



SATHYABAMA UNIVERSITY

(Deemed to be University)

School of Bio and Chemical Engineering
Department of Biomedical Engineering
offers

A value added course
on

INSTRUMENTATION OF CRITICAL CARE EQUIPMENT

Date: 19th - 24th July, 2021

Duration: 30 Hours

Course Objective:

- Provide hands on training and preliminary troubleshootal care equipment's
- Train to perform basic system setups, disassemble the unit and replace all serviceable components.
- The in-depth knowledge of the equipment's will give the participants a fruitful learning experience.

Course Content:

- Cardiac Defibrillators - DC Defibrillator
- Surgical diathermy machine – Principle – Working Hazards and safety aspects in ESU
- Haemodialysis Machines - Artificial Kidney - Dialyzers - Membranes
- Heart Lung Machine – Oxygenators-Pumps
- Anesthesia Machine –Components - Electronics in Anesthesia machine, Ventilators
- Infusion Pumps- Components- Implantable infusion pumps
- Insulin Pumps- Syringe Pumps
- Incubators-Radiant Warmer – Phototherapy Units

Program Coordinator

Dr. T. Sudhakar

Dr. Bethanne Janney J

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2018-2022

STUDENTS NAME LIST

S. No.	Reg. Number	Student Name
1	38240001	ABHISHEK. S
2	38240002	AFIF. A. S
3	38240003	AJAY. R
4	38240004	AKSHYA. V
5	38240005	ANEESHWAR. M
6	38240006	AVIGNA SAI
7	38240007	BLESSY. N. S
8	38240009	HEMAPRAKASH. V. K
9	38240011	JINU JACOB. Y
10	38240012	KANIMOZHI. K
11	38240013	KAVITHA. E
12	38240014	MARILYN RIJA. W
13	38240015	MERCY. S
14	38240017	MOHAMED BASHIM
15	38240018	MONICA. P
16	38240019	NANDHA KUMAR. P
17	38240020	NISITHA. S
18	38240021	NIVETHA. J
19	38240022	PARTHA SARATHY. S
20	38240023	PAVITHRA. G. S
21	38240024	POOJASAKTHI. S
22	38240025	RAGHAVI. T
23	38240026	RAHUL NANDY MAJUMDAR
24	38240027	RAMACHANDRAN. K. S
25	38240028	RENUKA. S
26	38240029	SAHEER ANAS
27	38240030	SANDRA ANN. R
28	38240032	SANTRA. E
29	38240033	SHAMRUTHI. T
30	38240034	SHARON BENETTA. W

31	38240035	SINDESH. C. S
32	38240036	SIVAGAMI. K
33	38240037	SNEGA. V
34	38240038	STEPHIN BRITTO. A
35	38240039	SUNDAR. T
36	38240040	VASANTH KUMAR. S
37	38240041	VASUNDARA. J
38	38240042	VUKKA LAKSHMIDHAR
39	38240043	HARISH. T. S

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF BIOMEDICAL ENGINEERING
BATCH 2019-2023
STUDENTS NAME LIST

S.NO	REG.NO	NAME
1	39240001	AAKESH. U
2	39240002	AISHVARIYA SHIVANI. S
3	39240003	AISHWARYA J
4	39240004	AISHWARYA MOHAN KUMAR
5	39240005	AKSHARA D
6	39240006	AKSHARA S
7	39240007	ANCY HANNAH CHARLET. A
8	39240008	ARAVINTH R
9	39240009	ATCHAYA. E
10	39240010	BHAVANI SRI. S
11	39240011	CATHERINE MELITA PRADHIKSHA P
12	39240012	CHELSEA HANNAH. A
13	39240013	DARREN AKASH. J
14	39240014	DHARANIVASAN. V
15	39240015	DILIP E K
16	39240016	DIVYA R
17	39240017	GEETHANJALI G
18	39240018	HEPZIBAH SUSAN. M
19	39240019	KEERTHANA R
20	39240020	KEERTHIVASAN. V
21	39240021	KISHORE. R
22	39240022	KRISHA. H
23	39240023	LOCHANA. P
24	39240024	MAHALAKSHMI. V
25	39240025	MEENA MANJURI. J
26	39240026	MONICA.S
27	39240027	NISHA.S
28	39240028	PERIYANAYAGAM ROZARIO.B
29	39240029	POOJASRI S
30	39240030	PRERANA. S
31	39240031	RENITTA D
32	39240032	RIDDHITA THAKUR
33	39240033	SABARI K
34	39240034	SABITHA S
35	39240035	SANTHIP SHANMUGAM A
36	39240036	SHEEBA SRI. B
37	39240037	SHERYL ROBINSON
38	39240038	STEFFY REENA. N
39	39240039	TAMIL MARAN K
40	39240040	TAMIZHLARASI
41	39240041	YASWANT RAJASEKARAN



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VIRTUAL BIOINSTRUMENTATION

Date: 13th - 18th September, 2021

Duration: 30 Hours

Objectives:

- The purpose of the proposed program is to gain knowledge and hands-on experience in Model Based Design using LabVIEW focus on Real Time Applications.
- The training program addresses how the hardware and software modules interface with Sensors to acquire real world signals, to analyze them and present them in an intelligent manner
- LabVIEW is a powerful graphical development environment for signal acquisition, measurement analysis, data logging and data presentation, giving the flexibility in programming. It is an Enabling industry leading software tool

Course Content:

- Introduction to LabVIEW
- Programming fundamentals
- Exploring LabVIEW
- Wave form generator
- Temperature Analyzer
- Band pass filter
- 60 Hz notch filter
- Simulation of Bio signals and data logging
- Acquire, Process, Analyze and saving of data
- Arrhythmia Detector
- Heart rate detector
- EEG Analyzer for seizure detection
- Simulation of pace maker

Program Coordinator

Dr. J. Premkumar

Ms. Sindu Divakaran

Dr. S. Krishnakumar

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF BIOMEDICAL ENGINEERING
BATCH 2021-2023, 2020-2022
STUDENTS NAME LIST

S. No	Register Number	Name
1	41440001	ADITH RAGHUNATH
2	41440002	AFREEN BANU F
3	41440003	ASHWATHI. H
4	41440004	BABISHA J
5	41440005	HARITHA K
6	41440006	HEMALATHA M
7	41440007	JENNIFER J
8	41440008	MERCY GRACE M
9	41440009	MOSHIKANALINI K
10	41440010	SABARIVEL R
11	41440011	SOLLENSELVAN V
12	41440012	SOUNDER S K
13	41440013	VIGNESHWARAN S
14	41440014	WAJIHA SAFEEN C
15	40440001	ABHIJEET BHARATHAN
16	40440002	BALAJI RAYAPPAN. C
17	40440003	CHARAN. M.A
18	40440004	NANDHINI. A
19	40440005	NISHITHA. R
20	40440006	PREETHA. V
21	40440007	SHALINI. S
22	40440008	SHINY BLESHINA. S
23	40440009	SWEDHA. V
24	40440010	VARSHA.N



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SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

IN ASSOCIATION WITH

AICTE SC/ST SKILL AND PERSONALITY DEVELOPMENT CENTER

ORGANIZES

VALUE ADDED COURSE ON

REAL TIME PYTHON BASED DATA AQUISITION

14.02.2022 TO 24.02.2022

6PM - 7 PM

Resource Persons

MR. R. IMMANUEL RAJKUMAR M.E

DR. R. NARMADHA, M.E, Ph.D

Conveners

Dr. T. Sudhakar

HOD-BIOMED

Dr.P. Grace Kanmani

Prince , Asso.Prof

Dr. Bethanney Janney J,

Asso.Prof

Coordinators

Dr. J. Premkumar,

Asso. Prof

Dr. Anima Nanda, Prof

Dr. S. Krishnakumar,

Asso.Prof

Mrs. Sindu Divakaran,

Asst. Prof

Mrs . Sabarivani,

Asst. Prof

Features

- **Data Aquisition**
- **Real time hands on session**
- **ESP32**
- **Python coding for data acquisition**
- **Data classification**
- **Artificial Intelligence**

Member Secretary

Dr. Y. Swarnalatha

Dean Higher Studies

Chief Patrons:

Dr Mariazeena Johnson
Chancellor

Dr Marie Johnson
President

Mr. J. Arul Selvan
Vice President

**Ms Maria Bernadette
Tamilarsi Johnson**
Vice President

Dr T Sasipraba
Vice Chancellor

Patrons:

Dr E Logashanmugam
Pro Vice Chancellor

Dr G Sundari
Director Administration

e-Certificate will be issued for all Participants

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF BIOMEDICAL ENGINEERING
BATCH 2021-2025
STUDENTS NAME LIST

S.No	Reg. Number	Student Name
1.	40240001	AADHITYA. S
2.	40240002	ABIRAJ. B
3.	40240003	ANGELIN WINSLET. C
4.	40240004	ANUSKA CHAKRAVARTY
5.	40240005	AROKIYA RAHUL. W
6.	40240006	DANIEL. R
7.	40240007	DANNY ROY
8.	40240008	DHARANI.K
9.	40240009	FAZILA. A
10.	40240010	HARIPRIYA BHATTARU
11.	40240011	JAI AKASH.B
12.	40240012	JEFFREY DELAPERLE
13.	40240013	JEY SURYA. S
14.	40240014	JOHN WESLEY. I
15.	40240015	KAMALESH.R
16.	40240016	MANASA.V
17.	40240017	MATHANGI. B
18.	40240018	MEENATCHI S
19.	40240019	MOHAMED AZARUDEEN. S
20.	40240020	MOHAMMED THOUFEEQ. A
21.	40240021	NAJEEBA. M
22.	40240022	PONNI. S
23.	40240023	PRAKKRITH.V
24.	40240024	RAGHUL. A
25.	40240025	RENNY VALENTINA. N
26.	40240026	RISHON V
27.	40240027	ROSHAN. B
28.	40240028	RUFINA MAGDALIN SHALLOWM. S
29.	40240029	SAM JUDIT. J.V
30.	40240030	SARASWATHI. B
31.	40240031	SETHURAMAN K
32.	40240032	SHANUJA.M
33.	40240033	SHARNISHA. M
34.	40240034	SHRUTHI.L
35.	40240035	SINDHU ELA
36.	40240036	SRINIVASAN R.
37.	40240037	SRISTI. S.V
38.	40240038	SRIVARI MUKUNTH. S
39.	40240039	SUDHISHNA. T
40.	40240040	SUGANTH.S
41.	40240041	SUSHMITHA.S
42.	40240042	TEJASWINI. S
43.	40240043	VIJAYALAKSHMI. B
44.	40240044	YOGAPRIYA K
45.	40240045	ISHA INGROLE
46.	40240046	RANCY IRENE JOSE
47.	40240047	SHYAM SUNDAR
48.	40240048	ANUMEHAA. K. S



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**School of Bio and Chemical Engineering
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**A value added course
on**

C PROGRAMMING

Date: 7th - 12th March, 2022

Duration: 30 Hours

Course Objective:

- To help students improve their C programming skills and also to help develop logic for the given problem. It will help students to face placement.

Course Content:

- Fundamentals of Programming
- C Programming Language Concepts & Usage
- C Program Structure
- Using Input & Output functions
- Usage of Variables - declaration | initialization | access
- Casting
- Control Flow - if | if-else | switch-cases
- Logical Operators, Loops - while | do-while | for
- Functions - declaration | definition | usage
- 1D Arrays - Why do we need them & How they can be used?
- 2D Arrays - Matrices
- Pointers - Time to Sweat! - Why | When | How
- Strings - Creating, Reading, Manipulating & Printing
- Recursion - Concept | Usage
- Constants, Unions

Program Coordinator

Dr. Grace Kanmani. P

Ms. A. Sabarivani

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DEPARTMENT OF BIOMEDICAL ENGINEERING
BATCH 2021-2025
STUDENTS NAME LIST

S. No	Register Number	Name
	41240001	AAKANKSHYA SAMANTARAY
	41240002	ABIRAMI S
	41240003	AGALYA G
	41240004	AMRIN MANZOOR
	41240005	ASHWIN R
	41240006	BALAJI
	41240007	BERTI MARIA PREETHA C
	41240008	CAUVIYA SRI K
	41240009	CHARAN K V
	41240010	DHARSHINI S
	41240011	FARHEEN SAKKIR
	41240012	INFANT SHAINNY A
	41240013	JANNE CHETAN
	41240014	JEFFIN JOSE
	41240015	JENNIE ROSHINI P
	41240016	JENO J
	41240017	JOEL J
	41240018	KIRUTHIKA R
	41240019	LEKHA PARTHIBAN
	41240020	LEKKALA HEMA
	41240021	MUTHU VIGNESH V
	41240022	NAGOTHU BALA AAKASH
	41240023	NEETHISH B G
	41240024	PEDAMALLI UMAMAHESWAR REDDY
	41240025	PRAVIN P M
	41240026	B PREETI
	41240027	S.RAHUL
	41240028	RANJITH B
	41240029	RITHIKA D
	41240030	ROSHINI CATHERINE VERGHESE
	41240031	SANTHOSH RAJHA P
	41240032	SNEHA BABU PAUL
	41240033	SOMINENI NIKKHILLA CHOWDARY
	41240034	SRINIDHI SRIDHARAN
	41240035	SURAPUREDDY LIKITHA
	41240036	SWATHI B
	41240037	SWETHA G
	41240038	THATICCHARLA MANSURA
	41240039	VIDULA NANCY N
	41240040	YUKESH KUMAR S
	41240041	ARSHATH HUSSAIN N
	41240042	HARSHINI JOSHITHA T
	41240043	MEDAPATI VENKATA SRI HARSHITHA
	41240044	GANGARAJU SHAMITHA
	41240045	SRELAHARI B
	41240046	SWEETHA S
	41240048	ANTONY USHA ANU RETHI A
	41240049	ATTLA.SRIRAJ SHABAREESH