



SATHYABAMA UNIVERSITY

(Deemed to be University)

SCHOOL OF BIO AND CHEMICAL ENGINEERING DEPARTMENT OF BIOMEDICAL ENGINEERING OFFERS

A VALUE ADDED COURSE ON MATLAB PROGRAMMING

**Date: 5th - 11th July, 2016
Duration: 30 Hours**

Course Objective:

- **To Impart the Knowledge to the students with MATLAB software. This enhances programming knowledge in Research and Development**
- **To provide a working introduction to the Matlab technical computing environment. Themes of data analysis, visualization, and programming**
- **To introduce students the use of a high-level programming language, Matlab. scientific problem solving with applications and examples from Engineering**

Course Content:

- **Basics of Matlab and MATLAB Compiler**
- **The Matlab user interface**
- **Working with Matlab data types**
- **Creating matrices and arrays**
- **Operators and control statements**
- **Using scripts and functions**
- **Data import and export**
- **Using the graphical features**
- **Programming with simple examples**
- **Discussion of Toolboxes with Applications**
- **Image Acquisition Toolbox**
- **Image Processing**
- **Neural Network**

Program Coordinator
Ms. Bethanne Janney J
Dr. J. Premkumar

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2013-2017

STUDENTS NAME LIST

S. No	Reg No.	Name of the Student
1	3324001	ABHISHEK DHAKAL
2	3324002	ABINAYA P
3	3324005	AKHIL MATHEW PHILIP
4	3324007	ANGELINA P MATHEW
5	3324008	ANISHA
6	3324010	ARJUN ELDHO ANIL
7	3324011	ARJUN KANNAN
8	3324012	ARVINDH KUMAR SHA T C
9	3324013	ASWATHI R
10	3324014	CAROLINE MARIA J
11	3324015	CYRUS LUKE K
12	3324016	DEEPIKA R
13	3324018	DINESH H
14	3324020	DONA ROSELY MATHEW
15	3324022	HARIHARAN S
16	3324026	JESHAN BABU SHRESTHA
17	3324027	JOSEPHINE LOURDES NIVETHA S
18	3324028	KANCHANA DEVI N R
19	3324029	KARTHICK RAJ S
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21	3324032	KONGARA AKSHAY CHOWDARY
22	3324033	KRIPA ELSA THOMAS
23	3324034	LAVANYA MANUKONDA
24	3324035	LILLY PRIYADHARSHINI N
25	3324036	LISHA THOMAS
26	3324037	MANASA SIVASUBRAMANIAN
27	3324039	MATHIVANI N
28	3324040	MEENAKSHI S
29	3324042	MOWNICAA M
30	3324045	PACKYALAKSHMI S
31	3324046	PRATIBHA SINGH
32	3324050	PRIYANKA J
33	3324053	RAJAT BISWAS
34	3324054	RANJITHA SUGUMAR
35	3324055	REENA RAJAN C

36	3324057	REINHARD BILLY JOSEPH G
37	3324058	RIMNA K
38	3324059	ROHINI R
39	3324060	ROSHAN SAPKOTA
40	3324061	SAKAR RIJAL
41	3324062	SANGEETHA V S
42	3324063	SANJANA RATNAM
43	3324064	SANJANA T D
44	3324065	SANNAPAREDDY LAKSHMI LEKHANA
45	3324066	SHILPA THOMAS
46	3324067	SHON VARUGHESE PUTHUSSERIYIL
47	3324073	SUCHITRA S
48	3324074	SUGANYA R
49	3324075	SUMITHRA S
50	3324076	SUSHMITHA S
51	3324078	TAKASI SATYA SAI VARA PRASAD
52	3324080	THOMSON TOM
53	3324081	TRILEESHIA JOSELET
54	3324082	TUMMALA LAKSHMI TEJA
55	3324083	VAJITHA AMBIGAI V P M
56	3324084	VETRIVEL B
57	3324085	VIDHYA PRIYA M
58	3324086	VIJAYALAKSHMI R
59	3324087	VINODH KUMAR S
60	3324090	YUWANESH T



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SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

OFFERS

A VALUE ADDED COURSE

ON

INSTRUMENTATION OF CRITICAL CARE EQUIPMENT

Date: 8th - 13th August, 2016

Duration: 30 Hours

Learning Outcomes:

- **Apply the knowledge acquired to design a pacemaker and defibrillator**
- **Describe about diathermy devices used for surgery and physiotherapy**
- **Assist perfusionists during dialysis and surgeries**
- **Compare the ventilator working mechanism in anesthesia machines**
- **Design various therapeutic devices based on the applications learned**

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

Ms. Sindu Divakaran

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

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59	3424072	VIGNESH P M
60	3424073	VISHAL E



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School of Bio and Chemical Engineering Department of Biomedical Engineering offers A value added course on PCB DESIGNING

Date: 16th - 21st January, 2017

Duration: 30 Hours

Course Objective:

This course will teach teams of students how to design and fabricate PCB for prototyping as well as in Industrial Production environment. This will help students to innovate faster with electronics technology.

Course Content:

- Fundamental of basic electronics
- Component identification
- Component symbols & their footprints
- Understand schematic
- Creating new PCB
- Browsing footprints libraries
- Setting up the PCB layers
- Design rule checking
- Track width selection
- Component selection
- Routing and completion of design
- Introduction to Electronic design automation (EDA) tools for PCB designing
- Introduction printed circuit board production techniques

Program Coordinator

Dr. Bethanne Janney J

Mr. Immanuel Rajkumar

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2015-2019

STUDENTS NAME LIST

S. NO	Register Number	Name of the Student
1	3524001	ABDULLAH.S
2	3524002	ABHIJIT GOSWAMI
3	3524003	AHAMED REFAL. H
4	3524004	AJIT THOMAS
5	3524005	ANTONY JOSEPHINE SNOWFY. W
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33	3524040	NANDHINI .M
34	3524041	NANDHINI. P
35	3524043	NAVEEN. C
36	3524045	NIRANJANA. P
37	3524046	NIRANJANI KHANNA RAMDAS

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54	3524069	SUDHAN. Y
55	3524070	SUMITHA. P
56	3524071	SYED ABDUL WAJID. S. C
57	3524072	UDAYARAJA. S
58	3524074	VISWA BAVANA. V. R
59	3524075	YASHWANTHINI. N
60	3524801	RIMA DUTTA



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DEPARTMENT OF BIOMEDICAL ENGINEERING

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ON

THE ROLE OF ELECTRONICS IN DAILY LIFE

Date: 6th - 11th March, 2017

Duration: 30 Hours

Learning Outcomes:

- **Students will acquire the knowledge about the characteristics and working principles of electrical devices**
- **Students will get awareness about the general structure of power sources**
- **Students will be able to understand the working of various instruments and equipment's used for the measurement of different electrical parameters like voltage, current, power, phase etc**
- **Students will be able to identify various electronic components**

Course Content:

- **Basic electronic components: Capacitors, resistors, diodes, inductors, battery, Integrated circuits, transistors, etc**
- **Basic electrical components: Earth connections, fuse, wire colors**
- **Power sources: AC, DC Currents and voltages, AC generators and DC power supplies**
- **Measurement and testing instruments: Voltmeter, ammeter and millimeters**
- **Safe use of household appliances**
- **Application and utility of electrical components in our daily life**

Program Coordinator:

Mr. G. Umashankar

Mr. N.R.Krishnamoorthy

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2016-2020

STUDENTS NAME LIST

S. NO.	REGISTER NUMBER	NAME
1.	3624001	ABHIJIT JOSHUA. J
2.	3624003	ABIRAMI. M
3.	3624004	ALKA SAJEEV
4.	3624006	ANDREW JOHN
5.	3624007	ANGEL PREETHI. R
6.	3624008	ARCHANADEVI. R
7.	3624009	ARIVUNILA. R
8.	3624011	ASHWIN. C. A.
9.	3624012	AVINASH. S
10.	3624013	AZIYATH NISHA. A
11.	3624014	BALAJI RAYAPPAN. C
12.	3624015	BALAJI VAISHNAVI
13.	3624017	CHARAN. M.A
14.	3624019	CHUNDRU PURNA SAI KRISHNA SINDHU
15.	3624020	FATHIMA AMIRAH M
16.	3624021	GAYATHRI. G
17.	3624022	GOKILA. P
18.	3624023	GOPINATH. S
19.	3624026	HARINI. R
20.	3624028	HARSHITHA BUDHARAJU NARAYANAN
21.	3624030	JAGANNADHAM NITHYA RAJASREE
22.	3624031	JAGHTEESVARI AS
23.	3624037	KALAIVANI S
24.	3624038	KARPAGAM. R
25.	3624039	KARTHIK. S
26.	3624040	KEERTHIKA. M
27.	3624041	KEERTHYVASSAN. S
28.	3624042	LIBNA JOJI
29.	3624043	MANJULA. Y
30.	3624045	MOHAMMED JALALUDDIN MODI
31.	3624049	NISHA. K
32.	3624051	PAVITHRA S DEVANESAN

33.	3624053	PRADEEPA..K
34.	3624055	PREETHA. S
35.	3624056	RAGHAVI. J. P
36.	3624057	RAVINA. T
37.	3624059	RIMISHA GUPTHA
38.	3624060	RITHIGHAA. B. R
39.	3624061	SANDRA BENNY
40.	3624062	SANGEETHA. S
41.	3624063	SAPTARSHI DAS GUPTA
42.	3624064	SATHIYANARAYANAN. S
43.	3624067	SINDHIYA. R
44.	3624068	SONAA. R
45.	3624069	SOWMIYA. S
46.	3624071	SRIKANTH. A
47.	3624072	SUGHASRI.K
48.	3624073	SURYA. S
49.	3624074	SUSHMITHA. K
50.	3624075	TANYA SRUTI I
51.	3624076	THAMARAI SELVI.S
52.	3624077	UPPALAPATI MANOJ KUMAR
53.	3624078	VADDARAPU SONU KIRAN
54.	3624079	VALLABHANENI KUMARA NADA VENKATA PRASAD
55.	3624080	VEERNAPATI SHINEY JOYCE
56.	3624081	VERONICA PRIYADHARSHINI. J
57.	3624082	VETRIVEL A
58.	3624083	VIGNESWARI. D
59.	3624085	VINITHA. S
60.	3624086	YASODHA. M



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School of Bio and Chemical Engineering
Department of Biomedical Engineering
offers

A value added course
on

BIOSIGNAL AND IMAGE PROCESSING USING NEURAL NETWORK

Date: 3rd - 8th July, 2017

Duration: 30 Hours

Objectives:

To impart knowledge on

- Fundamentals of digital signal processing with particular emphasis on problems in biomedical research and clinical medicine.
- The principles and algorithms for processing both deterministic and random signals
- Enhance the programming knowledge of data acquisition, imaging, filtering, coding, feature extraction, and modeling
- Provide practical experience in processing physiological data, with examples from cardiology, speech processing, and medical imaging

Course Content:

Biomedical Signals and Images

- ECG: Cardiac electrophysiology, relation of electrocardiogram (ECG) components to cardiac events, clinical applications.
- Imaging Modalities: Survey of major modalities for medical imaging: ultrasound, X-ray, CT, MRI, PET, and SPECT. MRI: Physics and signal processing for magnetic resonance imaging.

Fundamentals of Deterministic Signal and Image Processing

- Data Acquisition: Sampling in time, aliasing, interpolation, and quantization.
- Digital Filtering: Difference equations, FIR and IIR filters, basic properties of discrete-time systems, convolution.
- Image processing II: Interpolation, noise reduction methods, edge detection, homomorphic filtering.
- Image Segmentation: statistical classification, morphological operators, connected components.

Program Coordinator

Ms. Bethanne Janney J

Ms. Sindu Divakaran

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

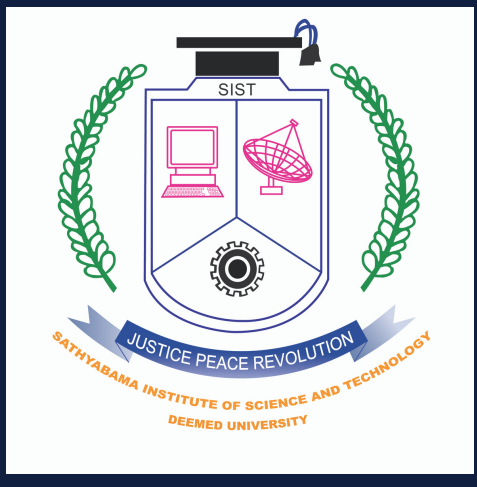
DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2014-2018

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School of Bio and Chemical Engineering
Department of Biomedical Engineering
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A value added course
on

DESIGN AND APPLICATION OF HEALTH CARE EQUIPMENT

Date: 7th - 12th August, 2017

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. S. Krishnakumar
Ms. Sindu Divakaran

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OFFERS**

A VALUE ADDED COURSE ON ARDUINO: A BASIC OVERVIEW

Date: 22nd - 27th January, 2018

Duration: 30 Hours

Objectives:

- **How to deploy program into Arduino and use it wirelessly**
- **Build your own applications and devices**
- **How to use ultrasonic sensor to detect obstacles**
- **How to setup the Arduino software and start outputting code**

Course Content:

- **Types of Arduinos and it's features**
- **Installation and configuration**
- **Installation and setting up of Arduino IDE**
- **Hardware requirements**
- **Programming the hardware**
- **Compiling and Error debugging**
- **Circuit diagram**
- **Source code of the project**
- **Arduino Programming**
- **Real time demonstration of the project**

Program Coordinator:

Dr. Grace Kanmani. P

Ms. Sindu Divakaran

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2016-2020

STUDENTS NAME LIST

S. NO.	REGISTER NUMBER	NAME
1.	3624001	ABHIJIT JOSHUA. J
2.	3624003	ABIRAMI. M
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SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed to be University)

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

PCB DESIGN AND PRODUCTION

Date: 5th - 10th March, 2018

Duration: 30 Hours

Course Objective:

This course will teach teams of students how to design and fabricate PCB for prototyping as well as in Industrial Production environment. This will help students to innovate faster with electronics technology.

Course Content:

- Fundamental of basic electronics
- Component identification
- Component symbols & their footprints
- Understand schematic
- Creating new PCB
- Browsing footprints libraries
- Setting up the PCB layers
- Design rule checking
- Track width selection
- Component selection
- Routing and completion of design
- Introduction to Electronic design automation (EDA) tools for PCB designing
- Introduction printed circuit board production techniques

Program Coordinator

Mr. G. Umashankar

Ms. Sindu Divakaran

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2017-2021

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S. No	REG NO	Name of the Student
1	37240001	AHAMED NIZAMUDDIN M S
2	37240002	AISHWARJA J
3	37240003	AJIN R
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SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

School of Bio and Chemical Engineering
Department of Biomedical Engineering
offers

A value added course
on

MODEL BASED DESIGN USING LABVIEW

Date: 9th - 13th July, 2018

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
- Modular Programming
- Data Management Techniques
- Controlling the User Interface
- Communication Protocols
- Wireless Communication Interfacing

Program Coordinator

Ms. Sindu Divakaran

Dr. S. Krishnakumar

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2015-2019

STUDENTS NAME LIST

S. NO	Register Number	Name of the Student
1	3524001	ABDULLAH.S
2	3524002	ABHIJIT GOSWAMI
3	3524003	AHAMED REFAL. H
4	3524004	AJIT THOMAS
5	3524005	ANTONY JOSEPHINE SNOWFY. W
6	3524006	ANTONY SHRUTI. P
7	3524008	ANUSUYAA MOHANDASS
8	3524011	BENNET LINTU BABU
9	3524013	CHRISTE MATHEW
10	3524015	GOPAL SAMY. G
11	3524016	HARISH. R
12	3524017	HASTI CHANDU PRIYA
13	3524018	HEMA MALINI. J
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27	3524033	MEENA. R
28	3524035	MOHAMMED IBRAHIM. R
29	3524036	MONIKA. K
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54	3524069	SUDHAN. Y
55	3524070	SUMITHA. P
56	3524071	SYED ABDUL WAJID. S. C
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59	3524075	YASHWANTHINI. N
60	3524801	RIMA DUTTA



SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

**School of Bio and Chemical Engineering
Department of Biomedical Engineering
offers**

**A value added course
on**

INTERNET OF THINGS

Date: 27th August - 1st September, 2018

Duration: 30 Hours

Course Outcomes:

- **Able to understand the application areas of IOT**
- **Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks**
- **Able to understand building blocks of Internet of Things and characteristics**

Course Content:

- **Introduction to Internet of Things**
- **IOT Architecture**
- **Physical Design of IOT**
- **Logical Design of IOT**
- **IOT Enabling Technologies, IOT Levels**
- **Domain Specific IOTs**
- **Developing Internet of Things & Logical Design**
- **Controlling The Digital Output Environment**
- **IOT Physical Devices & Endpoints**

Program Coordinator

**Dr. T. Sudhakar
Dr. J. Premkumar**

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2016-2020

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SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed to be University)

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

EMBEDDED BIOMEDICAL INSTRUMENTATION SYSTEMS

Date: 4th - 9th February, 2019

Duration: 30 Hours

Course Objective:

- **To study the fundamentals of embedded system and its hardware units.**
- **To study the concepts of various programming models for embedded system design**
- **To study the development activities of real time biomedical instrumentation system for medical applications**

Course Content:

- **Introduction to embedded systems**
- **Program modeling concepts**
- **Interfacing techniques for system design**
- **Real time multitasking system:**
- **Applications: Computerized versions of ECG, EEG, EMG Acquisitions**
- **Embedded implementation of physiological parameters monitoring system**
- **Role of body sensor networks for biomedical applications**
- **Study of wireless modules for biomedical applications- Case studies in medical signal and image processing**

Program Coordinator

Ms. Bethanne Janney J

Dr. Grace Kanmani. P

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2017-2021

STUDENTS NAME LIST

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SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed to be University)

SCHOOL OF BIO AND CHEMICAL ENGINEERING DEPARTMENT OF BIOMEDICAL ENGINEERING OFFERS A VALUE ADDED COURSE ON BASIC ELECTRONICS

Date: 18th - 22nd March, 2019

Duration: 30 Hours

Learning Outcomes:

- **Students will acquire the knowledge about the characteristics and working principles of electrical devices**
- **Students will get awareness about the general structure of power sources**
- **Students will be able to understand the working of various instruments and equipment's used for the measurement of different electrical parameters like voltage, current, power, phase etc**
- **Students will be able to identify various electronic components**

Course Content:

- **Basic electronic components: Capacitors, resistors, diodes, inductors, battery, Integrated circuits, transistors, etc**
- **Basic electrical components: Earth connections, fuse, wire colors**
- **Power sources: AC, DC Currents and voltages, AC generators and DC power supplies**
- **Measurement and testing instruments: Voltmeter, ammeter and millimeters**
- **Safe use of household appliances**
- **Application and utility of electrical components in our daily life**

Program Coordinator:

Mr. G. Umashankar

Ms. Sindu Divakaran

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
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38	38240042	VUKKA LAKSHMIDHAR
39	38240043	HARISH. T. S



SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed to be University)

SCHOOL OF BIO AND CHEMICAL ENGINEERING DEPARTMENT OF BIOMEDICAL ENGINEERING OFFERS

A VALUE ADDED COURSE ON INTELLECTUAL PROPERTY RIGHTS

Date: 8th - 13th July, 2019

Duration: 30 Hours

Objectives:

- To introduce fundamental aspects of Intellectual property Rights to students who are going to play a major role in development and management of innovative projects in industries.
- To disseminate knowledge on patents, patent regime in India and abroad and registration aspects
- To disseminate knowledge on copyrights and trademarks its related rights and registration aspects
- To aware about current trends in IPR and Govt. steps in fostering IPR

Course Content:

- Overview of Intellectual Property
- Patents
- Copyrights
- Trademarks
- Other forms of IP
 - Design
 - Geographical Indication (GI)
 - Layout Design Protection
- Current Contour

Program Coordinator:

Dr. T. Sudhakar

Dr. Anima Nanda

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2016-2020

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36.	3624057	RAVINA. T
37.	3624059	RIMISHA GUPTHA
38.	3624060	RITHIGHAA. B. R
39.	3624061	SANDRA BENNY
40.	3624062	SANGEETHA. S
41.	3624063	SAPTARSHI DAS GUPTA
42.	3624064	SATHIYANARAYANAN. S
43.	3624067	SINDHIYA. R
44.	3624068	SONAA. R
45.	3624069	SOWMIYA. S
46.	3624071	SRIKANTH. A
47.	3624072	SUGHASRI.K
48.	3624073	SURYA. S
49.	3624074	SUSHMITHA. K
50.	3624075	TANYA SRUTI I
51.	3624076	THAMARAI SELVI.S
52.	3624077	UPPALAPATI MANOJ KUMAR
53.	3624078	VADDARAPU SONU KIRAN
54.	3624079	VALLABHANENI KUMARA NADA VENKATA PRASAD
55.	3624080	VEERNAPATI SHINEY JOYCE
56.	3624081	VERONICA PRIYADHARSHINI. J
57.	3624082	VETRIVEL A
58.	3624083	VIGNESWARI. D
59.	3624085	VINITHA. S
60.	3624086	YASODHA. M



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)

School of Bio and Chemical Engineering
Department of Biomedical Engineering
offers
A value added course
on

ARDUINO PROGRAMMING

Date: 26th - 31st August, 2019

Duration: 30 Hours

Objectives:

To impart knowledge on

- Relation between python and ARDUINO programming for developing applications
- The working of python ARDUINO prototyping and networking

Course Content:

Upon completion of the course students will be able to

- Develop simple programs using ARDUINO IDE
- Create programs and interfacing ARDUINO with FIRMATA protocol
- Design GUI for different applications
- Develop web application using python

Vision of the Department

To be globally recognized as a research driven Department to nurture Biomedical Engineers with sound knowledge in clinical translation of diagnostic and therapeutic innovation for advanced human health care.

Mission of the Department

M1: To impart quality education to the aspiring engineers through effective teaching learning techniques to enhance their skills, capacity and make them globally competitive Biomedical Engineers

M2: To develop collaborations with national, international institutes, research & development organizations and industries for advanced technology in health care system

M3: To provide professional skills for designing biomedical equipment and technical support for medical equipment.

M4: To mould the young minds to emerge as established professionals or entrepreneurs to fulfill the demands of the society towards healthcare

Program Coordinator:

Ms. Bethanney Janney J

Mr. G. UmaShankar

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF BIOMEDICAL ENGINEERING

BATCH 2017-2021

STUDENTS NAME LIST

S. No	REG NO	Name of the Student
1	37240001	AHAMED NIZAMUDDIN M S
2	37240002	AISHWARJA J
3	37240003	AJIN R
4	37240004	AKSHAYA P C
5	37240005	ANGELINE J
6	37240006	ANTONY FATHIMA SHINY J
7	37240007	ANUMOLU VENKATA SIVA SANKAR
8	37240008	ANUPRIYA SONI
9	37240010	ARAVINDHAN G
10	37240012	ARCHANA R
11	37240013	ASHWATHI H
12	37240014	BALAMURUGAN G
13	37240015	BANDARU SAIMANIDEEP
14	37240016	BRABIN RAJ P
15	37240017	CAROLINE CHRISelda.L
16	37240018	CHANDANA H
17	37240019	DEEPAK V S
18	37240020	DEVISRI K
19	37240021	DHELIP D
20	37240022	DURGA M
21	37240023	FAHIRA PARVEEN M. S
22	37240024	GAYATHRI.P
23	37240025	GODWINSON J
24	37240026	HEMANTH KUMAR.S
25	37240028	JAISEPH JOSEPH SABU
26	37240029	JANANI E
27	37240030	JASMINE J
28	37240032	JAYASREE J
29	37240034	JEEVA.J
30	37240038	JONES LEO RAJ P
31	37240039	KAAVIYA V
32	37240041	KARKUZHALI D
33	37240042	KARNATI NAGADIVYA
34	37240044	KAVITHA LAKSHMI J
35	37240046	KOWSALYA.V
36	37240047	LOGAPRIYA.S
37	37240048	LUMEN CHRISTY V
38	37240049	MAHESH KUMAR S
39	37240050	MANOBALA.P

40	37240051	MANOJKUMAR.P
41	37240052	MERCY GRACE M
42	37240054	MONISHA.S
43	37240056	PANDALANENI PRUTHULA
44	37240057	PAUL JOHN P
45	37240058	PULIMI PRIYAMVADHA
46	37240059	RADHA K
47	37240060	RAHUL THOMAS RAJEEV
48	37240063	RANJITH R
49	37240065	SANTHI.P
50	37240068	SIVASANKAR.K
51	37240069	SNEHA BHATTACHARYYA
52	37240070	SONALI DAS
53	37240071	SONICA SREE K
54	37240072	SOUNDHARYA B
55	37240073	SWEDHA.K
56	37240076	VIGNESHWARI P
57	37240078	VISHAL.R. S
58	37240079	NIVEDHA.S
59	37240080	SOFICA.B
60	37240081	GOMATHI BALA.M. K



SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed to be University)

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

EMBEDDED BIOMEDICAL INSTRUMENTATION SYSTEMS

Date: 3rd - 8th February, 2020

Duration: 30 Hours

Course Objective:

- **To study the fundamentals of embedded system and its hardware units.**
- **To study the concepts of various programming models for embedded system design**
- **To study the development activities of real time biomedical instrumentation system for medical applications**

Course Content:

- **Introduction to embedded systems**
- **Program modeling concepts**
- **Interfacing techniques for system design**
- **Real time multitasking system:**
- **Applications: Computerized versions of ECG, EEG, EMG Acquisitions**
- **Embedded implementation of physiological parameters monitoring system**
- **Role of body sensor networks for biomedical applications**
- **Study of wireless modules for biomedical applications- Case studies in medical signal and image processing**

Program Coordinator

Ms. Bethanne Janney J

Dr. Grace Kanmani. P

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 (Deemed to be University)

SCHOOL OF BIO AND CHEMICAL ENGINEERING DEPARTMENT OF BIOMEDICAL ENGINEERING OFFERS

A VALUE ADDED COURSE ON UNIVERSAL HUMAN VALUES Date: 16th - 21st March, 2020 Duration: 30 Hours

Learning Outcomes:

- **students are expected to become more aware of themselves, and their surroundings (family, society, nature)**
- **Students would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind**
- **Students would have better critical ability. They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society)**
- **Students would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction**

Course Content:

- **Course Introduction - Need, Basic Guidelines for Value Education**
- **Content and Process for Value Education**
- **Understanding Harmony in the Human Being - Harmony in Myself**
- **Understanding Harmony in the Family and Society**
- **Understanding Harmony in Human Relationship**
- **Understanding Harmony in the Nature and Existence - Whole existence as Coexistence**

Program Coordinator:

Dr. J. Premkumar

Dr. S. Krishnakumar

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