



# 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

|                      |  |
|----------------------|--|
| <b>ADDONCOURSE</b>   | <b>PHOTOCATALYSIS IN 3D PRINTING .</b> |
| <b>DEPARTMENT</b>    | <b>PHARMACEUTICAL CHEMISTRY</b>        |
| <b>ACADEMIC YEAR</b> | <b>2021-2022</b>                       |
| <b>DATE</b>          | <b>03.01.2022-25.01.2022</b>           |
| <b>VENUE</b>         | <b>SEMINARHALL</b>                     |

## REPORT

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

ASSOCIATE PROFESSOR,

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

ASSOCIATE PROFESSOR,

**No.ofstudentsenrolled:65**

**No. of students certified:59**

### **Objective:**

The objective of this value added **PHOTOCATALYSIS IN 3D PRINTING** program explains the students how to write a good research paper. It helps the students to

### **Learning outcomes:**

- Develops industrial skills on spectroscopic techniques

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

**R. Vigneshwari**  
Programme co-ordinator

**HOD**

**Principal**

**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  
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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,

**Sub: Letter for requesting Permission to Conduct an ADD ON COURSE Reg:-**

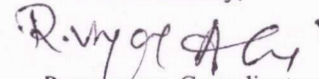
We Are writing this letter to request permission to conduct a seminar in the **SEMINAR HALL** on **03.01.2022 to 25.01.2022**. We wish to conduct a seminar regarding the **PHOTOCATALYSIS IN 3D PRINTING** . We believe this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about **PHOTOCATALYSIS IN 3D PRINTING** that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,

Yours sincerely,

  
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.

Dr. N. SENTHILKUMAR,  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
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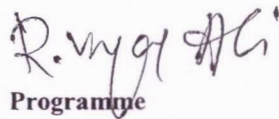
## CIRCULAR

This is inform to the ALL PHARM.D & B.PHARM (SEM-I,III &V) Students that the following value addedcourse 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:

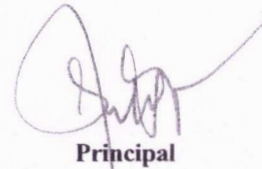
| Course Name                      | Schedule                    | Duration | Venue        | Resource Person                    |
|----------------------------------|-----------------------------|----------|--------------|------------------------------------|
| PHOTOCATALYSIS<br>IN 3D PRINTING | 03.01.2022 to<br>25.01.2022 | 30 HRS   | SEMINAR HALL | Dr. M. Chitra<br>&<br>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

  
HOD

  
Principal

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

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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**Dr. N.SENTHILKUMAR,  
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|               |                               |
|---------------|-------------------------------|
| ADD ON COURSE | PHOTOCATALYSIS IN 3DPRINTING. |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY      |
| ACADEMIC YEAR | 2021-2022                     |
| DATE          | 03.01.2022-25.01.2022         |
| VENUE         | SEMINARHALL                   |

## SYLLABUS

| DATE       | HOURS | TOPIC                           | SUBTOPICS                    | RESOURCEPERSON |
|------------|-------|---------------------------------|------------------------------|----------------|
| 03.01.2022 | 5 hrs | PHOTOCATALYSIS<br>IN 3DPRINTING | INTRODUCTION                 | Dr.M.CHITRA    |
| 07.01.2022 | 5 hrs |                                 | PHOTOCATALYSIS               |                |
| 12.01.2022 | 5 hrs |                                 | HOMOGENEOUS<br>CATALYSIS     |                |
| 18.01.2022 | 5 hrs |                                 | HETEROGENEOUS<br>CATALYSIS   | DR.A.CHITRA    |
| 22.01.2022 | 5 hrs |                                 | CERAMICBASED3DP<br>RINTING   |                |
| 25.01.2022 | 5 hrs |                                 | SEWAGE<br>WATERTREATM<br>ENT |                |

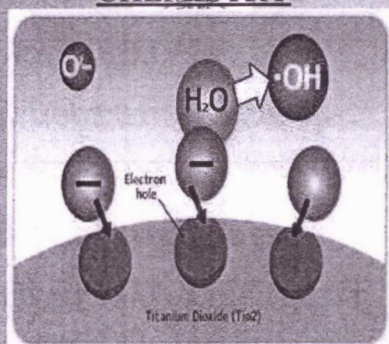


  
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## BROCHURE

### DEPARTMENT OF PHARMACEUTICAL CHEMISTRY



### TOPIC: PHOTO CATALYSIS IN 3D PRINTING

VENUE: SEMINAR HALL

DATE: 03.01.2022 TO 25.01.2022

TIME: 9.00 am to 6.00 pm



### COURSE SCHEDULE:

- INTRODUCTION
- PHOTOCATALYSIS
- HOMOGENEOUS CATALYSIS
- HETEROGENEOUS CATALYSIS
- CERAMIC BASED 3D PRINTING
- SEWAGE WATER TREATMENT

### Resource person:

**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.



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| VENUE         | SEMINARHALL                     |

## LIST OF STUDENTS ENROLLED FOR THE COURSE

| S.NO | REG.NO                  | NAME OF THE STUDENT      | COURSE     | SIGNATURE                |
|------|-------------------------|--------------------------|------------|--------------------------|
| 1    | Pharm D/275/<br>2021-22 | SUHITHA SREEM<br>M(CBSE) | I.PHARMD   | <i>Suhitha</i>           |
| 2    | Pharm D/276/<br>2021-22 | THIRUMALAIVASAN<br>V     | I.PHARMD   | <i>Thirumal</i>          |
| 3    | Pharm D/277/<br>2021-22 | THIRUSELVAMC             | I.PHARMD   | <i>Thiruselvam</i>       |
| 4    | Pharm D/278/<br>2021-22 | USMAANA                  | I.PHARMD   | <i>Usmaana</i>           |
| 5    | 380020507522            | SABARINATHANA            | II.PHARMD  | <i>Sabarina</i>          |
| 6    | 380020507523            | SHEPHIASS                | II.PHARMD  | <i>Shephias</i>          |
| 7    | 380020507524            | SHYLAI                   | II.PHARMD  | <i>Shylai</i>            |
| 8    | 380020507525            | SRINITHICG               | II.PHARMD  | <i>Srinithi</i>          |
| 9    | 380020507526            | SURYAR                   | II.PHARMD  | <i>Suryar</i>            |
| 10   | 381910409               | GODWINS                  | III.PHARMD | <i>Godwin</i>            |
| 11   | 381910410               | JACKSONSELVINY           | III.PHARMD | <i>Jackson</i>           |
| 12   | 381910411               | JAYAPRIYAN               | III.PHARMD | <i>Jayapriyan</i>        |
| 13   | 381910413               | JEEVITHAM                | III.PHARMD | <i>Jeevitham</i>         |
| 14   | 381810401               | AAMINAHANEEF             | IV.PHARMD  | <i>Aaminahaneef</i>      |
| 15   | 381810402               | ABDULBASITHM             | IV.PHARMD  | <i>Abdulbasithm</i>      |
| 16   | 381810404               | ABISHEKP                 | IV.PHARMD  | <i>Abishekp</i>          |
| 17   | 381710415               | RAGHULG                  | V.PHARMD   | <i>Raghulg</i>           |
| 18   | 381710416               | SHANGEETHAS              | V.PHARMD   | <i>Shangeethas</i>       |
| 19   | 381710417               | SUDHARSANV               | V.PHARMD   | <i>Sudharsanv</i>        |
| 20   | 381710418               | SULIMANB                 | V.PHARMD   | <i>Sulimanb</i>          |
| 21   | 381710419               | TAMILSELVAN S            | V.PHARMD   | <i>Tamilselvan</i>       |
| 22   | 381610401               | AARTHYP                  | VI.PHARMD  | <i>Aarthyp</i>           |
| 23   | 381610402               | AKSHARARAJU              | VI.PHARMD  | <i>Akshararaju</i>       |
| 24   | 381610403               | ALEXY                    | VI.PHARMD  | <i>Alexy</i>             |
|      | 381610404               | ASSISTANT STANLEY        | VI.PHARMD  | <i>Assistant Stanley</i> |

Dr. N. SENILKUMAR  
PRINCIPAL



|    |                  |                 |                 |               |
|----|------------------|-----------------|-----------------|---------------|
| 26 | 381610405        | BALAMURUGANV    | VI.PHARMD       | Bala          |
| 27 | BPY/1760/2021-22 | HARIBHARATHI S  | B.PHARM SEM-I   | Harib         |
| 28 | BPY/1761/2021-22 | HARIDHARSHINIM  | B.PHARM SEM-I   | Haridharshini |
| 29 | BPY/1762/2021-22 | HEMADIVYAR      | B.PHARM SEM-I   | Hemas         |
| 30 | BPY/1763/2021-22 | HIRUTHIKAS      | B.PHARM SEM-I   | Hiruthika     |
| 31 | BPY/1764/2021-22 | INDHUMATHIA     | B.PHARM SEM-I   | Indhu         |
| 32 | BPY/1765/2021-22 | ISAIMOZHIM      | B.PHARM SEM-I   | Isaimozhi     |
| 33 | BPY/1766/2021-22 | IYYAPPANM       | B.PHARM SEM-I   | Iyyappa       |
| 34 | BPY/1767/2021-22 | JAGATHISHVARANP | B.PHARM SEM-I   | Jaga          |
| 35 | BPY/1768/2021-22 | JEEVAN R        | B.PHARM SEM-I   | Jeeva         |
| 36 | BPY/1769/2021-22 | JEEVADHARSHINIS | B.PHARM SEM-I   | Kalai         |
| 37 | BPY/1770/2021-22 | KALAISELVANS    | B.PHARM SEM-I   | Kalaiselvan   |
| 38 | BPY/1771/2021-22 | KANISHKUMARP    | B.PHARM SEM-I   | Kanishk       |
| 39 | BPY/1772/2021-22 | KARTHICKRAJUS   | B.PHARM SEM-I   | Karthick      |
| 40 | BPY/1773/2021-22 | KAVINKUMARG     | B.PHARM SEM-I   | Kavin         |
| 41 | BPY/1774/2021-22 | KAVISELVANR     | B.PHARM SEM-I   | Kavisa        |
| 42 | BPY/1775/2021-22 | KAVYASRIS       | B.PHARM SEM-I   | Kavya         |
| 43 | BPY/1776/2021-22 | KIRUTHIGAT      | B.PHARM SEM-I   | Kiruthiga     |
| 44 | BPY/1777/2021-22 | KOWSIHAS        | B.PHARM SEM-I   | Kowsee        |
| 45 | BPY/1778/2021-22 | MADHANKUMARG    | B.PHARM SEM-I   | Madhan        |
| 46 | BPY/1779/2021-22 | MADHUMITHAK     | B.PHARM SEM-I   | Madhu         |
| 47 | 560020507560     | MUGILARASUS*    | B.PHARM SEM-III | Mugil         |
| 48 | 560020507561     | NANDHAKUMAR T*  | B.PHARM SEM-III | Nandha        |
| 49 | 560020507562     | NAVEENKUMART*   | B.PHARM SEM-III | Naveen        |
| 50 | 560020507563     | NAWINS*         | B.PHARM SEM-III | Nawin         |
| 51 | 560020507564     | NIDESHWAR G*    | B.PHARM SEM-III | Nideeshwar    |
| 52 | 560020507565     | PARAMESHK       | B.PHARM SEM-III | Parameshk     |

Dr. N. Senthikumar  
PRINCIPAL

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|    |              |                      |                 |                |
|----|--------------|----------------------|-----------------|----------------|
| 53 | 560020507566 | POORNIMA D *         | B.PHARM SEM-III | Poornima       |
| 54 | 560020507567 | PRABHAKARAN P *      | B.PHARM         | Prabakaran     |
| 55 | 560020507568 | PRAKASH S R          | B.PHARM SEM-III | Prakash        |
| 56 | 560020507569 | PRIYADHARSHINI P *   | B.PHARM SEM-III | Priyadharshini |
| 57 | 560020507570 | RAJESHKUMAR R *      | B.PHARM SEM-III | Rajeshkumar    |
| 58 | 560020507571 | RANJITH R *          | B.PHARM SEM-III | Ranjith        |
| 59 | 560020507572 | SABARINATHAN M *     | B.PHARM SEM-III | Sabar Nathan   |
| 60 | 561758035    | JOSHUA GNANASEELAN B | B.PHARM SEM-V   | Joshua         |
| 61 | 561758080    | SELVABALAGAN M       | B.PHARM SEM-V   | Selvalagan     |
| 62 | 561758082    | SHANMUGAVEL P        | B.PHARM SEM-V   | Shanmugavel    |
| 63 | 561858038    | NANDHAKUMAR S        | B.PHARM SEM-V   | Nandhakumar    |
| 64 | 561958002    | AJITH KUMAR K *      | B.PHARM SEM-V   | Ajithkumar     |
| 65 | 561958003    | ANAND M *            | B.PHARM SEM-V   | Anand          |



*[Handwritten Signature]*

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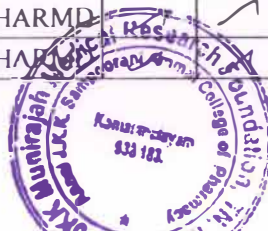
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| DATE          | 03.01.2022-25.01.2022         |
| VENUE         | SEMINARHALL                   |

## STUDENTS ATTENDANCE FOR THE COURSE

| .NO | REG.NO                  | NAME OF THE STUDENTS | COURSE     | 3/01 | 7/01 | 12/01 | 18/01 | 22/01 | 25/01 |
|-----|-------------------------|----------------------|------------|------|------|-------|-------|-------|-------|
| 1   | Pharm D/275/<br>2021-22 | SUHITHASREEM(CBSE)   | I.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 2   | Pharm D/276/<br>2021-22 | THIRUMALAIVASANV     | I.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 3   | Pharm D/277/<br>2021-22 | THIRUSELVAMC         | I.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 4   | Pharm D/278/<br>2021-22 | USMAANA              | I.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 5   | 380020507522            | SABARINATHANA        | II.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 6   | 380020507523            | SHEPHIASS            | II.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 7   | 380020507524            | SHYLAI               | II.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 8   | 380020507525            | SRINITHICG           | II.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 9   | 380020507526            | SURYAR               | II.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 10  | 381910409               | GODWINS              | III.PHARMD | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 11  | 381910410               | JACKSONSELVINY       | III.PHARMD | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 12  | 381910411               | JAYAPRIYAN           | III.PHARMD | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 13  | 381910413               | JEEVITHAM            | III.PHARMD | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 14  | 381810401               | AAMINAHANEEF         | IV.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 15  | 381810402               | ABDULBASITHM         | IV.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 16  | 381810404               | ABISHEKP             | IV.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 17  | 381710415               | RAGHULG              | V.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 18  | 381710416               | SHANGEETHAS          | V.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 19  | 381710417               | SUDHARSANV           | V.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 20  | 381710418               | SULIMANB             | V.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 21  | 381710419               | TAMILSELVAN S        | V.PHARMD   | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 22  | 381610401               | AARTHYP              | VI.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 23  | 381610402               | AKSHARARAJU          | VI.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 24  | 381610403               | ALFY ASKHAN          | VI.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 25  | 381610404               | ASHLYSTAWCE          | VI.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |
| 26  | 381610405               | DR. BALAMURUGANV     | VI.PHARMD  | ✓    | ✓    | ✓     | ✓     | ✓     | ✓     |



|    |                  |                 |                 |   |   |   |   |   |   |
|----|------------------|-----------------|-----------------|---|---|---|---|---|---|
| 27 | BPY/1760/2021-22 | HARIBHARATHIS   | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | BPY/1761/2021-22 | HARIDHARSHINIM  | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 29 | BPY/1762/2021-22 | HEMADIVYAR      | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | BPY/1763/2021-22 | HIRUTHIKAS      | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | BPY/1764/2021-22 | INDHUMATHIA     | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 32 | BPY/1765/2021-22 | ISAIMOZHIM      | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33 | BPY/1766/2021-22 | IYYAPPANM       | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 34 | BPY/1767/2021-22 | JAGATHISHVARANP | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 35 | BPY/1768/2021-22 | JEEVAN R        | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 36 | BPY/1769/2021-22 | JEEVADHARSHINIS | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 37 | BPY/1770/2021-22 | KALAISELVANS    | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 38 | BPY/1771/2021-22 | KANISHKUMARP    | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 39 | BPY/1772/2021-22 | KARTHICK RAJUS  | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 40 | BPY/1773/2021-22 | KAVINKUMARG     | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 41 | BPY/1774/2021-22 | KAVISELVANR     | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 42 | BPY/1775/2021-22 | KAVYASRIS       | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 43 | BPY/1776/2021-22 | KIRUTHIGAT      | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 44 | BPY/1777/2021-22 | KOWSIHAS        | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 45 | BPY/1778/2021-22 | MADHANKUMARG    | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 46 | BPY/1779/2021-22 | MADHUMITHAK     | B.PHARM SEM-I   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 47 | 560020507560     | MUGILARASUS*    | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 48 | 560020507561     | NANDHAKUMAR T*  | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 49 | 560020507562     | NAVEENKUMART*   | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50 | 560020507563     | NAWINS*         | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 51 | 560020507564     | NIDESHWAR G*    | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 52 | 560020507565     | PARAMESHK       | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 53 | 560020507566     | POORNIMAD*      | B.PHARM SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

**Dr. N. SENTHILKUMAR,**  
PRINCIPAL

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



|    |              |                    | SEM-III            |   |   |   |   |   |   |
|----|--------------|--------------------|--------------------|---|---|---|---|---|---|
| 54 | 560020507567 | PRABHAKARAN P *    | B.PHARM<br>SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 55 | 560020507568 | PRAKASH S R        | B.PHARM<br>SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 56 | 560020507569 | PRIYADHARSHINI P * | B.PHARM<br>SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 57 | 560020507570 | RAJESHKUMAR R *    | B.PHARM<br>SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 58 | 560020507571 | RANJITH R *        | B.PHARM<br>SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 59 | 560020507572 | SABARINATHAN M *   | B.PHARM<br>SEM-III | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |



*(Handwritten Signature)*

**Dr. N.SENTHILKUMAR,  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.**



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

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

|               |                                 |
|---------------|---------------------------------|
| ADD ON COURSE | PHOTOCATALYSIS IN 3D PRINTING . |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY        |
| ACADEMIC YEAR | 2021-2022                       |
| DATE          | 03.01.2022-25.01.2022           |
| VENUE         | SEMINARHALL                     |

NAME : JAYAPRIYA N  
ANSWER ALL THE QUESTION:

COURSE : III - PHARM D  
DATE: 25.01.2022

MULTIPLE CHOICE QUESTION

MARKS: 20

1) Which of the following is typically the cheapest type of 3D printer?

- a) FDM  
b) SLA  
c) Powder-based  
d) SLM

2) 3D printing technology is expanding and is now able to print metal parts.

- a) True  
b) False

3) Which type of 3D printer uses a pool of resin to create the solid part?

- a) FDM  
 b) SLA  
c) SNL  
d) None of the above

4) What material is not used in 3D printing?

- a) Nylon  
b) ABS  
c) PLA

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NAMAKKAL DISTRICT, TAMILNADU, INDIA.



(d) PVC

5) Which of the following does NOT influence how refined the 3D printed part will be?

- a) Layer thickness
- b) Using support material
- c) Part orientation

(d) All the above

6. What is an STL?

- (a) The initial pre-sliced file
- b) The final sliced file
- c) A type of filament
- d) The coding program

7. What happens during slicing?

- a) The filament is cut
- (b) The design object is turned into layers
- c) Extra material is printed inside the object
- d) Extra material is printed outside to support overhangs

8. Name this part of the 3D printer

- (a) Extruder
- b) Nozzle
- c) Print Bed
- d) Axis

9. What is a G-Code?

- a) The initial pre-sliced file
- (b) The final sliced file that the printer
- c) A type of filaments
- d) The coding program

10. What does layer resolution mean?

- a) A kind of filament



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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

b) The shape of object

c) How detailed object prints

e) file type

11. What is this an illustration of?

a) Layer resolution

b) Filament types

c) Infill

d) Supports

12. What kind of 3D printer do we have?

a) LulzBot Mini

b) LulzBot Taz

c) Maker Bot

d) XY Printer

13. Which of the following is Not a 3D printing approach?

a) Slit

b) Photo polymerization

c) Sused deposition

modeling

d) SLT

14.3 D printing procedure actually called 3 D printing (3DP)

a) Objet geometries

b) Stratasys

c) MIT

d) XYZ Printing

15. Which of the following fields or industries have used 3-D printing?

a) Art

b) Medical

c) all the above

16. In what year was 3-D Printing industry leader 3D System founded?



**Dr. N.SENTHILKUMAR,**  
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

- a) 1986
- b) 1990
- c) 2000
- d) 1997

17. Which of the following materials have been used to create objects with 3-D printers?

- a) Plastic
- b) Ceramics
- c) All the above

18) Which of the following is typically most expensive type of 3D printer

- a) SLA
- b) SLM
- c) FDM
- d) None of these


19) FDM stands for fused deposition modeling

- a) True
- b) False

20. FDM Printers can print multiple materials at one time.

- a) True
- b) False



  
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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)  
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|                      |  |
|----------------------|--|
| <b>ADD ON COURSE</b> | <b>PHOTOCATALYSIS IN 3D PRINTING .</b> |
| <b>DEPARTMENT</b>    | <b>PHARMACEUTICAL CHEMISTRY</b>        |
| <b>ACADEMIC YEAR</b> | <b>2021-2022</b>                       |
| <b>DATE</b>          | <b>03.01.2022-25.01.2022</b>           |
| <b>VENUE</b>         | <b>SEMINARHALL</b>                     |

**ANSWER ALL THE QUESTION:**

**DATE: 25.01.22**

**MULTIPLE CHOICE QUESTION**

**MARKS: 20**

1) Which of the following is typically the cheapest type of 3D printer?

- a) FDM
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- d) SLM

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c) PLA

d) PVC

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c) Part orientation

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

10. What does layer resolution mean?

- a) A kind of filament
- b) The shape of object
- c) **How detailed object prints**
- d) A file type

11. What is this an illustration of?

- a) **Layer resolution**
- b) Filament types
- c) Infill
- d) Supports

12. What kind of 3D printer do we have?

- a) **LulzBot Mini**
- b) LulzBot Taz
- c) Maker Bot
- d) XYZ Printer

13. Which of the following is Not a 3D printing approach?

- a) Slit
- b) Photo polymerization
- c) **Fused deposition modeling**
- d) SLT


14. 3D printing procedure actually called 3D printing (3DP)

- a) Object geometries
- b) Stratasys
- c) **MIT**
- d) XYZ Printing

15. Which of the following fields or industries have used 3-D printing?

- a) Art



  
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b)Medical

c)all the above

16. In what year was 3-D Printing industry leader 3D System founded?

a)1978

b)1986

c)1990

d)2000

17. Which of the following materials have been used to create objects with 3-D printers?

a)Plastic

b)Ceramics

c)All the above

18) Which of the following is typically most expensive type of 3D printer

a)SLA

b)SLM

c)FDM

d)None of these

19) FDM stands for fused deposition modeling

a)True

b)False

20. FDM Printers can print multiple materials at one time.

a)True

b)False

  
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|                      |  |
|----------------------|--|
| <b>ADD ON COURSE</b> | <b>PHOTOCATALYSIS IN 3D PRINTING .</b> |
| <b>DEPARTMENT</b>    | <b>PHARMACEUTICAL CHEMISTRY</b>        |
| <b>ACADEMIC YEAR</b> | <b>2021-2022</b>                       |
| <b>DATE</b>          | <b>03.01.2022-25.01.2022</b>           |
| <b>VENUE</b>         | <b>SEMINARHALL</b>                     |

## STUDENTSMARKSHEETS

|    |                      |                    |                  |    |      |
|----|----------------------|--------------------|------------------|----|------|
| 1  | Pharm D/275/ 2021-22 | SUHITHASREEM(CBSE) | I.PHARMD         | 17 | 85%  |
| 2  | Pharm D/276/ 2021-22 | THIRUMALAIVASANV   | I.PHARMD         | 17 | 85%  |
| 3  | Pharm D/277/ 2021-22 | THIRUSELVAMC       | I.PHARMD         | 18 | 90%  |
| 4  | Pharm D/278/ 2021-22 | USMAANA            | I.PHARMD         | 17 | 85%  |
| 5  | 380020507522         | SABARINATHANA      | II.PHARMD        | 18 | 90%  |
| 6  | 380020507523         | SHEPHIASS          | II.PHARMD        | 16 | 80%  |
| 7  | 380020507524         | SHYLAI             | II.PHARMD        | 19 | 95%  |
| 8  | 380020507525         | SRINITHICG         | II.PHARMD        | 16 | 80%  |
| 9  | 380020507526         | SURYAR             | II.PHARMD        | 17 | 85%  |
| 10 | 381910409            | GODWINS            | III PHARMD       | 17 | 85%  |
| 11 | 381910410            | JACKSONSELVINY     | III PHARMD       | 18 | 90%  |
| 12 | 381910411            | JAYAPRIYAN         | III.PHARMD       | 19 | 95%  |
| 13 | 381910413            | JEEVITHAM          | III.PHARMD       | 19 | 95%  |
| 14 | 381810401            | AAMINAHANEEF       | IV.PHARMD        | 17 | 85%  |
| 15 | 381810402            | ABDULBASITHM       | IV.PHARMD        | 18 | 90%  |
| 16 | 381810404            | ABISHEKP           | IV.PHARMD        | 18 | 90%  |
| 17 | 381710415            | RAGHULG            | V.PHARMD         | 17 | 85%  |
| 18 | 381710416            | SHANGEETHAS        | V.PHARMD         | 16 | 80%  |
| 19 | 381710417            | SUDHARSANV         | V.PHARMD         | 17 | 85%  |
| 20 | 381710418            | SULIMANB           | V.PHARMD         | 18 | 90%  |
| 21 | 381710419            | TAMILSELVAN S      | V.PHARMD         | 20 | 100% |
| 22 | 381610401            | AARTHYP            | VI PHARMD        | 17 | 85%  |
| 23 | 381610402            | AKSHARARAJU        | VI.PHARMD        | 17 | 85%  |
| 24 | 381610403            | ALFIYASKHAN        | VI.PHARMD        | 18 | 90%  |
| 25 | 381610404            | ASHLYSTANLEY       | VI.PHARMD        | 18 | 90%  |
| 26 | 381610405            | BALAMURUGANV       | VI.PHARMD        | 19 | 95%  |
| 27 | BPY/1760/2021-22     | HARIBHARATHIS      | B.PHARMS<br>EM-I | 19 | 95%  |
| 28 | BPY/1761/2021-22     | HARIDHARATHIS      | B.PHARMS<br>EM-I | 17 | 85%  |

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL



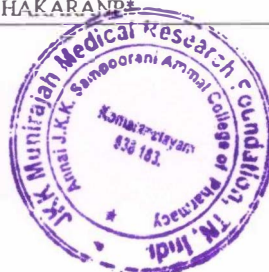
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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

|    |                  |                 |                    |    |      |
|----|------------------|-----------------|--------------------|----|------|
| 29 | BPY/1762/2021-22 | HEMADIVYAR      | B.PHARMS<br>EM-I   | 17 | 85%  |
| 30 | BPY/1763/2021-22 | HIRUTHIKAS      | B.PHARMS<br>EM-I   | 17 | 85%  |
| 31 | BPY/1764/2021-22 | INDHUMATHIA     | B.PHARMS<br>EM-I   | 17 | 85%  |
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| 41 | BPY/1774/2021-22 | KAVISELVANR     | B.PHARMS<br>EM-I   | 19 | 95%  |
| 42 | BPY/1775/2021-22 | KAVYASRIS       | B.PHARMS<br>EM-I   | 19 | 95%  |
| 43 | BPY/1776/2021-22 | KIRUTHIGAT      | B.PHARMS<br>EM-I   | 17 | 85%  |
| 44 | BPY/1777/2021-22 | KOWSIHAS        | B.PHARMS<br>EM-I   | 18 | 90%  |
| 45 | BPY/1778/2021-22 | MADHANKUMARG    | B.PHARMS<br>EM-I   | 18 | 90%  |
| 46 | BPY/1779/2021-22 | MADHUMITHAK     | B.PHARMS<br>EM-I   | 17 | 85%  |
| 47 | 560020507560     | MUGILARASUS*    | B.PHARMS<br>EM-III | 16 | 80%  |
| 48 | 560020507561     | NANDHAKUMAR T*  | B.PHARMS<br>EM-III | 17 | 85%  |
| 49 | 560020507562     | NAVEENKUMART*   | B.PHARMS<br>EM-III | 18 | 90%  |
| 50 | 560020507563     | NAWINS*         | B.PHARM<br>SEM-III | 20 | 100% |
| 51 | 560020507564     | NIDESHWAR G*    | B.PHARM<br>SEM-III | 17 | 85%  |
| 52 | 560020507565     | PARAMESHK       | B.PHARM<br>SEM-III | 17 | 85%  |
| 53 | 560020507566     | POORNIMAD*      | B.PHARM<br>SEM-III | 18 | 90%  |
| 54 | 560020507567     | PRABHAKARANP*   | B.PHARM            | 18 | 90%  |

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|    |              |                    | SEM-III            |    |     |
|----|--------------|--------------------|--------------------|----|-----|
| 55 | 560020507568 | PRAKASH S R        | B.PHARM<br>SEM-III | 18 | 90% |
| 56 | 560020507569 | PRIYADHARSHINI P * | B.PHARM<br>SEM-III | 17 | 85% |
| 57 | 560020507570 | RAJESHKUMAR R *    | B.PHARM<br>SEM-III | 18 | 90% |
| 58 | 560020507571 | RANJITH R *        | B.PHARM<br>SEM-III | 18 | 90% |
| 59 | 560020507572 | SABARINATHAN M *   | B.PHARM<br>SEM-III | 19 | 95% |



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

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

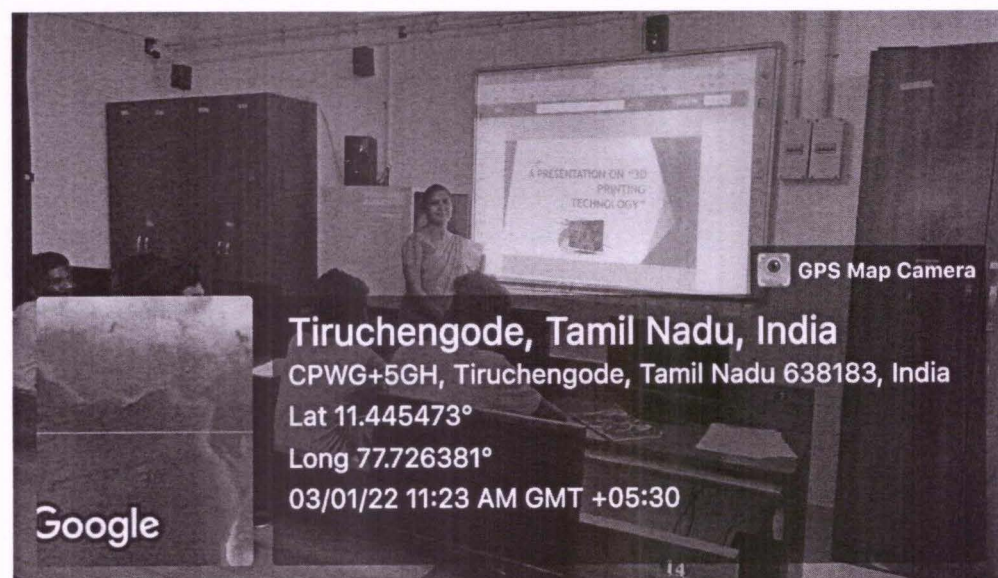


# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

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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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Contact No. : 1919789456750, 1919943069944, 1919943066944

|               |                               |
|---------------|-------------------------------|
| ADD ON COURSE | PHOTOCATALYSIS IN 3D PRINTING |
| DEPARTMENT    | PHARMACEUTICAL CHEMISTRY      |
| ACADEMIC YEAR | 2021-2022                     |
| DATE          | 03.01.2022-25.01.2022         |
| VENUE         | SEMINAR HALL                  |

## RESOURCE PERSON'S:



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

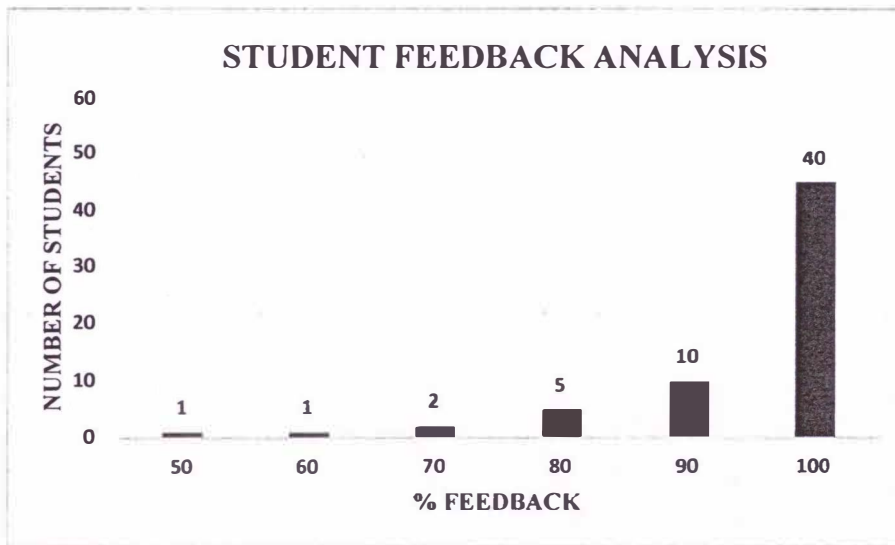


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|               |                                 |
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| VENUE         | SEMINAR HALL                    |

## FEEDBACK ANALYSIS



**Dr. N.SENTHILKUMAR,  
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## ADD ON COURSE FEEDBACK FORM

STUDENT NAME: JAYAPRIYA . N

DATE: 3/01/2022 – 25/01/2022

YEAR/ COURSE: III - PHARM.D

NAME OF THE ADD ON COURSE: PHOTOCATALYSIS IN 3D PRINTING

COURSE CODE: 21VACOD9

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 student's questions by the instructor               | ✓         |      |      |      |
| The venue was appropriate for the event                            | ✓         |      |      |      |
| Course organisation was:   |           | ✓    |      |      |
| Level of course was  |           | ✓    |      |      |
| Course content was:  | ✓         |      |      |      |

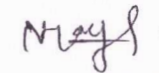
## Student Participation

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) 15+
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,  
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ETHIRMEDU, KOMARAPALAYAM - 638 183,  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

  
SIGNATURE



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

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

JAYA PRIYA N

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

PHOTOCATALYSIS IN 3D PRINTING

Organised by the Department of Pharmaceutical Chemistry

on 05/01/2022

R. Vignesh  
COORDINATOR



Dr. N. Senthil Kumar  
CONVENOR  
PRINCIPAL,



JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETH. MEDU, KOMARAPALAYAM - 638 183,  
NAMAKKAL DISTRICT TAMIL NADU