



# 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

|               |                          |
|---------------|--------------------------|
| ADD ON COURSE | QUANTUM CHEMISTRY        |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY |
| ACADEMIC YEAR | 2020-2021                |
| DATE          | 05.04.2021-15.04.2021    |
| VENUE         | SEMINAR HALL             |

## REPORT

### RESOURCE PERSONS:

1. **MR.R.VIJAYAMIRTHARAJM.PHARM,**  
VIGEPINCIPAL, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.

2. **MRS.B.ANBARASIM.PHARM,**  
ASSOCIATE PROFESSOR, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.

No. of students enrolled: 65

No.of students certified: 64

### Objective:

The objective of this value added quantum chemistry program provides the information about the QUANTUM CHEMISTRY. Value added program provides additional knowledge to the students other than their academic knowledge. Quantum chemistry were the highly advanced carbon materials study and to obtain knowledge on carbon nanotubes.

### Learning outcomes:

- Provides knowledge on Fullerenes
- Gives more idea on textures in carbon materials
- Devolps the industrial skills on synthesis of carbon nanotubes.

The students were actively participated in these course and gained knowledge on QUANTUM CHEMISTRY.

Programme  
Coordinator

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

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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

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REF.NO:JKKM/PG-PHARM.CHEM/REQ/2021/002

Date:02.04.2021

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 **05.04.2021 to 15.04.2021**. We wish to conduct a seminar regarding the **QUANTUM 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 **QUANTUM CHEMISTRY**. that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

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

*[Signature]*  
Dr. N. SENTHIL KUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
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## CIRCULAR

This is inform to the ALL PHARM.D, [I, III, V& VII - Pharm]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                       | Durati<br>on | Venue           | Resource Person                             |
|----------------------|--------------------------------|--------------|-----------------|---|
| QUANTUM<br>CHEMISTRY | 05.04.2021<br>to<br>15.04.2021 | 32<br>HRS    | SEMINAR<br>HALL | Mr.R.VijayAmirtharaj<br>&<br>Mrs.B.Anbarasi |

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. Myrathi*  
Programme  
Co-ordinator

*[Signature]*  
HOD

*[Signature]*  
Principal

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDEU, KOMARAPALAYAM - 638 183.  
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Dr. N.SENTHILKUMAR,  
PRINCIPAL

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|                      |                                 |
|----------------------|---------------------------------|
| <b>ADD ON COURSE</b> | <b>QUANTUM CHEMISTRY</b>        |
| <b>DEPARTMENT</b>    | <b>PHARMACEUTICAL CHEMISTRY</b> |
| <b>ACADEMIC YEAR</b> | <b>2020-2021</b>                |
| <b>DATE</b>          | <b>05.04.2021-15.04.2021</b>    |
| <b>VENUE</b>         | <b>SEMINAR HALL</b>             |

## SYLLABUS

| DATE       | HOURS | TOPIC             | SUB TOPICS           | RESOURCE PERSON       |
|------------|-------|-------------------|----------------------|-----------------------|
| 05.04.2021 | 6 hrs | QUANTUM CHEMISTRY | INTRODUCTION         | MR.R.VIJAY AMIRTHARAJ |
| 07.04.2021 | 6 hrs |                   | ELECTRONIC STRUCTURE |                       |
| 09.04.2021 | 6 hrs |                   | CHEMICAL DYNAMICS    |                       |
| 11.04.2021 | 4 hrs |                   | MOLECULAR MODELING   | MRS.B.ANBARASI        |
| 13.04.2021 | 6 hrs |                   | THEORETICAL PHYSICS  |                       |
| 15.04.2021 | 4 hrs |                   | CONCLUSION           |                       |



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

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



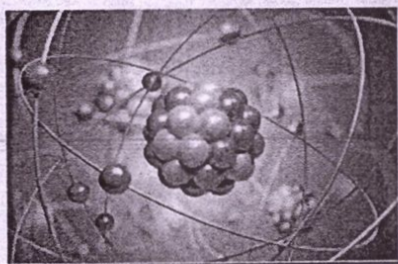
## BROCHURE



# JKKMMRF'S ANNAI JKK SAMPOORNIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM.

DEPARTMENT OF PHARMACEUTICAL  
CHEMISTRY

TOPIC: QUANTUM CHEMISTRY



VENUE: SEMINAR HALL

DATE: 05.04.2021 TO 15.04.2021

TIME: 9.00 am to 6.00 pm



### **COURSE SCHEDULE:**

- INTRODUCTION
- ELECTRONIC STRUCTURE, VALENCE BOND
- MOLECULAR ORBITAL, DENSITY FUNCTIONAL THEORY
- CHEMICAL DYNAMICS
- ATOMIC PHYSICS
- LIST OF QUANTUM CHEMISTRY, SOLID STATE PHYSICS

### **Resource person:**

**MR.R.VIJAY AMIRTHARAJ, M.Pharm.**

Vice Principal,

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



**MRS.B.ANBARASI, M.Pharm.,**

Associate Professor,

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



**Dr. N.SENTHILKUMAR,  
PRINCIPAL**

**JKK MURUGESAN MEDICAL RESEARCH FOUNDATION  
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| <b>ADD ON COURSE</b> | <b>QUANTUM CHEMISTRY</b>        |
| <b>DEPARTMENT</b>    | <b>PHARMACEUTICAL CHEMISTRY</b> |
| <b>ACADEMIC</b>      | <b>2020-2021</b>                |
| <b>YEAR DATE</b>     | <b>05.04.2021-15.04.2021</b>    |
| <b>VENUE</b>         | <b>SEMINAR HALL</b>             |

## LIST OF STUDENTS ENROLLED FOR THE COURSE

| S.NO | REG.NO       | NAME OF THE STUDENTS              | COURSE            |
|------|--------------|-----------------------------------|-------------------|
| 1    | 380020507513 | KESTIN K SABU                     | I.PHARM D         |
| 2    | 380020507514 | KIRTHIGA A                        | I.PHARM D         |
| 3    | 381910402    | ALSHADA SHARF                     | II.PHARM D        |
| 4    | 381910403    | ANCY B                            | II.PHARM D        |
| 5    | 381910404    | ARCHANA B                         | II.PHARM D        |
| 6    | 381910405    | BALAJI S                          | II.PHARM D        |
| 7    | 381810401    | AAMINA HANEEF                     | III.PHARM D       |
| 8    | 381810402    | ABDUL BASITH M                    | III.PHARM D       |
| 9    | 381810404    | ABISHEK P                         | III.PHARM D       |
| 10   | 381810405    | ALWIN BABYKUTTY ALEX              | III.PHARM D       |
| 11   | 381810406    | ANAGHA S                          | III.PHARM D       |
| 12   | 561758027    | HARISH SRIDHAR S                  | B.PHARM [SEM-VII] |
| 13   | 561758028    | HARSHA VARDHINEE K                | B.PHARM [SEM-VII] |
| 14   | 381710422    | AHAMMED KABEER                    | IV.PHARM D        |
| 15   | 381710423    | AMRUTHA M.K                       | IV.PHARM D        |
| 16   | 381710424    | CHANDNA THERASA<br>MATHEW         | IV.PHARM D        |
| 1    |              | Dr. N.SENTHILKUNIAH,<br>PRINCIPAL | DEBORAH           |

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|    |              |                   |                   |
|----|--------------|-------------------|-------------------|
| 18 | 381710426    | HELENN A M        | IV.PHARM D        |
| 19 | 381610409    | FEBA SHAJI        | V.PHARM D         |
| 20 | 381610410    | HARIHARAN V       | V.PHARM D         |
| 21 | 381510401    | ATHIRA RAJKUMAR   | VI.PHARM D        |
| 22 | 381510404    | DILEEP.R          | VI.PHARM D        |
| 23 | 381510405    | HEERA.V           | VI.PHARM D        |
| 24 | 560020507501 | ABDUR RAHMAN M    | B.PHARM [SEM-I]   |
| 25 | 560020507502 | ARAVINDHAN S      | B.PHARM [SEM-I]   |
| 26 | 560020507503 | ARIVAZHAGAN A *   | B.PHARM [SEM-I]   |
| 27 | 560020507504 | ARULKUMAREN K K * | B.PHARM [SEM-I]   |
| 28 | 560020507505 | ARULPRAKASH A *   | B.PHARM [SEM-I]   |
| 29 | 560020507506 | ARUN A *          | B.PHARM [SEM-I]   |
| 30 | 560020507507 | ASHA SANDHIYA A   | B.PHARM [SEM-I]   |
| 31 | 560020507525 | DIVYA P           | B.PHARM [SEM-I]   |
| 32 | 560020507526 | GOKUL RAJ M       | B.PHARM [SEM-I]   |
| 33 | 560020507527 | GOKULAKANNAN P    | B.PHARM [SEM-I]   |
| 34 | 560020507528 | GOWRI G           | B.PHARM [SEM-I]   |
| 35 | 560020507529 | GOWTHAM J *       | B.PHARM [SEM-I]   |
| 36 | 560020507530 | GOWTHAMAN K *     | B.PHARM [SEM-I]   |
| 37 | 560020507531 | HARIHARAN K       | B.PHARM [SEM-I]   |
| 38 | 560020507532 | HARISHRAGUL G     | B.PHARM [SEM-I]   |
| 39 | 560020507533 | HARITHRA P S      | B.PHARM [SEM-I]   |
| 40 | 560020507534 | HARIVARMAN P *    | B.PHARM [SEM-I]   |
| 41 | 560020507535 | HEMANATH N        | B.PHARM [SEM-I]   |
| 42 | 561958001    | ABDUL VAHID       | B.PHARM [SEM-III] |
| 43 | 561958002    | AJITH KUMAR K *   | B.PHARM [SEM-III] |
| 44 | 561958003    | ANAND M *         | B.PHARM [SEM-III] |
| 45 | 561958004    | ANAND R           | B.PHARM [SEM-III] |
| 46 | 561958005    | ANBARASAN S       | B.PHARM [SEM-III] |
| 47 | 561958006    | ANUSHIYA D D      | B.PHARM [SEM-III] |
| 48 | 561958007    | ARUN M *          | B.PHARM [SEM-III] |
| 49 | 561958008    | ARUNA P *         | B.PHARM [SEM-III] |
| 50 | 561958009    | ASHOKMOHAN J      | B.PHARM [SEM-III] |
| 51 | 561758078    | SATHISHKUMAR M    | B.PHARM [SEM-V]   |
| 52 | 561758089    | SURESHMANI S      | B.PHARM [SEM-V]   |
| 53 | 561758095    | VASANTH M         | B.PHARM [SEM-V]   |
| 54 | 561858001    | ACHUKA LORRAINE   | B.PHARM [SEM-V]   |
| 55 | 561858002    | K.V. SHAM         | B.PHARM [SEM-V]   |


Dr. N.SENTHILKUMAR,  
PRINCIPAL

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|    |           |                |                   |
|----|-----------|----------------|-------------------|
| 56 | 561858003 | ARCHANA P      | B.PHARM [SEM-V]   |
| 57 | 561858004 | BARATH M       | B.PHARM [SEM-V]   |
| 58 | 561858006 | BHARATH G      | B.PHARM [SEM-V]   |
| 59 | 561858007 | BHAVADHARANI G | B.PHARM [SEM-V]   |
| 60 | 561858008 | BOOPATHI K     | B.PHARM [SEM-V]   |
| 61 | 561858009 | CHANDRASEKAR R | B.PHARM [SEM-V]   |
| 62 | 561858010 | DEEBAK K C     | B.PHARM [SEM-V]   |
| 63 | 561758001 | AAKASH S       | B.PHARM [SEM-VII] |
| 64 | 561758002 | ABINAYA V      | B.PHARM [SEM-VII] |
| 65 | 561758003 | AJAY KUMAR M   | B.PHARM [SEM-VII] |

  
**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**  
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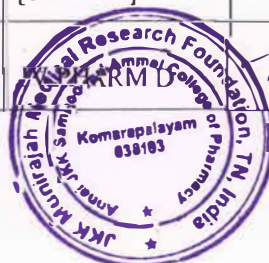
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| DATE          | 05.04.2021-15.04.2021    |
| VENUE         | SEMINAR HALL             |

## STUDENT ATTENDANCE FOR THE COURSE

| S.NO | REG.NO       | NAME OF THE STUDENTS       | COURSE               | 5/4 | 7/4 | 9/4 | 11/4 | 13/4 | 15/4 |
|------|--------------|----------------------------|----------------------|-----|-----|-----|------|------|------|
| 1    | 380020507513 | KESTIN K SABU              | I.PHARM D            | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 2    | 380020507514 | KIRTHIGA A                 | I.PHARM D            | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 3    | 381910402    | ALSHADA SHARF              | II.PHARM D           | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 4    | 381910403    | ANCY B                     | II.PHARM D           | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 5    | 381910404    | ARCHANA B                  | II.PHARM D           | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 6    | 381910405    | BALAJI S                   | II.PHARM D           | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 7    | 381810401    | AAMINA HANEEF              | III.PHARM D          | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 8    | 381810402    | ABDUL BASITH M             | III.PHARM D          | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 9    | 381810404    | ABISHEK P                  | III.PHARM D          | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 10   | 381810405    | ALWIN<br>BABYKUTTY<br>ALEX | III.PHARM D          | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 11   | 381810406    | ANAGHA S                   | III.PHARM D          | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 12   | 561758027    | HARISH SRIDHAR<br>S        | B.PHARM<br>[SEM-VII] | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 13   | 561758028    | HARSHA<br>VARDHINEE K      | B.PHARM<br>[SEM-VII] | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |
| 14   |              | AHAMMED<br>KABEER          | B.PHARM<br>[SEM-VII] | ✓   | ✓   | ✓   | ✓    | ✓    | ✓    |

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|    |              |                              |                    |   |   |   |   |   |   |
|----|--------------|------------------------------|--------------------|---|---|---|---|---|---|
| 15 | 381710423    | AMRUTHA M.K                  | IV.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16 | 381710424    | CHANDNA<br>THERASA<br>MATHEW | IV.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17 | 381710425    | DEBORAH ROSE                 | IV.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18 | 381710426    | HELENN M                     | IV.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19 | 381610409    | FEBA SHAJI                   | V.PHARM D          | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20 | 381610410    | HARIHARAN V                  | V.PHARM D          | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 21 | 381510401    | ATHIRA<br>RAJKUMAR           | VI.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22 | 381510404    | DILEEP.R                     | VI.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 23 | 381510405    | HEERA.V                      | VI.PHARM D         | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24 | 560020507501 | ABDUR RAHMAN M               | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 25 | 560020507502 | ARAVINDHAN S                 | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26 | 560020507503 | ARIVAZHAGAN A *              | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 27 | 560020507504 | ARULKUMAREN K K<br>*         | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | 560020507505 | ARULPRAKASH A *              | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 29 | 560020507506 | ARUN A *                     | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | 560020507507 | ASHA SANDHIYA A              | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | 560020507525 | DIVYA P                      | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 32 | 560020507526 | GOKUL RAJ M                  | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33 | 560020507527 | GOKULAKANNAN P               | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 34 | 560020507528 | GOWRI G                      | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35 | 560020507529 | GOWTHAM J *                  | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 36 | 560020507530 | GOWTHAMAN K *                | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 37 | 560020507531 | HARIHARAN K                  | B.PHARM<br>[SEM-I] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
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**ETHIRVEDU, KOMARAPALAYAM - 638 183.**  
**MADHURAI DISTRICT, TAMILNADU, INDIA.**





|    |              |                             |                      |   |   |   |   |   |   |
|----|--------------|-----------------------------|----------------------|---|---|---|---|---|---|
|    |              |                             | [SEM-I]              |   |   |   |   |   |   |
| 38 | 560020507532 | HARISHRAGUL G               | B.PHARM<br>[SEM-I]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 39 | 560020507533 | HARITHRA P S                | B.PHARM<br>[SEM-I]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 40 | 560020507534 | HARIVARMAN P *              | B.PHARM<br>[SEM-I]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 41 | 560020507535 | HEMANATH N                  | B.PHARM<br>[SEM-I]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 42 | 561958001    | ABDUL VAHID                 | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 43 | 561958002    | AJITH KUMAR K *             | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 44 | 561958003    | ANAND M *                   | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 45 | 561958004    | ANAND R                     | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 46 | 561958005    | ANBARASAN S                 | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 47 | 561958006    | ANUSHIYA D D                | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 48 | 561958007    | ARUN M *                    | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 49 | 561958008    | ARUNA P *                   | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50 | 561958009    | ASHOKMOHAN J                | B.PHARM<br>[SEM-III] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 51 | 561758078    | SATHISHKUMAR M              | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 52 | 561758089    | SURESHMANI S                | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 53 | 561758095    | VASANTH M                   | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 54 | 561858001    | ACHUKA LORRAINE<br>KWAMBOKA | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 55 | 561858002    | AKILESH M                   | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 56 | 561858003    | ARCHANA P                   | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Dr. N.SENTHILKUMAR,  
561858003  
PRINCIPAL

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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



|    |           |                |                      |   |   |   |   |   |   |
|----|-----------|----------------|----------------------|---|---|---|---|---|---|
| 57 | 561858004 | BARATH M       | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 58 | 561858006 | BHARATH G      | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 59 | 561858007 | BHAVADHARANI G | B.PHARM[SEM-<br>V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 60 | 561858008 | BOOPATHI K     | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 61 | 561858009 | CHANDRASEKAR R | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 62 | 561858010 | DEEBAK K C     | B.PHARM<br>[SEM-V]   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 63 | 561758001 | AAKASH S       | B.PHARM<br>[SEM-VII] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 64 | 561758002 | ABINAYA V      | B.PHARM<br>[SEM-VII] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

  
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**PRINCIPAL**

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**KAMBAKKAL DISTRICT, TAMILNADU, INDIA.**







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

Ethirnedu, 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 | QUANTUM CHEMISTRY        |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY |
| ACADEMIC YEAR | 2020-2021                |
| DATE          | 05.04.2021-15.04.2021    |
| VENUE         | SEMINAR HALL             |

NAME: KIROTHIGA . A

COURSE : I- PHARM.D

ANSWER ALL THE QUESTION:

DATE:15.04.2021

MULTIPLE CHOICE QUESTION

MARKS:20

Q1.Choose the wrong statement about the spin of an electron, according to quantum mechanics:

- a) It is related to intrinsic angular momentum.
- (b) Spin is the rotation fan electron about its own axis.
- c) Value of the spin quantum number of electron must not be 1.
- d)+1/2 value of spin quantum number represent supspin.

Q2.The Quantum Mechanical Model of the atom was proposed by:

- a) Louis de Broglie
- (b) Erwin Schrodinger
- c) Neil Bohr
- d) Werner Heisenberg

Q3.The wavelength of the matter waves is independent of:

- a) Mass
- b) Velocity
- (c) Charge
- d) Momentum

  
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PRINCIPAL

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





Q4. Assuming the velocity to be the same, which particle is having longest wave length

- a) An electron
- b) A proton
- c) A neutron
- d) An  $\alpha$ -particle

Q5. The uncertainty principle states that the error in measurement is due to-

- a) Dual nature of particles
- b) Due to the small size of particles
- c) Due to large size of particles
- d) Due to error in measuring

instrument

Q6. What is the shape the orbital, whose "l" is 1?

- a) Spherical
- b) Dumbbell
- c) Double dumbbell
- d) Complex

Q7. What is the magnetic quantum number of the orbital  $2p_z$ ?

- a) 1
- b)  $\pm 1$
- c) -1
- d) 0

Q8. Total number of nodes for 3d orbital is \_\_\_\_\_

- a) 3
- b) 2
- c) 1
- d) 0

Q9. According to the Aufbau's principle, which of the following orbitals should be filled first?

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

Q10. Not all electrons have the same quantum numbers.

- a) True
- b) False



  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



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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 | QUANTUM CHEMISTRY        |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY |
| ACADEMIC YEAR | 2020-2021                |
| DATE          | 05.04.2021-15.04.2021    |
| VENUE         | SEMINAR HALL             |

ANSWER ALL THE QUESTION:

DATE:15.04.2021

MULTIPLE CHOICE QUESTION

MARKS:20

Q1.Choose the wrong statement about the spin of an electron, according to quantum mechanics:

- a) It is related to intrinsic angular momentum.
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- a) Louis de Broglie
- b) Erwin Schrodinger
- c) Neil Bohr
- d) Werner Heisenberg

Q3.The wavelength of the matter waves is independent of:

- a) Mass
- b) Velocity
- c) Charge
- d) Momentum



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

Q4. Assuming the velocity to be the same, which particle is having longest wave length

- a) An electron
- b) A proton
- c) A neutron
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Q5. The uncertainty principle states that the error in measurement is due to-

- a) Dual nature of particles
- b) Due to the small size of particles
- c) Due to large size of particles
- d) Due to error in measuring

instrument

Q6. What is the shape of the orbital, whose  $l$  is 1?

- a) Spherical
- b) Dumbbell
- c) Double dumbbell
- d) Complex

Q7. What is the magnetic quantum number of the orbital  $l = 2$   $m_l = 0$ ?

- a) 1
- b)  $\pm 1$
- c) -1
- d) 0

Q8. Total number of nodes for 3d orbital is \_\_\_\_\_

- a) 3
- b) 2
- c) 1
- d) 0


Q9. According to the Aufbau principle, which of the following orbitals should be filled first?

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

Q10. Not all electrons have the same four quantum numbers.

- a) True
- b) False



  
**Dr. N. Senthilkumar,**  
**PRINCIPAL**  
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**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 | QUANTUM CHEMISTRY        |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY |
| ACADEMIC YEAR | 2020-2021                |
| DATE          | 05.04.2021-15.04.2021    |
| VENUE         | SEMINAR HALL             |

## STUDENTS MARK SHEETS

| S.NO | REG.NO       | NAME OF THE STUDENTS    | COURSE            | MARKS SCORED | %MARKS |
|------|--------------|-------------------------|-------------------|--------------|--------|
| 1    | 380020507513 | KESTIN K SABU           | I.PHARM D         | 17           | 85%    |
| 2    | 380020507514 | KIRTHIGA A              | I.PHARM D         | 19           | 95%    |
| 3    | 381910402    | ALSHADA SHARF           | II.PHARM D        | 18           | 90%    |
| 4    | 381910403    | ANCY B                  | II.PHARM D        | 16           | 80%    |
| 5    | 381910404    | ARCHANA B               | II.PHARM D        | 16           | 80%    |
| 6    | 381910405    | BALAJI S                | II.PHARM D        | 18           | 90%    |
| 7    | 381810401    | AAMINA HANEEF           | III.PHARM D       | 18           | 90%    |
| 8    | 381810402    | ABDUL BASITH M          | III.PHARM D       | 19           | 95%    |
| 9    | 381810404    | ABISHEK P               | III.PHARM D       | 17           | 85%    |
| 10   | 381810405    | ALWIN BABYKUTTY<br>ALEX | III.PHARM D       | 19           | 95%    |
| 11   | 381810406    | ANAGHA S                | III.PHARM D       | 20           | 100%   |
| 12   | 561758027    | HARISH SRIDHAR S        | B.PHARM [SEM-VII] | 18           | 90%    |
| 13   | 561758028    | HARSHA<br>VARDHINEE K   | B.PHARM [SEM-VII] | 17           | 85%    |
| 14   | 561758029    | AHAMMED K               | IV.PHARM D        | 19           | 95%    |
| 15   | 561758030    | AMRUTHA                 | IV.PHARM D        | 18           | 90%    |

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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



|    |              |                           |                     |    |     |
|----|--------------|---------------------------|---------------------|----|-----|
| 16 | 381710424    | CHANDNA THERASA<br>MATHEW | IV.PHARM D          | 19 | 95% |
| 17 | 381710425    | DEBORAH ROSE              | IV.PHARM D          | 18 | 90% |
| 18 | 381710426    | HELENN M                  | IV.PHARM D          | 16 | 80% |
| 19 | 381610409    | FEBA SHAJI                | V.PHARM D           | 17 | 85% |
| 20 | 381610410    | HARIHARAN V               | V.PHARM D           | 18 | 90% |
| 21 | 381510401    | ATHIRA RAJKUMAR           | VI.PHARM D          | 19 | 95% |
| 22 | 381510404    | DILEEP.R                  | VI.PHARM D          | 19 | 95% |
| 23 | 381510405    | HEERA.V                   | VI.PHARM D          | 18 | 90% |
| 24 | 560020507501 | ABDUR RAHMAN M            | B.PHARM [SEM-<br>I] | 17 | 85% |
| 25 | 560020507502 | ARAVINDHAN S              | B.PHARM [SEM-<br>I] | 16 | 80% |
| 26 | 560020507503 | ARIVAZHAGAN A *           | B.PHARM [SEM-<br>I] | 17 | 85% |
| 27 | 560020507504 | ARULKUMAREN K K *         | B.PHARM [SEM-<br>I] | 18 | 90% |
| 28 | 560020507505 | ARULPRAKASH A *           | B.PHARM [SEM-<br>I] | 18 | 90% |
| 29 | 560020507506 |                           | B.PHARM [SEM-<br>I] | 19 | 95% |
| 30 | 560020507507 | ASHA SANDHIYA A           | B.PHARM [SEM-<br>I] | 17 | 85% |
| 31 | 560020507525 | DIVYA P                   | B.PHARM [SEM-<br>I] | 16 | 80% |
| 32 | 560020507526 | GOKUL RAJ M               | B.PHARM [SEM-<br>I] | 17 | 85% |
| 33 | 560020507527 | GOKULAKANNAN P            | B.PHARM [SEM-<br>I] | 18 | 90% |
| 34 | 560020507528 | GOWRI G                   | B.PHARM [SEM-<br>I] | 18 | 90% |
| 35 | 560020507529 | GOWTHAM J *               | B.PHARM [SEM-<br>I] | 19 | 95% |
| 36 | 560020507530 | GOWTHAMAN K *             | B.PHARM [SEM-<br>I] | 17 | 85% |
| 37 | 560020507531 | HARIHARAN K               | B.PHARM [SEM-<br>I] | 19 | 95% |
| 38 | 560020507532 | HARISHRAGUL G             | B.PHARM [SEM-<br>I] | 17 | 85% |

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NAMAKKAL DISTRICT. TAMILNADU. INDIA.





|    |              |                          |                   |    |     |
|----|--------------|--------------------------|-------------------|----|-----|
| 39 | 560020507533 | HARITHRA P S             | B.PHARM [SEM-I]   | 16 | 80% |
| 40 | 560020507534 | HARIVARMAN P *           | B.PHARM [SEM-I]   | 17 | 85% |
| 41 | 560020507535 | HEMANATH N               | B.PHARM [SEM-I]   | 18 | 90% |
| 42 | 561958001    | ABDUL VAHID              | B.PHARM [SEM-III] | 19 | 95% |
| 43 | 561958002    | AJITH KUMAR K *          | B.PHARM [SEM-III] | 17 | 85% |
| 44 | 561958003    | ANAND M *                | B.PHARM [SEM-III] | 18 | 90% |
| 45 | 561958004    | ANAND R                  | B.PHARM [SEM-III] | 19 | 95% |
| 46 | 561958005    | ANBARASAN S              | B.PHARM [SEM-III] | 17 | 85% |
| 47 | 561958006    | ANUSHIYA D D             | B.PHARM [SEM-III] | 18 | 90% |
| 48 | 561958007    | ARUN M *                 | B.PHARM [SEM-III] | 19 | 95% |
| 49 | 561958008    | ARUNA P *                | B.PHARM [SEM-III] | 17 | 85% |
| 50 | 561958009    | ASHOKMOHAN J             | B.PHARM [SEM-III] | 16 | 80% |
| 51 | 561758078    | SATHISHKUMAR M           | B.PHARM [SEM-V]   | 18 | 90% |
| 52 | 561758089    | SURESHMANI S             | B.PHARM [SEM-V]   | 19 | 95% |
| 53 | 561758095    | VASANTH M                | B.PHARM [SEM-V]   | 17 | 85% |
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**ETHIRAMEDU, KOMBARAPALAYAM - 638 183.**  
**KANNIYAKUMAR DISTRICT, TAMILNADU, INDIA.**



|    |           |                          |                   |    |     |
|----|-----------|--------------------------|-------------------|----|-----|
| 42 | 561958001 | ABDUL VAHID              | B.PHARM [SEM-III] | 19 | 95% |
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|    |           |            |                   |    |     |
|----|-----------|------------|-------------------|----|-----|
|    |           |            | V]                | 17 | 85% |
| 62 | 561858010 | DEEBAK K C | B.PHARM [SEM-V]   | 17 | 85% |
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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 FEEDBACK FORM

STUDENT NAME: KIRTHIGA . A

DATE: 15.04.2021

YEAR/ COURSE: I - PHARM D

NAME OF THE ADD ON COURSE: QUANTUM CHEMISTRY

COURSE CODE: 20VAC008

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 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

  
SIGNATURE



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 ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

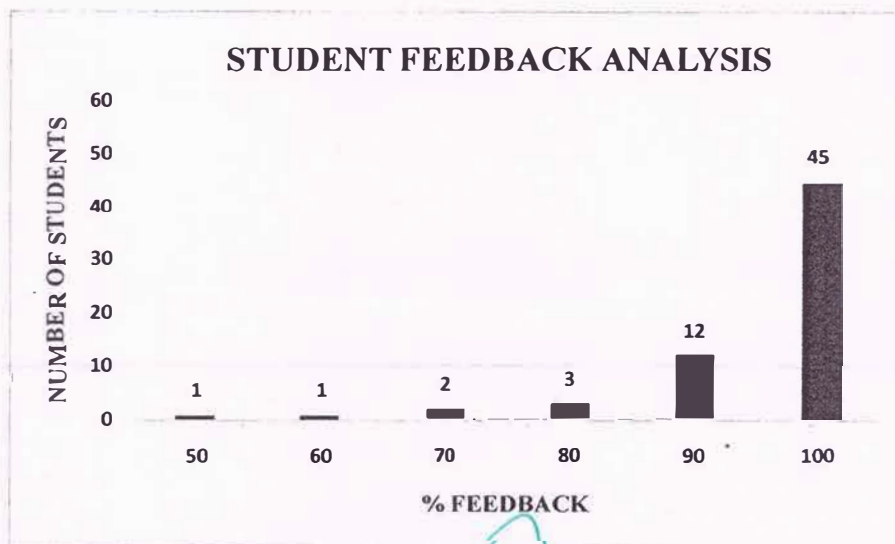
Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.

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|               |                          |
|---------------|--------------------------|
| ADD ON COURSE | QUANTUM CHEMISTRY        |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY |
| ACADEMIC      | 2020-2021                |
| YEAR DATE     | 05.04.2021-15.04.2021    |
| VENUE         | SEMINAR HALL             |

## STUDENTS FEEDBACK ANALYSIS



*Dr. N. Senthilkumar*  
**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.

KIRTHIGA A

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

QUANTUM CHEMISTRY

Organised by the Department of Pharmaceutical Chemistry

on 15/04/2021

R. Myrathi  
COORDINATOR



[Signature]

**CONVENOR** DR. SENTHILKUMAR,  
PRINCIPAL,

**DR. N. SENTHILKUMAR**  
PRINCIPAL

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