



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A++" Grade by NAAC | 12B Status by UGC | Approved by AICTE

[www.sathyabama.ac.in](http://www.sathyabama.ac.in)

## School of Bio and Chemical engineering

### Department of Chemical Engineering

#### 1.3.3. Number of value-added courses for imparting transferable and life skills offered during the year **2023-24**

| S. No | Title                                       | Event Dates                     | No of Students Enrolled | No of Students Completed | Page No. |
|-------|---------------------------------------------|---------------------------------|-------------------------|--------------------------|----------|
| 1     | Value added course on Biogas                | 10-07-2023 to 15-07-2023        | 120                     | 105                      | 2        |
| 2     | Synthesis of Biodiesel and Characterization | 11-09-2023 to 16-09-2023        | 130                     | 120                      | 11       |
| 3     | Value added course on Polymer Technology    | 18- 03 – 2024 to 23 – 03 – 2024 | 55                      | 50                       | 22       |



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## SCHOOL OF BIO AND CHEMICAL ENGINEERING

### DEPARTMENT OF CHEMICAL ENGINEERING

IN ASSOCIATION WITH

### CENTRE FOR WASTE MANAGEMENT

VALUE ADDED COURSE ON

### *Value added course on Biogas*

FROM

10<sup>TH</sup> July 2023

TO

15<sup>TH</sup> July 2023

### Course Coordinators

Dr. S. Sathish – Associate Professor and Head, Department of Chemical Engineering,  
Sathyabama Institute of Science and Technology

Dr. S. S. Dawn – Professor & Head, Centre for Waste Management, Sathyabama Institute of  
Science and Technology

For registration:

[https://docs.google.com/forms/d/1w0AmqojQhXUuNonafLNsP4F\\_YtqbMFXf9BBuaa1ySlq/edit](https://docs.google.com/forms/d/1w0AmqojQhXUuNonafLNsP4F_YtqbMFXf9BBuaa1ySlq/edit)

For Queries contact: [chemicalhod@sathyabama.ac.in](mailto:chemicalhod@sathyabama.ac.in)

*Objective of this course:*

***To raise awareness and publicity about the benefits of biogas, operation and maintenance of plants***

***Course Outcomes:***

1. Practical demonstration on how to connect biogas pipe line to biogas burner.
2. Familiarize with the importance of biogas technology and biogas as a fuel for many applications for sustainable environment.

| <b>Module</b> | <b>Topics</b>                                                                                                                                                                                                                        | <b>Course Coordinator</b>         | <b>No of Sessions</b> | <b>Platform</b>     |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|---------------------|
| <b>1</b>      | Introduction to the Biogas Technology, Selection of biogas models and selection of biogas potential beneficiaries, Socio-Economic Aspects, Environmental Aspects of having biogas plants installed in houses.                        | <b>Dr.S.Sathish</b>               | <b>6 hr</b>           | <b>Seminar Hall</b> |
| <b>2</b>      | Construction methodologies, O & M of biogas plant, cattle dung-based biogas plant with sanitary toilet and its operation, Installation and Commissioning of prefabricated approved Biogas Plants                                     | <b>Dr.Arun</b>                    | <b>6 hr</b>           | <b>Seminar Hall</b> |
| <b>3</b>      | Design of different approved models of biogas plants, capacity determination, selection of building materials and accessories. Type of different approved models of Biogas plants based on material and accessories, appliances etc. | <b>Dr.S.S.Dawn</b>                | <b>6hr</b>            | <b>Seminar Hall</b> |
| <b>4</b>      | Rates of Financial Assistance / disbursement of subsidy /utilization of funds, maintenance of Accounts                                                                                                                               | <b>Dr.D.Prabhu</b>                | <b>4hr</b>            | <b>Seminar Hall</b> |
| <b>5</b>      | Field visit to SATHAYBAMA BIOGAS PLANT                                                                                                                                                                                               | <b>Dr.S.S.Dawn/<br/>Dr.J.Arun</b> | <b>6hr</b>            | <b>Seminar Hall</b> |
| <b>6</b>      | <b>Assessment</b>                                                                                                                                                                                                                    | <b>Dr.S.Sathish</b>               | <b>1hr</b>            | <b>LMS Quiz</b>     |

### *Vision*

We empower the student community to maximize their potential for the development and transfer of technical competence in the field of Chemical Engineering through academic and research excellence extending service to the mankind.

### *Mission*

*M1: To produce socially responsible chemical engineers of high academic pursuit who will contribute to challenges and improvement of process industries worldwide.*

*M2: To excel in research with an in-depth knowledge of core principles for providing solutions in process industries.*

*M3: To enhance the experienced learning in collaboration with esteemed National and International Institutes/ Universities/ Industries.*

*M4: To develop sustainable solutions for the societal needs.*

### *PROGRAM EDUCATIONAL OBJECTIVES*

*PEO1: Excellence in Career: Compete globally with strong domain knowledge, updated with modern technology to provide effective solutions for engineering problems.*

*PEO2: Professional Expertise: Design of plants and process equipment's with research attitude, lifelong learning, investigative approach and multidisciplinary thinking.*

*PEO3: Exercising leadership: Exhibit strong managerial and communication skills to work efficiently as individual as well as in teams.*

*PEO4: Societal Contribution: Succeed as an entrepreneur and as environmental developer/consultant to solve the practical problems.*

**Value added course on Biogas**

| S. No. | Name                      | Reg. No. | Department                   | Session 1 | Session 2 | Session 3 | Session 4 | Session 5 | Session 6 |
|--------|---------------------------|----------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1      | Abdul Hameed              | 40190001 | Chemical Engineering         |           |           |           |           |           |           |
| 2      | ABDUL MANNAN              | 40690001 | Chemical Engineering         |           |           |           |           |           |           |
| 3      | ANAMIKA K M               | 42190001 | Chemical Engineering         |           |           |           |           |           |           |
| 4      | ANKIN GNANSON A           | 42190002 | Chemical Engineering         |           |           |           |           |           |           |
| 5      | Ankit Mylarapu            | 40190002 | Chemical Engineering         |           |           |           |           |           |           |
| 6      | Anto Froilin              | 40190003 | Chemical Engineering         |           |           |           |           |           |           |
| 7      | ANU MOL                   | 40690002 | Chemical Engineering         |           |           |           |           |           |           |
| 8      | Arun                      | 40190004 | Chemical Engineering         |           |           |           |           |           |           |
| 9      | ASWIN S                   | 41110144 | Computer Science Engineering |           |           |           |           |           |           |
| 10     | ATHULDARSH C S            | 41110146 | Computer Science Engineering |           |           |           |           |           |           |
| 11     | BAHAR ALI                 | 40690003 | Chemical Engineering         |           |           |           |           |           |           |
| 12     | BAINABOINA BHANU PRITEESH | 41110158 | Computer Science Engineering |           |           |           |           |           |           |
| 13     | BALA NIKITH               | 41110159 | Computer Science Engineering |           |           |           |           |           |           |
| 14     | BALA YASHWITHA KASARAPU   | 41110160 | Computer Science Engineering |           |           |           |           |           |           |
| 15     | BALAMURUGAN V             | 42190004 | Chemical Engineering         |           |           |           |           |           |           |
| 16     | CHHATRASHAL CHAUHAN       | 40690004 | Chemical Engineering         |           |           |           |           |           |           |
| 17     | Chirag                    | 40190005 | Chemical Engineering         |           |           |           |           |           |           |
| 18     | Christila Fernando        | 40190006 | Chemical Engineering         |           |           |           |           |           |           |
| 19     | DEVISHRI V                | 42190005 | Chemical Engineering         |           |           |           |           |           |           |
| 20     | DHINAKARAN                | 40690005 | Chemical Engineering         |           |           |           |           |           |           |
| 21     | DILIP KUMAR               | 40690006 | Chemical Engineering         |           |           |           |           |           |           |
| 22     | ESAKKITHA K               | 42190006 | Chemical Engineering         |           |           |           |           |           |           |
| 23     | ESWARAN                   | 40690007 | Chemical Engineering         |           |           |           |           |           |           |
| 24     | HAREESH A                 | 42190007 | Chemical Engineering         |           |           |           |           |           |           |
| 25     | HARINI P                  | 42190022 | Chemical Engineering         |           |           |           |           |           |           |
| 26     | Hishanthi.S               | 41190011 | Chemical Engineering         |           |           |           |           |           |           |
| 27     | J.Jenofius Kevin          | 41190012 | Chemical Engineering         |           |           |           |           |           |           |
| 28     | JAYAMEENAA. P             | 40230014 | Biotechnology                |           |           |           |           |           |           |
| 29     | JAYASURYA R               | 42190009 | Chemical Engineering         |           |           |           |           |           |           |
| 30     | JEBETHA. S.B              | 40230015 | Biotechnology                |           |           |           |           |           |           |
| 31     | Jeev thejus               | 41190013 | Chemical Engineering         |           |           |           |           |           |           |
| 32     | JENNITA MARY. J           | 40230016 | Biotechnology                |           |           |           |           |           |           |
| 33     | JITENDRA YADAV            | 40690008 | Chemical Engineering         |           |           |           |           |           |           |
| 34     | John bright.J             | 41190014 | Chemical Engineering         |           |           |           |           |           |           |
| 35     | JOKHOO PRASAD             | 40690009 | Chemical Engineering         |           |           |           |           |           |           |
| 36     | JUANA DARLENE VIRGIT. J   | 40230017 | Biotechnology                |           |           |           |           |           |           |
| 37     | KAavya. A.K               | 40230018 | Biotechnology                |           |           |           |           |           |           |

|    |                               |          |                              |  |  |  |  |  |  |
|----|-------------------------------|----------|------------------------------|--|--|--|--|--|--|
| 38 | KABILANS RAJ M                | 42190011 | Chemical Engineering         |  |  |  |  |  |  |
| 39 | KAMESHWARAN B                 | 41190015 | Chemical Engineering         |  |  |  |  |  |  |
| 40 | KARTHIK. S                    | 40230019 | Biotechnology                |  |  |  |  |  |  |
| 41 | KATHI DHANYAKA                | 42190013 | Chemical Engineering         |  |  |  |  |  |  |
| 42 | KATHIRVEL. K                  | 40230020 | Biotechnology                |  |  |  |  |  |  |
| 43 | KAVIYA PRIYA. K               | 40230021 | Biotechnology                |  |  |  |  |  |  |
| 44 | KINGSTON S                    | 42190015 | Chemical Engineering         |  |  |  |  |  |  |
| 45 | KISHORE R                     | 42190016 | Chemical Engineering         |  |  |  |  |  |  |
| 46 | KRISHNAVENI B                 | 42190017 | Chemical Engineering         |  |  |  |  |  |  |
| 47 | KRITHIKA S                    | 42230055 | Biotechnology                |  |  |  |  |  |  |
| 48 | KUMMARI BRAHMA REDDY          | 42230056 | Biotechnology                |  |  |  |  |  |  |
| 49 | LAKSHMI GAYATHRI R G          | 41190016 | Chemical Engineering         |  |  |  |  |  |  |
| 50 | LAKSHMI N                     | 42190020 | Chemical Engineering         |  |  |  |  |  |  |
| 51 | LISANTH S P                   | 42230057 | Biotechnology                |  |  |  |  |  |  |
| 52 | LOGESHWARAN.T                 | 41190017 | Chemical Engineering         |  |  |  |  |  |  |
| 53 | M RAGESH                      | 41111020 | Computer Science Engineering |  |  |  |  |  |  |
| 54 | MADARAPU YAMINI PRIYA         | 41190018 | Chemical Engineering         |  |  |  |  |  |  |
| 55 | MADHAPUR VENKATA SOUMITRI     | 41190019 | Chemical Engineering         |  |  |  |  |  |  |
| 56 | MADHUMITHA B S                | 42230058 | Biotechnology                |  |  |  |  |  |  |
| 57 | MADHUVARSHINI K               | 42230059 | Biotechnology                |  |  |  |  |  |  |
| 58 | MAGHASRI T                    | 42230060 | Biotechnology                |  |  |  |  |  |  |
| 59 | MAHALAKSHMI. R                | 40230022 | Biotechnology                |  |  |  |  |  |  |
| 60 | MAHAVISHNOU. R                | 40230023 | Biotechnology                |  |  |  |  |  |  |
| 61 | MANASI. K.A                   | 40230024 | Biotechnology                |  |  |  |  |  |  |
| 62 | MANIKANDAN.M                  | 40230025 | Biotechnology                |  |  |  |  |  |  |
| 63 | MEENAKSHY N S                 | 42190018 | Chemical Engineering         |  |  |  |  |  |  |
| 64 | MEENAMBIGAI. S                | 40230026 | Biotechnology                |  |  |  |  |  |  |
| 65 | MIRDUSHI VASU. M              | 40230027 | Biotechnology                |  |  |  |  |  |  |
| 66 | MITHILA R                     | 42230061 | Biotechnology                |  |  |  |  |  |  |
| 67 | MOHAMED IBRAHIM BATHUSHA      | 40690010 | Chemical Engineering         |  |  |  |  |  |  |
| 68 | MOHAMMED ABDULLAH KHAN B      | 41190020 | Chemical Engineering         |  |  |  |  |  |  |
| 69 | MOHAMMED AFREED A             | 42190019 | Chemical Engineering         |  |  |  |  |  |  |
| 70 | Molleti harsha vardhan ramesh | 41190021 | Chemical Engineering         |  |  |  |  |  |  |
| 71 | MONISHA. V                    | 40230028 | Biotechnology                |  |  |  |  |  |  |
| 72 | MUTHU BHARATH. T              | 40230029 | Biotechnology                |  |  |  |  |  |  |
| 73 | N.SURYA                       | 41190022 | Chemical Engineering         |  |  |  |  |  |  |
| 74 | NATISHAH. A.J                 | 40230030 | Biotechnology                |  |  |  |  |  |  |
| 75 | NISHA U                       | 42190021 | Chemical Engineering         |  |  |  |  |  |  |
| 76 | Nithin G                      | 41190023 | Chemical Engineering         |  |  |  |  |  |  |

|     |                               |          |                              |  |  |  |  |  |  |
|-----|-------------------------------|----------|------------------------------|--|--|--|--|--|--|
| 77  | NITHYA SRI. G                 | 40230031 | Biotechnology                |  |  |  |  |  |  |
| 78  | NITISH KUMAR. S               | 40230032 | Biotechnology                |  |  |  |  |  |  |
| 79  | PALANISELVAM K G              | 42190023 | Chemical Engineering         |  |  |  |  |  |  |
| 80  | PAUL JEFRI J                  | 41190024 | Chemical Engineering         |  |  |  |  |  |  |
| 81  | PAVITHRA K                    | 42190010 | Chemical Engineering         |  |  |  |  |  |  |
| 82  | POOJA NATH                    | 40230033 | Biotechnology                |  |  |  |  |  |  |
| 83  | POTTURI BAPI RAJU             | 40690011 | Chemical Engineering         |  |  |  |  |  |  |
| 84  | PUTTOOR YUVA RATNA REDDY      | 41111018 | Computer Science Engineering |  |  |  |  |  |  |
| 85  | R RAGHAV SARANGAN             | 41111019 | Computer Science Engineering |  |  |  |  |  |  |
| 86  | R SABARIGURU                  | 41111084 | Computer Science Engineering |  |  |  |  |  |  |
| 87  | RACHEL P                      | 42190025 | Chemical Engineering         |  |  |  |  |  |  |
| 88  | RAGHUL RAJAH S                | 42230077 | Biotechnology                |  |  |  |  |  |  |
| 89  | RAGUL D                       | 42190026 | Chemical Engineering         |  |  |  |  |  |  |
| 90  | RAGUL V                       | 42190027 | Chemical Engineering         |  |  |  |  |  |  |
| 91  | RAHUL R                       | 41111021 | Computer Science Engineering |  |  |  |  |  |  |
| 92  | RAJAN A K                     | 41111022 | Computer Science Engineering |  |  |  |  |  |  |
| 93  | RAKSHAIYA YADAV G             | 42230078 | Biotechnology                |  |  |  |  |  |  |
| 94  | RAMANAN K                     | 42230079 | Biotechnology                |  |  |  |  |  |  |
| 95  | Ramannagari Renu Prasad       | 41190025 | Chemical Engineering         |  |  |  |  |  |  |
| 96  | RAMPRASATH J                  | 42230080 | Biotechnology                |  |  |  |  |  |  |
| 97  | RAMYA G                       | 42190028 | Chemical Engineering         |  |  |  |  |  |  |
| 98  | REAN VERGIS MANU              | 42230081 | Biotechnology                |  |  |  |  |  |  |
| 99  | REMO KONSEKA M                | 42190029 | Chemical Engineering         |  |  |  |  |  |  |
| 100 | RUDRARAJU JASWANTH BHAVANI VA | 42230083 | Biotechnology                |  |  |  |  |  |  |
| 101 | S ABHISHEK                    | 41111082 | Computer Science Engineering |  |  |  |  |  |  |
| 102 | S ASZAD                       | 41110145 | Computer Science Engineering |  |  |  |  |  |  |
| 103 | S BAGAVATHY                   | 42190003 | Chemical Engineering         |  |  |  |  |  |  |
| 104 | SAAHIL RANGNANI               | 41111083 | Computer Science Engineering |  |  |  |  |  |  |
| 105 | SACHIN B                      | 42230084 | Biotechnology                |  |  |  |  |  |  |
| 106 | SADAM HUSSIN S                | 41111085 | Computer Science Engineering |  |  |  |  |  |  |
| 107 | SADAT ANWAR                   | 41111086 | Computer Science Engineering |  |  |  |  |  |  |
| 108 | SAMMIKSHA S                   | 42230086 | Biotechnology                |  |  |  |  |  |  |
| 109 | SANDHYA PRADEEP               | 42230087 | Biotechnology                |  |  |  |  |  |  |
| 110 | SANGEETHA P B                 | 42190030 | Chemical Engineering         |  |  |  |  |  |  |
| 111 | SANJAI KUMAR                  | 40690012 | Chemical Engineering         |  |  |  |  |  |  |
| 112 | SANJANA R                     | 42190024 | Chemical Engineering         |  |  |  |  |  |  |
| 113 | SHANOOP                       | 40690013 | Chemical Engineering         |  |  |  |  |  |  |
| 114 | SHEIK MOHAMMED SHAJI D        | 42190031 | Chemical Engineering         |  |  |  |  |  |  |
| 115 | SOM NATH YADAV                | 40690014 | Chemical Engineering         |  |  |  |  |  |  |

|     |               |          |                              |  |  |  |  |  |  |
|-----|---------------|----------|------------------------------|--|--|--|--|--|--|
| 116 | SYED ASHIK    | 40690015 | Chemical Engineering         |  |  |  |  |  |  |
| 117 | THILAGAN      | 40690016 | Chemical Engineering         |  |  |  |  |  |  |
| 118 | V ASWIN KUMAR | 41110143 | Computer Science Engineering |  |  |  |  |  |  |
| 119 | Gayathri G    | 41190009 | Chemical Engineering         |  |  |  |  |  |  |
| 120 | HARISH RAJ C  | 41190010 | Chemical Engineering         |  |  |  |  |  |  |

**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY**  
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**CERTIFICATE**  
*Of Participation*



This Certificate is Proudly Presented to :

**Rachel P (42190025)**

For participating in "**Value added course on Biogas**" program organised by  
Department of Chemical Engineering, Sathyabama Institute of Science and Technology,  
Chennai - 119 from 10 to 15 July 2023.

**Dr. Sathish**  
HoD, Chemical Engineering

**Dr.S.S.Dawn**  
HoD, Centre for Waste  
Management

## ***Value added course on Biogas***

[10<sup>TH</sup> to 15<sup>TH</sup> July 2023]

### ***Course Outcomes:***

#### **The Participants**

1. Understood how to connect biogas pipe line to biogas burner.
2. Familiarized with the importance of biogas technology and biogas as a fuel for many applications for sustainable environment.





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## SCHOOL OF BIO AND CHEMICAL ENGINEERING

### DEPARTMENT OF CHEMICAL ENGINEERING

VALUE ADDED COURSE ON

### *Synthesis of Biodiesel and Characterization*

FROM

11 – 09 - 2023

TO

16 – 09 – 2023

#### Course Coordinator

Dr. D Venkatesan – Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology

Dr. D Prabu – Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology

For registration:

[https://docs.google.com/forms/d/1w0AcqojQhmUuQonafLNsP4F\\_YtqbUFXf7ttuaa1yFuW/edit](https://docs.google.com/forms/d/1w0AcqojQhmUuQonafLNsP4F_YtqbUFXf7ttuaa1yFuW/edit)

For Queries contact: [chemicalhod@sathyabama.ac.in](mailto:chemicalhod@sathyabama.ac.in)

*Objective of this course:*

*To develop a leader in value-added biodiesel production, mastering techniques to optimize fuel production, and minimize environmental impact, to maximize profit.*

*Course Outcomes:*

1. Master advanced techniques for high-quality, efficient biodiesel production.
2. Minimize environmental impact throughout the biodiesel value chain.
3. Maximize profitability through economic analysis and optimization.
4. Ensure biodiesel quality and explore advanced application upgrades.
5. Analyze emerging trends in biodiesel technology and its role in a sustainable future.

| Module | Topics                                                                                                                                 | Name of the Faculty      | No of Sessions | Venue        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------|--------------|
| 1      | Biodiesel fundamentals, feedstock selection, and transesterification process.                                                          | Dr.D Venkatesan          | 6 hr           | Seminar Hall |
| 2      | Explore advanced techniques like catalyst optimization, co-solvent technology, and downstream processing.                              | Dr. Michael Rahul Soosai | 6 hr           | Seminar Hall |
| 3      | Master quality control through analysis and strategies for meeting biodiesel standards, including upgrading for advanced applications. | Dr.D Prabhu              | 6hr            | Seminar Hall |
| 4      | Analyze the economic and environmental impact of biodiesel production, considering sustainability throughout the value chain.,         | Dr. Michael Rahul Soosai | 6hr            | Seminar Hall |
| 5      | Delve into emerging trends in biodiesel technology, its integration with renewables, and the future within the circular economy.       | Dr. D Venkatesan         | 6hr            | Seminar Hall |
| 6      | Assessment                                                                                                                             | Dr. M. Kartikeyan        | 1hr            | Seminar Hall |

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We empower the student community to maximize their potential for the development and transfer of technical competence in the field of Chemical Engineering through academic and research excellence extending service to the mankind.

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*PEO3: Exercising leadership: Exhibit strong managerial and communication skills to work efficiently as individual as well as in teams.*

*PEO4: Societal Contribution: Succeed as an entrepreneur and as environmental developer/consultant to solve the practical problems.*

***Synthesis of Biodiesel and Characterization***

**Attendance**

| S. No. | Name                         | Reg. No. | Department                   | Session 1 | Session 2 | Session 3 | Session 4 | Session 5 | Session 6 |
|--------|------------------------------|----------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1      | A BHARATHI                   | 41190006 | Chemical Engineering         |           |           |           |           |           |           |
| 2      | ABDUL FARROK                 | 41690002 | Chemical Engineering         |           |           |           |           |           |           |
| 3      | AKSHAYA R S                  | 42190045 | Chemical Engineering         |           |           |           |           |           |           |
| 4      | Architha Soorya Gayathri     | 41190002 | Chemical Engineering         |           |           |           |           |           |           |
| 5      | ARUN                         | 41690001 | Chemical Engineering         |           |           |           |           |           |           |
| 6      | ASHIKA MAHI GEETHALAYAM      | 42190046 | Chemical Engineering         |           |           |           |           |           |           |
| 7      | ATLA JAGADISHWAR REDDY       | 41110147 | Computer Science Engineering |           |           |           |           |           |           |
| 8      | ATLURI SANTHOSHITHA          | 41110148 | Computer Science Engineering |           |           |           |           |           |           |
| 9      | AVEENAASH RAAJH. S           | 41190003 | Chemical Engineering         |           |           |           |           |           |           |
| 10     | AVINASH S                    | 41110149 | Computer Science Engineering |           |           |           |           |           |           |
| 11     | AVULA JAYANDRA SAINADH REDDY | 41110150 | Computer Science Engineering |           |           |           |           |           |           |
| 12     | AVULA SIVARAMAKRISHNA REDDY  | 41110151 | Computer Science Engineering |           |           |           |           |           |           |
| 13     | AVULA VEDAVYAS               | 41110152 | Computer Science Engineering |           |           |           |           |           |           |
| 14     | B SRUTHI                     | 41110154 | Computer Science Engineering |           |           |           |           |           |           |
| 15     | BADARAWADA MOUNIKA           | 41110155 | Computer Science Engineering |           |           |           |           |           |           |
| 16     | BAIKANI ANIL                 | 41110157 | Computer Science Engineering |           |           |           |           |           |           |
| 17     | BENZZLEY C                   | 41190007 | Chemical Engineering         |           |           |           |           |           |           |
| 18     | CHINDU BUDDHA VENKATA SAI    | 41190008 | Chemical Engineering         |           |           |           |           |           |           |
| 19     | D Bagyalakshmi               | 41190004 | Chemical Engineering         |           |           |           |           |           |           |
| 20     | DHAMOTHARAN                  | 41690004 | Chemical Engineering         |           |           |           |           |           |           |
| 21     | Dhanush Kodi                 | 40190007 | Chemical Engineering         |           |           |           |           |           |           |
| 22     | DHARMENDRA KUMAR             | 41690003 | Chemical Engineering         |           |           |           |           |           |           |
| 23     | DILIES S                     | 42190042 | Chemical Engineering         |           |           |           |           |           |           |
| 24     | DURGA GOMATHI. A             | 40230009 | Biotechnology                |           |           |           |           |           |           |
| 25     | FATHIMA SUMAIRA. S           | 40230010 | Biotechnology                |           |           |           |           |           |           |
| 26     | G.V. SANCHAY                 | 42190704 | Chemical Engineering         |           |           |           |           |           |           |
| 27     | Gade Divyanjali              | 40190008 | Chemical Engineering         |           |           |           |           |           |           |
| 28     | GOWTHAMAN. J                 | 40230011 | Biotechnology                |           |           |           |           |           |           |
| 29     | GRANAP BLESSY. R             | 40230052 | Biotechnology                |           |           |           |           |           |           |
| 30     | HAMTHAN ASWHANTH M           | 42190701 | Chemical Engineering         |           |           |           |           |           |           |
| 31     | HARITHA. S                   | 40230012 | Biotechnology                |           |           |           |           |           |           |
| 32     | HAVINESH KUMAR. U            | 40230013 | Biotechnology                |           |           |           |           |           |           |
| 33     | ILHAN SHAMIR ALI. M          | 40230051 | Biotechnology                |           |           |           |           |           |           |
| 34     | J.AILEEN AKSHARAA V.RAYEN    | 40230050 | Biotechnology                |           |           |           |           |           |           |

|    |                              |          |                      |  |  |  |  |  |  |
|----|------------------------------|----------|----------------------|--|--|--|--|--|--|
| 35 | JAYANTH. A                   | 40230053 | Biotechnology        |  |  |  |  |  |  |
| 36 | Kalla Gireesh Venkata Ramana | 40190033 | Chemical Engineering |  |  |  |  |  |  |
| 37 | Kartheesh                    | 40190009 | Chemical Engineering |  |  |  |  |  |  |
| 38 | KAVINKUMAR                   | 41690005 | Chemical Engineering |  |  |  |  |  |  |
| 39 | LOKESH                       | 41690006 | Chemical Engineering |  |  |  |  |  |  |
| 40 | Lokesh Kumar                 | 40190010 | Chemical Engineering |  |  |  |  |  |  |
| 41 | M.Usha                       | 41190033 | Chemical Engineering |  |  |  |  |  |  |
| 42 | Madhan                       | 40190011 | Chemical Engineering |  |  |  |  |  |  |
| 43 | Madhavaraj                   | 40190034 | Chemical Engineering |  |  |  |  |  |  |
| 44 | Malikal Mulki                | 40190012 | Chemical Engineering |  |  |  |  |  |  |
| 45 | MANOJ KUMAR KARWAR           | 41690008 | Chemical Engineering |  |  |  |  |  |  |
| 46 | MATHUVARSHINI. B             | 40230054 | Biotechnology        |  |  |  |  |  |  |
| 47 | MONISHA R                    | 42230062 | Biotechnology        |  |  |  |  |  |  |
| 48 | Muhammed Fadhl               | 40190013 | Chemical Engineering |  |  |  |  |  |  |
| 49 | NADIYAH THAJUDEEN            | 42230063 | Biotechnology        |  |  |  |  |  |  |
| 50 | NAFEESA S                    | 42230064 | Biotechnology        |  |  |  |  |  |  |
| 51 | Naveen Prasath               | 40190014 | Chemical Engineering |  |  |  |  |  |  |
| 52 | NEERAJA T                    | 42230065 | Biotechnology        |  |  |  |  |  |  |
| 53 | NIRANJANA P                  | 42230066 | Biotechnology        |  |  |  |  |  |  |
| 54 | NISHAANTH P K                | 42230067 | Biotechnology        |  |  |  |  |  |  |
| 55 | Nithish                      | 40190015 | Chemical Engineering |  |  |  |  |  |  |
| 56 | OVIYA B                      | 42230068 | Biotechnology        |  |  |  |  |  |  |
| 57 | PADARTHY NAGA DURGA RAAGA HA | 42230069 | Biotechnology        |  |  |  |  |  |  |
| 58 | PAUL SNOWIN FERNANDO C       | 42230070 | Biotechnology        |  |  |  |  |  |  |
| 59 | Pavi Namruthaa               | 40190016 | Chemical Engineering |  |  |  |  |  |  |
| 60 | PAVULURI SATHWIKA            | 42230071 | Biotechnology        |  |  |  |  |  |  |
| 61 | PRASANNA VISHAL B            | 42230072 | Biotechnology        |  |  |  |  |  |  |
| 62 | PRAVEEN KUMAR                | 41690007 | Chemical Engineering |  |  |  |  |  |  |
| 63 | PRAVEEN KUMARG               | 42190047 | Chemical Engineering |  |  |  |  |  |  |
| 64 | PRAVEEN. S                   | 40230034 | Biotechnology        |  |  |  |  |  |  |
| 65 | PREETHAM SAI K               | 42230073 | Biotechnology        |  |  |  |  |  |  |
| 66 | Prithvirajan                 | 40190017 | Chemical Engineering |  |  |  |  |  |  |
| 67 | PRIYA DHARSHINI. A           | 40230035 | Biotechnology        |  |  |  |  |  |  |
| 68 | PRIYA VARSHA A               | 42230074 | Biotechnology        |  |  |  |  |  |  |
| 69 | PRIYADHARSHINI. S            | 40230036 | Biotechnology        |  |  |  |  |  |  |
| 70 | PRIYANKA K                   | 42230075 | Biotechnology        |  |  |  |  |  |  |

|     |                         |          |                              |  |  |  |  |  |  |
|-----|-------------------------|----------|------------------------------|--|--|--|--|--|--|
| 71  | PULI MADHURI            | 42230076 | Biotechnology                |  |  |  |  |  |  |
| 72  | R.Anusha                | 41190001 | Chemical Engineering         |  |  |  |  |  |  |
| 73  | Raaja Veerappan         | 40190018 | Chemical Engineering         |  |  |  |  |  |  |
| 74  | Rajeth Raghunath        | 40190019 | Chemical Engineering         |  |  |  |  |  |  |
| 75  | RAKESH. S               | 40230038 | Biotechnology                |  |  |  |  |  |  |
| 76  | Rakshana                | 40190020 | Chemical Engineering         |  |  |  |  |  |  |
| 77  | Ramaraja                | 40190021 | Chemical Engineering         |  |  |  |  |  |  |
| 78  | RAMESHWAR CHANDRAN. R   | 40230039 | Biotechnology                |  |  |  |  |  |  |
| 79  | RAMU MITHRAN. L         | 40230040 | Biotechnology                |  |  |  |  |  |  |
| 80  | Reya Dash               | 41190026 | Chemical Engineering         |  |  |  |  |  |  |
| 81  | Rino benitto. B         | 41190027 | Chemical Engineering         |  |  |  |  |  |  |
| 82  | Rishi Ram R             | 41190028 | Chemical Engineering         |  |  |  |  |  |  |
| 83  | RIZWAN AHAMED. N        | 40230055 | Biotechnology                |  |  |  |  |  |  |
| 84  | RODDA RAJASHEKER        | 41111023 | Computer Science Engineering |  |  |  |  |  |  |
| 85  | ROSHINI M               | 41111077 | Computer Science Engineering |  |  |  |  |  |  |
| 86  | ROUTHU THANAY PRABHAKAR | 41111078 | Computer Science Engineering |  |  |  |  |  |  |
| 87  | RUBAN BLESSING S        | 41111079 | Computer Science Engineering |  |  |  |  |  |  |
| 88  | RUBASRI S               | 41111080 | Computer Science Engineering |  |  |  |  |  |  |
| 89  | RUDRARAJU SHIVATEJ      | 41111081 | Computer Science Engineering |  |  |  |  |  |  |
| 90  | S. SARAVANAN            | 42190702 | Chemical Engineering         |  |  |  |  |  |  |
| 91  | S.K.V.BARATHKAWIN       | 41190005 | Chemical Engineering         |  |  |  |  |  |  |
| 92  | S.Sahana                | 41190029 | Chemical Engineering         |  |  |  |  |  |  |
| 93  | SADHANA. V              | 40230041 | Biotechnology                |  |  |  |  |  |  |
| 94  | Sajin                   | 40190022 | Chemical Engineering         |  |  |  |  |  |  |
| 95  | SANJAY A                | 42190703 | Chemical Engineering         |  |  |  |  |  |  |
| 96  | Santhosh Kumaar         | 40190023 | Chemical Engineering         |  |  |  |  |  |  |
| 97  | Sathish                 | 40190024 | Chemical Engineering         |  |  |  |  |  |  |
| 98  | SHALINI K               | 42190032 | Chemical Engineering         |  |  |  |  |  |  |
| 99  | SHIVANAND J YADAV       | 42190033 | Chemical Engineering         |  |  |  |  |  |  |
| 100 | SHOWPARNICKAA. S.R      | 40230042 | Biotechnology                |  |  |  |  |  |  |
| 101 | Sitharthan              | 40190025 | Chemical Engineering         |  |  |  |  |  |  |
| 102 | Sneha                   | 40190026 | Chemical Engineering         |  |  |  |  |  |  |
| 103 | SNEHA.G.K               | 40230043 | Biotechnology                |  |  |  |  |  |  |
| 104 | Srayansh kashyap        | 40190031 | Chemical Engineering         |  |  |  |  |  |  |
| 105 | SRINIDHIY. C.A          | 40230044 | Biotechnology                |  |  |  |  |  |  |
| 106 | STEWIN SUNIL            | 42190034 | Chemical Engineering         |  |  |  |  |  |  |

|     |                          |          |                              |  |  |  |  |  |  |
|-----|--------------------------|----------|------------------------------|--|--|--|--|--|--|
| 107 | SURAJ R                  | 42190035 | Chemical Engineering         |  |  |  |  |  |  |
| 108 | SURIYARAJ. S.A.S         | 40230046 | Biotechnology                |  |  |  |  |  |  |
| 109 | Swathi.M                 | 41190030 | Chemical Engineering         |  |  |  |  |  |  |
| 110 | Syed Mohammed Suhail     | 40190027 | Chemical Engineering         |  |  |  |  |  |  |
| 111 | SYLVIA JESSIELA PEARL. R | 40230047 | Biotechnology                |  |  |  |  |  |  |
| 112 | T.Sharina Jahir          | 41190031 | Chemical Engineering         |  |  |  |  |  |  |
| 113 | TAMILSELVAN R            | 42190048 | Chemical Engineering         |  |  |  |  |  |  |
| 114 | THAMIZHARASAN            | 41690009 | Chemical Engineering         |  |  |  |  |  |  |
| 115 | Tharun Kumar s j         | 41190032 | Chemical Engineering         |  |  |  |  |  |  |
| 116 | V S RAJESHWARI           | 41111024 | Computer Science Engineering |  |  |  |  |  |  |
| 117 | VASANTHAKUMAR.R          | 41190034 | Chemical Engineering         |  |  |  |  |  |  |
| 118 | VEDHAPRIYA. S            | 40230048 | Biotechnology                |  |  |  |  |  |  |
| 119 | VENKAT KISHORE R         | 42190036 | Chemical Engineering         |  |  |  |  |  |  |
| 120 | VENKAT VIGNESH S         | 42190037 | Chemical Engineering         |  |  |  |  |  |  |
| 121 | Venkata Subramanian      | 40190028 | Chemical Engineering         |  |  |  |  |  |  |
| 122 | VINDHIYA P               | 42190038 | Chemical Engineering         |  |  |  |  |  |  |
| 123 | VINITHA LAKSHMANAN       | 42190039 | Chemical Engineering         |  |  |  |  |  |  |
| 124 | Vinukonda Sumanth        | 40190032 | Chemical Engineering         |  |  |  |  |  |  |
| 125 | Vishal Das               | 40190029 | Chemical Engineering         |  |  |  |  |  |  |
| 126 | Viswajeeth boora         | 41190035 | Chemical Engineering         |  |  |  |  |  |  |
| 127 | VYANKATESH GANESH PANTAM | 40230056 | Biotechnology                |  |  |  |  |  |  |
| 128 | William Joel             | 40190030 | Chemical Engineering         |  |  |  |  |  |  |
| 129 | YESHWANTHIKA V           | 42190041 | Chemical Engineering         |  |  |  |  |  |  |
| 130 | YUVARAJA. T              | 40230049 | Biotechnology                |  |  |  |  |  |  |

**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)**



# **CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**AKSHAYA R S (42190045)**

For participating in "Value added Course on Synthesis of Biodiesel and Characterization"  
program organised by Department of Chemical Engineering, Sathyabama Institute of Science and  
Technology, Chennai - 119 from 11 to 16 September 2023.

**Dr. D Venkatesan**  
ASSOCIATE PROFESSOR,  
CHEMICAL ENGINEERING



**Dr. D Prabu**  
ASSOCIATE PROFESSOR,  
CHEMICAL ENGINEERING

## ***VALUE ADDED COURSE ON Synthesis of Biodiesel and Characterization***

[11<sup>TH</sup> to 16<sup>TH</sup> September 2023]

### ***Course Outcomes:***

#### ***The Participants***

1. Familiarized with advanced techniques for high-quality, efficient biodiesel production.
2. Understood environmental impact throughout the biodiesel value chain.
3. Recognized profitability through economic analysis and optimization.
4. Acquainted biodiesel quality and explore advanced application upgrades.
5. Analyzed emerging trends in biodiesel technology and its role in a sustainable future.





# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A++" Grade by NAAC | 12B Status by UGC | Approved by AICTE

[www.sathyabama.ac.in](http://www.sathyabama.ac.in)

## SCHOOL OF BIO AND CHEMICAL ENGINEERING

### DEPARTMENT OF CHEMICAL ENGINEERING

IN ASSOCIATION WITH

### CENTRE FOR WASTE MANAGEMENT

VALUE ADDED COURSE ON

### *Value added course on Polymer Technology*

FROM

18<sup>TH</sup> March 2024

TO

23<sup>TH</sup> March 2024

### Course Coordinators

Dr. S. Sathish – Associate Professor and Head, Department of Chemical Engineering,  
Sathyabama Institute of Science and Technology

Dr. Michael Rahul Soosai – Assistant Professor, Department of Chemical Engineering,  
Sathyabama Institute of Science and Technology

For registration:

[https://docs.google.com/forms/d/1w0AmqojQhXUuNonafLNsp4F\\_YtqbMFXf9BBuua1ySlq/edit](https://docs.google.com/forms/d/1w0AmqojQhXUuNonafLNsp4F_YtqbMFXf9BBuua1ySlq/edit)

For Queries contact: [chemicalhod@sathyabama.ac.in](mailto:chemicalhod@sathyabama.ac.in)

### *Objective of this course:*

*To master advanced polymer technology, optimizing performance, navigating processing, and leveraging innovations for high-value, sustainable applications and strategic business success.*

### *Course Outcomes:*

1. Apply advanced characterization techniques to understand and optimize polymer performance.
2. Develop and implement strategies to enhance polymer processing efficiency and troubleshoot common issues.
3. Leverage knowledge of additives, modification techniques, and recycling to create high-value, sustainable polymers.
4. Analyze market trends and develop business strategies to maximize value within the polymer value chain.

| Module | Topics                                                                     | Course Coordinator       | No of Sessions | Platform     |
|--------|----------------------------------------------------------------------------|--------------------------|----------------|--------------|
| 1      | Polymer basics, characterization, processing methods.                      | Dr. S. Sathish           | 6 hr           | Seminar Hall |
| 2      | Advanced materials, design, and characterization for performance.          | Dr. Michael Rahul Soosai | 6 hr           | Seminar Hall |
| 3      | Deep dive into processing techniques, troubleshooting, and modeling.       | Dr. D Prabhu             | 6hr            | Seminar Hall |
| 4      | Explore polymer additives, modification, and recycling for enhanced value. | Dr. Michael Rahul Soosai | 4hr            | Seminar Hall |
| 5      | High-value applications, market trends, and sustainability in polymers.    | Dr. Annam Renita         | 6hr            | Seminar Hall |
| 6      | Assessment                                                                 | Dr. S. Sathish           | 1hr            | LMS Quiz     |

### *Vision*

We empower the student community to maximize their potential for the development and transfer of technical competence in the field of Chemical Engineering through academic and research excellence extending service to the mankind.

### *Mission*

*M1: To produce socially responsible chemical engineers of high academic pursuit who will contribute to challenges and improvement of process industries worldwide.*

*M2: To excel in research with an in-depth knowledge of core principles for providing solutions in process industries.*

*M3: To enhance the experienced learning in collaboration with esteemed National and International Institutes/ Universities/ Industries.*

*M4: To develop sustainable solutions for the societal needs.*

### *PROGRAM EDUCATIONAL OBJECTIVES*

*PEO1: Excellence in Career: Compete globally with strong domain knowledge, updated with modern technology to provide effective solutions for engineering problems.*

*PEO2: Professional Expertise: Design of plants and process equipment's with research attitude, lifelong learning, investigative approach and multidisciplinary thinking.*

*PEO3: Exercising leadership: Exhibit strong managerial and communication skills to work efficiently as individual as well as in teams.*

*PEO4: Societal Contribution: Succeed as an entrepreneur and as environmental developer/consultant to solve the practical problems.*

| <i>Value added course on Polymer Technology</i> |                   |                 |                      |                  |                  |                  |                  |                  |                  |
|-------------------------------------------------|-------------------|-----------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Attendance</b>                               |                   |                 |                      |                  |                  |                  |                  |                  |                  |
| <b>S. No.</b>                                   | <b>Name</b>       | <b>Reg. No.</b> | <b>Department</b>    | <b>Session 1</b> | <b>Session 2</b> | <b>Session 3</b> | <b>Session 4</b> | <b>Session 5</b> | <b>Session 6</b> |
| 1                                               | S BAGAVATHY       | 42190003        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 2                                               | DEVISHRI V        | 42190005        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 3                                               | ESAKKITHA K       | 42190006        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 4                                               | HAREESH A         | 42190007        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 5                                               | JAYASURYA R       | 42190009        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 6                                               | PAVITHRA K        | 42190010        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 7                                               | KATHI DHANYAKA    | 42190013        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 8                                               | KINGSTON S        | 42190015        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 9                                               | KISHORE R         | 42190016        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 10                                              | KRISHNAVENI B     | 42190017        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 11                                              | MEENAKSHY N S     | 42190018        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 12                                              | LAKSHMI N         | 42190020        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 13                                              | NISHA U           | 42190021        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 14                                              | HARINI P          | 42190022        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 15                                              | PALANISELVAM K G  | 42190023        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 16                                              | SANJANA R         | 42190024        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 17                                              | RACHEL P          | 42190025        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 18                                              | RAGUL V           | 42190027        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 19                                              | RAMYA G           | 42190028        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 20                                              | SANGEETHA P B     | 42190030        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 21                                              | SHALINI K         | 42190032        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 22                                              | SHIVANAND J YADAV | 42190033        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 23                                              | STEWIN SUNIL      | 42190034        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 24                                              | SURAJ R           | 42190035        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 25                                              | VENKAT KISHORE R  | 42190036        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 26                                              | VENKAT VIGNESH S  | 42190037        | Chemical Engineering |                  |                  |                  |                  |                  |                  |
| 27                                              | VINDHIYA P        | 42190038        | Chemical Engineering |                  |                  |                  |                  |                  |                  |

|    |                         |          |                      |  |  |  |  |  |  |
|----|-------------------------|----------|----------------------|--|--|--|--|--|--|
| 28 | VINITHA LAKSHMANAN      | 42190039 | Chemical Engineering |  |  |  |  |  |  |
| 29 | YESHWANTHIKA V          | 42190041 | Chemical Engineering |  |  |  |  |  |  |
| 30 | DILIES S                | 42190042 | Chemical Engineering |  |  |  |  |  |  |
| 31 | AKSHAYA R S             | 42190045 | Chemical Engineering |  |  |  |  |  |  |
| 32 | ASHIKA MAHI GEETHALAYAM | 42190046 | Chemical Engineering |  |  |  |  |  |  |
| 33 | PRAVEEN KUMARG          | 42190047 | Chemical Engineering |  |  |  |  |  |  |
| 34 | TAMILSELVAN R           | 42190048 | Chemical Engineering |  |  |  |  |  |  |
| 35 | HAMTHAN ASWHANTH M      | 42190701 | Chemical Engineering |  |  |  |  |  |  |
| 36 | ANU SANTHANAKRISHNAN    | 43190001 | Chemical Engineering |  |  |  |  |  |  |
| 37 | ARSIN SHANE             | 43190003 | Chemical Engineering |  |  |  |  |  |  |
| 38 | GOMATHI SANKAR J        | 43190008 | Chemical Engineering |  |  |  |  |  |  |
| 39 | HARI KRISHNAN R         | 43190009 | Chemical Engineering |  |  |  |  |  |  |
| 40 | LEAH ELIZABETH RENY     | 43190011 | Chemical Engineering |  |  |  |  |  |  |
| 41 | MAGASRINAYA D           | 43190012 | Chemical Engineering |  |  |  |  |  |  |
| 42 | MICHAEL STARWIN A       | 43190013 | Chemical Engineering |  |  |  |  |  |  |
| 43 | NAVEEN CUMAAR V         | 43190014 | Chemical Engineering |  |  |  |  |  |  |
| 44 | K.V. YUTHIKA            | 43190021 | Chemical Engineering |  |  |  |  |  |  |
| 45 | T.NIRANJANA             | 43190022 | Chemical Engineering |  |  |  |  |  |  |
| 46 | S. DHARANYA             | 43190028 | Chemical Engineering |  |  |  |  |  |  |
| 47 | JAGAN P                 | 43190030 | Chemical Engineering |  |  |  |  |  |  |
| 48 | SHAIK AHAMED KHAYUM     | 43190031 | Chemical Engineering |  |  |  |  |  |  |
| 49 | VANI SRI P              | 43190033 | Chemical Engineering |  |  |  |  |  |  |
| 50 | B.KANIKA                | 43190034 | Chemical Engineering |  |  |  |  |  |  |
| 51 | S.DIVYA                 | 43190035 | Chemical Engineering |  |  |  |  |  |  |
| 52 | HASHIN NAZEER           | 43190037 | Chemical Engineering |  |  |  |  |  |  |
| 53 | ADHIL YAHIIYA AHAMED Z  | 43190039 | Chemical Engineering |  |  |  |  |  |  |
| 54 | T. SATHVIKA             | 43190042 | Chemical Engineering |  |  |  |  |  |  |
| 55 | NUZHA N                 | 43190043 | Chemical Engineering |  |  |  |  |  |  |



**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)**



## **CERTIFICATE OF PARTICIPATION**

THIS CERTIFICATE IS PRESENT TO :



*Magasrinaya (43190012)*

For participating in "VALUE ADDED COURSE ON POLYMER TECHNOLOGY"  
program organized by Department of Chemical Engineering, Sathyabama  
Institute of Science and Technology, Chennai, from 18 to 23 March 2024.

Dr. Michael Rahul Soosai  
Assistant Professor, Chemical Engineering

Dr. Sathish  
HoD, Chemical Engineering

## ***Value added course on Polymer Technology***

[18<sup>TH</sup> to 23<sup>RD</sup> March 2024]

### ***Course Outcomes:***

#### **The Participants**

1. Applied advanced characterization techniques to understand and optimize polymer performance.
2. Developed and implemented strategies to enhance polymer processing efficiency and troubleshoot common issues.
3. Understood additives, modification techniques, and recycling methods to create high-value, sustainable polymers.
4. Analyzed market trends and develop business strategies to maximize value within the polymer value chain.

