

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

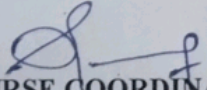
COURSE SYLLABUS

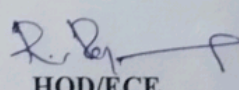
ACADEMIC YEAR 2020-2021

'VACECE2021RB-ROBOTICS'

CHAPTER-1	Introduction to Robotics	7
Actuators and Drives, Control Components, De-mining Robot: Embedded Robot Controller, I/O Interface, and PWM Amplifiers, Control Software – 1, De-mining Robot: Controller Software and Sensor Inputs, Control Software – 2, Sensors - 1		
CHAPTER-2	De-mining Robot	7
Implement Basic Sensor-based Controls; Plan Strategy for De-mining Task - Kinematics – 1, Kinematics – 2, De-mining Robot: Refine De-mining Operations, Differential Motion - 1		
CHAPTER-3	Rescue Robot: Stage A &B	7
Concept Design- Differential Motion – 2, Statics, Energy Method- Prototype Implementation - Hybrid Position-force Control, Compliance, End-effector Design, Non-holonomic Systems		
CHAPTER-4	Rescue Robot: Stage C	7
System Integration - Legged Robots, Multi-fingered Hands, Dynamics – 1, Dynamics – 2, Computed Torque Control- System Integration -.Sensors – 2, Computer Vision, Navigation – 1, Navigation – 2		
CHAPTER-5	Rescue Robot: Stage D	7
Testing - Rescue Robot: Stage D – Testing, Final Projects, Project Demonstration		

TOTAL: 35Hrs


COURSE COORDINATOR


HOD/ECE


PRINCIPAL

PRINCIPAL:
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 561
Sivagangai Dist. Tamilnadu



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE SCHEDULE

VACECE2021RB-ROBOTICS

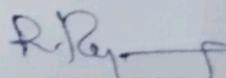
DATE	TIME	SYLLABUS
02.07.2021	9.00AM TO 1.00PM	Actuators and Drives, Control Components, De-mining Robot: Embedded Robot Controller, I/O Interface, and PWM Amplifiers, Control Software – 1, De-mining Robot: Controller Software and Sensor Inputs, Control Software – 2, Sensors - 1
	2.00PM TO 5.00PM	
03.07.2021	9.00AM TO 1.00PM	Implement Basic Sensor-based Controls; Plan Strategy for De-mining Task - Kinematics – 1, Kinematics – 2, De-mining Robot: Refine De-mining Operations, Differential Motion - 1
	2.00PM TO 5.00PM	
04.07.2021	9.00AM TO 1.00PM	Concept Design- Differential Motion – 2, Statics, Energy Method- Prototype Implementation - Hybrid Position-force Control, Compliance, End-effector Design, Non-holonomic Systems
	2.00PM TO 5.00PM	
05.07.2021	9.00AM TO 1.00PM	System Integration - Legged Robots, Multi-fingered Hands, Dynamics – 1, Dynamics – 2, Computed Torque Control- System Integration - Sensors – 2, Computer Vision, Navigation – 1, Navigation – 2
	2.00PM TO 5.00PM	
06.07.2021	9.00AM TO 1.00PM	Testing - Rescue Robot: Stage D – Testing, Final Projects, Project Demonstration
	2.00PM TO 5.00PM	
	2.00PM TO 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 2020-2021

One page Report

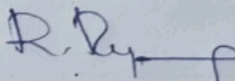
Name of the course : **ROBOTICS**
Course Code : VACECE2021RB
Resource Person : Mr.S. MANIKANDAN AP/ECE, PSYEC
Course Coordinator : Mr.S.SARANYADEVI, AP /ECE
Date/Duration : 02.07.2021 to 06.07.2021 — 35 hours


I here affirm that the Final-year students of strength 24 have been taught the value-added course titled "ROBOTICS" as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled "ROBOTICS" 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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Arasanoor, Thirumansolai P.O-630 561
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ASSESSMENT PROCEDURE



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT QUESTION WITH ANSWER

VACECE2021RB-ROBOTICS

1. What is the primary function of a LiDAR sensor in robotics?

- A) To measure temperature.
- B) To detect humidity.
- C) To map and navigate the environment.
- D) To detect sound waves.

Answer: C) To map and navigate the environment.

2. Which programming language is commonly used for controlling industrial robots?

- A) Python.
- B) C++.
- C) MATLAB.
- D) PLC (Programmable Logic Controller) language.

Answer: D) PLC (Programmable Logic Controller) language.

3. What does the term "ROS" stand for in robotics?

- A) Robot Operating System.
- B) Remote Observation System.
- C) Robotics Operating Software.
- D) Robotic Operating System.

Answer: A) Robot Operating System.

4. What is the main purpose of a gripper in robotics?

- A) To provide power to the robot.
- B) To sense the environment.
- C) To grasp and manipulate objects.

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D) To process data.

Answer: C) To grasp and manipulate objects.

5. Which of the following sensors is commonly used for obstacle detection in robotics?

A) Temperature sensor.

B) Pressure sensor.

C) Infrared (IR) sensor.

D) Accelerometer.

Answer: C) Infrared (IR) sensor.

6. What is the difference between a manipulator and a mobile robot?

A) A manipulator has wheels, while a mobile robot has arms.

B) A manipulator can move in any direction, while a mobile robot is fixed.

C) A manipulator is stationary, while a mobile robot can move.

D) A manipulator is used for sensing, while a mobile robot is used for manipulation.

Answer: C) A manipulator is stationary, while a mobile robot can move.

7. What term is used to describe the process of a robot following a specified trajectory while maintaining a constant orientation?

A) Path planning.

B) Trajectory tracking.

C) Kinematics.

D) Motion control.

Answer: B) Trajectory tracking.

8. Which type of locomotion is typically used by legged robots?

A) Wheeled.

B) Bipedal.

C) Quadrupedal.

D) Serpentine.

Answer: C) Quadrupedal.

9. What is the purpose of a PID controller in robotics?

A) To provide power to the robot.

B) To detect obstacles.

- C) To control the robot's trajectory.
- D) To regulate the robot's speed and position.

Answer: D) To regulate the robot's speed and position.

10. What term refers to the ability of a robot to sense and react to its environment?

- A) Artificial Intelligence (AI).
- B) Machine Learning (ML).
- C) Sensors and Actuators.
- D) Computer Vision.

Answer: C) Sensors and Actuators.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSESSMENT TEST PAPER

VACECE2021RB-ROBOTICS

REGISTER NO: 912018106302

NAME OF THE STUDENT: M. Guna

YEAR/SEM:

7/10

1. What is the primary function of a LiDAR sensor in robotics?

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D) To process data.

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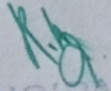
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C) Sensors and Actuators.

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Sivagangai Dist. Tamilnadu

Pandian Saraswathi yadav Engineering College, Arasaanoor -630561

Department of Electronics and Communication Engineering

Student Performance Sheet

Academic Year : 2020-2021

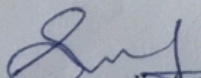
Course Code : VACECE2021RB

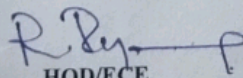
Course Name : ROBOTICS

Duration of hours : 35

Period of Course : 02.07.2021-06.07.2021

Assessment Marks			Marks
SL No	Register Number	Student Name	
1	912018106001	S.ABIRAMI	91
2	912018106002	S.ANGELBRINDHA	94
3	912018106003	WARULDOSS	80
4	912018106004	KARUNKUMAR	74
5	912018106005	N.CHELLAPANDI	79
6	912018106006	K.DHASNIMPARAKKATH	90
7	912018106007	P.KALEESWARI	92
8	912018106008	S.KALPANA	93
9	912018106009	G.MARUTHUPANDI	99
10	912018106010	V.MATHURI	100
11	912018106012	M.MUTHAMILSELVI	99
12	912018106013	R.S.NAVEEN KUMAR	82
13	912018106014	R.PRAVEENA	89
14	912018106015	S.RAJABALAJI	79
15	912018106016	PSABAPATHI	92
16	912018106017	R.SUBASRI	100
17	912018106018	PSUNDAR	90
18	912018106019	VSUTHANTHIRA PRAKASH	69
19	912018106020	M.SWATHIGA	100
20	912018106021	S.YOGANTHA	95
21	912018106301	GOWTHAM M	65
22	912018106302	GUÑA M	60
23	912018106303	PRASANNA S	89
24	912018106304	SANTHOSH R	65


Course coordinator


HOD/ECE


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

STUDENTS ATTENDANCE

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electronics and Communication Engineering

Student Registration Sheet

Academic Year : 2020-2021

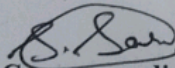
Course Code : VACECE2021RB

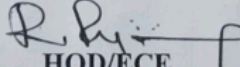
Course Name : ROBOTICS

Duration of hours : 35

Period of Course : 02.07.2021-06.07.2021

Enrolled Students List			Signature
Sl. No	Register Number	Student Name	
1	912018106001	S.ABIRAMI	Abirami
2	912018106002	S.ANGELBRINDHA	S. Angelbrindha
3	912018106003	W.ARULDOSS	W. Aruldoss
4	912018106004	K.ARUNKUMAR	Arunkumar
5	912018106005	N.CHELLAPANDI	N. Chellapandi
6	912018106006	K.DHASNIMPARAKKATH	K. Dhasnimparakkath
7	912018106007	P.KALEESWARI	Kaleeswari
8	912018106008	S.KALPANA	S. Kalpana
9	912018106009	G.MARUTHUPANDI	G. Maruthupandi
10	912018106010	V.MATHURI	Mathuri
11	912018106012	M.MUTHAMILSELVI	M. Muthamilselvi
12	912018106013	R.S.NAVEEN KUMAR	R. S. Naveenkumar
13	912018106014	R.PRAVEENA	Praveena
14	912018106015	S.RAJABALAJI	S. Rajabala
15	912018106016	P.SABAPATHI	P. Sabapathi
16	912018106017	R.SUBASRI	Subasri
17	912018106018	P.SUNDAR	P. Sundar
18	912018106019	V.SUTHANTHIRA PRAKASH	S. Suth
19	912018106020	M.SWATHIGA	Swathiga
20	912018106021	S.YOGANITHA	S. Yoganitha
21	912018106301	GOWTHAM M	M. Gowtham
22	912018106302	GUNA M	Guna
23	912018106303	PRASANNA S	Prasanna S
24	912018106304	SAMTHOSH R	Samthosh R


Course coordinator


HOD/ECE


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Enrollment
Student Name
List


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

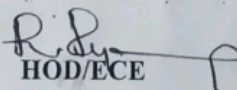
Student Attendance Sheet

Academic Year : 2020-2021
Course Code : **VACECE2021RB**
Course Name : **ROBOTICS**
Duration of hours : **35**
Period of Course : **02.07.2021-06.07.2021**

Attendance Sheet			Date: 2.7.21					
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 - 03.00pm	03.15 pm - 04.15 pm
1	912018106001	S.ABIRAMI	Am	Am	Am	Am	Am	Am
2	912018106002	S.ANGELBRINDHA	S.Angel	S.Angel	S.Angel	S.Angel	S.Angel	S.Angel
3	912018106003	W.ARULDOSS	arul	arul	arul	arul	arul	arul
4	912018106004	K.ARUNKUMAR	Am	Am	Am	Am	Am	Am
5	912018106005	N.CHELLAPANDI	chella	chella	chella	chella	chella	chella
6	912018106006	K.DHASNIMPARAKKATH	(D)	(D)	(D)	(D)	(D)	(D)
7	912018106007	P.KALEESWARI	kah	kah	kah	kah	kah	kah
8	912018106008	S.KALPANA	S.Kalpana	S.Kalpana	S.Kalpana	S.Kalpana	S.Kalpana	S.Kalpana
9	912018106009	G.MARUTHUPANDI	maru	maru	maru	maru	maru	maru
10	912018106010	V.MATHURI	Math	Math	Math	Math	Math	Math
11	912018106012	M.MUTHAMILSELVI	M.Muth	M.Muth	M.Muth	M.Muth	M.Muth	M.Muth
12	912018106013	R.S.NAVEEN KUMAR	R.S.	R.S.	R.S.	R.S.	R.S.	R.S.
13	912018106014	R.PRAVEENA	Prave	Prave	Prave	Prave	Prave	Prave
14	912018106015	S.RAJABALAJI	S.R.	S.R.	S.R.	S.R.	S.R.	S.R.
15	912018106016	P.SABAPATHI	P.Sabapathi	P.Sabapathi	P.Sabapathi	P.Sabapathi	P.Sabapathi	P.Sabapathi
16	912018106017	R.SUBASRI	Suba	Suba	Suba	Suba	Suba	Suba
17	912018106018	P.SUNDAR	P.Sundar	P.Sundar	P.Sundar	P.Sundar	P.Sundar	P.Sundar
18	912018106019	V.SUTHANTHIRA PRAKASH	V.Sutha	V.Sutha	V.Sutha	V.Sutha	V.Sutha	V.Sutha
19	912018106020	M.SWATHIGA	Swath	Swath	Swath	Swath	Swath	Swath
20	912018106021	S.YOGANITHA	S.Yoga	S.Yoga	S.Yoga	S.Yoga	S.Yoga	S.Yoga
21	912018106301	GOWTHAM M	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth
22	912018106302	GUNA M	Guna	Guna	Guna	Guna	Guna	Guna
23	912018106303	PRASANNA S	Prasa	Prasa	Prasa	Prasa	Prasa	Prasa
24	912018106304	SANTHOSH R	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh

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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Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACECE2021RB

Course Name : ROBOTICS

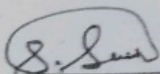
Duration of hours : 35

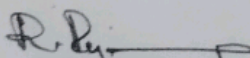
Period of Course : 02.07.2021-06.07.2021


Attendance Sheet			Date: 3.7.21					
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	912018106001	S.ABIRAMI	Am	Am	Am	Am	Am	Am
2	912018106002	S.ANGELBRINDHA	S. Angel	S. Angel	S. Angel	S. Angel	S. Angel	S. Angel
3	912018106003	W.ARULDOSS	arul	arul	arul	arul	arul	arul
4	912018106004	K.ARUNKUMAR	Am	Am	Am	Am	Am	Am
5	912018106005	N.CHELLAPANDI	Chel	Chel	Chel	Chel	Chel	Chel
6	912018106006	K.DHASNIMPARAKKATH	Dhasn	Dhasn	Dhasn	Dhasn	Dhasn	Dhasn
7	912018106007	P.KALEESWARI	Kalee	Kalee	Kalee	Kalee	Kalee	Kalee
8	912018106008	S.KALPANA	S. Kalpana	S. Kalpana	S. Kalpana	S. Kalpana	S. Kalpana	S. Kalpana
9	912018106009	G.MARUTHUPANDI	Maru	Maru	Maru	Maru	Maru	Maru
10	912018106010	V.MATHURI	Mathi	Mathi	Mathi	Mathi	Mathi	Mathi
11	912018106012	M.MUTHAMILSELVI	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha
12	912018106013	RS.NAVEEN KUMAR	Nav	Nav	Nav	Nav	Nav	Nav
13	912018106014	R.PRAVEENA	Prave	Prave	Prave	Prave	Prave	Prave
14	912018106015	S.RAJABALAJI	S.R	S.R	S.R	S.R	S.R	S.R
15	912018106016	P.SABAPATHI	Sabi	Sabi	Sabi	Sabi	Sabi	Sabi
16	912018106017	R.SUBASRI	Suba	Suba	Suba	Suba	Suba	Suba
17	912018106018	P.SUNDAR	Sundar	Sundar	Sundar	Sundar	Sundar	Sundar
18	912018106019	V.SUTHANTHIRA PRAKASH	V. Sutha	V. Sutha	V. Sutha	V. Sutha	V. Sutha	V. Sutha
19	912018106020	M.SWATHIGA	Swath	Swath	Swath	Swath	Swath	Swath
20	912018106021	S.YOGANITHA	Yoga	Yoga	Yoga	Yoga	Yoga	Yoga
21	912018106301	GOWTHAM M	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth
22	912018106302	GUNA M	Guna	Guna	Guna	Guna	Guna	Guna
23	912018106303	PRASANNA S	Prasa	Prasa	Prasa	Prasa	Prasa	Prasa
24	912018106304	SANTHOSH R	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh	R. Santhosh

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


PRINCIPAL
 PANDIAN SARASWATHI YADAV
 ENGINEERING COLLEGE
 Arasanoor, Tirumansola, P.O-630 561
 Sivagangai Dist, Tamilnadu

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

Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACECE2021RB

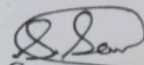
Course Name : ROBOTICS

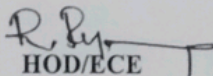
Duration of hours : 35

Period of Course : 02.07.2021-06.07.2021

Attendance Sheet			Date: 4.7.21					
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	912018106001	S.ABIRAMI	Am	Am	Am	Am	Am	Am
2	912018106002	S.ANGELBRINDHA	S.Angel	S.Angel	S.Angel	S.Angel	S.Angel	S.Angel
3	912018106003	W.ARULDOSS	W.Aru	W.Aru	W.Aru	W.Aru	W.Aru	W.Aru
4	912018106004	KARUNKUMAR	Am	Am	Am	Am	Am	Am
5	912018106005	N.CHELLAPANDI	Am	Am	Am	Am	Am	Am
6	912018106006	K.DHASNIMPARAKKATH	Das	Das	Das	Das	Das	Das
7	912018106007	P.KALEESWARI	Rata	Rata	Rata	Rata	Rata	Rata
8	912018106008	S.KALPANA	S.Kalp	S.Kalp	S.Kalp	S.Kalp	S.Kalp	S.Kalp
9	912018106009	G.MARUTHUPANDI	Murth	Murth	Murth	Murth	Murth	Murth
10	912018106010	V.MATHURI	Mathu	Mathu	Mathu	Mathu	Mathu	Mathu
11	912018106012	M.MUTHAMILSELVI	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha
12	912018106013	RS.NAVEEN KUMAR	Rus	Rus	Rus	Rus	Rus	Rus
13	912018106014	R.PRAVEENA	Pran	Pran	Pran	Pran	Pran	Pran
14	912018106015	S.RAJABALAJI	S.R	S.R	S.R	S.R	S.R	S.R
15	912018106016	P.SABAPATHI	Saba	Saba	Saba	Saba	Saba	Saba
16	912018106017	R.SUBASRI	Suba	Suba	Suba	Suba	Suba	Suba
17	912018106018	P.SUNDAR	P.Sund	P.Sund	P.Sund	P.Sund	P.Sund	P.Sund
18	912018106019	V.SUTHANTHIRA PRAKASH	Suth	Suth	Suth	Suth	Suth	Suth
19	912018106020	M.SWATHIGA	Swath	Swath	Swath	Swath	Swath	Swath
20	912018106021	S.YOGANITHA	S.Yoga	S.Yoga	S.Yoga	S.Yoga	S.Yoga	S.Yoga
21	912018106301	GOWTHAM M	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth
22	912018106302	GUNA M	Guna	Guna	Guna	Guna	Guna	Guna
23	912018106303	PRASANNA S	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna
24	912018106304	SANTHOSH R	R.Santhosh	R.Santhosh	R.Santhosh	R.Santhosh	R.Santhosh	R.Santhosh

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


PRINCIPAL

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PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thumasholai P.O-630 561
Sivagangal Dist. Tamilnadu

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

Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACECE2021RB

Course Name : ROBOTICS

Duration of hours : 35

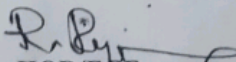
Period of Course : 02.07.2021-06.07.2021


Attendance Sheet			Date: 6.7.21					
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	912018106001	S.ABIRAMI	Abirami	Abirami	Abirami	Abirami	Abirami	Abirami
2	912018106002	S.ANGELBRINDHA	Angel	Angel	Angel	Angel	Angel	Angel
3	912018106003	W.ARULDOSS	Arul	Arul	Arul	Arul	Arul	Arul
4	912018106004	K.ARUNKUMAR	Arun	Arun	Arun	Arun	Arun	Arun
5	912018106005	N.CHELLAPANDI	Chellapa	Chellapa	Chellapa	Chellapa	Chellapa	Chellapa
6	912018106006	K.DHASNIMPARAKKATH	Prane	Prane	Prane	Prane	Prane	Prane
7	912018106007	P.KALEESWARI	Kalee	Kalee	Kalee	Kalee	Kalee	Kalee
8	912018106008	S.KALPANA	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana	Kalpana
9	912018106009	G.MARUTHUPANDI	Maruthu	Maruthu	Maruthu	Maruthu	Maruthu	Maruthu
10	912018106010	V.MATHURI	Mathuri	Mathuri	Mathuri	Mathuri	Mathuri	Mathuri
11	912018106012	M.MUTHAMILSELVI	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha
12	912018106013	R.S.NAVEEN KUMAR	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
13	912018106014	R.PRAVEENA	Pravee	Pravee	Pravee	Pravee	Pravee	Pravee
14	912018106015	S.RAJABALAJI	Rajabala	Rajabala	Rajabala	Rajabala	Rajabala	Rajabala
15	912018106016	P.SABAPATHI	Sabapath	Sabapath	Sabapath	Sabapath	Sabapath	Sabapath
16	912018106017	R.SUBASRI	Subasri	Subasri	Subasri	Subasri	Subasri	Subasri
17	912018106018	P.SUNDAR	Sundar	Sundar	Sundar	Sundar	Sundar	Sundar
18	912018106019	V.SUTHANTHIRA PRAKASH	Suthan	Suthan	Suthan	Suthan	Suthan	Suthan
19	912018106020	M.SWATHIGA	Swathiga	Swathiga	Swathiga	Swathiga	Swathiga	Swathiga
20	912018106021	S.YOGANITHA	Yogana	Yogana	Yogana	Yogana	Yogana	Yogana
21	912018106301	GOWTHAM M	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham
22	912018106302	GUNA M	Guna	Guna	Guna	Guna	Guna	Guna
23	912018106303	PRASANNA S	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna
24	912018106304	SANTHOSH R	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh

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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Arasanoor, Thirumangaludi P.O-630 561
Sivagangal Dist. Tamilnadu

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

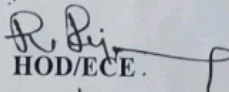
Student Attendance Sheet

Academic Year : 2020-2021
Course Code : VACECE2021RB
Course Name : ROBOTICS
Duration of hours : 35
Period of Course : 02.07.2021-06.07.2021

Attendance Sheet			Date: 5.7.21					
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	912018106001	S.ABIRAMI	Am	Am	Am	Am	Am	Am
2	912018106002	S.ANGELBRINDHA	S. Angel	S. Angel	S. Angel	S. Angel	S. Angel	S. Angel
3	912018106003	W.ARULDOSS	W. Aruldo	W. Aruldo	W. Aruldo	W. Aruldo	W. Aruldo	W. Aruldo
4	912018106004	K.ARUNKUMAR	Am	Am	Am	Am	Am	Am
5	912018106005	N.CHELLAPANDI	N. Chella	Chella	Chella	Chella	Chella	Chella
6	912018106006	K.DHASNIMPARAKKATH	Dha	Dha	Dha	Dha	Dha	Dha
7	912018106007	P.KALEESWARI	Kalee	Kalee	Kalee	Kalee	Kalee	Kalee
8	912018106008	S.KALPANA	Kalp	Kalp	Kalp	Kalp	Kalp	Kalp
9	912018106009	G.MARUTHUPANDI	Maru	Maru	Maru	Maru	Maru	Maru
10	912018106010	V.MATHURI	Math	Math	Math	Math	Math	Math
11	912018106012	M.MUTHAMILSELVI	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha
12	912018106013	R.S.NAVEEN KUMAR	Rob	Rob	Rob	Rob	Rob	Rob
13	912018106014	R.PRAVEENA	Prave	Prave	Prave	Prave	Prave	Prave
14	912018106015	S.RAJABALAJI	S.Ra	S.Ra	S.Ra	S.Ra	S.Ra	S.Ra
15	912018106016	P.SABAPATHI	Saba	Saba	Saba	Saba	Saba	Saba
16	912018106017	R.SUBASRI	Suba	Suba	Suba	Suba	Suba	Suba
17	912018106018	P.SUNDAR	P. Sundar	P. Sundar	P. Sundar	P. Sundar	P. Sundar	P. Sundar
18	912018106019	V.SUTHANTHIRA PRAKASH	V. Sutha	V. Sutha	V. Sutha	V. Sutha	V. Sutha	V. Sutha
19	912018106020	M.SWATHIGA	Swath	Swath	Swath	Swath	Swath	Swath
20	912018106021	S.YOGANITHA	Yoga	Yoga	Yoga	Yoga	Yoga	Yoga
21	912018106301	GOWTHAM M	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth
22	912018106302	GUNA M	Guna	Guna	Guna	Guna	Guna	Guna
23	912018106303	PRASANNA S	Prasa	Prasa	Prasa	Prasa	Prasa	Prasa
24	912018106304	SANTHOSH R	Santho	Santho	Santho	Santho	Santho	Santho


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


PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 561
Sivagangai Dist. Tamilnadu

MODEL
CERTIFICATES



**PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE**

ARASANOOR, SIVAGANGAI-MADURAI, HIGHWAYS-TAMIL ADU-630561

certificate of completion

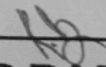
WE ARE PROUDLY PRESENT THIS TO

Ms.SWATHIGA

HAS SUCCESSFULLY COMPLETED THE VALUE ADDED
CERTIFIED COURSE ON **ROBOTICS** DURING 02.07.2021
TO 06.07.2021



Mrs.R.RAJALAKSHMI
HOD/ECE



Dr.R.RAJA
PRINCIPAL

R RAJA

Digitally signed by
R RAJA
Date: 2024.06.27
10:45:54 +05'30'

PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Tamil Nadu, P.O-630561
Sivagangai, Dist. Tamilnadu

**PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE**

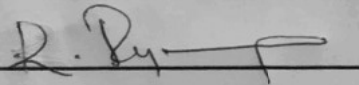
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certificate of completion

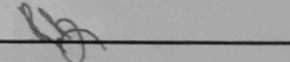
WE ARE PROUDLY PRESENT THIS TO

Ms.SUBASRI

HAS SUCCESSFULLY COMPLETED THE VALUE ADDED
CERTIFIED COURSE ON **ROBOTICS** DURING 02.07.2021
TO 06.07.2021



Mrs.R.RAJALAKSHMI
HOD/ECE



Dr.R.RAJA
PRINCIPAL

R RAJA

Digitally signed by R
RAJA
Date: 2024.06.27
10:46:07 +05'30'

PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
ARASANOOR, SIVAGANGAI-MADURAI,
HIGHWAYS-TAMIL ADU-630561

**PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE**

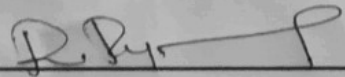
ARASANOOR, SIVAGANGAI-MADURAI, HIGHWAYS-TAMIL ADU-630561

certificate of completion

WE ARE PROUDLY PRESENT THIS TO

Mr. MARUTHU PANDI

HAS SUCCESSFULLY COMPLETED THE VALUE ADDED
CERTIFIED COURSE ON **ROBOTICS** DURING 02.07.2021
TO 06.07.2021



Mrs. R. RAJALAKSHMI
HOD/ECE



Dr. R. RAJA
PRINCIPAL

PRINCIPAL

PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE

ARASANOOR, SIVAGANGAI-MADURAI, HIGHWAYS-TAMIL ADU-630561

Phone: 0451-2411111

R RAJA

RAJA
Date: 2024.06.27
10:46:20 +05'30"

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