



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

School of Bio and Chemical engineering

Department of Chemical Engineering

1.3.2 - Value added courses conducted during 2022 -2023

S. No	Title	Event Dates	Page No.
1	Recent trends in nanotechnology and nanomaterials	12-07-2022 to 13-08-2022	2
2	Hands on training in process simulation software	23-08-2022 to 24-09-2022	9
3	Aptitude and computer coding training	10-10-2022 to 12-11-2022	16
4	Fundamentals of molecular simulations	19-11-2022 to 20-12-2022	22
5	Introduction to biomass and Biorefinery	10-01- 2023 to 12-02-2023	28

1. Recent trends in nanotechnology and nanomaterials



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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

Recent trends in nanotechnology and nanomaterials

FROM

12TH July 2022

TO

13TH August 2022

Course Coordinators

1. Dr.S.Sathish – Associate Professor and Head, Department of Chemical Engineering, Sathyabama Institute of Science and Technology
2. Dr.S.S.Dawn – Professor & Head, Centre for Waste Management, Sathyabama Institute of Science and Technology
3. Dr.D.Prabhu – Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology
4. Dr.J. Arun, Scientist, Centre for Waste Management, Sathyabama Institute of Science and Technology

For registration:

https://docs.google.com/forms/d/1wOAmqojQhXUuNonafLNsP4F_YtqbMFXf9BBuaa1ySIq/edit

For Queries contact: chemicalhod@sathyabama.ac.in

Objective of this course:

To learn the fundamentals of Molecular Simulations and develop the ability to apply simulation techniques to study relevant problems.

Course Outcomes:

1. Learn the basic concept of fundamentals of nanotechnology.
2. General introduction to different classes of nanomaterials
3. Improve their knowledge on various synthesis methods of nanomaterials by chemical method
4. Understand the knowledge on various synthesis methods of nanomaterials by physical method
5. Familiarize themselves with nanotechnology potentialities.

Module	Topics	Course Coordinator	No of Sessions	Platform
1	Basics and Scale of Nanotechnology, Introduction and scientific revolutions, Time and length scale in structures, Definition of a nanosystem, Dimensionality and size dependent phenomena, Surface to volume ratio, Surface stress and surface defects, Properties at nanoscale – optical & mechanical.	Dr.S.Sathish	6 hr	Seminar Hall
2	Different Classes of Nanomaterials, Classification based on dimensionality, Carbon-based nano materials – fullerenes and buckyballs, Carbon nanotubes and graphene, Metal based nano materials – Nanogold and Nanosilver, Biological nanomaterials.	Dr.Arun	6 hr	Seminar Hall
3	Synthesis of Nanomaterials by chemical methods, Metal nanocrystals by reduction, Solvothermal synthesis and photochemical synthesis, Sonochemical routes and chemical vapor deposition (CVD), Metal oxide chemical vapor deposition (MOCVD).	Dr.S.S.Dawn	6hr	Seminar Hall
4	Synthesis of Nanomaterials by physical methods, Ball milling, Electrodeposition techniques, Spray pyrolysis and flame pyrolysis, DC/RF	Dr.D.Prabhu	4hr	Seminar Hall

	magnetron sputtering, Molecular beam epitaxy (MBE)			
5	Applications in Nanotechnology. Solar energy conversion and catalysis, Molecular electronics, nanoelectronics and printed electronics, Polymers with a special architecture, liquid crystalline systems, Applications - nanomaterials for data storage, Chemical and biosensors.	Dr.S.S.Dawn/ Dr.J.Arun	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.

Recent trends in nanotechnology and nanomaterials

Attendance Certificate									
S. No	Name	Reg.No.	Department	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
1	S.Gayathri	39190004	CHEMICAL ENGINEERING	S.gayathri	S.gayathri	S.gayathri	S.gayathri	A	S.gayathri
2	Manikandan N	39190015	CHEMICAL ENGINEERING	Mani	Mani	Mani	Mani	Mani	Mani
3	N.manasa	39190021	CHEMICAL ENGINEERING	m	m	m	m	m	m
4	Siddharth.U	39190031	CHEMICAL ENGINEERING	Siddharth	Siddharth	Siddharth	Siddharth	Siddharth	Siddharth
5	Abdul hameed	40190001	CHEMICAL ENGINEERING	hameed	hameed	hameed	hameed	hameed	hameed
6	A.CHRISTILA FERNANDO	40190006	CHEMICAL ENGINEERING	christila fernando	christila fernando	christila fernando	christila fernando	christila fernando	christila fernando
7	K.dhanush kodi	40190007	CHEMICAL ENGINEERING	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush
8	Gade divyanjali	40190008	CHEMICAL ENGINEERING	Gade	Gade	Gade	Gade	Gade	Gade
9	K. Kartheesh	40190009	CHEMICAL ENGINEERING	K	K	K	K	K	K
10	T.Lokesh kumar	40190010	CHEMICAL ENGINEERING	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh
11	Srayansh kashyap	40190031	CHEMICAL ENGINEERING	Srayansh	Srayansh	Srayansh	Srayansh	Srayansh	Srayansh
12	Vinukonda Sumanth	40190032	CHEMICAL ENGINEERING	Vinukonda	Vinukonda	Vinukonda	Vinukonda	Vinukonda	Vinukonda
13	Kalla Gireesh Venkata Ramana	40190033	CHEMICAL ENGINEERING	Kalla	Kalla	Kalla	Kalla	Kalla	Kalla
14	Madhavraj S	40190034	CHEMICAL ENGINEERING	Madhavraj	Madhavraj	Madhavraj	Madhavraj	Madhavraj	Madhavraj
15	G.Ajith	39180001	EIE	Ajith	Ajith	Ajith	Ajith	Ajith	Ajith
16	Vijayaganesh.k	39190037	CHEMICAL ENGINEERING	Vijayaganesh	Vijayaganesh	Vijayaganesh	Vijayaganesh	Vijayaganesh	Vijayaganesh
17	Satish Kumar k	39190029	CHEMICAL ENGINEERING	Satish	Satish	Satish	Satish	Satish	Satish
18	Suresh	39190033	CHEMICAL ENGINEERING	Suresh	Suresh	Suresh	Suresh	Suresh	Suresh
19	Kaviamudhan	39190011	CHEMICAL ENGINEERING	Kaviamudhan	Kaviamudhan	Kaviamudhan	Kaviamudhan	Kaviamudhan	Kaviamudhan
20	SK SAKIL MOHAMMAD	40150041	MECHANICAL ENGINEERING	Sakil	Sakil	Sakil	Sakil	Sakil	Sakil
21	AARTHI R	40110006	COMPUTER SCIENCE AND ENGINEERING	Arathi	Arathi	Arathi	Arathi	Arathi	Arathi
22	TANGELLA HEMANTH	40111316	COMPUTER SCIENCE AND ENGINEERING	Hemant	Hemant	Hemant	Hemant	Hemant	Hemant
23	LANKI REDDY KARTHIK REDDY	40110668	COMPUTER SCIENCE AND ENGINEERING	Lanki	Lanki	Lanki	Lanki	Lanki	Lanki

24	NURUKURTHI TARUN KUMAR	40110869	COMPUTER SCIENCE AND ENGINEERING	Nurukurthi	Nurukurthi	Nurukurthi	Nurukurthi	Nurukurthi	Nurukurthi
25	MAJIGA SUMANTH REDDY	40110697	COMPUTER SCIENCE AND ENGINEERING	Majiga	Majiga	Majiga	Majiga	Majiga	Majiga
26	THEJESH. P	40111334	COMPUTER SCIENCE AND ENGINEERING	Thejesh	Thejesh	Thejesh	Thejesh	Thejesh	Thejesh
27	BOLLI SURESH	40110203	COMPUTER SCIENCE AND ENGINEERING	Bolli	Bolli	Bolli	Bolli	Bolli	Bolli
28	NALLAGONDU HARSHA VARDHAN RED	40110821	COMPUTER SCIENCE AND ENGINEERING	Nallagonda	Nallagonda	A	N.G.H	N.G.H	N.G.H
29	ADAPA SIVA NARENDAR	40111557	COMPUTER SCIENCE AND ENGINEERING	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa
30	SAYED ABDUL KHADIR	40111159	COMPUTER SCIENCE AND ENGINEERING	Sayed	Sayed	Sayed	Sayed	Sayed	Sayed
31	DONATHI SHASHANK	40110335	COMPUTER SCIENCE AND ENGINEERING	Donathi	Donathi	Donathi	Donathi	Donathi	Donathi
32	PRAJAPNOOR BASWARAJ	40110161	COMPUTER SCIENCE AND ENGINEERING	Praja	Praja	Praja	Praja	Praja	Praja
33	PARJAPNOOR PAVAN	40110906	COMPUTER SCIENCE AND ENGINEERING	Parja	Parja	Parja	Parja	Parja	Parja
34	NELLAPALA SURI BABU	40111563	COMPUTER SCIENCE AND ENGINEERING	Nellapala	Nellapala	Nellapala	Nellapala	Nellapala	Nellapala
35	R. ANUSHA	41190001	CHEMICAL ENGINEERING	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha
36	MOLLETI HARSHA VARDHAN RAMESH	41190021	CHEMICAL ENGINEERING	Molleti	Molleti	Molleti	Molleti	Molleti	Molleti
37	KAMESHWARAN B	41190015	CHEMICAL ENGINEERING	Kamesh	Kamesh	Kamesh	Kamesh	Kamesh	Kamesh
38	LOGESHWARAN.T	41190017	CHEMICAL ENGINEERING	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh
39	JOHN BRIGHT J	41190014	CHEMICAL ENGINEERING	John	John	John	A	John	John
40	VASANTHAKUMAR R	41190034	CHEMICAL ENGINEERING	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
41	Madhan P	40190011	CHEMICAL ENGINEERING	Madhan	Madhan	Madhan	Madhan	Madhan	Madhan
42	Malikai Mulki.A	40190012	CHEMICAL ENGINEERING	Malikai	Malikai	Malikai	Malikai	Malikai	Malikai
43	Muhammed Fadhil	40190013	CHEMICAL ENGINEERING	Muhammed	Muhammed	Muhammed	Muhammed	Muhammed	Muhammed
44	NAVEEN PRASATH K	40190014	CHEMICAL ENGINEERING	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
45	Nithish s	40190015	CHEMICAL ENGINEERING	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish
46	Deepak Raj	39180003	EIE	Deepak	Deepak	Deepak	Deepak	Deepak	Deepak
47	Jeya Nivethan	39180006	EIE	Jeya	Jeya	Jeya	Jeya	Jeya	Jeya
48	Naveenkumar	39180009	EIE	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
49	D.Ragul Belson	39180011	EIE	Ragul	Ragul	Ragul	Ragul	Ragul	Ragul
50	Sabari Narayanan . P	39180012	EIE	Sabari	Sabari	Sabari	Sabari	Sabari	Sabari

51	HARIRAJ.N.S	39180702	EIE	Hare	Hare	Hare	Hare	Hare	Hare
52	ARUN.K.G	39190002	CHEMICAL ENGINEERING	Arun	Arun	Arun	Arun	Arun	Arun
53	NIVYA B	39190023	CHEMICAL ENGINEERING	Nivya.B	Nivya.B	Nivya.B	Nivya.B	Nivya.B	Nivya.B
54	Lalithambegai	39190013	CHEMICAL ENGINEERING	Lalitha	Lalitha	Lalitha	Lalitha	Lalitha	Lalitha
55	VENNA SAI SUDHARSHAN REDDY	40111428	COMPUTER SCIENCE AND ENGINEERING	Venna	Venna	Venna	Venna	Venna	Venna
56	CHEKKA VAMSI KRISHNA	40110249	COMPUTER SCIENCE AND ENGINEERING	Checca	Checca	Checca	Checca	Checca	Checca
57	ABHISHEK BAJPAI	40110014	COMPUTER SCIENCE AND ENGINEERING	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
58	SANKA LOHITH	40111140	COMPUTER SCIENCE AND ENGINEERING	Sanka	Sanka	Sanka	Sanka	Sanka	Sanka
59	SAMBARU BALAJI GANESH	40111116	COMPUTER SCIENCE AND ENGINEERING	Sambaru	Sambaru	Sambaru	Sambaru	Sambaru	Sambaru
60	KOLLI SAI YASWANTH REDDY	40111584	COMPUTER SCIENCE AND ENGINEERING	Kolli	Kolli	Kolli	Kolli	Kolli	Kolli
61	MADDI LALITH	40110683	COMPUTER SCIENCE AND ENGINEERING	Maddi	Maddi	Maddi	Maddi	Maddi	Maddi
62	SAMA SUBHADRA	40111114	COMPUTER SCIENCE AND ENGINEERING	Sama	Sama	Sama	Sama	Sama	Sama
63	Jayasuriya R	39190009	CHEMICAL ENGINEERING	Jayasuriya	Jayasuriya	Jayasuriya	Jayasuriya	Jayasuriya	Jayasuriya
64	MOHAMED IQBAL A	39190019	CHEMICAL ENGINEERING	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed
65	Jaya Chandra R	39190026	CHEMICAL ENGINEERING	Jaya	Jaya	Jaya	Jaya	Jaya	Jaya
66	Dileep Raja	39190035	CHEMICAL ENGINEERING	Dileep	Dileep	Dileep	Dileep	Dileep	Dileep
67	S.R.ARUN	40190004	CHEMICAL ENGINEERING	S.R.Arun	S.R.Arun	S.R.Arun	S.R.Arun	S.R.Arun	S.R.Arun
68	Ramaraja	40190021	CHEMICAL ENGINEERING	Ramaraja	Ramaraja	Ramaraja	Ramaraja	Ramaraja	Ramaraja
69	Sajin Johny	40190022	CHEMICAL ENGINEERING	Sajin	Sajin	Sajin	Sajin	Sajin	Sajin
70	Santhosh Kumar J	40190023	CHEMICAL ENGINEERING	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh
71	Sathish B	40190024	CHEMICAL ENGINEERING	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish
72	Sitharthan S	40190025	CHEMICAL ENGINEERING	Sitharthan	Sitharthan	Sitharthan	Sitharthan	Sitharthan	Sitharthan
73	Dhishon Franklin. F	39190003	CHEMICAL ENGINEERING	Dhishon	Dhishon	Dhishon	Dhishon	Dhishon	Dhishon
74	Godwin Gopinathan	39190005	CHEMICAL ENGINEERING	Godwin	Godwin	Godwin	Godwin	Godwin	Godwin
75	JOBIN CHACKO	39190010	CHEMICAL ENGINEERING	Jobin	Jobin	Jobin	Jobin	Jobin	Jobin

C. S. S. S.

Students from Chemical Engineering : 45



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CERTIFICATE

Of Participation

This certificate is presented to

Manikandan N (39190015)

Has participated in "**Recent Trends in Nanotechnology and Nano-materials**" program organised by
Department of Chemical Engineering, Sathyabama Institute of Science and Technology,
Chennai-119 From 12/07/2022 To 13/08/2022.

Dr. S. Sathish
HEAD OF THE DEPARTMENT
CHEMICAL ENGINEERING



Dr. D. Prabu
ASSOCIATE PROFESSOR
CHEMICAL ENGINEERING

Recent trends in nanotechnology and nanomaterials

(12TH July 2022 to 13TH August 2022)

Course Outcomes:

The participants

- Understand the fundamentals of nanotechnology.
- Differentiate various classes of nanomaterials
- Recognize synthesis methods of nanomaterials by chemical method and physical method
- Familiarize themselves with nanotechnology potentialities



2. Hands on training in process simulation software



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DEPARTMENT OF CHEMICAL ENGINEERING

VALUE ADDED COURSE ON

Hands on Training in process simulation software

FROM

23-08- 2022

TO

24-09-2022

Course Coordinator

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

For registration:

https://docs.google.com/forms/d/1w0AcqojQhmUuQonafLNsP4F_YtqbUFXf7ttuaa1yFuW/edit

For Queries contact: chemicalhod@sathyabama.ac.in

Objective of this course:

To develop necessary skills to design process plant using process simulation software

Course Outcomes:

1. Learn the overview process fundamentals
2. Apply material and energy balance
3. Understand unit processes/operations involved in process industries

4. Develop detailed engineering concept
5. Develop conceptual design of a chemical plant.
6. Design major unit processes/operations of a refinery industries

Module	Topics	Name of the Faculty	No of Sessions	Venue
1	The systematic Analysis of Chemical Processes, Representation of a Chemical Process in terms of Flow sheet. Scale of Chemical Processes.	Dr.D Venkatesan	6 hr	Seminar Hall
2	Material and Energy balance	Mr. Michael Rahul Soosai	6 hr	Seminar Hall
3	Synthesis of separation systems – separation system design, vapor recovery and gas separation, liquid separation, simple distillation, complex separations – azeotropic distillation, reactive distillation, pressure swing distillation, heat integration, challenges in the design of future separation processes	Dr.D Prabhu	6hr	Seminar Hall
4	Examples and simulation of mathematical models of chemical engineering systems, introduction, isothermal, constant hold up CSTRs, CSTRs with variable hold, ups, two heated tanks, gas phase pressurized CSTR, non, isothermal CSTR, single component vaporizer, multi, component flash drum, batch reactor,	Dr. M. Kartikeyan	6hr	Seminar Hall
5	Process Simulation, steady state dynamic simulation of simple distillation unit using aspen plus- open loop dynamics and control structure synthesis, closed loop dynamics, introduction to process engineering packages and simulation of simple distillation unit using computer programming, reactor/ separator/ recycle systems, introduction to plant wide control	Dr. D Venkatesan	6hr	Seminar Hall
6	Assessment	Dr. D Prabhu	1hr	Seminar Hall

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.

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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.

Hands on Training in process simulation software

Attendance Certificate									
S. No	Name	Reg.No.	Department	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
1	V.Gokul	39190006	CHEMICAL ENGINEERING	V.Gokul	V.Gokul	V.Gokul	V.Gokul	V.Gokul	V.Gokul
2	Menivannan U S	39190016	CHEMICAL ENGINEERING	MANI	MANI	MANI	A	MANI	MANI
3	Raguram.N	39190024	CHEMICAL ENGINEERING	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu
4	SUBASHINI S E	39190032	CHEMICAL ENGINEERING	SUBA	SUBA	SUBA	SUBA	SUBA	SUBA
5	Ankit Mylarapu	40190002	CHEMICAL ENGINEERING	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit
6	Madhan P	40190011	CHEMICAL ENGINEERING	MADHAN	MADHAN	MADHAN	MADHAN	MADHAN	MADHAN
7	Malikal Mulki.A	40190012	CHEMICAL ENGINEERING	Mali	Mali	Mali	Mali	Mali	Mali
8	Muhammed Fadhi	40190013	CHEMICAL ENGINEERING	F	F	F	F	F	F
9	NAVEEN PRASATH K	40190014	CHEMICAL ENGINEERING	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
10	Nithish s	40190015	CHEMICAL ENGINEERING	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish
11	Deepak Raj	39180003	EIE	Deepak	Deepak	Deepak	Deepak	Deepak	Deepak
12	Jeya Nivethan	39180006	EIE	Jeya	Jeya	Jeya	Jeya	Jeya	Jeya
13	Naveenkumar	39180009	EIE	A	Naveen	Naveen	Naveen	Naveen	Naveen
14	D.Ragul Belson	39180011	EIE	Ragul	Ragul	Ragul	Ragul	Ragul	Ragul
15	Sabari Narayanan . P	39180012	EIE	Sabari	Sabari	Sabari	Sabari	Sabari	Sabari
16	CHEKKA VAMSI KRISHNA	40110249	COMPUTER SCIENCE AND ENGINEERING	Che	Che	Che	Che	Che	Che
17	ABHISHEK BAJPAI	40110014	COMPUTER SCIENCE AND ENGINEERING	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
18	SANKA LOHITH	40111140	COMPUTER SCIENCE AND ENGINEERING	Sanka	Sanka	Sanka	Sanka	Sanka	Sanka
19	SAMBARU BALAJI GANESH	40111116	COMPUTER SCIENCE AND ENGINEERING	S	A	S	S	S	S
20	KOLLI SAI YASWANTH REDDY	40111584	COMPUTER SCIENCE AND ENGINEERING	Kolli	Kolli	Kolli	Kolli	Kolli	Kolli
21	MADDI LALITH	40110683	COMPUTER SCIENCE AND ENGINEERING	Maddi	Maddi	Maddi	Maddi	Maddi	Maddi
22	SAMA SUBHADRA	40111114	COMPUTER SCIENCE AND ENGINEERING	Sama	Sama	Sama	Sama	Sama	Sama
23	SANDADI DEEPAK REDDY	40111127	COMPUTER SCIENCE AND ENGINEERING	S.D.	S.D.	S.D.	S.D.	S.D.	S.D.

Sonim

24	VEGESNA YESHWANTH VARMA	40111567	COMPUTER SCIENCE AND ENGINEERING	V.V	V.V	V.V	V.V	V.V	V.V
25	SJ.THARUN KUMAR	41190032	CHEMICAL ENGINEERING	S.J	S.J	S.J	S.J	S.J	S.J
26	RINO BENITTO	41190027	CHEMICAL ENGINEERING	Rino	Rino	Rino	Rino	Rino	Rino
27	MADARAPU YAMINI PRIYA	41190018	CHEMICAL ENGINEERING	Mad	Mad	Mad	Mad	Mad	Mad
28	SATHIGANESH K V	41190703	CHEMICAL ENGINEERING	Sath	Sath	Sath	Sath	Sath	Sath
29	YASWANTH A	41190704	CHEMICAL ENGINEERING	A.Y	A.Y	A.Y	A.Y	A.Y	A.Y
30	IEEV THEJUS.P	41190013	CHEMICAL ENGINEERING	Ieev	Ieev	Ieev	Ieev	Ieev	Ieev
31	Bharathi A	41190006	CHEMICAL ENGINEERING	Bha	Bha	Bha	Bha	Bha	Bha
32	J JENOFIUS KEVIN	41190012	CHEMICAL ENGINEERING	Jee	Jee	Jee	Jee	Jee	Jee
33	Bagyalakshmi D	41190004	CHEMICAL ENGINEERING	Bag	Bag	Bag	Bag	Bag	Bag
34	REYA DASH	41190026	CHEMICAL ENGINEERING	Rey	Rey	Rey	Rey	Rey	Rey
35	RISHI RAMA	41190028	CHEMICAL ENGINEERING	Rishi	Rishi	Rishi	Rishi	Rishi	Rishi
36	GAYATHRI G	41190009	CHEMICAL ENGINEERING	Gay	Gay	Gay	Gay	Gay	Gay
37	BARATHKAWIN.S.K.V	41190005	CHEMICAL ENGINEERING	Bar	Bar	Bar	Bar	Bar	Bar
38	SWEETHAS	41240046	BIOMEDICAL	S	S	S	S	S	S
39	SURUTHIKA V	41230063	BIOTECHNOLOGY	Sv	Sv	Sv	Sv	Sv	Sv
40	VASANTHAKUMAR R	41190034	CHEMICAL ENGINEERING	Vas	Vas	Vas	Vas	Vas	Vas
41	Srayansh kashyap	40190031	CHEMICAL ENGINEERING	Sray	Sray	Sray	Sray	Sray	Sray
42	Vinukonda Sumanth	40190032	CHEMICAL ENGINEERING	Vin	Vin	Vin	Vin	Vin	Vin
43	Kalla Gireesh Venkata Ramana	40190033	CHEMICAL ENGINEERING	Ka	Ka	Ka	Ka	Ka	Ka
44	Madhavraj S	40190034	CHEMICAL ENGINEERING	Mad	Mad	Mad	Mad	Mad	Mad
45	G.Ajith	39180001	EIE	Ajith	Ajith	Ajith	Ajith	Ajith	Ajith
46	Vijayaganesh.k	39190037	CHEMICAL ENGINEERING	V.K	V.K	V.K	V.K	V.K	V.K
47	Satish Kumar k	39190029	CHEMICAL ENGINEERING	Sat	Sat	Sat	Sat	Sat	Sat
48	Suresh	39190033	CHEMICAL ENGINEERING	Suresh	Suresh	Suresh	Suresh	Suresh	Suresh
49	Kaviyamudhan	39190011	CHEMICAL ENGINEERING	Kavi	Kavi	Kavi	Kavi	Kavi	Kavi
50	SK SAKIL MOHAMMAD	40150041	MECHANICAL ENGINEERING	MD	MD	MD	MD	MD	MD

Sonim

51	AARTHI R	40110006	COMPUTER SCIENCE AND ENGINEERING	Arti	Arti	Arti	Arti	Arti	Arti
52	TANGELLA HEMANTH	40111316	COMPUTER SCIENCE AND ENGINEERING	T.H	T.H	T.H	T.H	T.H	T.H
53	LANKI REDDY KARTHIK REDDY	40110668	COMPUTER SCIENCE AND ENGINEERING	LPR	LPR	LPR	LPR	LPR	LPR
54	NURUKURTHI TARUN KUMAR	40110869	COMPUTER SCIENCE AND ENGINEERING	NUR	NUR	NUR	NUR	NUR	NUR
55	MAJJIGA SUMANTH REDDY	40110697	COMPUTER SCIENCE AND ENGINEERING	Maj	Maj	Maj	Maj	Maj	Maj
56	THEJESH P	40111334	COMPUTER SCIENCE AND ENGINEERING	The	The	The	The	The	The
57	BOLLI SURESH	40110203	COMPUTER SCIENCE AND ENGINEERING	Bolli	Bolli	Bolli	Bolli	Bolli	Bolli
58	NALLAGONDU HARSHA VARDHAN REDDY	40110821	COMPUTER SCIENCE AND ENGINEERING	Nall	Nall	Nall	Nall	Nall	Nall
59	ADAPA SIVA NARENDAR	40111557	COMPUTER SCIENCE AND ENGINEERING	San	San	San	San	San	San
60	SAYED ABDUL KHADIR	40111159	COMPUTER SCIENCE AND ENGINEERING	A	A	A	A	A	A
61	DONATHI SHASHANK	40110335	COMPUTER SCIENCE AND ENGINEERING	Don	Don	Don	Don	Don	Don
62	NITISH S	39190022	CHEMICAL ENGINEERING	Ni	Ni	Ni	Ni	Ni	Ni
63	Kowdham C	39190012	CHEMICAL ENGINEERING	Kach	Kach	Kach	Kach	Kach	Kach
64	Nakkeeran M	38190008	CHEMICAL ENGINEERING	NM	NM	NM	NM	NM	NM
65	Devan	38190016	CHEMICAL ENGINEERING	Dev	Dev	Dev	Dev	Dev	Dev
66	MOHAMED IBRAHIM S	39190018	CHEMICAL ENGINEERING	Mi	Mi	Mi	Mi	Mi	Mi
67	MASBOYINA HIMA VARSHA	40110741	COMPUTER SCIENCE AND ENGINEERING	M.H	M.H	M.H	M.H	M.H	M.H
68	GADE AJAY REDDY	40110355	COMPUTER SCIENCE AND ENGINEERING	Grade	Grade	Grade	Grade	Grade	Grade
69	LANKA SWAMY MANIKANTA	40111304	COMPUTER SCIENCE AND ENGINEERING	Lan	Lan	A	Lan	Lan	Lan
70	JHANSI ARUNA MEDAPATI	40110746	COMPUTER SCIENCE AND ENGINEERING	Jan	Jan	Jan	Jan	Jan	Jan
71	NAGANDLA SAI SREEJA	40110815	COMPUTER SCIENCE AND ENGINEERING	NAS	NAS	NAS	NAS	NAS	NAS
72	S MITHINESH JAYA KUMAR	40110763	COMPUTER SCIENCE AND ENGINEERING	Ms	Ms	Ms	Ms	Ms	Ms
73	RAVINDRA REDDY T	40111326	COMPUTER SCIENCE AND ENGINEERING	Ran	Ran	Ran	Ran	Ran	Ran
74	KOVVURI RISHI VARSHITHA REDDY	40110644	COMPUTER SCIENCE AND ENGINEERING	Kan	Kan	Kan	Kan	A	Kan
75	BANDA KANISHKA REDDY	40110153	COMPUTER SCIENCE AND ENGINEERING	B.K	B.K	B.K	B.K	B.K	B.K
76	PAVAN KALYAN REDDY	40110877	COMPUTER SCIENCE AND ENGINEERING	P.K.R	P.K.R	P.K.R	P.K.R	P.K.R	P.K.R
77	NAVULURI SAI RAM	40110843	COMPUTER SCIENCE AND ENGINEERING	N	A	N	N	N	N

Not Eligible

Santh

78	UTTARKAR SRINIVAS RAO	40111370	COMPUTER SCIENCE AND ENGINEERING	Rao	Rao	Rao	Rao	Rao	Rao
79	KOLA HEMANTH VENKAT	40110606	COMPUTER SCIENCE AND ENGINEERING	A	A	A	A	A	A
80	N HARI KRISHNA SAI	40110811	COMPUTER SCIENCE AND ENGINEERING	Hani	Hani	Hani	Hani	Hani	Hani
81	MUTHUKRISHNAN	41110832	COMPUTER SCIENCE AND ENGINEERING	M	m	m	m	m	m
82	B.BRIGHT SAM	41110226	COMPUTER SCIENCE AND ENGINEERING	Bright	Bright	Bright	Bright	Bright	Bright

Not Eligible

Santh



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(DEEMED TO BE UNIVERSITY)

ACCREDITED WITH GRADE "A" BY NAAC | 12B STATUS BY UGC | APPROVED BY AICTE



CERTIFICATE

OF PARTICIPATION

This is to certify

Raguram. N (39190024)

Has participated in "**Hands on Training in Process Simulation Software**" program organised by
Department of Chemical Engineering, Sathyabama Institute of Science and Technology,
Chennai-119 From 23/08/2022 To 24/09/2022.

Dr. S. Sathish
HEAD OF THE DEPARTMENT
CHEMICAL ENGINEERING



Dr. A. Annam Renita
ASSPROFESSOR
CHEMICAL ENGINEERING

Hands on Training in process simulation software

(23-08- 2022 to 24-09-2022)

Course Outcomes:

The participants

- Learn the overview process fundamentals
- Apply material and energy balance
- Understand unit processes/operations involved in process industries
- Develop detailed engineering concept
- Develop conceptual design of a chemical plant.
- Design major unit processes/operations of a refinery industries



3. Aptitude and computer coding training



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SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF CHEMICAL ENGINEERING

IN ASSOCIATION WITH

PLACEMENT CELL

VALUE ADDED COURSE ON

Aptitude and Computer Coding Training

FROM

10-10-2022

TO

12-11-2022

Course Coordinator

1. Dr Annam Renita - Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology
2. Dr. D Prabhu – Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology

For registration:

https://docs.google.com/forms/d/1w0AcqojQhmUuQonafLNsP4F_YtqbUmXf9ttuaa1yFuo/edit

For Queries contact: chemicalhod@sathyabama.ac.in

Objective of this course:

Aims to increase learner's computer knowledge and unique soft skills so as to develop attributes that enhance an individual's interactions, earning power and job performance.

The objective of the programme is to inculcate potential skills in the learners to prepare them to deal with the external world in a collaborative manner, communicate effectively, take initiative, solve problems, and demonstrate a positive work ethic so as to hold a good impression and positive impact.

Course Outcomes:

1. Analysis of problems
2. Apply Soft skills
3. Understand programming Skills
4. Develop skills to solve problems
5. Develop conceptual design of a plant.

Module	Topics	Name of the Faculty	No of Sessions	Venue
1	Introduction to Soft Skills, Communication Skills, Presentation Skills, Time Management Skills	Dr. M Kartikeyan	8 hr	Seminar Hall
2	Body Language & Etiquettes, Group Discussion & Interview Skills, Preparation of CV	Dr. Annam Renita	8 hr	Seminar Hall
3	Emotional Intelligence Skills, Life Skills, Presentation on Soft Skills, Activities related to Soft Skills	Dr. D. Prabhu	8 hr	Seminar Hall
4	Why Programming History of C, Identifiers in C Variables and DataTypes Constants, If Statement Switch Statement Unconditional Branching using goto statement While Loop Do While Loop For Loop Break and Continue Special Cases	Mr. Michael Rahul Soosai	8 hr	Seminar Hall
5	Introduction to Pointers,	Dr. S. Satish	8 hr	Seminar Hall
	Pointers as Function Parameter, Pointer Arithmetic, Pointers and Arrays, Function Pointers, Dynamic Memory String Handling Introduction to Strings Sample Program More Sample Programs Standard String Library Functions Array of String	Mr. Michael Rahul Soosai		
6	Assessment	Mr.D Prabhu	1hr	Seminar Hall

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.

Aptitude and Computer Coding Training

Attendance Certificate				Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
S. No	Name	Reg.No.	Department						
1	Gopi Krishnan P	39190007	CHEMICAL ENGINEERING	Gopkrish	Gopkrish	Gopkrish	Gopkrish	Gopkrish	Gopkrish
2	Mark Joevin	39190017	CHEMICAL ENGINEERING	M.K	M.K	M.K	M.K	M.K	M.K
3	Ramki J	39190025	CHEMICAL ENGINEERING	Ramki	Ramki	Ramki	Ramki	Ramki	Ramki
4	Surya Kumar R	39190034	CHEMICAL ENGINEERING	Surya	Surya	Surya	Surya	Surya	Surya
5	Anto froilin	40190003	CHEMICAL ENGINEERING	Anto	Anto	Anto	Anto	Anto	Anto
6	Pavi Namruthaa.v	40190016	CHEMICAL ENGINEERING	Pavi	Pavi	Pavi	Pavi	Pavi	Pavi
7	Prithvirajan D	40190017	CHEMICAL ENGINEERING	Prithvi	Prithvi	Prithvi	Prithvi	Prithvi	Prithvi
8	RAAJA VEERAPPAN.S	40190018	CHEMICAL ENGINEERING	Raja	Raja	Raja	Raja	Raja	Raja
9	Rajeth Raghunath	40190019	CHEMICAL ENGINEERING	Rajeth	Rajeth	Rajeth	Rajeth	Rajeth	Rajeth
10	RAKSHANAR	40190020	CHEMICAL ENGINEERING	Raksha	Raksha	Raksha	Raksha	Raksha	Raksha
11	Roshan varshan	39180701	EIE	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan
12	HARIRAJ.N.S	39180702	EIE	Hariraj	Hariraj	Hariraj	Hariraj	Hariraj	Hariraj
13	ARUN.K.G	39190002	CHEMICAL ENGINEERING	Arun	Arun	Arun	Arun	Arun	Arun
14	NIVYA B	39190023	CHEMICAL ENGINEERING	Nivya	Nivya	Nivya	Nivya	Nivya	Nivya
15	Lalithambegai	39190013	CHEMICAL ENGINEERING	Lalitha	Lalitha	Lalitha	Lalitha	Lalitha	Lalitha
16	VENNA SAI SUDHARSHAN REDDY	40111428	COMPUTER SCIENCE AND ENGINEERING	Venna	Venna	Venna	Venna	Venna	Venna
17	BATHULA GOWTHAM REDDY	40110163	COMPUTER SCIENCE AND ENGINEERING	Bathula	Bathula	Bathula	Bathula	Bathula	Bathula
18	THANGELLAMUDI ABHINAV	40731113	COMPUTER SCIENCE AND ENGINEERING WITH SPECIALIZATION IN ARTIFICIAL INTELLIGENCE	Thanga	Thanga	Thanga	Thanga	Thanga	Thanga
19	PICHKALA SRI KRISHNA KUMARI	40111258	COMPUTER SCIENCE AND ENGINEERING	Pichkala	Pichkala	Pichkala	Pichkala	Pichkala	Pichkala
20	YADLA JAYA NAGA SAI SWETHA	40111458	COMPUTER SCIENCE AND ENGINEERING	Yadla	Yadla	Yadla	Yadla	Yadla	Yadla
21	UMESH CHAND. V	40731120	COMPUTER SCIENCE AND ENGINEERING WITH SPECIALIZATION IN ARTIFICIAL INTELLIGENCE	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh
22	PASHAM VYSHNAVI	40111456	COMPUTER SCIENCE AND ENGINEERING	Pasham	Pasham	Pasham	Pasham	Pasham	Pasham
23	VUYURU PRANTHA REDDY	40111455	COMPUTER SCIENCE AND ENGINEERING	Vuyuru	Vuyuru	Vuyuru	Vuyuru	Vuyuru	Vuyuru
24	CHENNA ANVESH KUMAR	40110255	COMPUTER SCIENCE AND ENGINEERING	Chenna	Chenna	Chenna	Chenna	Chenna	Chenna
25	K HONEY PRASANNA REDDY	40110627	COMPUTER SCIENCE AND ENGINEERING	K Honey	K Honey	K Honey	K Honey	K Honey	K Honey
26	AKSHA VARDHINI G	41230007	BIOTECHNOLOGY	Aksha	Aksha	Aksha	Aksha	Aksha	Aksha
27	HENIN RICKY E	41150030	MECHANICAL ENGINEERING	Henin	Henin	Henin	Henin	Henin	Henin
28	SRELAHARI B	41240045	BIOMEDICAL	Srela	Srela	Srela	Srela	Srela	Srela
29	ANTONY USHA ANU RETHILA	41240048	BIOMEDICAL	Antony	Antony	Antony	Antony	Antony	Antony
30	APARNA M	41230011	BIOTECHNOLOGY	Aparna	Aparna	Aparna	Aparna	Aparna	Aparna

Signature

31	CALVIN NESAN S V	41120044	INFORMATION TECHNOLOGY	Calvin	Calvin	Calvin	Calvin	Calvin	Calvin
32	HARIHARAN SENTHILKUMAR	41120063	INFORMATION TECHNOLOGY	Harihar	Harihar	Harihar	Harihar	Harihar	Harihar
33	GODWIN VINOL	41120060	INFORMATION TECHNOLOGY	Godwin	Godwin	Godwin	Godwin	Godwin	Godwin
34	ARAVIND GURUSAMY	41120023	INFORMATION TECHNOLOGY	Aravind	Aravind	Aravind	Aravind	Aravind	Aravind
35	YERRASANI SAI MANISH REDDY	41111430	COMPUTER SCIENCE AND ENGINEERING	Yerrasa	Yerrasa	Yerrasa	Yerrasa	Yerrasa	Yerrasa
36	ANUSHA NAIDU.M	41110110	COMPUTER SCIENCE AND ENGINEERING	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha
37	MATHEW M KANICHA	41110792	COMPUTER SCIENCE AND ENGINEERING	Mathew	Mathew	Mathew	Mathew	Mathew	Mathew
38	BHEEMSETTY GOKUL	41111440	COMPUTER SCIENCE AND ENGINEERING	Bheem	Bheem	Bheem	Bheem	Bheem	Bheem
39	GATTAM TEJASVI	41111264	COMPUTER SCIENCE AND ENGINEERING	Gattam	Gattam	Gattam	Gattam	Gattam	Gattam
40	K.V.L.YASHWANTH	41111419	COMPUTER SCIENCE AND ENGINEERING	K.V.L.	K.V.L.	K.V.L.	K.V.L.	K.V.L.	K.V.L.
41	BANDA KANISHKA REDDY	40110153	COMPUTER SCIENCE AND ENGINEERING	Banda	Banda	Banda	Banda	Banda	Banda
42	PAVAN KALYAN REDDY	40110877	COMPUTER SCIENCE AND ENGINEERING	Pavan	Pavan	Pavan	Pavan	Pavan	Pavan
43	NAVULURI SAI RAM	40110843	COMPUTER SCIENCE AND ENGINEERING	Navulu	Navulu	Navulu	Navulu	Navulu	Navulu
44	UTTARKAR SRINIVAS RAO	40111370	COMPUTER SCIENCE AND ENGINEERING	Uttark	Uttark	Uttark	Uttark	Uttark	Uttark
45	KOLA HEMANTH VENKAT	40110606	COMPUTER SCIENCE AND ENGINEERING	Kola	Kola	Kola	Kola	Kola	Kola
46	N HARI KRISHNA SAI	40110811	COMPUTER SCIENCE AND ENGINEERING	N Hari	N Hari	N Hari	N Hari	N Hari	N Hari
47	MUTHUKRISHNAN	41110832	COMPUTER SCIENCE AND ENGINEERING	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
48	PRAKALYA	41110993	COMPUTER SCIENCE AND ENGINEERING	Prakal	Prakal	Prakal	Prakal	Prakal	Prakal
49	MADIPALLI PAVAN KALYAN GUPTA	41110740	COMPUTER SCIENCE AND ENGINEERING	Madipa	Madipa	Madipa	Madipa	Madipa	Madipa
50	CYRIL JOSHUA.M	41110285	COMPUTER SCIENCE AND ENGINEERING	Cyril	Cyril	Cyril	Cyril	Cyril	Cyril
51	MIDHUNKARTIK M	41110800	COMPUTER SCIENCE AND ENGINEERING	Midhun	Midhun	Midhun	Midhun	Midhun	Midhun
52	DAKSHEN.M.S	41110290	COMPUTER SCIENCE AND ENGINEERING	Daksh	Daksh	Daksh	Daksh	Daksh	Daksh
53	CHITTOBOINA GANGA CHAITHANYA YADAV	41110283	COMPUTER SCIENCE AND ENGINEERING	Chitto	Chitto	Chitto	Chitto	Chitto	Chitto
54	BHARATHAN.B	41110191	COMPUTER SCIENCE AND ENGINEERING	Bharat	Bharat	Bharat	Bharat	Bharat	Bharat
55	B.BRIGHT SAM	41110226	COMPUTER SCIENCE AND ENGINEERING	B.Bright	B.Bright	B.Bright	B.Bright	B.Bright	B.Bright
56	T.SUDHARSAN	41111222	COMPUTER SCIENCE AND ENGINEERING	T.Sudha	T.Sudha	T.Sudha	T.Sudha	T.Sudha	T.Sudha
57	P S RICORDE CHRIS	41111056	COMPUTER SCIENCE AND ENGINEERING	P Ricor	P Ricor	P Ricor	P Ricor	P Ricor	P Ricor
58	S.Gayathri	39190004	CHEMICAL ENGINEERING	S.Gaya	S.Gaya	S.Gaya	S.Gaya	S.Gaya	S.Gaya
59	Manikandan N	39190015	CHEMICAL ENGINEERING	Manika	Manika	Manika	Manika	Manika	Manika
60	N.manasa	39190021	CHEMICAL ENGINEERING	N.Man	N.Man	N.Man	N.Man	N.Man	N.Man
61	Siddharth.U	39190031	CHEMICAL ENGINEERING	Sidhar	Sidhar	Sidhar	Sidhar	Sidhar	Sidhar
62	Abdul hameed	40190001	CHEMICAL ENGINEERING	Abdul	Abdul	Abdul	Abdul	Abdul	Abdul
63	A.CHRISTILA FERNANDO	40190006	CHEMICAL ENGINEERING	A.Chri	A.Chri	A.Chri	A.Chri	A.Chri	A.Chri
64	K.dhanush kodi	40190007	CHEMICAL ENGINEERING	K.dhan	K.dhan	K.dhan	K.dhan	K.dhan	K.dhan

Signature

65	Gade divyanjali	40190008	CHEMICAL ENGINEERING	Gid	Gid	Gid	A	Gid	Gid
66	K. Kartheesh	40190009	CHEMICAL ENGINEERING	Karth	Karth	Karth	Karth	Karth	Karth
67	T.Lokesh kumar	40190010	CHEMICAL ENGINEERING	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh
68	Srayansh kashyap	40190031	CHEMICAL ENGINEERING	Srayansh	Srayansh	Srayansh	Srayansh	Srayansh	Srayansh
69	Vinukonda Sumanth	40190032	CHEMICAL ENGINEERING	Vinukonda	Vinukonda	Vinukonda	Vinukonda	Vinukonda	Vinukonda
70	Kalla Gireesh Venkata Ramana	40190033	CHEMICAL ENGINEERING	Kalla	Kalla	Kalla	Kalla	Kalla	Kalla
71	Madhavraj S	40190034	CHEMICAL ENGINEERING	Madhu	Madhu	Madhu	Madhu	Madhu	Madhu
72	G.Ajith	39180001	EIE	Ajith	Ajith	Ajith	Ajith	Ajith	Ajith
73	Vijayaganesk	39190037	CHEMICAL ENGINEERING	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
74	Satish Kumar k	39190029	CHEMICAL ENGINEERING	Satish	Satish	Satish	Satish	Satish	Satish
75	Suresh	39190033	CHEMICAL ENGINEERING	Suresh	Suresh	Suresh	A	Suresh	Suresh

Signature

Students belong to Chemical Engineering: 30



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CERTIFICATE

OF PARTICIPATION

This is to certify

Surya Kumar R (39190034)

Has participated in "Aptitude and Computer Coding Training" program organised by
Department of Chemical Engineering, Sathyabama Institute of Science and Technology,
Chennai-119 From 10/10/2022 To 12/11/2022.



DR. S. SATHISH
HEAD OF THE DEPARTMENT
CHEMICAL ENGINEERING





DR. A. ANNAM RENITA
PROFESSOR
CHEMICAL ENGINEERING

Aptitude and Computer Coding Training

(10-10-2022 to 12-11-2022)

Course Outcomes:

The participants

- Analysis of problems
- Apply Soft skills
- Understand programming Skills
- Develop skills to solve problems
- Develop conceptual design of a plant.



4. Fundamentals of molecular simulations



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SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF CHEMICAL ENGINEERING

VALUE ADDED COURSE ON

FUNDAMENTALS OF MOLECULAR SIMULATIONS

FROM

19/11/2022

TO

20/12/2022

Course Coordinators

1. Dr. S. Sathish – Associate Professor and Head, Department of Chemical Engineering, Sathyabama Institute of Science and Technology
2. Mr Michael Rahul Soosai - Assistant Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology

For registration:

https://docs.google.com/forms/d/1w0AmqojQhXUuNonafLNsP4F_YtqbMFXf9CCuaa1ySlw/edit

For Queries contact: chemicalhod@sathyabama.ac.in

Objective of this course:

To learn the fundamentals of Molecular Simulations and develop the ability to apply simulation techniques to study relevant problems.

Course Outcomes:

1. Learn the basic concept of molecular modelling such as potential energy surfaces, coordinate systems, molecular graphics, surfaces and mathematical concepts.

2. Study of statistical mechanics – common statistical ensembles, sampling from ensembles, transforming between ensembles, thermodynamic averages, fluctuations, and transport coefficients.

3. Understand molecular mechanics and empirical force field models, Energy minimization and conformational analysis.

4. Understand the essentials of Molecular Dynamics Simulation methods.

5. Develop the required skills in Monte Carlo Simulation methods.

	Topics	Name of the Faculty	No of Sessions	Venue
1	Introduction – Fundamentals, coordinate systems, potential energy surfaces, molecular graphics, surfaces, periodic boundary condition, spherical boundary condition, minimum image convention, ergodic hypothesis.	Dr.S.Sathish	6 hr	Seminar Hall
2	Statistical Mechanics – Common statistical ensemble, sampling from ensembles, transforming between ensembles, partition function and thermodynamic averages, fluctuations, structural quantities, transport coefficients and time correlation function.	Dr.S.S.Dawn	6 hr	Seminar Hall
3	Molecular Mechanics - Features of molecular mechanics force field, different bonded and non-bonded terms in a force field, united atom and explicit atom force field, force field parametrization, transferability of force field parameters. Different energy minimization methods and conformational analysis.	Dr.S.Sathish	6hr	Seminar Hall
4	Molecular Dynamics Simulation – Setting up and running a molecular dynamics simulation, molecular dynamics using simple and continuous models, time dependent properties, constraint dynamics, NVT and NPT simulations.	Dr. M. Kartikeyan	4hr	Seminar Hall
5	Monte Carlo Simulations: Metropolis method, properties calculation using integration, Monte Carlo sampling from different ensembles, biased Monte Carlo, configurational biased Monte Carlo, simulation of polymers, comparison.	Dr D Venkatesan	6hr	Seminar Hall e
6	Assessment	Dr D Venkatesan	1hr	Seminar Hall

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.

FUNDAMENTALS OF MOLECULAR SIMULATIONS

Attendance Certificate

S. No	Name	Reg.No.	Department	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
1	Iyasuriya R	39190009	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
2	MOHAMED IQBAL A	39190019	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
3	Iaya Chandra R	39190026	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
4	Dileep Raja	39190035	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
5	S.RARUN	40190004	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
6	Ramaraja	40190021	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
7	Sajin Johny	40190022	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
8	Santhosh Kumar J	40190023	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
9	Sathish B	40190024	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
10	Sitharthan S	40190025	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
11	Dhishon Franklin F	39190003	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
12	Godwin Gopinathan	39190005	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
13	JOBIN CHACKO	39190010	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
14	Adhil Imam	39190001	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
15	Rishikiran A	39190027	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
16	SABBELLA HIMAJA	40111088	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
17	DUDE BALA DURGA SAI SESHU	40110339	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
18	ABHISHEK RAJ	40110019	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
19	SOMU KARUN KUMAR	40111250	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
20	MURARISHETTI HARSHITHA	40110804	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
21	SANKRANTHI VSA SANTOSH	40111141	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
22	MYAKA AKSHAYA	40110807	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
23	SINGIRIKONDA UMESH	40111236	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
24	BERA TARUN KUMAR	40110171	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
25	SANGEETHAM SATHWIK	40111130	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
26	GABRIELA SHARON. R	40110353	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
27	PRERMKUMAR S	41111004	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
28	RAHUL R	41111021	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
29	MALAKALAPALLI VARUN SAI	41110750	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
30	MARISETTI. SATYA SAI DURGA PRAVEEN	41110726	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes

Not Eligible

Signature

31	MONISH ANAND J	41110815	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
32	MELWIN AKASH L	41110796	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
33	THARUN D	41111273	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
34	MARSHAL DIONE L	41110789	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
35	SABARI GURU R	41111084	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
36	VAITHEESHWAR B	41111313	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
37	R. RAMPRASATH	41111039	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
38	V S RAJESHWARI	41111024	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
39	M.A.MARIMUTHU PANDIAN	41110786	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
40	Laxmi kanth Thangi	39190014	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
41	K M NAVDEEP	39190020	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
42	SAKTHIVEL A	39190028	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
43	VAMSHI KRISHNA SAIBOINA	39190036	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
44	Chirag.k	40190005	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
45	Sneha S	40190026	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
46	SYED Mohammed suhail	40190027	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
47	Venkata Subramanian S	40190028	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
48	Vishal das	40190029	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
49	William joel	40190030	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
50	NITISH S	39190022	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
51	Kowdham C	39190012	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
52	Nakkeeran M	38190008	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
53	Devan	38190016	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
54	MOHAMED IBRAHIM S	39190018	CHEMICAL ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
55	MASIBOYINA HIMA VARSHA	40110741	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
56	GADE AJAY REDDY	40110355	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes
57	LANKA SWAMY MANIKANTA	40111304	COMPUTER SCIENCE AND ENGINEERING	Yes	Yes	Yes	Yes	Yes	Yes

Not cleared

Signature

Students belong to chemical Engineering : 30



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

ACCREDITED WITH GRADE "A" BY NAAC | 12B STATUS BY UGC | APPROVED BY AICTE



CERTIFICATE

OF PARTICIPATION

This certificate is presented to

Gopi Krishna P (39190007)

Has participated in "**Fundamentals of Molecular Simulations**" program organised
by Department of Chemical Engineering, Sathyabama Institute of Science and Technology,
Chennai-119 From 19/11/2022 To 20/12/2022.

DR. S. SATHISH

HEAD OF THE DEPARTMENT
CHEMICAL ENGINEERING

MR. MICHAEL RAHUL SOOSAI

ASSISTANT PROFESSOR
CHEMICAL ENGINEERING



FUNDAMENTALS OF MOLECULAR SIMULATIONS

(19/11/2022 to 20/12/2022)

Course Outcomes:

The participants

- Understand concept of molecular modelling such as potential energy surfaces, coordinate systems, molecular graphics, surfaces and mathematical concepts.
- Know statistical mechanics – common statistical ensembles, sampling from ensembles, transforming between ensembles, thermodynamic averages, fluctuations, and transport coefficients.
- Understand molecular mechanics and empirical force field models, Energy minimization and conformational analysis.
- Understand the essentials of Molecular Dynamics Simulation methods.
- Develop the required skills in Monte Carlo Simulation methods.



5. Introduction to biomass and Biorefinery



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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

INTRODUCTION TO BIOMASS AND BIOREFINERY

FROM

10-01- 2023

TO

12-02-2023

Course Coordinator

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

Dr. M. Kartikeyan – Assistant Professor and Head, Department of Chemical Engineering, Sathyabama Institute of Science and Technology

For registration:

https://docs.google.com/forms/d/1w0AmqojQhXUuNonafLNsP4F_YtqbMFxf9CCuaa1ySIw/edit

For Queries contact: chemicalhod@sathyabama.ac.in

Objective of this course:

To develop necessary skills to design appropriate biomass based fractionation technique as per the need.

Course Outcomes:

1. Learn the overview of world energy situation, and refinery and bio-refinery concept techno- economic analysis of various biofuel conversion technologies and their environmental attributes
2. Apply energy balances, and thermodynamics in biomass conversion
3. Understand unit processes/operations involved in biofuel/bioenergy production
4. Develop experimental plan and conduct lab works pertinent to biofuel production
5. Develop conceptual design of a biorefinery plant.
6. Design major unit processes/operations of an integrated biorefinery

Module	Topics	Name of the Faculty	No of Sessions	Venue
1	Introduction - World energy scenario, consumption pattern, fossil fuel depletion and environmental issues Biorefinery - Basic concept, types of biorefineries, biorefinery feedstocks and properties	Dr.S.Sathish	6 hr	Seminar Hall
2	Biomass Conversion - Types, fundamentals, equipment's and applications; thermal conversion products, microbial conversion Process	Dr.Arun	6 hr	Seminar Hall
3	Biodiesel - Diesel from vegetable oils, microalgae and syngas; transesterification; FT process, catalysts; biodiesel purification, fuel properties. Pilot plant Case studies	Dr.S.S.Dawn	6hr	Seminar Hall
4	Biofuel – Bioethanol, Biohydrogen, methanol, Corn ethanol, lignocellulosic ethanol, microorganisms for fermentation, current industrial ethanol production technology,	Dr. M. Kartikeyan	6hr	Seminar Hall
5	Integrated Biorefinery: Concept, corn/soybean/sugarcane biorefinery, lignocellulosic biorefinery, aquaculture and algal biorefinery, waste biorefinery, hybrid chemical and biological conversion processes, techno-economic evaluation, life-cycle assessment	Dr.S.S.Dawn	6hr	Seminar Hall
6	Assessment	Mr.S.Sathish	1hr	Seminar Hall

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.

INTRODUCTION TO BIOMASS AND BIOREFINERY

Attendance Certificate								
S. No	Name	Reg.No.	Department	Session 1	Session 2	Session 3	Session 4	Session 5
1	Laxmi kanth Thangi	39190014	CHEMICAL ENGINEERING	Lakshmi	Lakshmi	Lakshmi	Lakshmi	Lakshmi
2	K M NAVDEEP	39190020	CHEMICAL ENGINEERING	Navdeep	Navdeep	Navdeep	Navdeep	Navdeep
3	SAKTHIVEL A	39190028	CHEMICAL ENGINEERING	Sakthivel	Sakthivel	Sakthivel	Sakthivel	Sakthivel
4	VAMSHI KRISHNA SAIBOINA	39190036	CHEMICAL ENGINEERING	Saiboina	Saiboina	Saiboina	Saiboina	Saiboina
5	Chirag.k	40190005	CHEMICAL ENGINEERING	Chirag	Chirag	Chirag	Chirag	Chirag
6	Sneha S	40190026	CHEMICAL ENGINEERING	Sneha	Sneha	Sneha	Sneha	Sneha
7	SYED Mohammed suhail	40190027	CHEMICAL ENGINEERING	Suhail	Suhail	Suhail	Suhail	Suhail
8	Venkata Subramanian S	40190028	CHEMICAL ENGINEERING	Subramanian	Subramanian	Subramanian	Subramanian	Subramanian
9	Vishal das	40190029	CHEMICAL ENGINEERING	Vishal	Vishal	Vishal	Vishal	Vishal
10	William joel	40190030	CHEMICAL ENGINEERING	Joel	Joel	Joel	Joel	Joel
11	NITISH S	39190022	CHEMICAL ENGINEERING	Nitish	Nitish	Nitish	Nitish	Nitish
12	Kowdham C	39190012	CHEMICAL ENGINEERING	Kowdham	Kowdham	Kowdham	Kowdham	Kowdham
13	Nakkeeran M	38190008	CHEMICAL ENGINEERING	Nakkeeran	Nakkeeran	Nakkeeran	Nakkeeran	Nakkeeran
14	Devan	38190016	CHEMICAL ENGINEERING	Devan	Devan	Devan	Devan	Devan
15	MOHAMED IBRAHIM S	39190018	CHEMICAL ENGINEERING	Mohtamed	Mohtamed	Mohtamed	Mohtamed	Mohtamed
16	MASBOYINA HIMA VARSHA	40110741	COMPUTER SCIENCE AND ENGINEERING	Varsha	Varsha	Varsha	Varsha	Varsha
17	GADE AJAY REDDY	40110355	COMPUTER SCIENCE AND ENGINEERING	Ajay	Ajay	Ajay	Ajay	Ajay
18	LANKA SWAMY MANIKANTA	40111304	COMPUTER SCIENCE AND ENGINEERING	Manikanta	Manikanta	Manikanta	Manikanta	Manikanta
19	JHANSI ARUNA MEDAPATI	40110746	COMPUTER SCIENCE AND ENGINEERING	Aruna	Aruna	Aruna	Aruna	Aruna
20	NAGANDLA SAI SREEJA	40110815	COMPUTER SCIENCE AND ENGINEERING	Sreeja	Sreeja	Sreeja	Sreeja	Sreeja
21	S MITHINESH JAYA KUMAR	40110763	COMPUTER SCIENCE AND ENGINEERING	Kumar	Kumar	Kumar	Kumar	Kumar
22	RAVINDRA REDDY. T	40111326	COMPUTER SCIENCE AND ENGINEERING	Reddy	Reddy	Reddy	Reddy	Reddy
23	KOVVURI RISHI VARSHITHA REDDY	40110644	COMPUTER SCIENCE AND ENGINEERING	Reddy	Reddy	Reddy	Reddy	Reddy
24	BANDA KANISHKA REDDY	40110153	COMPUTER SCIENCE AND ENGINEERING	Reddy	Reddy	Reddy	Reddy	Reddy
25	PAVAN KALYAN REDDY	40110877	COMPUTER SCIENCE AND ENGINEERING	Reddy	Reddy	Reddy	Reddy	Reddy
26	NAVULURI SAI RAM	40110843	COMPUTER SCIENCE AND ENGINEERING	Ram	Ram	Ram	Ram	Ram
27	UTTARKAR SRINIVAS RAO	40111370	COMPUTER SCIENCE AND ENGINEERING	Rao	Rao	Rao	Rao	Rao
28	KOLA HEMANTH VENKAT	40110606	COMPUTER SCIENCE AND ENGINEERING	Venkat	Venkat	Venkat	Venkat	Venkat
29	N HARI KRISHNA SAI	40110811	COMPUTER SCIENCE AND ENGINEERING	Sai	Sai	Sai	Sai	Sai

Contin

30	MUTHUKRISHNAN	41110832	COMPUTER SCIENCE AND ENGINEERING	Muthu	Muthu	Muthu	Muthu	Muthu
31	PRAKALYA	41110993	COMPUTER SCIENCE AND ENGINEERING	Prakalya	Prakalya	Prakalya	Prakalya	Prakalya
32	MADIPALLI PAVAN KALYAN GUPTA	41110740	COMPUTER SCIENCE AND ENGINEERING	Gupta	Gupta	Gupta	Gupta	Gupta
33	CYRIL JOSHUA M	41110285	COMPUTER SCIENCE AND ENGINEERING	Cyril	Cyril	Cyril	Cyril	Cyril
34	MIDHUNKARTIK M	41110800	COMPUTER SCIENCE AND ENGINEERING	Midhun	Midhun	Midhun	Midhun	Midhun
35	DAKSHIN M.S	41110290	COMPUTER SCIENCE AND ENGINEERING	Dakshin	Dakshin	Dakshin	Dakshin	Dakshin
36	CHITTIBOINA GANGA CHAITANYA YADAV	41110283	COMPUTER SCIENCE AND ENGINEERING	Yadav	Yadav	Yadav	Yadav	Yadav
37	BHARATHAN.B	41110191	COMPUTER SCIENCE AND ENGINEERING	Bharathan	Bharathan	Bharathan	Bharathan	Bharathan
38	B.BRIGHT SAM	41110226	COMPUTER SCIENCE AND ENGINEERING	Bright	Bright	Bright	Bright	Bright
39	T.SUDHARSAN	41111222	COMPUTER SCIENCE AND ENGINEERING	Sudharsan	Sudharsan	Sudharsan	Sudharsan	Sudharsan
40	P S RICORDE CHRIS	41111056	COMPUTER SCIENCE AND ENGINEERING	Chris	Chris	Chris	Chris	Chris
41	V.Gokul	39190006	CHEMICAL ENGINEERING	Gokul	Gokul	Gokul	Gokul	Gokul
42	Manivannan U S	39190016	CHEMICAL ENGINEERING	Mani	Mani	Mani	Mani	Mani
43	Raguram.N	39190024	CHEMICAL ENGINEERING	Raguram	Raguram	Raguram	Raguram	Raguram
44	SUBASHINI S E	39190032	CHEMICAL ENGINEERING	Subashini	Subashini	Subashini	Subashini	Subashini
45	Ankit Mylarapu	40190002	CHEMICAL ENGINEERING	Ankit	Ankit	Ankit	Ankit	Ankit
46	Madhan P	40190011	CHEMICAL ENGINEERING	Madhan	Madhan	Madhan	Madhan	Madhan
47	Malikal Mulki.A	40190012	CHEMICAL ENGINEERING	Malikal	Malikal	Malikal	Malikal	Malikal
48	Muhammed Fadhil	40190013	CHEMICAL ENGINEERING	Fadhil	Fadhil	Fadhil	Fadhil	Fadhil
49	NAVEEN PRASATH K	40190014	CHEMICAL ENGINEERING	Naveen	Naveen	Naveen	Naveen	Naveen
50	Nithish s	40190015	CHEMICAL ENGINEERING	Nithish	Nithish	Nithish	Nithish	Nithish
51	Deepak Raj	39180003	EIE	Deepak	Deepak	Deepak	Deepak	Deepak
52	Jeya Nivethan	39180006	EIE	Jeya	Jeya	Jeya	Jeya	Jeya
53	Naveenkumar	39180009	EIE	Naveen	Naveen	Naveen	Naveen	Naveen
54	D.Ragul Belson	39180011	EIE	Ragul	Ragul	Ragul	Ragul	Ragul
55	Sabari Narayanan . P	39180012	EIE	Sabari	Sabari	Sabari	Sabari	Sabari
56	CHEKKA VAMSI KRISHNA	40110249	COMPUTER SCIENCE AND ENGINEERING	Vamsi	Vamsi	Vamsi	Vamsi	Vamsi
57	ABHISHEK BAIPAI	40110014	COMPUTER SCIENCE AND ENGINEERING	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
58	SANKA LOJITH	40111140	COMPUTER SCIENCE AND ENGINEERING	Lojith	Lojith	Lojith	Lojith	Lojith
59	SAMBARU BALAJI GANESH	40111116	COMPUTER SCIENCE AND ENGINEERING	Balaji	Balaji	Balaji	Balaji	Balaji
60	KOLLI SAI YASWANTH REDDY	40111584	COMPUTER SCIENCE AND ENGINEERING	Reddy	Reddy	Reddy	Reddy	Reddy

Contin

Students belong to Chemical Engineering : 25



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CERTIFICATE

OF PARTICIPATION

This certificate is awarded to

Jayasuriya R (39190009)

Has participated in " **Introduction to Biomass and Biorefinery** " program organised by Department of Chemical Engineering, Sathyabama Institute of Science and Technology, Chennai-119 From 10/01/2023 To 12/02/2023.

DR. S. SATHISH

HEAD OF THE DEPARTMENT
CHEMICAL ENGINEERING



DR. M. KARTHIKEYAN

ASSISTANT PROFESSOR
CHEMICAL ENGINEERING

INTRODUCTION TO BIOMASS AND BIOREFINERY

(10-01- 2023 to 12-02-2023)

Course Outcomes:

The participants

- Understand the overview of world energy situation, and refinery and bio-refinery concept techno- economic analysis of various biofuel conversion technologies and their environmental attributes
- Apply energy balances, and thermodynamics in biomass conversion
- Understand unit processes/operations involved in biofuel/bioenergy production
- Develop experimental plan and conduct lab works pertinent to biofuel production
- Develop conceptual design of a biorefinery plant.
- Design major unit processes/operations of an integrated biorefinery

