



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAL 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

<b>ADD ON COURSE</b>	<b>WATER CHEMISTRY</b>
<b>DEPARTMENT</b>	<b>PHARMACEUTICAL CHEMISTRY</b>
<b>ACADEMIC YEAR</b>	<b>2017-2018</b>
<b>DATE</b>	<b>25.09.2017-12.10.2017</b>
<b>VENUE</b>	<b>SEMINAR HALL</b>

## REPORT

DATE: 12.10.2017

### RESOURCE PERSONS:

**1.DR. N. SENTHIL KUMAR., M.PHARM, Ph.D.,**  
PRINCIPAL, JKKMMRF'S ANNAL JKK SAMPOORANI AMMAL  
COLLEGE OF PHARMACY, KOMARAPALA YAM.

**2.DR.T.VENKATACHALAM .,M.PHARM, Ph.D.,**  
PROFESSOR, JKKMMRF'S ANNAL JKK SAMPOORANI AMMAL  
COLLEGE OF PHARMACY, KOMARAPALA YAM.

No. of students enrolled: 63

No. of students certified: 63


### Objective:

The objective of this value added water chemistry program provides the information about the water and its chemistry. It provides vast knowledge on the hardness of water, testing the hardness of water and water softening methods. These value added program provides additional knowledge to the students other than their academic knowledge.

### Learning outcomes:

- Provides knowledge on potable water
- Develops industrial skills on water softening

The students were actively participated in these course and gained knowledge on water chemistry.

  
R. V. Srinivas  
Programme  
Co-ordinator

  
HOD

  
Principal

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

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



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REF.NO:JKKM/PG-PHARM.CHEM/REQ/2017/001

Date: 23.09.2017

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 **25.09.2017 to 12.10.2017**. We wish to conduct a seminar regarding the **WATER CHEMISTRY**. 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 **Water Chemistry** that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Yours sincerely,  
*R. Vignesh*  
Programme Co-ordinator

*Dr. N. Senthilkumar*  
PRINCIPAL

J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL**  
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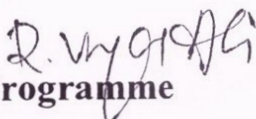
## CIRCULAR


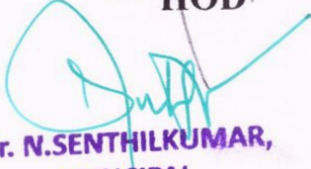
This is inform to the I - B.Pharm (I Sem) Students and M. Pharm (Pharmaceutis - I Sem) Students that the following value added course can be conducted by the Department of Pharmaceutical Chemistry, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

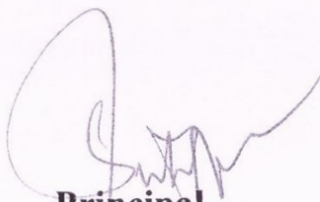
Course Name	Schedule	Duration	Venue	Resource Person
WATER CHEMISTRY	25.09.2017 to	32 HRS	SEMINAR HALL	Dr. N. Senthilkumar & Dr. T.
	12.10.2017			

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**

  
**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**

**Dr. N. SENTHILKUMAR,  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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<b>ADD ON COURSE</b>	<b>WATER CHEMISTRY</b>
<b>DEPARTMENT</b>	<b>PHARMACEUTICAL CHEMISTRY</b>
<b>ACADEMIC YEAR</b>	<b>2017-2018</b>
<b>DATE</b>	<b>25.09.2017-12.10.2017</b>
<b>VENUE</b>	<b>SEMINAR HALL</b>

## SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
25.09.2017	6HRS	<b>WATER CHEMISTRY</b>	Introduction and source of water	Dr.N.Senthilkumar
26.09.2017	5HRS		Hardness of water and its causes	
28.09.2017	5HRS		Potable water	
30.09.2017	5HRS		Water for industries	Dr.T.Venkatachalam
05.10.2017	5HRS		Sludge ,scale and their formation & Caustic embrittlement	
12.10.2017	6HRS		Water softening	



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

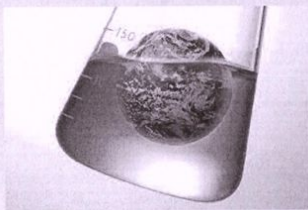
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**JKKMMRF'S ANNAI JKK  
SAMPOORANI AMMAL  
COLLEGE OF PHARMACY,  
KOMARAPALAYAM.**

**DEPARTMENT OF PHARMACEUTICAL  
CHEMISTRY**

**TOPIC: WATER CHEMISTRY**



**VENUE: SEMINAR HALL**

**DATE: 25.09.2017 TO 12.10.2017**

**TIME: 9.00 am to 6.00 pm**



**COURSE SCHEDULE:**

- INTRODUCTION & SOURCE OF WATER
- HARDNESS OF WATER & TS CAUSES
- POTABLE WATER
- WATER FOR INDUSTRIES
- SLUDGE, SCALE & THEIR FORMATION & CAUSTIC EMBRITLEMENT
- WATER SOFTENING

**Resource person:**

**Dr. N. SENTHIL KUMAR M.Pharm., PH.D.,**  
Principal,  
JKKMMRF'S Annai JKK Sampoorani Ammal  
College of Pharmacy,  
Komarapalayam.



**Dr. T. ENKATACHALAM, M.Pharm., PH.D.,**  
Associate Professor,  
JKKMMRF'S Annai JKK Sampoorani Ammal  
College of Pharmacy, Komarapalayam



**Dr. N. SENTHIL KUMAR,**  
PRINCIPAL

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<b>VENUE</b>	<b>SEMINAR HALL</b>

**LIST OF STUDENTS ENROLLED FOR THE COURSE**

**DATE:12.10.2017**

<b>S.NO</b>	<b>REG.NO</b>	<b>NAME OF THE STUDENT</b>	<b>COURSE</b>
1	561758001	Aakash S	I B.Pharm(I Sem)
2	561758002	Abinaya V	I B.Pharm(I Sem)
3	561758003	Ajay Kumar M	I B.Pharm(I Sem)
4	561758004	Akilandeswaran S	I B.Pharm(I Sem)
5	561758005	Amarnath A	I B.Pharm(I Sem)
6	561758006	Ananth R	I B.Pharm(I Sem)
7	561758007	Anbudurai S	I B.Pharm(I Sem)
8	561758008	Arjunan K	I B.Pharm(I Sem)
9	561758009	Arun Kumar R	I B.Pharm(I Sem)
10	561758010	Arunprakash S	I B.Pharm(I Sem)
11	561758011	Ayyasamy R	I B.Pharm(I Sem)
12	561758012	Bala Guru I T	I B.Pharm(I Sem)
13	561758013	Chandru D	I B.Pharm(I Sem)
14	561758014	Deepa P	I B.Pharm(I Sem)
15	561758015	Deepika R	I B.Pharm(I Sem)
16	561758016	Devashri P B	I B.Pharm(I Sem)
17	561758017	Dharmaseelan K	I B.Pharm(I Sem)
18	561758018	Dhileep M	I B.Pharm(I Sem)
19	561758019	Dineshkumar B	I B.Pharm(I Sem)
20	561758020	Divakar A	I B.Pharm(I Sem)
21	561758063	Naveenkumar P	I B.Pharm(I Sem)
22	561758064	Partheepan S	I B.Pharm(I Sem)
23	561758065	Pavithra R	I B.Pharm(I Sem)
24	561758066	Pavithran K	I B.Pharm(I Sem)
25	561758067	Prakash S	I B.Pharm(I Sem)
26	561758068	Praveen Kumar C	I B.Pharm(I Sem)
27	561758069	Priyadharshini M	I B.Pharm(I Sem)
28	561758070	Priyadharshini S	I B.Pharm(I Sem)
29	561758071	Ragunath S	I B.Pharm(I Sem)
30	561758072	Ramakrishnan P	I B.Pharm(I Sem)
31	561758073	Ranganath V	I B.Pharm(I Sem)
32	561758074	Sakthivel P	I B.Pharm(I Sem)
33	561758075	Samyukta D	I B.Pharm(I Sem)



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

34	561758076	Santhosh M	I B.Pharm(I Sem)
35	561758077	Santhosh Raj S K	I B.Pharm(I Sem)
36	561758078	Sathishkumar M	I B.Pharm(I Sem)
37	561758079	Seetharam M	I B.Pharm(I Sem)
38	561758080	Selvabalagan M	I B.Pharm(I Sem)
39	561758081	Sentamil P	I B.Pharm(I Sem)
40	561758082	Shanmugavel P	I B.Pharm(I Sem)
41	561758083	Shashi Kumar R	I B.Pharm(I Sem)
42	561758084	Srinivas V	I B.Pharm(I Sem)
43	561758085	Subhashini D	I B.Pharm(I Sem)
44	561758086	Suheal A	I B.Pharm(I Sem)
45	561758087	Supriya M	I B.Pharm(I Sem)
46	561758088	Suresh T	I B.Pharm(I Sem)
47	561758089	Sureshmani S	I B.Pharm(I Sem)
48	561758090	Surya T	I B.Pharm(I Sem)
49	561758091	Suryamathi P	I B.Pharm(I Sem)
50	561758092	Tamilvanan R	I B.Pharm(I Sem)
51	561758093	Udhayabalaji R	I B.Pharm(I Sem)
52	561758094	Udhyakumar M	I B.Pharm(I Sem)
53	561758095	Vasanth M	I B.Pharm(I Sem)
54	561758096	Vathendiran S	I B.Pharm(I Sem)
55	561758097	Vimalraj T	I B.Pharm(I Sem)
56	561758098	Vinoth P	I B.Pharm(I Sem)
57	561758099	Yuva Prasanth P	I B.Pharm(I Sem)
58	561758100	Yuvaraj S	I B.Pharm(I Sem)
59	261710803	Hemalatha K	I M.Pharm(Isem) (Pharmaceutics)
60	261710804	Nandhini B	I M.Pharm(Isem) (Pharmaceutics)
61	261710805	Pilla Anil Kumar	I M.Pharm(Isem) (Pharmaceutics)
62	261710806	Shaik Subhani	I M.Pharm(Isem) (Pharmaceutics)
63	261710807	Aswathy Raj S	I M.Pharm(Isem) (Pharmaceutics)



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## STUDENTS ATTENDANCE

DATE: 12.10.2017

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	25/9	26/9	28/9	30/9	05/10	12/10
1	561758001	Aakash S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
2	561758002	Abinaya V	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
3	561758003	Ajay Kumar M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
4	561758004	Akilandeswaran S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
5	561758005	Amarnath A	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
6	561758006	Ananth R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
7	561758007	Anbudurai S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
8	561758008	Arjunan K	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
9	561758009	Arun Kumar R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
10	561758010	Arunprakash S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
11	561758011	Ayyasamy R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
12	561758012	Bala Guru I T	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
13	561758013	Chandru D	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
14	561758014	Deepa P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
15	561758015	Deepika R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
16	561758016	Devashri P B	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
17	561758017	Dharmaseelan K	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
18	561758018	Dhileep M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓



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19	561758019	Dineshkumar B	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
20	561758020	Divakar A	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
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22	561758064	Partheepan S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
23	561758065	Pavithra R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
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27	561758069	Priyadarshini M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
28	561758070	Priyadarshini S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
29	561758071	Ragunath S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
30	561758072	Ramakrishnan P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
31	561758073	Ranganath V	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
32	561758074	Sakthivel P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
33	561758075	Samyukta D	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
34	561758076	Santhosh M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
35	561758077	Santhosh Raj S K	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
36	561758078	Sathishkumar M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
37	561758079	Seetharam M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
38	561758080	Selvabalan M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
39	561758081	Sentamil P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
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41	561758083	Shashi Kumar R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
42	561758084	Srinivas V	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
43	561758085	Subhashini D	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
44	561758086	Suheel A	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
45	561758087	Supriya M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
46	561758088	Suresh T	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
47	561758089	Sureshmani S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
48	561758090	Surya T	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
49	561758091	Suryamathi P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
50	561758092	Tamilvanan R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
51	561758093	Udhayabalaji R	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
52	561758094	Udhayakumar M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
53	561758095	Vasanth M	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
54	561758096	Vathendiran S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
55	561758097	Vimalraj T	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
56	561758098	Vinoth P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
57	561758099	Yuva Prasanth P	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
58	561758100	Yuvaraj S	I B.Pharm(I Sem)	✓	✓	✓	✓	✓	✓
59	261710803	Hemalatha K	I M.Pharm(Isem) (Pharmaceutics)	✓	✓	✓	✓	✓	✓
60	261710804	Nandhini B	I M.Pharm(Isem)	✓	✓	✓	✓	✓	✓



Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

			(Pharmaceutics)						
61	261710805	Pilla Anil Kumar	I M.Pharm(Isem) (Pharmaceutics)	✓	✓	✓	✓	✓	✓
62	261710806	Shaik Subhani	I M.Pharm(Isem) (Pharmaceutics)	✓	✓	✓	✓	✓	✓
63	261710807	Aswathy Raj S	I M.Pharm(Isem) (Pharmaceutics)	✓	✓	✓	✓	✓	✓



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PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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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](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)

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

ADD ON COURSE	WATER CHEMISTRY
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2017-2018
DATE	25.09.2017-12.10.2017
VENUE	SEMINAR HALL

NAME: M. AJAY KUMAR

COURSE: I - B PHARM (I SEMESTER)

ANSWER ALL THE QUESTION:

DATE: 12.10.2017

MULTIPLE CHOICE QUESTION

MARKS:20

1) Water is made up of

- A) Hydrogen only
- B) Hydrogen and Oxygen
- C) Chlorine
- D) Potassium

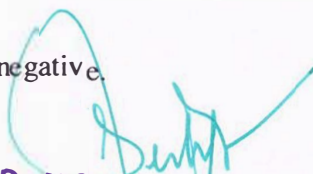
2) The atom around which the electrons spend the most time will have a \_\_\_\_\_ charge, and the atom around which the electron spend the least time will have a \_\_\_\_\_ charge.

- A) Slightly negative, slightly positive
- B) only positive charge
- C) only negative charge
- D) neutral charge

3) A water molecule is polar because one end is positive and one end is negative.

- A) True



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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B)False

4)The attraction between molecules of the same substance.

A)Cohesion

B)Adhesion

5)The attraction between molecules of different substance.

A)cohesion

B)adhesion

6)The properties of water most responsible for this are

A)adhesion only

B)cohesion only

C)cohesion and adhesion

7)The property of water when water attracts to water is

A)cohesion

B)adhesion

8)The property of water to another object which is polar or charged

A)adhersion

B)cohesion

9)The film of water under the bug is best created by

A)hydrogen bonds

B)ionic bonds

C)Plastic

D)Legs of the insect

10)Refer to the picture this is occurring because of

A)adhesion

B)cohesion

11)The chemical formula for water is

A)HO

B)H<sub>2</sub>O

C)H<sub>3</sub>O

D)HO<sub>2</sub>



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

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

12)The tightness across the surface of water that enables paper clips to float is \_\_\_\_\_

A)adhesion

B)capillary action

C)surface tension

D)polarity

13)Because ice floats in water, we know that it is \_\_\_\_\_

A)less dense than water

B)more dense than water

C) a solvent

D)just as dense as water

14)Attraction between water molecules are called

A)covalent bonds

B)Ionic bonds

C)polar bonds

D)hydrogen bonds

15)Water droplets take a spherical shape because of \_\_\_\_\_

A)adhesion

B)cohesion

C)capillary action

D)solubility

16)Water is a universal solvent because it \_\_\_\_\_

A)It can be found anywhere

B)It freeze when it gets cold

C)floats when frozen



  
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JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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D) Dissolves most substance

17) Most of water's properties occur because it is \_\_\_\_\_

A) A polar covalent

B) made with oxygen

C) A polar ionic

D) makes up 75% of the earth

18) Which best describes a substance with a pH of 1?

A) strong acid

B) weak acid

C) strong base

D) weak base

19) The basic unit of matter and the defining structure of elements.

A) atom

B) molecule

C) element

D) nucleus

20) Used to describe a molecule that has an unequal distribution of charges (positive and negative)

A) non polar

B) element

C) polar

D) chemicals



  
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<b>ADD ON COURSE</b>	<b>WATER CHEMISTRY</b>
<b>DEPARTMENT</b>	<b>PHARMACEUTICAL CHEMISTRY</b>
<b>ACADEMIC YEAR</b>	<b>2017-2018</b>
<b>DATE</b>	<b>25.09.2017-12.10.2017</b>
<b>VENUE</b>	<b>SEMINAR HALL</b>

**ANSWER ALL THE QUESTION:**

**DATE: 12.10.2017**

**MULTIPLE CHOICE QUESTION**

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- A) Slightly negative, slightly positive
- B) only positive charge
- C) only negative charge
- D) neutral charge

3) A water molecule is polar because one end is positive and one end is negative.

- A) True
- B) False



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**PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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4)The attraction between molecules of the same substance.

- A)Cohesion                      **B)Adhesion**

5)The attraction between molecules of different substance.

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6)The properties of water most responsible for this are

- A)adhesion only                      **B)cohesion only**                      C)cohesion and adhesion

7)The property of water when water attracts to water is

- A)cohesion                      **B)adhesion**

8)The property of water to another object which is polar or charged

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9)The film of water under the bug is best created by

- A)hydrogen bonds**    B)ionic bonds  
C)Plastic                      B)Legs of the insect

10)Refer to the picture this is occurring because of

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11)The chemical formula for water is

- A)HO  
**B)H2O**  
C)H3O  
D)HO2

12)The tightness across the surface of water that enables paper clips to float is \_\_\_\_\_

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**C)surface tension**



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**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,**  
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D)polarity

13)Because ice floats in water, we know that it is \_\_\_\_\_

A)less dense than water

**B)more dense than water**

C) a solvent

D)just as dense as water

14)Attraction between water molecules are called

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**D)Dissolves most substance**

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C) **A polar ionic**

D) makes up 75% of the earth

18) Which best describes a substance with a pH of 1?

A) strong acid

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19) The basic unit of matter and the defining structure of elements.

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20) Used to describe a molecule that has an unequal distribution of charges (positive and negative)

A) non polar

B) element

**C) polar**

D) chemicals



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<b>ADD ON COURSE</b>	<b>WATER CHEMISTRY</b>
<b>DEPARTMENT</b>	<b>PHARMACEUTICAL CHEMISTRY</b>
<b>ACADEMIC YEAR</b>	<b>2017-2018</b>
<b>DATE</b>	<b>25.09.2017-12.10.2017</b>
<b>VENUE</b>	<b>SEMINAR HALL</b>

## MARKSHEET

S.NO	REG.NO	NAME OF THE STUDENT	COURSE	MARKS SCORED	% MARKS
1	561758001	Aakash S	I B.Pharm(I Sem)	16	80
2	561758002	Abinaya V	I B.Pharm(I Sem)	17	85
3	561758003	Ajay Kumar M	I B.Pharm(I Sem)	19	95
4	561758004	Akilandeswaran S	I B.Pharm(I Sem)	19	95
5	561758005	Amarnath A	I B.Pharm(I Sem)	18	90
6	561758006	Ananth R	I B.Pharm(I Sem)	16	80
7	561758007	Anbudurai S	I B.Pharm(I Sem)	17	85
8	561758008	Arjunan K	I B.Pharm(I Sem)	18	90
9	561758009	Arun Kumar R	I B.Pharm(I Sem)	15	75
10	561758010	Arunprakash S	I B.Pharm(I Sem)	19	95
11	561758011	Ayyasamy R	I B.Pharm(I Sem)	16	80



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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NAMAKKAL DISTRICT, TAMIL NADU, INDIA.**

12	561758012	Bala Guru I T	I B.Pharm(I Sem)	19	95
13	561758013	Chandru D	I B.Pharm(I Sem)	20	100
14	561758014	Deepa P	I B.Pharm(I Sem)	18	90
15	561758015	Deepika R	I B.Pharm(I Sem)	18	90
16	561758016	Devashri P B	I B.Pharm(I Sem)	18	90
17	561758017	Dharmaseelan K	I B.Pharm(I Sem)	19	95
18	561758018	Dhileep M	I B.Pharm(I Sem)	17	85
19	561758019	Dineshkumar B	I B.Pharm(I Sem)	18	90
20	561758020	Divakar A	I B.Pharm(I Sem)	18	90
21	561758063	Naveenkumar P	I B.Pharm(I Sem)	17	85
22	561758064	Partheepan S	I B.Pharm(I Sem)	19	95
23	561758065	Pavithra R	I B.Pharm(I Sem)	17	85
24	561758066	Pavithran K	I B.Pharm(I Sem)	18	90
25	561758067	Prakash S	I B.Pharm(I Sem)	20	100
26	561758068	Praveen Kumar C	I B.Pharm(I Sem)	18	90
27	561758069	Priyadharshini M	I B.Pharm(I Sem)	19	95
28	561758070	Priyadharshini S	I B.Pharm(I Sem)	19	95
29	561758071	Ragunath S	I B.Pharm(I Sem)	19	95
30	561758072	Ramakrishnan P	I B.Pharm(I Sem)	17	85
31	561758073	Ranganath V	I B.Pharm(I Sem)	17	85
32	561758074	Sakthivel P	I B.Pharm(I Sem)	17	85
33	561758075	Samyukta D	I B.Pharm(I Sem)	17	85
34	561758076	Santhosh M	I B.Pharm(I Sem)	18	90
35	561758077	Santhosh Raj S K	I B.Pharm(I Sem)	19	95



**Dr. N.SENTHILKUMAR,**  
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**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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36	561758078	Sathishkumar M	I B.Pharm(I Sem)	18	90
37	561758079	Seetharam M	I B.Pharm(I Sem)	18	90
38	561758080	Selvabalagan M	I B.Pharm(I Sem)	18	90
39	561758081	Sentamil P	I B.Pharm(I Sem)	18	90
40	561758082	Shanmugavel P	I B.Pharm(I Sem)	18	90
41	561758083	Shashi Kumar R	I B.Pharm(I Sem)	17	85
42	561758084	Srinivas V	I B.Pharm(I Sem)	19	95
43	561758085	Subhashini D	I B.Pharm(I Sem)	19	95
44	561758086	Suheal A	I B.Pharm(I Sem)	19	95
45	561758087	Supriya M	I B.Pharm(I Sem)	18	90
46	561758088	Suresh T	I B.Pharm(I Sem)	19	95
47	561758089	Sureshmani S	I B.Pharm(I Sem)	18	90
48	561758090	Surya T	I B.Pharm(I Sem)	17	85
49	561758091	Suryamathi P	I B.Pharm(I Sem)	19	95
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63	261710807	Aswathy Raj S	I M.Pharm(Isem) (Pharmaceutics)	17	85



*(Handwritten Signature)*

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## ADD ON COURSE FEEDBACK FORM

STUDENT NAME: AJAY KUMAR DATE: 25/9/2017 – 12/10/2017  
YEAR/ COURSE : II B PHARM [I-SEM]  
NAME OF THE ADD ON COURSE: WATER CHEMISTRY  
COURSE CODE: ITVAC002 DURATION: 32 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)11-14 E)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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*Ajay S.*  
SIGNATURE



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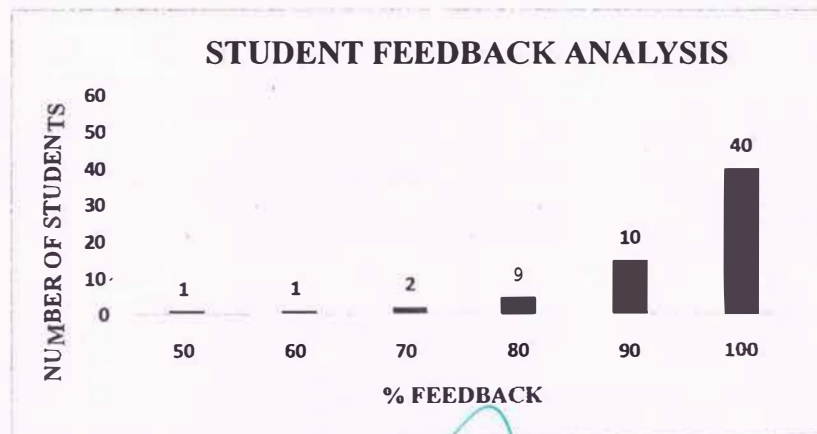
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.

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## STUDENT FEEDBACK ANALYSIS



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

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

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

ATAY KUMAR . M

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

WATER CHEMISTRY

Organised by the Department of Pharmaceutical Chemistry

on 12/10/2017

Dr. N. Senthilkumar,  
PRINCIPAL,

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

R. Vignesh  
COORDINATOR



[Signature]  
CONVENOR

Dr. N. Senthilkumar,  
PRINCIPAL

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