



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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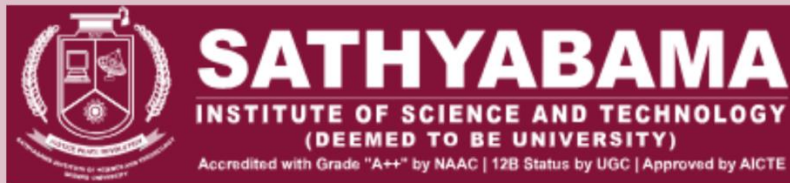
School of Electrical and Electronics

Department of Electrical and Electronics Engineering

1.3.2 Value Added Courses (2022-2023)

S. No.	Title	Event Dates	Page No.
1.	Programming using Arduino Uno	06.07.22 to 11.07.22	2
2.	Smart Grids and Grid Integration	22.08.22 to 26.08.22	8
3.	Electrical Circuit Design and Prototyping	05.09.22 to 09.09.22	13
4.	Applications and Advancements in Battery Management System	23.01.23 to 27.01.23	18
5.	Embedded Systems Design and Development	06.02.23 to 10.02.23	23

Course1: Programming using Arduino Uno



**SCHOOL OF ELECTRICAL AND ELECTRONICS
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ORGANIZES
Value Added Course
on
PROGRAMMING USING ARDUINO UNO**



DATE: FROM 06.07.22 TO 11.07.22

TIME: 9.00 AM TO 3.00 PM

Resource Persons

Mr.M.Yatish
Country manager,
Digital Shark Technology Pvt Ltd,
Bengaluru.

CHIEF PATRONS

*Dr.Mariazeena Johnson
Chancellor*

*Dr.Marie Johnson
President*

*Mr.J.Arul Selvan
Vice President*

*Ms.Maria Bernadette Tamilarasi
Vice President*

*Ms.Maria Catherine Jayapriya
Vice President*

PATRON

*Dr.T.Sasipraba
Vice Chancellor*

Convenors

*Dr.N.M.Nadhitha,
Prof&Dean/SoEE*

*Dr.V.Sivachidambaranathan
Prof&Head/EEE*

Co-Convenors

*Dr.S.Radhika, Asso.Prof/EEE
Dr.V.Meenakshi, Asso.Prof/EEE
Dr.D.Susithra, Asso.Prof/EEE*

Schedule for the Course: Programming using Arduino Uno

Date	Time	Name of the Expert&Affiliation	Topic	Contents
06.07.22	9.00AM-12.00PM 1.00PM-3.00PM	Mr.M.Yatish Country manager, Digital Shark Technology Pvt Ltd, Bengaluru.	Programming using Arduino Uno	Structure of an Arduino program and how program statements are executed
07.07.22				Compiling and Debugging using IDE Writing Your First Program: A Blinking Light ("Hello World" of Electronics).
08.07.22				Arduino Sensors
09.07.22				Arduino Secondary Integrations
11.07.22				Arduino Communications

Participants List: Programming Using Arduino Uno

S.No	RollNo.	Name of the Student
1.	19S149002	AKASH KUMAR. A
2.	19S149003	AMUDHA. S
3.	19S145023	ANUSHAA. A
4.	19S149025	ASHWINI. S
5.	19S145001	ASWIN RAJ. R
6.	19S145022	BALAJI. A
7.	19S145002	BANOTHU HARI KRISHNA
8.	19S145021	BENIN. J M
9.	19S149033	BHARATHI. S
10.	19S145024	BREEZE. J.M
11.	19S141006	DHANUSH. G
12.	19S145003	DHINESH PANDI. J
13.	19S149013	DINESH. M
14.	19S145020	FURKHAN MOHIDEEN. M
15.	19S149017	GUNAL. N
16.	19S145005	HAMEED FAZIL. I
17.	19S149004	HARINI. C
18.	19S149009	ISWARYA. S
19.	19S148001	JEEVANANTHAM. D.S
20.	19S149021	JOTHIKA. P
21.	19S141001	KANDREGULA MURALI VENKATA AKHILESH
22.	19S145016	KARTHIK VISHVA. V
23.	19S149010	KEERTHANA. M S
24.	19S141002	KESHAV SRIDHAR
25.	20S145008	ABHAY VERMA
26.	20S145013	AKULA LAXMI PRASANNA
27.	20S149021	BADRINATH B
28.	20S149008	BAKIYALAKSHMI V
29.	20S145011	BELLAM TARUN
30.	20S145004	DEEPAK K
31.	20S145010	DIVAGAR G
32.	20S149023	ENIKA S
33.	20S149005	GAYATHRI J

34.	20S145003	GUNASEELAN G
35.	20S145006	GUNASEKAR J
36.	20S145001	HAKHILESH NEELAMEGAN
37.	20S149013	HARIPRASATH S
38.	20S149014	HARISANKAR S
39.	20S148003	JAYA BREESTLIN J
40.	20S149012	KAMALEESWARI D
41.	20S149022	KANAGA G
42.	20S145005	KISHORE B
43.	20S149002	KOWSALYA S
44.	20S149001	LINGADHARAN B
45.	20S145007	LOGESH C
46.	20S149019	MALATHI C
47.	20S148002	MOSES RAJ P
48.	20S149009	POORNIMA K


Signature of the HOD

Course Outcomes for the Course: Programming using Arduino Uno

CO1: Understand the fundamentals of how to use, communicate with, and operate the Arduino.

CO2: Develop skills to interface sensor-driven physical computing system.

CO3: Design and implement various smart systems using Arduino.

CO4: Demonstrate the Arduino Interfacing

CO5: Analyze the parallel and serial communication modules Arduino UART.





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING*

CERIFICATE OF PARTICIPATION

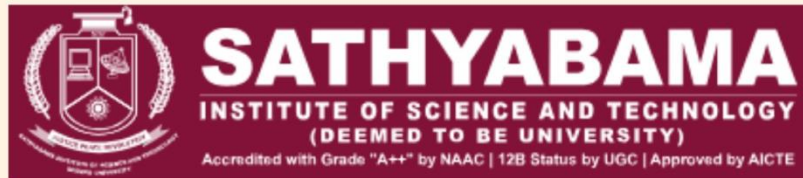
THIS TO CERTIFY THAT

AKASH KUMAR. A

had successfully participated in Value Added Course on "Programming Using Arduino Uno" organized by Sathyabama Institute of Science and Technology, Chennai from 6th July 2022 to 11th July 2022

DR.V.SIVACHIDAMBARANATHAN
HOD/EEE DEPARTMENT

Course2: Smart Grids and Grid Integration



**SCHOOL OF ELECTRICAL AND ELECTRONICS
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ORGANIZES**

**Value Added Course
on
SMART GRIDS AND GRID INTEGRATION**



DATE: FROM 22.08.22 TO 26.08.22

TIME: 9.00 AM TO 3.00 PM

Resource Persons

Mr.Gopalan,
Soft Skill Trainer,
AMET UNIVERSITY
Chennai

CHIEF PATRONS

*Dr.Mariazeena Johnson
Chancellor*

*Dr.Marie Johnson
President*

*Mr.J.Arul Selvan
Vice President*

*Ms.Maria Bernadette Tamilarasi
Vice President*

*Ms.Maria Catherine Jayapriya
Vice President*

PATRON

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Vice Chancellor*

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*Dr.N.M.Nadhitha,
Prof&Dean/SoEE
Dr.V.Sivachidambaranathan
Prof&Head/EEE*

Co-Convenors

*Dr.Sundarsingh Jebaseelan,
Asso.Prof/EEE
Dr.Godwin Immanuel, Asso.Prof/EEE
Dr.Ramesh Babu, Asso.Prof/EEE*

Schedule for the Course: Smart Grids and Grid Integration

Date	Time	Name of the Expert & Affiliation	Topic	Contents
22.08.22	9.00AM-12.00PM 1.00PM–3.00PM	Mr.Gopalan, Soft Skill Trainer, AMET UNIVERSITY Chennai	Smart Grids and Grid Integration	Smart Grid Architectural Designs
23.08.22				Smart Grid Communications and Measurement Technology
24.08.22				Performance Analysis Tools for Smart Grid Design
25.08.22				Stability Analysis Tools for Smart Grid
26.08.22				Computational Tools for Smart Grid Design

Participants List: Smart Grids and Grid Integration

S.No	Roll No.	Name of the Student
1.	19S141003	KORLAPATI KRISHNA BABU
2.	19S149011	LOGESHWARAN. J
3.	19S149012	LOGESHWARI. A
4.	19S149015	MAHANTHI MADHUSUDHANA RAO
5.	19S149014	MUPPE MANISHANKAR REDDY
6.	19S145017	MATHESH. A
7.	19S149016	MD DILSHAD
8.	19S145019	MOHAN RAJ. K
9.	19S149006	NARMADHA. E
10.	19S145013	NIKESH KUMAR. S
11.	19S149019	PARKAVI. V
12.	19S149018	PAVITHRA. P
13.	19S149020	PAVITHRA. R
14.	19S149031	PAVITHRA. V
15.	19S149001	POOJA. A
16.	19S149007	POOVARASI. G
17.	19S149008	PRADEENA. G
18.	19S145006	PRAHADEESH. S
19.	19S149022	PRITHI. K
20.	19S145014	RAGHUL. S
21.	19S149023	RAVURI ARAVIND
22.	19S149024	RIZWAN
23.	19S145007	ROHIT. M
24.	19S145026	SANJAY. K
25.	19S145008	SARAN. P
26.	19S149026	SHANTANU KUMAR
27.	19S141004	SHREYANSH SINGH
28.	19S149032	SINDHU. V
29.	20S149011	PRABAVATHI B
30.	20S149015	PULI PRIYANKA
31.	20S149007	RENGANAYAGI P
32.	20S149017	ROJA S
33.	20S149020	SARATHI S
34.	20S145012	S RAKESH
35.	20S149006	SHALINI E
36.	20S148001	SHANIK A
37.	20S145002	SHERYN F
38.	20S149004	SURIYAPRIYA M
39.	20S149003	SWETHA P

40.	20S149016	VYSHNAVI KARROTHU
41.	21SL14801	ABHAY KAUSHAL
42.	21SL14802	DHINESH KUMAR
43.	21SL14803	BUSINENI REDDY CHANDRA SEKHAR
44.	21SL149001	SUDARSAN T
45.	22S345001	KARTHIK KRISHNA. S
46.	22S345003	M.S.PRAVEEN KUMAR
47.	22S345002	VIGNESH PANDIAN R


Signature of the HOD

Course Outcomes for the Course: Smart Grids and Grid Integration

CO1: Analyze the functions of smart grid components.

CO2: Compare Smart grid and Micro grid.

CO3: Analyze the performance tools of Smart grid.

CO4: Analyze the stability tools for Smart grid.

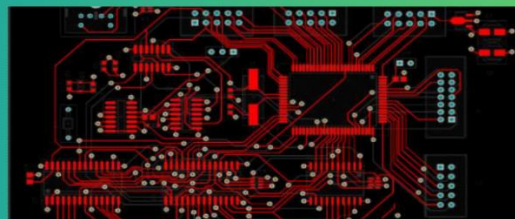
CO5: Estimate the evaluation tools for Smart grid design.



Course3: Electrical Circuit Design and Prototyping



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ORGANIZES
Value Added Course
on
ELECTRICAL CIRCUIT DESIGN AND PROTOTYPING



DATE: FROM 05.09.22 TO 09.09.22

TIME: 9.00 AM TO 3.00 PM

Resource Persons
V.Rattan Kumar, Assistant
Professor(Gr-II) Aarupadai Veedu
Institute of Technology, Chennai

CHIEF PATRONS

Dr.Mariazeena Johnson
Chancellor

Dr.Marie Johnson
President

Mr.J.Arul Selvan
Vice President

Ms.Maria Bernadette Tamilarasi
Vice President

Ms.Maria Catherine Jayapriya
Vice President

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Dr.V.Sivachidambaranathan
Prof&Head/EEE

Co-Convenors

Dr.Meenakshi, Asso.Prof/EEE

Dr.Bharathi, Asso.Prof/EEE

Dr.Ramya, Ass.Prof/EEE

Schedule for the Course: Electrical Circuit Design and Prototyping

Date	Time	Name of the Expert & Affiliation	Topic	Contents
05.09.22	9.00AM-12.00PM 1.00PM-3.00PM	V.Rattan Kumar, Assistant Professor(Gr-II) Aarupadai Veedu Institute of Technology, Chennai	Electrical Circuit Design and Prototyping	Cost estimating of industrial power systems
06.09.22				Cable Sizing and Selection of single Phase and Three Phase
07.09.22				Internal Electrification design
08.09.22				Protection of Buildings and Allied Structures Against Lightning
09.09.22				Earthing Design and Calculation of Power Plants

Participants List: Electrical Circuit Design and Prototyping

S.No	Roll No.	Name of the Student
1.	19S149005	SNEHA. D
2.	19S149027	SNOWSHA. J
3.	19S149028	SRIDHAR. P
4.	19S145009	SRINATH. G
5.	19S145011	STEPHIN MAJU. M
6.	19S145025	SUJOY HALDER
7.	19S149029	SUNEEL
8.	19S149030	SURYA. V
9.	19S145015	THARINI. N. P
10.	19S145018	VENKATA SAI VASHISTA. V
11.	19S141005	VIJAYA RAAGHAVAN. S
12.	20SL14801	ADUPA VIGNESH
13.	20SL14802	CHILUKURI VENKAT
14.	20SL14803	S. HRITHIK
15.	20SL14804	M.SHIVA
16.	20SL14805	MUAZIM AYAS. T.A
17.	20SL14806	ARUN KUMAR. P.B
18.	20SL14807	UDAYA CHANDRAN. R
19.	20SL14808	RAMAVATAR YADAV
20.	20SL14809	MACHAVARAPU LALITHA SREE
21.	21S149004	AATHIKESAWAR G
22.	21S149017	AATHIS KANNAN S
23.	21S145029	ADITI BHOWMIK
24.	21S145043	ADITYA TEJAS VEERARAGHAVAN
25.	21S149007	AKSHAYA R
26.	21S145035	AMIT KUMAR
27.	21S149035	ANUSIYA K
28.	21S149015	BONELA HYMAVATHI
29.	21S149003	BUVANESHWARI J
30.	21S145004	DHANUSH KUMARAN M
31.	21S149044	DHIVYA A
32.	21S145032	DIRISALA NAGA SIVA CHANDRA MOULI
33.	21S149021	ESAKKIAMMAL M
34.	21S149036	GEETHALAKSHMI M
35.	21S145041	GOPIKA M
36.	21S145040	GOTTUMUKKALA NITHISH SURYA VARMA
37.	21S149046	GUBBALA AISHWARYA
38.	21S145019	HARISH V
39.	21S145006	HERALD LEO L
40.	21S145030	IMANDHI JAY SHANKAR SAI JASHWANTH

		RAJ
41.	21S149006	INDHU G
42.	21S149009	INDHUMATHI P
43.	21S149034	JAYAPRIYA R
44.	21S149033	JEEVITHA R
45.	21S145033	JERRIN MICHEAL R
46.	21S148001	JESSICK J
47.	21S145044	KANAKAPILLAI MIDHUNESHWAR
48.	21S149023	KEERTHANA V


Signature of the HOD

Course Outcomes for the Course: Electrical Circuit Design and Prototyping

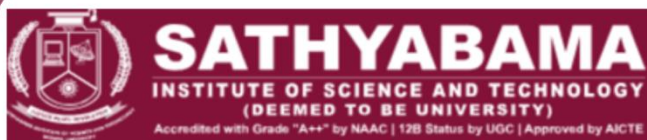
CO1: Analyze the equipment and material cost to prepare the cost estimate.

CO2: Determine the Cable Selection Based on Current Rating of feeder

CO3: Design of sub circuits like Lighting Circuit and Power Circuit.

CO4: Formulate the Protective Angles and Zone Of Protection for Various forms of Air Termination

CO5: Determine the factors influencing the choice of Earthed and Unearthed systems



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ENGINEERING

THIS TO CERTIFY THAT

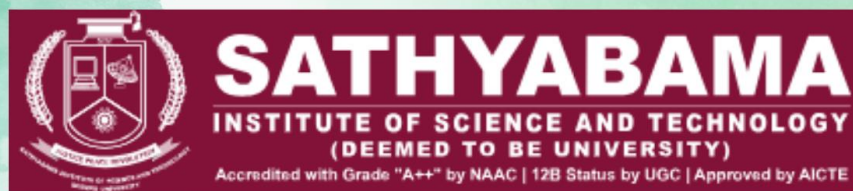
KEERTHANA V

had successfully participated in the Value Added Course on
"Electrical Circuit Design and Prototyping" organized by
Sathyabama Institute of Science and Technology, Chennai from
5th Sept 2022 to 9th Sept 2022

Dr.V.Sivachidambaranathan

HOD/EEE Department

Course4: Applications and Advancements in Battery Management System



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ORGANIZES
Value Added Course
on

APPLICATIONS AND ADVANCEMENTS IN BATTERY MANAGEMENT SYSTEM

DATE: FROM 23.01.23 TO 27.01.23

TIME: 9.00 AM TO 3.00 PM

Resource Persons

Mr.G.Rajaganesan,
Chief Technical officer-
Solar Initiatives, TATTI,
Chennai.

CHIEF PATRONS

Dr.Mariazeena Johnson
Chancellor

Dr.Marie Johnson
President

Mr.J.Arul Selvan
Vice President

Ms.Maria Bernadette Tamarasi
Vice President

Ms.Maria Catherine Jayapriya
Vice President

PATRON

Dr.T.Sasipraba
Vice Chancellor

Convenors

Dr.N.M.Nadhitha,
Prof&Dean/SoEE

Dr.V.Sivachidambaranathan
Prof&Head/EEE

Co-Convenors

Dr.Ramesh Babu, Asso.Prof/EEE

Dr.Barnabas Paul Gladly, Asso.Prof/EEE

Dr.V.Senthil Nayagam, Ass.Prof/EEE

Schedule for the Course: Applications and Advancements in Battery Management System

Date	Time	Name of the Expert & Affiliation	Topic	Contents
23.01.23	9.00AM-12.00PM 1.00PM–3.00PM	Mr.G.Rajaganesan, Chief Technical officer- Solar Initiatives, TATTI, Chennai.	Applications and Advancements in Battery Management System	Introduction to Battery Management System
24.01.23				Battery Management System Requirements
25.01.23				Battery State of Charge and State of Health Estimation, Cell Balancing
26.01.23				Modeling and Simulation
27.01.23				Design of battery BMS

Participants List: Applications and Advancements in Battery Management System

S.No	RollNo.	Name of the Student
1.	21S149043	KOLLAPANENI VARSHITHA
2.	21S149022	KRISHNAVENI S
3.	21S149002	MAHALAKSHMI R
4.	21S149038	MAHSAR
5.	21S145022	MANGALAGIRI PURNIMA
6.	21S145015	MANIBHARATHI K
7.	21S141002	MOHAN V
8.	21S149005	MOHAN RAM S
9.	21S149032	PADMASRI S
10.	21S149031	PAVITHRA M
11.	21S145045	PERIYAR SELVAN N
12.	21S145013	V R POOJA
13.	21S149020	POOJA J
14.	21S149008	PRIYA V
15.	21S149010	PRIYADARSINI K
16.	21S145009	RAJESH G
17.	21S149030	SANGEETHA S
18.	21S149024	SARITHIRA P
19.	22S145018	S. AKSHAI
20.	22S145002	ASTIKA K
21.	22S149011	BHARATHI B
22.	22S145017	DHARANIDHARAN S
23.	22S149012	DIVYA C
24.	22S149014	M.DIVYA DHARSHINI
25.	22S149001	DIVYA P
26.	22S145003	ESWAR.M
27.	22S145024	FRANKLIN BENIELRAJ P
28.	22S141001	GEORGE PHILIP
29.	22S145008	HARIHARAN J
30.	22S145009	ILANTHENDRAL P
31.	22S149016	JERSHIKA.J.
32.	22S145020	KANISHKAR
33.	22S145029	KRISHNAA JAYAN
34.	22S145027	M. LAKSHMI MEGHANA
35.	22S149006	MEENA ROSHINI.S
36.	22S145025	MOHAMED MUFEEZ B
37.	22S149020	MOHANASURUTHI.S
38.	22S5028	MOHANDASS.R
39.	22S145030	MUKESH

40.	22S149017	MUKILA BAMA A
41.	22S145007	MUNNA KUMAR
42.	22S145015	MURALIDHARAN.R
43.	22S149008	MUTHULAKSHMI
44.	22S145011	NAVIN RAJ L
45.	22S149002	PAVITHRA V
46.	22S149004	PEMULA DIVYA
47.	22S145013	PRADEEP.A


Signature of the HOD

Course Outcomes for the Course: Applications and Advancements in Battery Management System

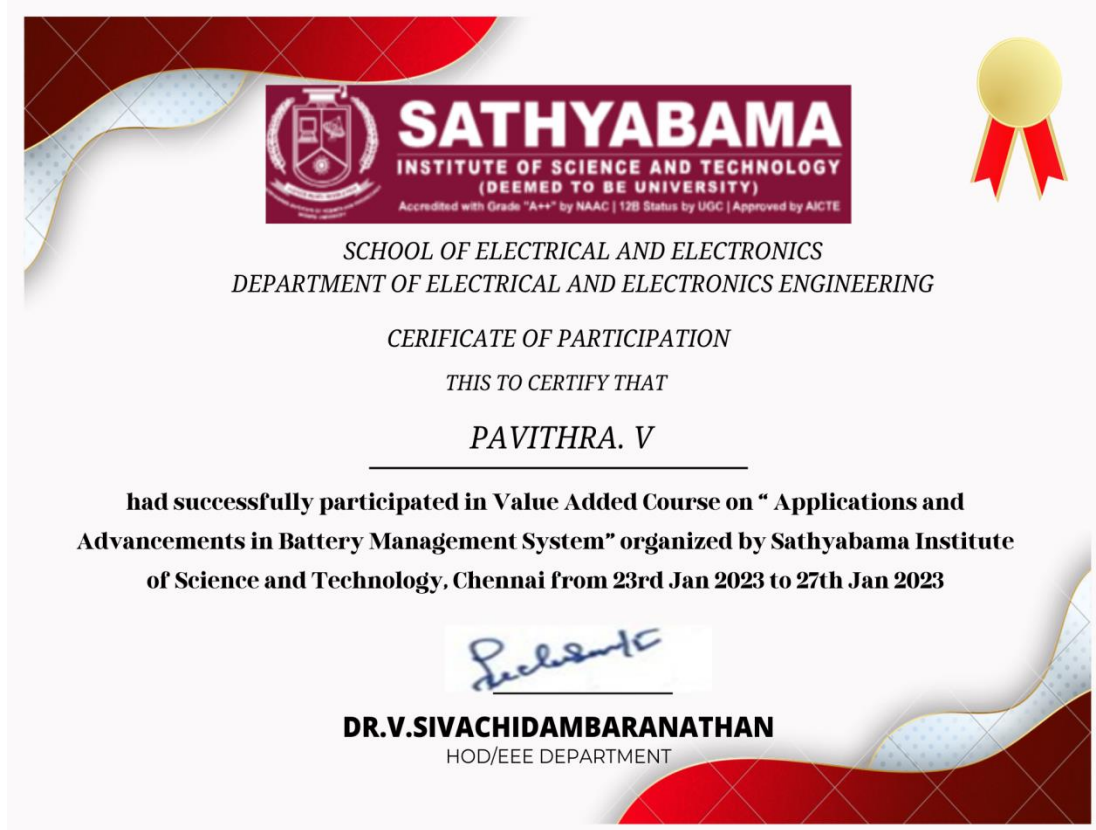
CO1: Interpret the role of battery management system

CO2: Identify the requirements of Battery Management System

CO3: Interpret the concept associated with battery charging / discharging process

CO4: Calculate the various parameters of battery and battery pack

CO5: Design the model of battery pack



Course5: Embedded Systems Design and Development



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ORGANIZES
Value Added Course
on
EMBEDDED SYSTEMS DESIGN AND
DEVELOPMENT**

DATE: FROM 06.02.23 TO 10.02.23

TIME: 9.00 AM TO 3.00 PM

**Resource Persons
Mr.chunchunkumar,
Vedamrit technology
solutions,Chennai**

CHIEF PATRONS

**Dr.Mariazeena Johnson
Chancellor**

**Dr.Marie Johnson
President**

**Mr.J.Arul Selvan
Vice President**

**Ms.Maria Bernadette Tamilarasi
Vice President**

**Ms.Maria Catherine Jayapriya
Vice President**

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Prof&Dean/SoEE**

**Dr.V.Sivachidambaranathan
Prof&Head/EEE**

Co-Convenors

Dr.D.N.S.Ravikumar, Asso.Prof/EEE

Dr.Radhika, Asso.Prof/EEE

Dr.V.Senthil Nayagam, Ass.Prof/EEE

Schedule for the Course: Embedded Systems Design and Development

Date	Time	Name of the Expert & Affiliation	Topic	Contents
06.02.23	9.00AM-12.00PM 1.00PM–3.00PM	Mr.chunchunkumar Vedamrit technology solutions, Chennai.	Embedded Systems Design and Development	Fundamentals of Embedded System
07.02.23				Embedded Hardware and Design
08.02.23				Embedded Serial Communication
09.02.23				Embedded Software, Firmware Concepts and Design
10.02.23				CASE STUDY: Wireless sensor networks

Participants List: Embedded Systems Design and Development

S.No	Roll No.	Name of the Student
1.	21S149026	SASIKUMAR K
2.	21S145011	SATHISH M
3.	21S145046	SHAIK THAEeba NOOR
4.	21S145026	SHUBHAM KUMAR
5.	21S149028	SIVARANJANI S
6.	21S149025	SNEKHA R
7.	21S145021	SREELAKSHMI T
8.	21S145023	SUDHIKSHA S
9.	21S149018	SUSMITHA D V
10.	21S145025	URJA RAO AVASARALA
11.	21S149019	VARSHA S
12.	21S145024	VISHRUTHA S A
13.	21S145052	PRETIISH RAJASEKARAN
14.	22SL14803	JAGADEESWAR REDDY PEDDAMALLU
15.	22SL14801	KAMESHVAR S
16.	22SL14901	MANIKANDAN R
17.	22SL14802	SATYA PRAKASH
18.	22S149003	PRAVEEN KUMAR R
19.	22S149009	V.PRIYANGA
20.	22S149019	K.M.RAHUL
21.	22S149015	RAJA RAJESWARI M
22.	22S145021	RAM ADHIKARI
23.	22S148002	M SAHAYA ANISHA
24.	22S148003	SANJAY.S
25.	22S145022	SANJANA KUMARI
26.	22S145006	SARAN.S
27.	22S145031	E SEEGAN PAUL
28.	22S145010	SRIRAM K
29.	22S145005	M.SRI SUBRITHA
30.	22S145026	S.SRITHAR BALU
31.	22S148001	STEVE ISHAN.Y
32.	22S145032	SUBHAMADHESH.R
33.	22S145014	SUJITH T
34.	22S145001	SYLVESTER SHEELA.J
35.	22S145004	TANNU KUMAR

36.	22S149007	B. THIRISHA
37.	22S149005	S. THIRUVENI
38.	22S149013	UMASANKARI.V
39.	22S145016	VED PARKASH TRIPATHI
40.	22S149010	C.VINOPRIYA
41.	22S145019	M.VISHAL SHARON
42.	22S149018	M.VISHNU PRIYA
43.	22S145036	CHITIKILA .MOHAN ARAVIND
44.	22S148004	DANIEL J
45.	22S145035	A.JACK JETLINE
46.	22S145034	K.SANTHOSH
47.	22S145044	AKSHAYA KAMAKSHI A
48.	22S145047	ASHWIN.P


Signature of the HOD

Course Outcomes for the Course: Embedded Systems Design and Development

CO1: Acquire knowledge and understand fundamental embedded systems design paradigms

CO2: Analyze a system both as whole and in the included parts, to understand how these parts interact in the functionality and properties of the system

CO3: Analyze and implement embedded systems, e.g. integrating embedded subsystems and applications in building a fully functional autonomous robot

CO4: Apply formal method, testing, verification, validation and simulation techniques and tools in order to engineer reliable and safe embedded systems

CO5: Demonstrate a deeper understanding of the electronics and physical principles used for embedded biomedical measuring systems





*SCHOOL OF ELECTRICAL AND ELECTRONICS
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING*

CERTIFICATE OF PARTICIPATION

THIS TO CERTIFY THAT

SASIKUMAR K

had successfully participated in Value Added Course on "Embedded Systems Design and Development" organized by Sathyabama Institute of Science and Technology, Chennai from 6th Feb 2023 to 10th Feb 2023

DR.V.SIVACHIDAMBARANATHAN

HOD/EEE DEPARTMENT