS	COURSE
1	261120507511	RASHEENA M	M.PHARM (PHARMACEUTICS) SEM-I
2	261120507512	SARATHKUMAR S	M.PHARM (PHARMACEUTICS) SEM-I
3	261120507513	SITHARA M V	M.PHARM (PHARMACEUTICS) SEM-I
4	261120507514	SRINIVASAN K	M.PHARM (PHARMACEUTICS) SEM-I
5	261120507515	UMARMUKDAR A	M.PHARM (PHARMACEUTICS) SEM-I
6	261220507501	ARATHY P NAIR	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
7	261220507502	EZHILARASAN S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
8	261220507503	GOKUL T	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
9	261320507508	SATHISH KUMAR G	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
10	261320507509	SRIVIJAY R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
11	261320507510	VIGNESH S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
12	261520507506	HAMZAL HABEEB	M.PHARM (PHARMACY PRACTICE) SEM-I
13	261520507507	JANARTHANAN G	M.PHARM (PHARMACY PRACTICE) SEM-I
14	261520507508	JOSEPH M SATHIYAN	M.PHARM (PHARMACY PRACTICE) SEM-I
15	261520507509	ALIDASAN	M.PHARM (PHARMACY PRACTICE) SEM-I



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16	261620507511	MANIKANDAN K	M.PHARM (PHARMACOLOGY) SEM-I
17	261620507512	MATHU PRIYANKA M	M.PHARM (PHARMACOLOGY) SEM-I
18	261620507513	PAVITHRA D	M.PHARM (PHARMACOLOGY) SEM-I
19	261620507514	SANKAR N	M.PHARM (PHARMACOLOGY) SEM-I
20	261620507515	SREERAG VISWAM	M.PHARM (PHARMACOLOGY) SEM-I
21	261910802	ELANGO VAN S	M.PHARM (PHARMACEUTICS) SEM-III
22	261910804	KARTHICK V	M.PHARM (PHARMACEUTICS) SEM-III
23	261910805	KARTHIKEYAN R	M.PHARM (PHARMACEUTICS) SEM-III
24	261910806	KASTHURIDEVI R	M.PHARM (PHARMACEUTICS) SEM-III
25	261910807	LOGESWARAN B	M.PHARM (PHARMACEUTICS) SEM-III
26	261910808	NANDHAKUMAR G	M.PHARM (PHARMACEUTICS) SEM-III
27	261910809	NANDHITHA P	M.PHARM (PHARMACEUTICS) SEM-III
28	261910810	SHIHABUDEEN S	M.PHARM (PHARMACEUTICS) SEM-III
29	261910811	SUNDARAMOORTHY S	M.PHARM (PHARMACEUTICS) SEM-III
30	261910812	SURESH KUMAR A	M.PHARM (PHARMACEUTICS) SEM-III
31	261910813	VEERAJOTHI R	M.PHARM (PHARMACEUTICS) SEM-III
32	261910814	VIBIN BOSE R	M.PHARM (PHARMACEUTICS) SEM-III
33	261910815	VINOTHRAJ G	M.PHARM (PHARMACEUTICS) SEM-III
34	261915601	ELAKKIYA R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
35	261915602	KALAIVANI V	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
36	261915603	LOGANATHAN M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
37	261915605	PAVITHRA J	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
38	261915606	PRABAVATHI C	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I
39	261915607	SANGEETHA M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
40	261915608	SASI P	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III



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41	261915609	SHINU RAJAN	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
42	261930701	BABU R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
43	261930702	BALAJI N	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
44	261930703	BALAJI N	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
45	261930704	GOBINATH S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
46	261930705	KANNIYAPPAN C	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
47	261930706	KARTHICK M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
48	261930707	MANIKANDAN E	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
49	261930708	MANIMEGALAI A	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
50	261930709	SHAKTHI R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
51	261930710	YASOTHA S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III
52	261940551	FOUZIYA VILAKATHIL	M.PHARM (PHARMACY PRACTICE) SEM-III
53	261940552	KRISHNA KUMAR A	M.PHARM (PHARMACY PRACTICE) SEM-III
54	261940553	KRISHNA PRIYA C S	M.PHARM (PHARMACY PRACTICE) SEM-III
55	261940554	LATHEESH G	M.PHARM (PHARMACY PRACTICE) SEM-III
56	261940555	MOHAMMED ASHFAKH P.K	M.PHARM (PHARMACY PRACTICE) SEM-III
57	261940563	SHAHANASHERIN M	M.PHARM (PHARMACY PRACTICE) SEM-III
58	261940564	SREEHARI K	M.PHARM (PHARMACY PRACTICE) SEM-III
59	261940565	YUVARANI VENKATACHALAM	M.PHARM (PHARMACY PRACTICE) SEM-III
60	261925701	ARUN PRASANTH S	M.PHARM (PHARMACOLOGY) SEM-III
61	261925703	BABY R	M.PHARM (PHARMACOLOGY) SEM-III
62	261925704	BHAVADHARANI M	M.PHARM (PHARMACOLOGY) SEM-III
63	261925705	BINIL VARGHESE JOHN	M.PHARM (PHARMACOLOGY) SEM-III
64	261925706	DHEIVALAKSHMI K	M.PHARM (PHARMACOLOGY) SEM-III



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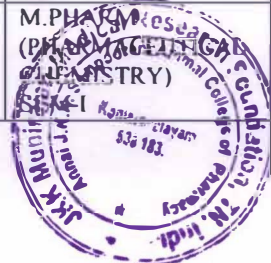
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STUDENTS ATTENDANCE FOR THE COURSE

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1	261120507511	RASHEENA M	M.PHARM (PHARMACEUTICS) SEM-I	✓	✓	✓	✓	✓	✓
2	261120507512	SARATHKUMAR S	M.PHARM (PHARMACEUTICS) SEM-I	✓	✓	✓	✓	✓	✓
3	261120507513	SITHARA M V	M.PHARM (PHARMACEUTICS) SEM-I	✓	✓	✓	✓	✓	✓
4	261120507514	SRINIVASAN K	M.PHARM (PHARMACEUTICS) SEM-I	✓	✓	✓	✓	✓	✓
5	261120507515	UMARMUKDAR A	M.PHARM (PHARMACEUTICS) SEM-I	✓	✓	✓	✓	✓	✓
6	261220507501	ARATHY P NAIR	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓
7	261220507502	EZHILARASAN S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓
8	261220507503	GOKUL T	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓
9	261320507508	SATHISH KUMAR G	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓
10	261320507509	SRIVIJAY R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓
11	261320507510	VIGNESH S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓



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12	261520507506	HAMZAL HABEEB	M.PHARM (PHARMACY PRACTICE) SEM-I	✓	✓	✓	✓	✓	✓
13	261520507507	JANARTHANAN G	M.PHARM (PHARMACY PRACTICE) SEM-I	✓	✓	✓	✓	✓	✓
14	261520507508	JOSEPH MATHEW	M.PHARM (PHARMACY PRACTICE) SEM-I	✓	✓	✓	✓	✓	✓
15	261520507509	KALIDASAN R	M.PHARM (PHARMACY PRACTICE) SEM-I	✓	✓	✓	✓	✓	✓
16	261620507511	MANIKANDAN K	M.PHARM (PHARMACOLOGY) SEM-I	✓	✓	✓	✓	✓	✓
17	261620507512	MATHU PRIYANKA M	M.PHARM (PHARMACOLOGY) SEM-I	✓	✓	✓	✓	✓	✓
18	261620507513	PAVITHRA D	M.PHARM (PHARMACOLOGY) SEM-I	✓	✓	✓	✓	✓	✓
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22	261910804	KARTHICK V	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
23	261910805	KARTHIKEYAN R	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
24	261910806	KASTHURIDEVI R	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
25	261910807	LOGESWARAN B	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
26	261910808	NANDHAKUMAR G	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
27	261910809	NANDHITHA P	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
28	261910810	SHIHABUDEEN S	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
29	261910811	SUNDARAMOORTHY S	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
30	261910812	SURESH KUMAR A	M.PHARM	✓	✓	✓	✓	✓	✓



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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

			(PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
31	261910813	VEERAJOTHI R	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
32	261910814	VIBIN BOSE R	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
33	261910815	VINOTHRAJ G	M.PHARM (PHARMACEUTICS) SEM-III	✓	✓	✓	✓	✓	✓
34	261915601	ELAKKIYA R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
35	261915602	KALAIVANI V	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
36	261915603	LOGANATHAN M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
37	261915605	PAVITHRA J	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
38	261915606	PRABAVATHI C	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	✓	✓	✓	✓	✓	✓
39	261915607	SANGEETHA M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
40	261915608	SASI P	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
41	261915609	SHINU RAJAN	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
42	261930701	BABU R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
43	261930702	BALAJI N	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
44	261930703	BALAJI N	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
45	261930704	GOBINATH S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓



Dr. N.SENTHILKUMAR
PRINCIPAL

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

46	261930705	KANNIYAPPAN C	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
47	261930706	KARTHICK M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
48	261930707	MANIKANDAN E	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
49	261930708	MANIMEGALAI A	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
50	261930709	SHAKTHI R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
51	261930710	YASOTHA S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	✓	✓	✓	✓	✓	✓
52	261940551	FOUZIYA VILAKATHIL	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
53	261940552	KRISHNA KUMAR A	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
54	261940553	KRISHNA PRIYA C S	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
55	261940554	LATHEESH G	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
56	261940555	MOHAMMED ASHFAKH P.K	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
57	261940563	SHAHANASHERIN M	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
58	261940564	SREEHARI K	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓
59	261940565	YUVARANI VENKATACHALAM	M.PHARM (PHARMACY PRACTICE) SEM-III	✓	✓	✓	✓	✓	✓



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PRINCIPAL

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

ADD ON COURSE	UNIT OPERATION
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	1.02.2021-25.02.2021
VENUE	SEMINAR HALL

STUDENT NAME : RASHEENA M COURSE : M-PHARM DATE : 25.02.2021
MULTIPLE CHOICE QUESTION MARKS : 20

1. How many types of aerators are commonly used in the treatment of wastewater?

- a) 2
- b) 3
- c) 4
- d) 5

2. Organic contaminants are removed from the wastewater?

- a) Water softening
- b) Demineralization
- c) Absorption
- d) Adsorption

3. By which process, odor producing substances are oxidized?

- a) Chlorination
- b) Liming
- c) Re-carbonation
- d) Super-chlorination

4. Which of the following process is used to remove the colloidal particles from the effluent?

- a) Chemical precipitation
- b) Chemical coagulation
- c) Ion exchange
- d) Adsorption




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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

5. In which form of solute stabilization, hydrogen sulfide in the effluent is oxidized into sulfate?

- a) Chlorination
- b) Liming
- c) Re-carbonation
- d) Super-chlorination

6. In which unit operation, gases are released or absorbed in the effluent?

- a) Gas transfer
- b) Ion transfer
- c) Solute stabilization
- d) Solids transfer

7. In which process, excess lime is converted into bicarbonate?

- a) Chlorination
- b) Liming
- c) Re-carbonation
- d) Super-chlorination

8. Flocculation of iron from water by addition of lime is an example of which of the following process?

- a) Chemical precipitation
- b) Chemical coagulation
- c) Ion exchange
- d) Adsorption

9. Which form of solute stabilization occurs when effluent passes through limestone?

- a) Chlorination
- b) Liming
- c) Re-carbonation
- d) Super-chlorination

10. Solids are removed from the wastewater by which of the following unit operation?




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PRINCIPAL

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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

a) Interfacial contact

b) Liming

c) Re-carbonation

d) Super-chlorination

11. In which unit operation objectionable solutes are converted into unobjectionable forms without removal?

a) Gas transfer

b) Ion transfer

c) Solute stabilization

d) Solids transfer

12. Dealkalization results in removal of all the ions from the wastewater.

a) True

b) False

13. Unit operations are the _____ operation to remove the impurities

a) Physical

b) Chemical

c) Biological

d) Biochemical

14. What did the structure use to prevent floating matter that enters into pumps and pumping system?

a) Aeration units

b) Screens

c) Grit chamber

d) Bioreactor

15. What is the removal of fine particle sand dissolved solids called?

a) Filtration

b) Sedimentation

c) Deoxidation




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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

d) Disinfection

16. How are colour and odour removal?

a) Adsorption

b) Sedimentation

c) Filtration

d) Coagulation

17. In order to prevent clogging what should be provided prior to tube settlers?

a) Clarifiers

b) Coarse screen

c) Fine screen

d) Grit chamber

18. Which of these is not a type of grit chamber

a) Horizontal flow

b) Vortex

c) Vertical flow

d) Aerated

19. What is the detention time considered while designing a grit chamber?

a) 20-40 sec

b) 10-20 sec

c) 90-120 sec

d) 45-90 sec

20. Which type of mixer is used when the flow needs to be changed often?

a) Paddle mixer

b) Static mixer

c) Mechanical mixer

d) Mechanical aerator



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PRINCIPAL

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ADD ON COURSE	UNIT OPERATION
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	1.02.2021-25.02.2021
VENUE	SEMINAR HALL

ANSWER ALL THE QUESTION:

DATE: 25.02.21

MULTIPLE CHOICE QUESTION

MARKS: 20

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c) Ion exchange

d) Adsorption

5. In which form of solute stabilization, hydrogen sulfide in the effluent is oxidized into sulfate?

a) **Chlorination**

b) Liming

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d) Super-chlorination

10. Solids are removed from the wastewater by which of the following unit operation?

a) Interfacial contact

b) Liming

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11. In which unit operation objectionable solutes are converted into unobjectionable forms without removal?

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14. What did the structure use to prevent floating matter that enters into pumps and pumping system?

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b) **Screens**


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15. What is the removal of fine particle sand dissolved solids called?

a) **Filtration**




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PRINCIPAL

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b) Sedimentation

c) Deoxidation

d) Disinfection

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d) Mechanical aerator




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ADD ON COURSE	UNIT OPERATION
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	1.02.2021-25.02.2021
VENUE	SEMINAR HALL

STUDENTS MARKSHEETS

S.N O	REG.NO	NAME OF THE STUDENTS	COURSE	MARKS SCORED	% MARKS
1	26112050751 1	RASHEENA M	M.PHARM (PHARMACEUTICS) SEM-I	17	85%
2	26112050751 2	SARATHKUMAR S	M.PHARM (PHARMACEUTICS) SEM-I	17	85%
3	26112050751 3	SITHARA M V	M.PHARM (PHARMACEUTICS) SEM-I	16	80%
4	26112050751 4	SRINIVASAN K	M.PHARM (PHARMACEUTICS) SEM-I	18	90%
5	26112050751 5	UMARMUKDAR A	M.PHARM (PHARMACEUTICS) SEM-I	17	85%
6	26122050750 1	ARATHY P NAIR	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	18	90%
7	26122050750 2	EZHILARASAN S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	19	95%
8	26122050750 3	GOKUL T	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	17	85%
9	26132050750 8	SATHISH KUMAR G	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	16	80%
10	26132050750 9	SRIVIJAY R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	19	95%
11	26132050751 0	VIGNESH S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	17	85%
12	26152050750 6	HAMZAL	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	16	80%
13	26152050750 7	JANAR	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-I	18	90%

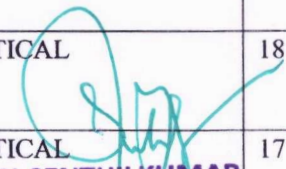


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PRINCIPAL

ETHIRMEDU, KOMARAPALAYAM - 638 183.
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			SEM-I		
14	261520507508	JOSEPH MATHEW	M.PHARM (PHARMACY PRACTICE) SEM-I	18	90%
15	261520507509	KALIDASAN R	M.PHARM (PHARMACY PRACTICE) SEM-I	18	90%
16	261620507511	MANIKANDAN K	M.PHARM (PHARMACOLOGY) SEM-I	17	85%
17	261620507512	MATHU PRIYANKA M	M.PHARM (PHARMACOLOGY) SEM-I	18	90%
18	261620507513	PAVITHRA D	M.PHARM (PHARMACOLOGY) SEM-I	18	90%
19	261620507514	SANKAR N	M.PHARM (PHARMACOLOGY) SEM-I	19	95%
20	261620507515	SREERAG VISWAM	M.PHARM (PHARMACOLOGY) SEM-I	16	80%
21	261910802	ELANGO VAN S	M.PHARM (PHARMACEUTICS) SEM-III	18	90%
22	261910804	KARTHICK V	M.PHARM (PHARMACEUTICS) SEM-III	18	90%
23	261910805	KARTHIKEYAN R	M.PHARM (PHARMACEUTICS) SEM-III	17	85%
24	261910806	KASTHURIDEVI R	M.PHARM (PHARMACEUTICS) SEM-III	19	95%
25	261910807	LOGESWARAN B	M.PHARM (PHARMACEUTICS) SEM-III	19	95%
26	261910808	NANDHAKUMAR G	M.PHARM (PHARMACEUTICS) SEM-III	19	95%
27	261910809	NANDHITHA P	M.PHARM (PHARMACEUTICS) SEM-III	17	85%
28	261910810	SHIHABUDEEN S	M.PHARM (PHARMACEUTICS) SEM-III	18	90%
29	261910811	SUNDARAMOORTHY S	M.PHARM (PHARMACEUTICS) SEM-III	16	80%
30	261910812	SURESH KUMAR A	M.PHARM (PHARMACEUTICS) SEM-III	17	85%
31	261910813	VEERAJOTHI R	M.PHARM (PHARMACEUTICS) SEM-III	18	90%
32	261910814	VIBIN BOSE R	M.PHARM (PHARMACEUTICS) SEM-III	19	95%
33	261910815	VINOTHRAJ G	M.PHARM (PHARMACEUTICS) SEM-III	17	85%
34	261915601	ELAKKIYA R	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	18	90%
35	261915602	KALAI VANI V	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	18	90%
36	261915603	LOGANATHAN M	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-III	17	85%




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Dr. N.SENTHILKUMAR,
PRINCIPAL

Contact No. : +91 9456750, +91 945069944, +91 945069944
JKK MONIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
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ADD ON COURSE FEEDBACK FORM

STUDENTNAME: RASHEENA.M DATE: 01.02.2021 to 25.02.2021
YEAR/COURSE: M-PHARM [SEM-I] PHARMACEUTICS
NAME OF THE ADD ON COURSE: UNIT OPERATION
COURSECODE: 20VAC009 DURATION: 30 hrs

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
The objectives of the training were	✓			
The instructor's contribution to the course was:		✓		
The presentation materials were relevant	✓			
The instructor's effectiveness in teaching the subject matter was:			✓	
Answers to the students questions by the instructor	✓			
The venue was appropriate for the event			✓	
Course organisation was:		✓		
Level of course was	✓			
Course content was:		✓		

Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?

A)0-2 B) 2-5 C)6-10 D)11-14E)15UP

2. What grade do you expect in this course?

A)BELOW 50% B) 50-60% C) 60-70% D)70-80% E) ABOVE 80%




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SIGNATURE

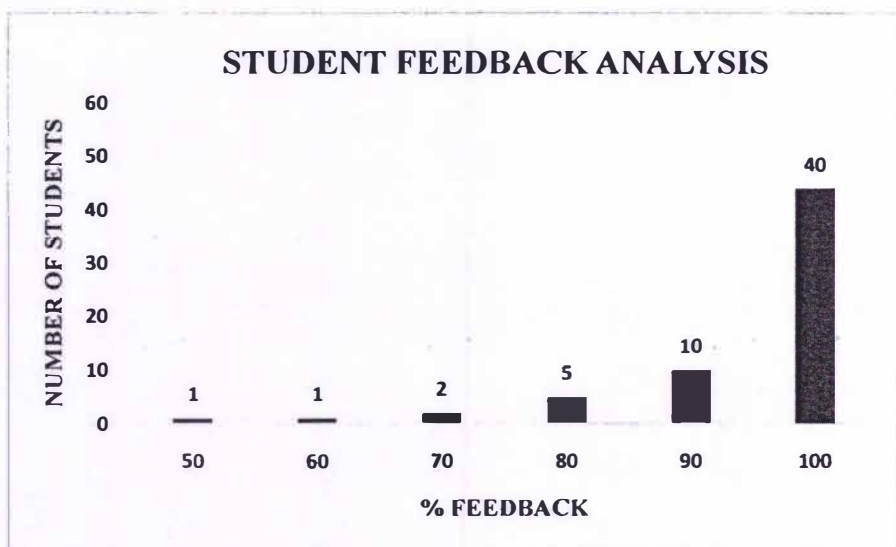
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Ethirmedu, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in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

ADD ON COURSE	UNIT OPERATION
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	1.02.2021-25.02.2021
VENUE	SEMINAR HALL



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



JKKMMRF'S ANNAI JKK SAMPOORANI
AMMAL COLLEGE OF PHARMACY
CERTIFICATE OF PARTICIPATION

This is to certify that MR./MS./MRS.

RASHEENA . M

Has appreciated for his/ her participation in Value Added Course-

UNIT OPERATION

Organised by the Department of Pharmaceutical Chemistry

on 25/02/2021


Dr. N. SENTHIL KUMAR,
PRINCIPAL


COORDINATOR


Dr. N. SENTHIL KUMAR
CONVENOR

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