



# 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](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

ADD ON COURSE	ELECTROCHEMISTRY
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	02.06.2020-25.06.2020
VENUE	SEMINAR HALL

## REPORT

**1.DR. N. SENTHIL KUMAR., M.PHARM, Ph.D.,**

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

**2.DR.T.VENKATACHALAM., M.PHARM, Ph.D.,**

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

No. of students enrolled: 64

No. of students certified: 62

### Objective:

The objective of this value added electrochemistry program provides the information about the electronics and its chemistry. It provides vast knowledge on the hardness of electronics, testing the hardness of electrons and 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'

  
Programme  
Co-ordinator

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

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

HOD



  
Principal

**Dr. N. SENTHIL KUMAR,**  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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Contact No. : +919789456750, +919943069944, +919943066944

REF.NO:JKKM/PG-PHARM.CHEM/REQ/2020/001

Date: 30.05.2020

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.

Respected Sir,

Subject: Letter for requesting Permission to Conduct an ADD ON COURSE regarding:-

We Are writing this letter to request permission to conduct a seminar in the **SEMINAR HALL** on **02.06.2020** to **25.06.2020**. We wish to conduct a seminar regarding the **ELECTROCHEMISTRY**. 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 **ELECTROCHEMISTRY** that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Yours sincerely,

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

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



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**  
**ETHIRMEDU, KOMARAPALAYAM - 638 183.**  
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# J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATIONS

## ANNAI J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY

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### CIRCULAR

This is inform to the ALL PHARM., M.PHARM [SEM-I], B.PHARM[SEM-I] Students that the following value added course can be conducted by the Department of Pharmaceutical Chemistry, JKKMMRF's annai jkk sampooraniammal College of pharmacy, it will be commenced as per the schedule:

Course Name	Schedule	Duration	Venue	Resource Person
ELECTROCHEMISTRY	02.06.2020 to 25.06.2020	32 HRS	SEMINAR HALL	Dr. N. Senthilkumar & Dr. T. Venkatachalam

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.**

R. Vignesh  
Programme  
Co-ordinator

HOD

Principal

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

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

J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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# J.K.K.MUNIRAJAH MEDICAL RESEARCH

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<b>ADD ON COURSE</b>	<b>ELECTROCHEMISTRY</b>
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	02.06.2020-25.06.2020
VENUE	SEMINAR HALL

### SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
02.06.2020	6HRS	ELECTROCHEMISTRY	INTRODUCTION	Dr.N.Senthilkumar
07.06.2020	5HRS		ELECTROCHEMICAL CELLS	
10.06.2020	5HRS		STANDARD ELECTRODE POTENTIAL	
15.06.2020	5HRS	ELECTROCHEMISTRY	REDOX REACTION	Dr.T.Venkatachalam
20.06.2020	6 HRS		ELECTROLYSIS, CORROSION	
25.06.2020	5HRS		APPLICATION, CONCLUSION	



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

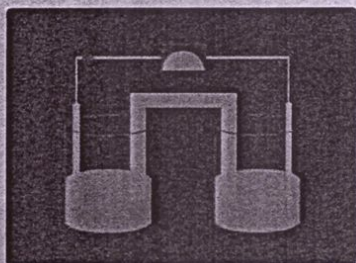
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## BROCHURE



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

DEPARTMENT OF PHARMACEUTICAL  
CHEMISTRY



TOPIC: ELECROCHEMISTRY

VENUE: SEMINAR HALL

DATE: 02.06.2022 TO 25.06.2022

TIME: 9.00 am to 6.00 pm



### COURSE SCHEDULE:

- INTRODUCTION
- PRINCIPLE
- ELECROCHEMICAL CELLS
- STNDARD ELECTRODE POTENTIAL
- SPONTAEITY OF REDOX REACTION
- CORROSION, ELECTROLYSIS, APPLICATIO

### Resource person:

**Dr.N.SENTHILKUMAR, M.Pharm.,PH.D.,**

Principal

JKKMMRF'S Annai JKK Sampoorani Ammal  
College of Pharmacy, Komarapalayam.



**Dr.T.VENKATACHELAM, M.Pharm.,PH.D.,**

Associate Professor,

JKKMMRF'S Annai JKK Sampoorani Ammal  
College of Pharmacy, Komarapalayam.



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

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DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
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VENUE	SEMINAR HALL

## LIST OF STUDENTS ENROLLED FOR THE COURSE

S.NO	REG.NO	NAME OF THE STUDENTS	COURSES
1	261120507506	KALPANA P	M.PHARM (PHARMACEUTICS) SEM-1
2	261120507507	KAVYA S	M.PHARM (PHARMACEUTICS) SEM-1
3	261120507508	KAYATHRI DEVI K	M.PHARM (PHARMACEUTICS) SEM-1
4	261120507509	KIRUBHA HARI C	M.PHARM (PHARMACEUTICS) SEM-1
5	261120507510	PANTHALARASA S	M.PHARM (PHARMACEUTICS) SEM-1
6	261220507504	KAVIYARASU S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-1
7	261220507505	RAGAVI P	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-1
8	261320507505	KATHIRAVAN K N	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1
9	261320507506	MAHESWARI V	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1
10	261320507507	RAMKUMAR K	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1
11	261520507510	PRAVIN KUMAR N	M.PHARM (PHARMACY PRACTICE) SEM-1
12	261520507511	RABEEH P	M.PHARM (PHARMACY PRACTICE) SEM-1
13	261520507512	SHAHANA K	M.PHARM (PHARMACY PRACTICE) SEM-1
14	261520507513	SURESH MANUEL I	M.PHARM (PHARMACY PRACTICE) SEM-1
15	261520507514	SWAMINATHEN V M	M.PHARM (PHARMACY PRACTICE)

**Dr. N.SENTHILKUMAR,**  
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16	261620507506	KAMAL G	M.PHARM (PHARMACOLOGY) SEM-1
17	261620507507	KAMALAKANNAN M	M.PHARM (PHARMACOLOGY) SEM-1
18	261620507508	KARTHIKA RAMESH	M.PHARM (PHARMACOLOGY) SEM-1
19	261620507509	KRISHNAN R	M.PHARM (PHARMACOLOGY) SEM-1
20	261620507510	LATHA S	M.PHARM (PHARMACOLOGY) SEM-1
21	381510428	THIRU ARUL.S	VI.PHARM D
22	381510429	THIRUGNANAM.T.S	VI.PHARM D
23	381510430	YOGA KRISHNAN.S	VI.PHARM D
24	381410418	PACHIYAPPAN M	VI.PHARM D
25	381410410	HARISH M	V.PHARM D
26	381410415	MOHAMED ADNAN P K	V.PHARM D
27	381510402	AZAD V P	V.PHARM D
28	381510422	SENAF K	V.PHARM D
29	381710427	MUNEER T	IV.PHARM D
30	381710428	NISSY ESTHER JOHN	IV.PHARM D
31	381710429	SAMUEL BABU	IV.PHARM D
32	381710430	NAIVIN D ALMEDA	IV.PHARM D
33	381810426	PRAVEEN N	III.PHARM D
34	381810427	RESHMA P VARGHESE	III.PHARM D
35	381810429	SHAFRIN FATHIMA A S	III.PHARM D
36	381810429	N THIRUMURUGAN	III.PHARM D
37	381810430	VENKATESH A	III.PHARM D
38	381910419	PRABHAT KUMAR GUPTA	II.PHARM D
39	381910420	PRADESH C	II.PHARM D
40	381910421	RAMYA G K	II.PHARM D
41	381910422	SHANMUGAPRIYA D	II.PHARM D
42	381910423	SILAMBARASAN M	II.PHARM D
43	381910424	SOUNDHAR K	II.PHARM D
44	380020507507	GEHESH S V	I.PHARM D
45	380020507508	GUNASEKAR M	I.PHARM D
46	380020507509	KALAIKARUNA K	I.PHARM D
47	380020507510	KARTHIKEYAN K	I.PHARM D
48	380020507511	KEERTHI VASAN A	I.PHARM D
49	380020507512	KEERTHIVEL T S	I.PHARM D
50	561758010	ARUNPRAKASH S	B.PHARM[SEM-VII]
51	561758011	AYYASAMY R	B.PHARM[SEM-VII]
52	561758012	BALA GURU I T	B.PHARM[SEM-VII]
53	561758013	CHANDRU D	B.PHARM[SEM-VII]
54	561758014	DEEPA P	B.PHARM[SEM-VII]
55	561758015	DEEPIKA R	B.PHARM[SEM-VII]
56	561758016	DEVASHRI P B	B.PHARM[SEM-VII]
57	561758017	DHARMASEELAN K	B.PHARM[SEM-VII]
58	561758018	DHILEEP M	B.PHARM[SEM-VII]
59	561758019	DINESHKUMAR B	B.PHARM[SEM-VII]
60	561758020	DIVAKAR A	B.PHARM[SEM-VII]
61	561758021	DIVYA K	B.PHARM[SEM-VII]
62	561758022	ESWARAN N P	B.PHARM[SEM-VII]
63	561758023	GOKULAKANNAN M	B.PHARM[SEM-VII]
64	561758026	GUN	B.PHARM[SEM-VII]

Dr. S SENTHILKUMAR

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## LIST OF STUDENTS ATTENDENCE FOR THE COURSE

S.NO	REG.NO	NAME OF THE STUDENTS	COURSES	2/7	7/6	10/6	15/6	20/6	25/6
1	261120507506	KALPANA P	M.PHARM (PHARMACEUTICS) SEM-1	✓	✓	✓	✓	✓	✓
2	261120507507	KAVYA S	M.PHARM (PHARMACEUTICS) SEM-1	✓	✓	✓	✓	✓	✓
3	261120507508	KAYATHRI DEVI K	M.PHARM (PHARMACEUTICS) SEM-1	✓	✓	✓	✓	✓	✓
4	261120507509	KIRUBHA HARI C	M.PHARM (PHARMACEUTICS) SEM-1	✓	✓	✓	✓	✓	✓
5	261120507510	PANTHALARASA S	M.PHARM (PHARMACEUTICS) SEM-1	✓	✓	✓	✓	✓	✓
6	261220507504	KAVIYARASU S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-1	✓	✓	✓	✓	✓	✓
7.	261220507505	PRAGATI P	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-1	✓	✓	✓	✓	✓	✓

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			SEM-1						
8	261320507505	KATHIRAVAN K N	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1	✓	✓	✓	✓	✓	✓
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12	261520507511	RABEEH P	M.PHARM (PHARMACY PRACTICE) SEM-1	✓	✓	✓	✓	✓	✓
13	261520507512	SHAHANA K	M.PHARM (PHARMACY PRACTICE) SEM-1	✓	✓	✓	✓	✓	✓
14	261520507513	SURESH MANUEL I	M.PHARM (PHARMACY PRACTICE) SEM-1	✓	✓	✓	✓	✓	✓
15	261520507514	SWAMINATHEN V M	M.PHARM (PHARMACY PRACTICE) SEM-1	✓	✓	✓	✓	✓	✓
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18	261620507508	KARTHIKA	M.PHARM	✓	✓	✓	✓	✓	✓

Dr. N. SENTHILKUMAR,  
PRINCIPAL



		RAMESH	(PHARMACOLOGY) SEM-1						
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35	381810429	SHAFRIN FATHIMA A S	III.PHARM D	✓	✓	✓	✓	✓	✓
36	381810429	N THIRUMURUGAN	III.PHARM D	✓	✓	✓	✓	✓	✓
37	381810430	VENKATESH A	III.PHARM D	✓	✓	✓	✓	✓	✓
38	381910419	PRABHAT KUMAR GUPTA	II.PHARM D	✓	✓	✓	✓	✓	✓
39	381910420	PRADESH C	II.PHARM D	✓	✓	✓	✓	✓	✓
40	381910421	RAMYA G K	II.PHARM D	✓	✓	✓	✓	✓	✓
41	381910422	SHANMUGAPRIYA	II.PHARM D	✓	✓	✓	✓	✓	✓

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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44	380020507507	GEHESH S V	I.PHARM D	✓	✓	✓	✓	✓	✓
45	380020507508	GUNASEKAR M	I.PHARM D	✓	✓	✓	✓	✓	✓
46	380020507509	KALAIKARUNA K	I.PHARM D	✓	✓	✓	✓	✓	✓
47	380020507510	KARTHIKEYAN K	I.PHARM D	✓	✓	✓	✓	✓	✓
48	380020507511	KEERTHI VASAN A	I.PHARM D	✓	✓	✓	✓	✓	✓
49	380020507512	KEERTHIVEL T S	I.PHARM D	✓	✓	✓	✓	✓	✓
50	561758010	ARUNPRAKASH S	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
51	561758011	AYYASAMY R	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
52	561758012	BALA GURU I T	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
53	561758013	CHANDRU D	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
54	561758014	DEEPA P	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
55	561758015	DEEPIKA R	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
56	561758016	DEVASHRI P B	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
57	561758017	DHARMASEELAN K	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
58	561758018	DHILEEP M	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
59	561758019	DINESHKUMAR B	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
60	561758020	DIVAKAR A	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
61	561758021	DIVYA K	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
62	561758022	ESWARAN N P	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓

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

**JKK MUNIRAJAH 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.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	ELECTROCHEMISTRY
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	02.06.2020-25.06.2020
VENUE	SEMINAR HALL

ANSWER ALL THE QUESTION:

DATE:25.06.2020

MULTIPLE CHOICE QUESTION

MARKS:25

1. A cathode and an anode are the most common components of an electrochemical cell. Which of the following claims about the cathode is correct?

- 1. Oxidation occurs at the cathode
- 2. Electrons move into the cathode
- 3. Usually denoted by a negative sign
- 4. s usually made up of insulating material

2. Which of the following claims about electrochemical cells is true?

- 1. Cell potential is an extensive property
- 2. Cell potential is an intensive property
- 3. he Gibbs free energy of an electrochemical cell is an intensive property
- 4. ibbs free energy is undefined for an electrochemical cell

3. Which of the following does not belong in the category of electrochemical cells?

- 1. Voltaic cell
- 2. Photovoltaic cell
- 3. lectrolytic cell
- 4. fuel Cell

4. Which of the following assertions about the main cell is correct?

- 1. An example of a primary cell is a mercury cell



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PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

2. An example of a primary cell is a nickel-cadmium storage cell

3. It electrode reactions can be reversed

4. It can be recharged

5. In a dry cell, which of the following is the electrolyte?

1. Potassium hydroxide

2. Sulphuric acid

3. Ammonium chloride

4. Manganese dioxide

6. Which of the following statements about a lead storage cell (or a lead-acid battery) is false?

1. It is a primary cell

2. The cathode is made up of lead(IV) oxide

3. The anode is made up of lead

4. The electrolyte used is an aqueous solution of sulphuric acid

7. The conductivity of electrolytic conductors is due to \_\_\_\_\_

1. Low of free mobile electrons

2. Movement of ions

3. Either movement of electrons or ions

4. Cannot be said

8. The process of transmitting electric current through an electrolyte's solution to decompose it is known as \_\_\_\_\_

1. Electrolyte

2. Electrode

3. Electrolysis

4. Electrochemical cell

9. In a fuel cell, which of the following can be utilized as a fuel?

1. Nitrogen

2. Argon

3. Hydrogen



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**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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4. Helium

10. Which of the following is given to a fuel cell's cathode?

1. Hydrogen

2. Nitrogen

3. Oxygen

4. Chlorine

11. Fused NaCl on electrolysis gives ..... on cathode.

1. Chlorine

2. Sodium

3. Sodium amalgam

4. Hydrogen

12. Fused NaCl on electrolysis gives ..... on cathode.

1. Chlorine

2. Sodium

3. Sodium amalgam

4. Hydrogen

13. Which of the following is a secondary cell?

1. Leclanche cell

2. Lead storage battery

3. Concentration cell

4. All of these

16. The time required for a current of 3 amp to decompose electrically 18 g of H<sub>2</sub>O is

1. 18 Hours

2. 36 Hours

3. 9 hours

4. 18 seconds

17. The emf of a dry cell is



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1. 1.08 volt

2. 1.5 volt

3. 1.05 volt

4. 1.8 volt

18. In solar cell \_\_\_\_\_

1. Photon Energy is converted into Heat Energy
2. Heat Energy is converted into Mechanical Energy
3. Solar Energy is converted into Kinetic Energy
4. Solar Energy is converted into Electrical Energy

19. Which one of the following solutions is not capable of conducting electricity?

1. Copper sulphate
2. Sodium chloride
3. Sugar
4. Sodium hydroxide

20. In the symbol of the electric cell, the thicker, shorter line represents the \_\_\_\_\_.

1. Ring terminal

2. Positive terminal

3. Negative terminal

4. Neutral terminal

21. Which of the metals listed in the options is the least reactive?

1. Gold

2. Iron

3. Copper

4. Magnesium

22. What are the gaseous products liberated at anode and cathode respectively when dilute aqueous solution of Sulphuric acid is electrolysed?

1.  $\text{SO}_2$ ,  $\text{H}_2$

2.  $\text{H}_2$ ,  $\text{SO}_2$

3.  $\text{H}_2$ ,  $\text{O}_2$

4.  $\text{O}_2$ ,  $\text{H}_2$



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23. Which compound, when dissolved in water, conducts electricity and forms a basic solution?

1. HCl

2.  $\text{CH}_3\text{COOH}$

3.  $\text{CH}_3\text{OH}$

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24. Which of the following is not a fuel cell?

1) PEM cell

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25. Who invented the first fuel cell?

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Dr. N. SENTHILKUMAR,  
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4. Which of the following assertions about the main cell is correct?

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- 2) Electrode
- 3) **Electrolysis**
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9. In a fuel cell, which of the following can be organized as a fuel?



  
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**ETHIRMEDU, KOMARAPALAYAM - 638 183.**  
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- 1) Nitrogen
- 2) Argon
- 3) **Hydrogen**
- 4) Helium

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- 1) Hydrogen
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---

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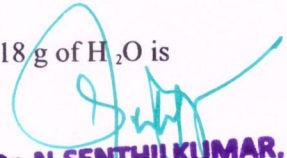
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**NAGARKKAVELI DISTRICT, TAMILNADU, INDIA**

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3) Copper

4) Magnesium



  
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22. What are the gaseous products liberated at anode and cathode respectively when dilute aqueous solution of Sulphuric acid is electrolysed?

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- 2).  $\text{H}_2$ ,  $\text{SO}_2$
- 3)  $\text{H}_2$ ,  $\text{O}_2$
- 4)  $\text{O}_2$ ,  $\text{H}_2$

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- 1) HCl
- 2)  $\text{CH}_3\text{COOH}$
- 3)  $\text{CH}_3\text{OH}$
- 4) **NaOH**

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- 1) PEM cell
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25. Who invented the first fuel cell?

- 1) Francis Bacon
- 2) Thomas Grubb
- 3) Leonard Niedrach
- 4) **William Grove**



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ADD ON COURSE	ELECTROCHEMISTRY
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	02.06.2020-25.06.2020
VENUE	SEMINAR HALL

## STUDENTS MARKSHEETS

S.N O	REG.NO	NAME OF THE STUDENTS	COURSES	MARKS SCOURE D	% MARK S
1	261120507506	KALPANA P	M.PHARM (PHARMACEUTICS) SEM-1	22	88%
2	261120507507	KAVYA S	M.PHARM (PHARMACEUTICS) SEM-1	24	96%
3	261120507508	KAYATHRI DEVI K	M.PHARM (PHARMACEUTICS) SEM-1	22	88%
4	261120507509	KIRUBHA HARI C	M.PHARM (PHARMACEUTICS) SEM-1	23	92%
5	261120507510	PANTHALARASA S	M.PHARM (PHARMACEUTICS) SEM-1	24	96%
6	261220507504	KAVIYARASU S	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-1	22	88%
7	261220507505	RAGAVI P	M.PHARM (PHARMACEUTICAL CHEMISTRY) SEM-1	21	84%
8	261320507505	KATHIRAVAN K N	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1	22	88%
9	261320507506	MAHESWARI V	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1	24	96%
10	261320507507	RAMKUMAR K	M.PHARM (PHARMACEUTICAL ANALYSIS) SEM-1	22	88%
11	261520507510	PRAVIN KUMAR N	M.PHARM (PHARMACY PRACTICE) SEM-1	24	96%

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PRINCIPAL

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			SEM-1		
12	26152050751 1	RABEEH P	M.PHARM (PHARMACY PRACTICE) SEM-1	22	88%
13	26152050751 2	SHAHANA K	M.PHARM (PHARMACY PRACTICE) SEM-1	23	92%
14	26152050751 3	SURESH MANUEL I	M.PHARM (PHARMACY PRACTICE) SEM-1	22	88%
15	26152050751 4	SWAMINATHEN V M	M.PHARM (PHARMACY PRACTICE) SEM-1	24	96%
16	26162050750 6	KAMAL G	M.PHARM (PHARMACOLOGY) SEM-1	23	92%
17	26162050750 7	KAMALAKANNAN M	M.PHARM (PHARMACOLOGY) SEM-1	24	96%
18	26162050750 8	KARTHIKA RAMESH	M.PHARM (PHARMACOLOGY) SEM-1	22	88%
19	26162050750 9	KRISHNAN R	M.PHARM (PHARMACOLOGY) SEM-1	21	84%
20	26162050751 0	LATHA S	M.PHARM (PHARMACOLOGY) SEM-1	23	92%
21	381510428	THIRU ARUL.S	VI.PHARM D	24	96%
22	381510429	THIRUGNANAM.T.S	VI.PHARM D	22	88%
23	381510430	YOGA KRISHNAN.S	VI.PHARM D	23	92%
24	381410418	PACHIYAPPAN M	VI.PHARM D	24	96%
25	381410410	HARISH M	V.PHARM D	25	100%
26	381410415	MOHAMED ADNAN P K	V.PHARM D	24	96%
27	381510402	AZAD V P	V.PHARM D	23	92%
28	381510422	SENAF K	V.PHARM D	22	88%
29	381710427	MUNEER T	IV.PHARM D	22	88%
30	381710428	NISSY ESTHER JOHN	IV.PHARM D	21	84%
31	381710429	SAMUEL BABU	IV.PHARM D	23	92%
32	381710430	NAIVIN D ALMEDA	IV.PHARM D	24	96%
33	381810426	PRAVEEN N	III.PHARM D	22	88%
34	381810427	RESHMA P VARGHESE	III.PHARM D	23	92%
35	381810429	SHAFRIN FATHIMA A S	III.PHARM D	24	96%
36	381810429	N THIRUMURUGAN	III.PHARM D	23	92%
37	381810430	VENKATESH A	III.PHARM D	23	92%
38	381910419	PRABHAT KUMAR GUPTA	II.PHARM D	22	88%
39	381910420	PRADESH C	II.PHARM D	21	84%
40	381910421	RAMYA G K	II.PHARM D	23	92%
41	381910422	SHANMUGAPRIYA D	II.PHARM D	22	88%
42	381910423	SILAMBARASAN M	II.PHARM D	24	96%
43	381910424	SOUNDHAR K	II.PHARM D	23	92%

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44	380020507507	GEHESH S V	I.PHARM D	22	88%
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## ADD ON COURSE FEEDBACK FORM

STUDENT NAME: KALPANA . P

DATE: 2/06/2020 to 25/06/2020

YEAR/ COURSE: N. PHARM (SEM-I)

NAME OF THE ADD ON COURSE: ELECTROCHEMISTRY

COURSE CODE: 20VAC002

DURATION: 32 HOURS

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 student's 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%

  
Dr. N.SENTHILKUMAR,  
PRINCIPAL

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

  
SIGNATURE



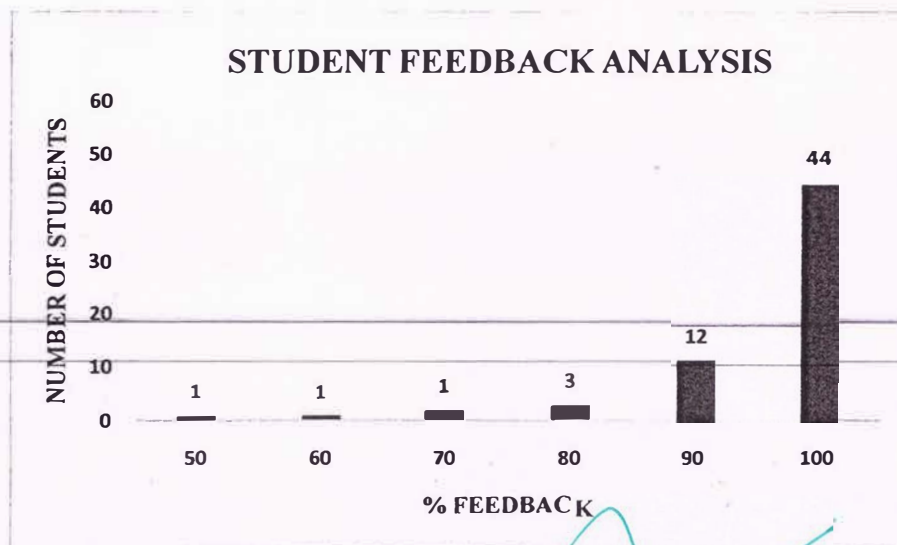


# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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](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>ELECTROCHEMISTRY</b>
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2020-2021
DATE	02.06.2020-25.06.2020
VENUE	SEMINAR HALL

## STUDENTS FEEDBACK ANALYSIS



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

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL 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.

KALPANA P

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

ELECTRO CHEMISTRY

Organised by the Department of Pharmaceutical Chemistry

on 25/06/2020

Dr. N. Senthilkumar,  
PRINCIPAL,

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

*D. Vignesh*  
COORDINATOR



*[Signature]*  
CONVENOR

*[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.