

SYLLABUS/
CURRICULUM



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu
Mobile : 9842102628, 7373002628 Email : info@psyec.edu.in Website : www.psyec.edu.in

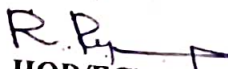
City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING COURSE - SYLLABUS

VACECE1920ESD-EMBEDDED SYSTEMS DESIGN USING ARM LPC2148

- CHAPTER-1 Introduction to Embedded Systems & LPC2148 Architecture** 7
Overview of embedded systems Importance of embedded systems in various applications
Introduction to LPC2148 microcontroller LPC2148 Architecture and Programming Basic
Architecture overview Memory organization GPIO configuration and interfacing
Introduction to Keil IDE
- CHAPTER-2 Peripheral Interfacing** 7
Timers and counters Interrupts and their handling Analog to Digital Conversion (ADC)
Serial Communication (UART) Advanced Peripheral Interfacing Pulse Width Modulation
(PWM) Inter-Integrated Circuit (I2C) communication Serial Peripheral Interface (SPI)
communication Real-Time Clock (RTC) interfacing
- CHAPTER-3 Embedded C Programming for LPC2148** 7
Programming techniques and best practices Memory management and optimization
Debugging techniques RTOS (Real-Time Operating Systems) Concepts Introduction to
RTOS Overview of FreeRTOS Task management and scheduling
- CHAPTER-4 RTOS Implementation on LPC2148** 7
Configuring Free RTOS for LPC2148 Task creation, management, and synchronization
Intertask communication Project Development: Participants form groups Project proposal
submission and approval Project implementation phase begins
- CHAPTER-5 Project Development** 7
Project Development Mentoring sessions for project groups Troubleshooting and debugging
Integration of peripherals and sensors Final project presentations Evaluation based on project
implementation, innovation, and documentation Certificate distribution


COURSE COORDINATOR


HOD/ECE

TOTAL:35Hrs

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Sivagangai Dt. Tamilnadu



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE SCHEDULE

VACECE1920ESD-EMBEDDED SYSTEMS DESIGN USING ARM LPC2148

DATE	TIME	SYLLABUS
02.06.2020	9.30am -1.00pm	Introduction to Embedded Systems Overview of embedded systems Importance of embedded systems in various applications Introduction to LPC2148 microcontroller LPC2148 Architecture and Programming Basics Architecture overview Memory organization GPIO configuration and interfacing Introduction to Keil IDE
	2.00pm-5.00pm	
03.06.2020	9.30am -1.00pm	Peripheral Interfacing Timers and counters Interrupts and their handling Analog to Digital Conversion (ADC) Serial Communication (UART) Advanced Peripheral Interfacin Pulse Width Modulation (PWM) Inter- Integrated Circuit (I2C) communication Serial Peripheral Interface (SPI) communication Real-Time Clock (RTC) interfacing
	2.00pm-5.00pm	
04.06.2020	9.30am -1.00pm	Embedded C Programming for LPC2148 Programming techniques and best practices Memory management and optimization Debugging techniques RTOS (Real-Time Operating Systems) Concepts Introduction to RTOS Overview, of FreeRTOS Task management and scheduling
	2.00pm-5.00pm	
05.06.2020	9.30am -1.00pm	RTOS Implementation on LPC2148 Configuring FreeRTOS for LPC2148 Task creation, management, and synchronization Inter-task communication Project Development: Participants form groups Project proposal submission and approval Project implementation phase begins
	2.00pm-5.00pm	
06.06.2020	9.30am -1.00pm	Project Development Mentoring sessions for project groups Troubleshooting and debugging Integration of peripherals and sensors Final project presentations Evaluation based on project implementation, innovation, and documentation Certificate distribution
	2.00pm-5.00pm	

Tea Break: 10:40 am to 10:55am & 02:45 pm to 15:00 pm

Lunch Break: 12:30pm to 01:00pm

TOTAL: 35hrs


COURSE COORDINATOR


HOD / ECE


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2019– 2020

One page Report

Name of the course : EMBEDDED SYSTEMS DESIGN USING ARM LPC2148

Development Course Code : VACECE1920ESD

Resource Person : Mr Ashwin Desai ,Managing Director

A&T Video Networks Pvt Ltd, Madurai

Course Coordinator : Mrs M.Nilobhar AP/ECE

Date/Duration : 02.06.2020-06.06.2020— 35 hour

I here affirm that the Final-year students of strength 30 have been taught the value-added course title “EMBEDDED SYSTEMS DESIGN USING ARM LPC 2148” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “EMBEDDED SYSTEMS DESIGN USING ARM LPC1248” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.


COURSE COORDINATOR


HOD/ECE


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ASSESSMENT PROCEDURE



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangal Highway, Arasanoor, Thirumansolai Post, Sivagangal Dt. - 630 661, Tamilnadu
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VACECEI920ESD-EMBEDDED SYSTEMS DESIGN USING ARM LPC 1248

ASSESSMENT QUESTION WITH ANSWER

1. What is an embedded system?

- a) A system that can be easily modified
- b) A system designed for general-purpose computing
- c) A system designed to perform specific functions within a larger system
- d) A system that relies solely on cloud computing


2. Which of the following is not a characteristic of embedded systems?

- a) Limited resources
- b) Real-time operation
- c) High-level programming languages
- d) Fixed functionality

3. What is the purpose of a microcontroller in an embedded system?

- a) To provide connectivity to the internet
- b) To execute specific tasks according to the program loaded into it
- c) To act as a display unit
- d) To provide power to the system

4. Which programming languages are commonly used for embedded systems development?


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P.O. 630 661

- a) Python and Ruby
- b) C and C++
- c) Java and JavaScript
- d) HTML and CSS

5. What is the role of a bootloader in an embedded system?

- a) To load the operating system
- b) To provide security features
- c) To manage power consumption
- d) To control the temperature of the system

6. Which of the following is an example of a real-time operating system (RTOS) commonly used in embedded systems?

- a) Windows
- b) Linux
- c) Android
- d) FreeRTOS

7. What is the purpose of using interrupts in embedded systems?

- a) To pause the execution of the program
- b) To initiate communication with external devices
- c) To shut down the system
- d) To increase power consumption

8. Which of the following is not a common communication protocol used in embedded systems?

- a) UART
- b) USB
- c) TCP/IP
- d) HTTP

9. What is the significance of power consumption in embedded systems?

- a) It has no significance
- b) It determines the size of the system
- c) It affects battery life and overall system performance
- d) It only affects the cost of the system

10. What are some common challenges in debugging embedded systems?

- a) Limited visibility into system behavior
- b) Difficulty in accessing hardware components
- c) Real-time constraints
- d) All of the above

ANSWER

- 1. c) A system designed to perform specific functions within a larger system
- 2. c) High-level programming languages
- 3. b) To execute specific tasks according to the program loaded into it
- 4. b) C and C++
- 5. a) To load the operating system
- 6. d) FreeRTOS
- 7. b) To initiate communication with external devices
- 8. d) HTTP
- 9. c) It affects battery life and overall system performance
- 10. d) All of the above

RB
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VACECE1920ESD-EMBEDDED SYSTEMS DESIGN USING ARM LPC 1248

ASSESSMENT TEST PAPER

REGISTER NO: 912a7106018

NAME OF THE STUDENT: Raga dharmini

YEAR/SEM: III / VI

9
10

1. What is an embedded system?


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b) To execute specific tasks according to the program loaded into it

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b) C and C++

c) Java and JavaScript

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Pandian Saraswathi yadav Engineering College, Arasanoor -630561
 Department of Electronics and Communication Engineering
 Student Performance Sheet

Academic Year : 2019-2020
 Course Code : VACECE1920ESD
 Course Name : Embedded Systems Design Using ARM LPC2148
 Duration of hours : 35
 Period of Course : 02.06.2020-06.06.2020

Assessment Marks			
Sl. No	Register Number	Student Name	Marks
1	912017106001	AJAY	90
2	912017106002	BALAJI	88
3	912017106003	BALA VASANTH	78
4	912017106004	BHUVANESHWARI	89
5	912017106005	DHIVAKAR	74
6	912017106006	DURAI MURUGAN	70
7	912017106007	HARIHARAN	75
8	912017106008	KANAGAVALLI	100
9	912017106009	KARUPPUSAMY	100
10	912017106010	KAVITHA	82
11	912017106011	MANISHA	80
12	912017106012	MOORTHY	79
13	912017106013	NANDHEESWARAN	85
14	912017106014	NANDHINI	80
15	912017106015	PANDEESWARI	94
16	912017106017	PAUL RAJ	86
17	912017106018	RAGA THARSHINI	89
18	912017106019	RAMA CHANDRA PRAKASH	80
19	912017106020	ROOPA	100
20	912017106021	SHARAN MUKESH	79
21	912017106022	SINDHANAI SELVI	75
22	912017106023	SIVASATHYA	94
23	912017106024	SUJITHA	90
24	912017106025	SUNDARESHWAR	72
25	912017106026	SURIYAPRABHA	89
26	912017106027	SUSITHRA	84
27	912017106028	VISHNU PRIYA	95
28	912017106029	YUVA RANI	75
29	912017106301	KALAISELVI P	99
30	912017106701	VAITHEESWARI	98


 Course coordinator


 HOD/ECE


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 Sivagangai Dist. Tamilnadu

Enrollment
Student Name
List

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electronics and Communication Engineering

Student Registration Sheet

Academic Year : 2019-2020

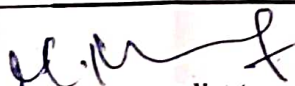
Course Code : VACECE1920ESD

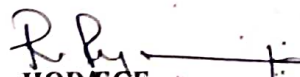
Course Name : Embedded Systems Design Using ARM LPC2148

Duration of hours : 35

Period of Course : 02.06.2020-06.06.2020

Enrolled Students List			Signature
Sl	Register Number	Student Name	
1	912017106001	AJAY	Ajay
2	912017106002	BALAJI	Balaji
3	912017106003	BALA VASANTH	B
4	912017106004	BHUVANESHWARI	Bhuvaneshwari
5	912017106005	DHIVAKAR	Dhivakar
6	912017106006	DURAI MURUGAN	Durai
7	912017106007	HARIHARAN	H
8	912017106008	KANAGAVALLI	K
9	912017106009	KARUPPUSAMY	K
10	912017106010	KAVITHA	Kavitha
11	912017106011	MANISHA	M
12	912017106012	MOORTHY	M
13	912017106013	NANDHEESWARAN	Nandheeswaran
14	912017106014	NANDHINI	Nandhini
15	912017106015	PANDEESWARI	Pandeeswari
16	912017106017	PAUL RAJ	Paul Raj
17	912017106018	RAGA THARSHINI	Raga Tharshini
18	912017106019	RAMA CHANDRA PRAKASH	Rama Chandra Prakash
19	912017106020	ROOPA	Roopa
20	912017106021	SHARAN MUKESH	Sharan
21	912017106022	SINDHANAI SELVI	S
22	912017106023	SIVASATHYA	Sivasathya
23	912017106024	SUJITHA	Sujitha
24	912017106025	SUNDARESHWAR	Sundareswar
25	912017106026	SURIYAPRABHA	Suriyaprabha
26	912017106027	SUSITHRA	Susithra
27	912017106028	VISHNU PRIYA	Vishnu Priya
28	912017106029	YUVA RANI	Yuva Rani
29	912017106301	KALAISELVI P	Kalaiselvi P
30	912017106701	VAITHEESWARI	Vaitheeswari


Course coordinator


HOD/ECE


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P. Palaniappan
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ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 561
Sivagangai Dist. Tamilnadu

STUDENTS ATTENDANCE

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electronics and Communication Engineering

Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACECE1920ESD

Course Name : Embedded Systems Design Using ARM LPC2148

Duration of hours : 35

Period of Course : 02.06.2020-06.06.2020

Attendance Sheet			Date: 6/6/20					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912017106001	AJAY	P	P	P	P	P	P
2	912017106002	BALAJI	P	P	P	P	P	P
3	912017106003	BALA VASANTH	P	P	P	P	P	P
4	912017106004	BIHUVANESHWARI	P	P	P	P	P	P
5	912017106005	DHIVAKAR	P	P	P	P	P	P
6	912017106006	DURAI MURUGAN	P	P	P	P	P	P
7	912017106007	HARIHARAN	P	P	P	P	P	P
8	912017106008	KANAGAVALLI	P	P	P	P	P	P
9	912017106009	KARUPPUSAMY	P	P	P	P	P	P
10	912017106010	KAVITHA	P	P	P	P	P	P
11	912017106011	MANISHA	P	P	P	P	P	P
12	912017106012	MOORTHY	P	P	P	P	P	P
13	912017106013	NANDHEESWARAN	P	P	P	P	P	P
14	912017106014	NANDHINI	P	P	P	P	P	P
15	912017106015	PANDEESWARI	P	P	P	P	P	P
16	912017106017	PAUL RAJ	P	P	P	P	P	P
17	912017106018	RAGA THARSHINI	P	P	P	P	P	P
18	912017106019	PRAKASHI	P	P	P	P	P	P
19	912017106020	ROOPA	P	P	P	P	P	P
20	912017106021	SHARAN MUKESH	P	P	P	P	P	P
21	912017106022	SINDHANAI SELVI	A	A	D	A	A	A
22	912017106023	SIVASATHIYA	P	P	P	P	P	P
23	912017106024	SUJITHA	P	P	P	P	P	P
24	912017106025	SUNDARESHWAR	P	P	P	P	P	P
25	912017106026	SURIYAPRABHA	P	P	P	P	P	P
26	912017106027	SUSITHRA	P	P	P	P	P	P
27	912017106028	VISHINU PRIYA	P	P	P	P	P	P
28	912017106029	YUVA RANI	P	P	P	P	P	P
29	912017106301	KALAISELVI P	P	P	P	P	P	P
30	912017106701	VAITHEESWARI	P	P	P	P	P	P

FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Tea Break

Lunch Break

12:15 pm to 01:00pm

Course coordinator

HOD/ECE

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 Arasanoor, Thirumansolai P.O-630 561
 Sivagangai Dist. Tamilnadu

Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACECE1020END

Course Name : Embedded Systems Design Using ARM LPC2146

Duration of hours : 35

Period of Course : 02.06.2020-06.06.2020

Attendance Sheet			Date: 2/6/20					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15 pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912017106001	AJAY	P	P	P	P	P	P
2	912017106002	BALAJI	P	P	P	P	P	P
3	912017106003	BALAJA VANANTHI	P	P	P	P	P	P
4	912017106004	BIJUVANESHWARI	P	P	P	P	P	P
5	912017106005	DHIVAKAR	P	P	P	P	P	P
6	912017106006	DURAI MURUGAN	P	P	P	P	P	P
7	912017106007	HARIHARAN	P	P	P	P	P	P
8	912017106008	KANAGAVALLI	P	P	P	P	P	P
9	912017106009	KARUPPUSAMY	P	P	P	P	P	P
10	912017106010	KAVITHA	P	P	P	P	P	P
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13	912017106013	NANDHEESWARAN	P	P	P	P	P	P
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16	912017106017	PAUL RAJ	P	P	P	P	P	P
17	912017106018	RAGA THARSHINI	P	P	P	P	P	P
18	912017106019	PRAKASH	P	P	P	P	P	P
19	912017106020	ROOPA	P	P	P	P	P	P
20	912017106021	SHARAN MUKESH	P	P	P	P	P	P
21	912017106022	SINDHANAI SELVI	A	A	A	A	A	A
22	912017106023	SIVASATHIYA	P	P	P	P	P	P
23	912017106024	SUJITHA	P	P	P	P	P	P
24	912017106025	SUNDARESHWAR	P	P	P	P	P	P
25	912017106026	SURIYAPRABHA	P	P	P	P	P	P
26	912017106027	SUSITHRA	P	P	P	P	P	P
27	912017106028	VISHNU PRIYA	P	P	P	P	P	P
28	912017106029	YUVA RANI	P	P	P	P	P	P
29	912017106301	KALASELVI P	P	P	P	P	P	P
30	912017106701	VAITHEESWARI	P	P	P	P	P	P

Tea Break

FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break

12:15 pm to 01:00pm

Course coordinator

HOD/ECE

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Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electronics and Communication Engineering

Student Attendance Sheet

Academic Year : 2019-2020

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4	912017106004	BHUVANESHWARI	P	P	P	P	P	P
5	912017106005	DHIVAKAR	P	P	P	P	P	P
6	912017106006	DURAI MURUGAN	P	P	P	P	P	P
7	912017106007	HARIHARAN	P	P	P	P	P	P
8	912017106008	KANAGAVALLI	P	P	P	P	P	P
9	912017106009	KARUPPUSAMY	P	P	P	P	P	P
10	912017106010	KAVITHA	P	P	P	P	P	P
11	912017106011	MANISHA	P	P	P	P	P	P
12	912017106012	MOORTHY	P	P	P	P	P	P
13	912017106013	NANDHEESWARAN	P	P	P	P	P	P
14	912017106014	NANDHINI	P	P	P	P	P	P
15	912017106015	PANDEESWARI	P	P	P	P	P	P
16	912017106017	PAUL RAJ	P	P	P	P	P	P
17	912017106018	RAGA THARSHINI	P	P	P	P	P	P
18	912017106019	PRAKASH	P	P	P	P	P	P
19	912017106020	ROOPA	P	P	P	P	P	P
20	912017106021	SHARAN MUKESH	P	P	P	P	P	P
21	912017106022	SINDHANAI SELVI	A	A	A	A	A	A
22	912017106023	SIVASATHYA	P	P	P	P	P	P
23	912017106024	SUJITHA	P	P	P	P	P	P
24	912017106025	SUNDARESHWAR	P	P	P	P	P	P
25	912017106026	SURIYAPRABHA	P	P	P	P	P	P
26	912017106027	SUSITHRA	P	P	P	P	P	P
27	912017106028	VISHNU PRIYA	P	P	P	P	P	P
28	912017106029	YUVA RANI	P	P	P	P	P	P
29	912017106301	KALAISELVI P	P	P	P	P	P	P
30	912017106701	VAITHEESWARI	P	P	P	P	P	P

Tea Break

Lunch Break

Course coordinator

12:15 pm to 01:00pm

HOD/ECE

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 ENGINEERING COLLEGE,
 Arasanoor, Thirumarisolai P.O-630561
 Sivagangai Dist. Tamilnadu

Pandian Saraswathi yaday Engineering College, Arasanoor - 630561

Department of Electronics and Communication Engineering

Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACECE1920ESD

Course Name : Embedded Systems Design Using ARM LPC2148

Duration of hours : 35

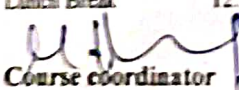
Period of Course : 02.06.2020-06.06.2020


Date: 2/6/20

Attendance Sheet			09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912017106001	AJAY	P	P	P	P	P	P
2	912017106002	BALAJI	P	P	P	P	P	P
3	912017106003	BALA VASANTH	P	P	P	P	P	P
4	912017106004	BHUVANESHWARI	P	P	P	P	P	P
5	912017106005	DHIVAKAR	P	P	P	P	P	P
6	912017106006	DURAI MURUGAN	P	P	P	P	P	P
7	912017106007	HARIHARAN	P	P	P	P	P	P
8	912017106008	KANAGAVALLI	P	P	P	P	P	P
9	912017106009	KARUPPUSAMY	P	P	P	P	P	P
10	912017106010	KAVITHA	P	P	P	P	P	P
11	912017106011	MANISHA	P	P	P	P	P	P
12	912017106012	MOORTHY	P	P	P	P	P	P
13	912017106013	NANDHEESWARAN	P	P	P	P	P	P
14	912017106014	NANDHINI	P	P	P	P	P	P
15	912017106015	PANDEESWARI	P	P	P	P	P	P
16	912017106017	PAUL RAJ	P	P	P	P	P	P
17	912017106018	RAGA THARSHINI	P	P	P	P	P	P
18	912017106019	PRAKASH	P	P	P	P	P	P
19	912017106020	ROOPA	P	P	P	P	P	P
20	912017106021	SHARAN MUKESH	P	P	P	P	P	P
21	912017106022	SINDHANAI SELVI	A	A	A	A	A	A
22	912017106023	SIVASATHYA	P	P	P	P	P	P
23	912017106024	SUJITHA	P	P	P	P	P	P
24	912017106025	SUNDARESHWAR	P	P	P	P	P	P
25	912017106026	SURIYAPRABHA	P	P	P	P	P	P
26	912017106027	SUSITHRA	P	P	P	P	P	P
27	912017106028	VISHNU PRIYA	P	P	P	P	P	P
28	912017106029	YUVA RANI	P	P	P	P	P	P
29	912017106301	KALAISELVI P	P	P	P	P	P	P
30	912017106701	VAITHEESWARI	P	P	P	P	P	P

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm


Course coordinator


HOD/ECE


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ENGINEERING COLLEGE
Arasanoor, Thirumansalai PO-630 561
Sivagangai Dist, Tamilnadu

Student Attendance Sheet

Academic Year : 2019-2020
 Course Code : VACECE1920ESD
 Course Name : Embedded Systems Design Using ARM LPC2148
 Duration of hours : 35
 Period of Course : 02.06.2020-06.06.2020

Date: 4/6/20

Attendance Sheet			Date: 4/6/20					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912017106001	AJAY	P	P	P	P	P	P
2	912017106002	BALAJI	P	P	P	P	P	P
3	912017106003	BALA VASANTHI	P	P	P	P	P	P
4	912017106004	BHUVANESHWARI	P	P	P	P	P	P
5	912017106005	DHIVAKAR	P	P	P	P	P	P
6	912017106006	DURAI MURUGAN	P	P	P	P	P	P
7	912017106007	HARIHARAN	P	P	P	P	P	P
8	912017106008	KANAGAVALLI	P	P	P	P	P	P
9	912017106009	KARUPPUSAMY	P	P	P	P	P	P
10	912017106010	KAVITHA	P	P	P	P	P	P
11	912017106011	MANISHA	P	P	P	P	P	P
12	912017106012	MOORTHY	P	P	P	P	P	P
13	912017106013	NANDHEESWARAN	P	P	P	P	P	P
14	912017106014	NANDHINI	P	P	P	P	P	P
15	912017106015	PANDEESWARI	P	P	P	P	P	P
16	912017106017	PAUL RAJ	P	P	P	P	P	P
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18	912017106019	PRAKASH	P	P	P	P	P	P
19	912017106020	ROOPA	P	P	P	P	P	P
20	912017106021	SHARAN MUKESH	P	P	P	P	P	P
21	912017106022	SINDHANAI SELVI	P	P	P	P	P	P
22	912017106023	SIVASATHYA	P	P	P	P	P	P
23	912017106024	SUJITHA	P	P	P	P	P	P
24	912017106025	SUNDARESHWAR	P	P	P	P	P	P
25	912017106026	SURIYAPRABHA	P	P	P	P	P	P
26	912017106027	SUSITHRA	P	P	P	P	P	P
27	912017106028	VISHNU PRIYA	P	P	P	P	P	P
28	912017106029	YUVA RANI	P	P	P	P	P	P
29	912017106301	KALAISELVI P	P	P	P	P	P	P
30	912017106701	VAITHEESWARI	P	P	P	P	P	P

Tea Break
 Lunch Break 12:15 pm to 01:00pm

Course coordinator

HOD/ECE

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 Arasanoor, Thirumansolai P.O-630 561
 Sivagangai Dist. Tamilnadu

MODEL
CERTIFICATES

Pandian Saraswathi Yadav Engineering College

Arasanoor, sivagangai-Madurai highways-Tamil Nadu-630561

organised by
Department of Electronics and Communication Engineering

CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY AWARDED TO

MR. BALA VASANTH

Has successfully completed the Value Added Certified Course on Embedded System Design using LRM1248 During 02.06.2020 to 06.06.2020


Mrs. R. RAJALAKSHMI

HOD/ECE


Dr. R. RAJA

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PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thirumanvolar P.O.,
Sivagangai Dist. Tamil Nadu

R RAJA

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Pandian Saraswathi Yadav Engineering College
Arasanoor, sivagangai-Madurai highways-Tamil Nadu-630561

organised by
Department of Electronics and Communication Engineering

CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY AWARDED TO

MR.KARUPPUSAMY

Has successfully completed the Value Added Certified Course on Embedded
System Design using LRM1248 During 02.06.2020 to 06.06.2020


Mrs. R. RAJALAKSHMI

HOD/ECE


Dr R. RAJA

PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thirumansola, P.O.-630 561
Sivagangai Dist. Tamil Nadu

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organised by
Department of Electronics and Communication Engineering

CERTIFICATE OF COMPLETION

THIS CERTIFICATE IS PROUDLY AWARDED TO

MS.ROOPA

Has successfully completed the Value Added Certified Course on Embedded
System Design using LRM1248 During 02.06.2020 to 06.06.2020


Mrs. R. RAJALAKSHMI

HOD/ECE


Dr R. RAJA

PRINCIPAL

PRINCIPAL
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ENGINEERING COLLEGE
Arasanoor, Thiruvannamalai
Sivagangai Dist.

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