

## 12.4 PROJECT WORK

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

The Head of the Institutions shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 20 marks** and rounded to the nearest integer (as per the scheme given in 12.4.1).

- 12.4.1 The project report shall carry a maximum 30 marks. The project report shall be submitted as per the approved guidelines as given by Director, Academic Courses. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	End semester Examinations				
			Thesis Submission (30)		Viva-Voce (50)		
5	7.5	7.5	Internal	External	Internal	External	Supervisor
			15	15	15	20	15

- 12.4.2 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester.



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

**DEPARTMENT OF INFORMATION TECHNOLOGY  
PROJECT DETAILS**

**Academic Year: 2020 – 2021**

S. No.	Student Name	Project Title	Type of Project	Relevance of PO and PSOs
1.	Bharath S Dharmaraj S Vinayak Amirtharaj A R M	Mitigating DDoS Attack on Smart Grids	In – House Project	PO1 – PO12 PSO1, PSO2
2.	Selvaraj S Pradeep R R Praveen Rajan M N	The Students Path	In – House Project	PO1 – PO12 PSO1, PSO2
3.	Meera Krishna K Divya M Pavithra S	Online Examination System	In – House Project	PO1 – PO12 PSO1, PSO2
4.	Pranesh R Pommu Raj J Gokul S	Estimator - A Search Engine for House Plan and Construction Cost Estimation	In – House Project	PO1 – PO12 PSO1, PSO2
5.	Sundareswari B Muthumari S Sandhiya F	Network Intrusion Detection using Deep Reinforcement Learning	In – House Project	PO1 – PO12 PSO1, PSO2
6.	Rathina Mala R Aishwarya G Ralina Begam S	Let's Covort to Learn	In – House Project	PO1 – PO12 PSO1, PSO2
7.	Vishalini M S Breethi S Pirthous A	Smart Energy Environment	In – House Project	PO1 – PO12 PSO1, PSO2
8.	Nandhaguru M Bala Murugan S Karthick J	Instad - Digital Marketing	In – House Project	PO1 – PO12 PSO1, PSO2
9.	Jeya Kumar P Navin C Vishnu Raaj B	Design and Development of Online Course on Indian Sign Language for Hearing Impaired	In – House Project	PO1 – PO12 PSO1, PSO2

S. No.	Student Name	Project Title	Type of Project	Relevance of PO and PSOs
10.	Raja Kokila R Nivetha J Preethy Meena S	Product Recommendation System	In – House Project	PO1 – PO12 PSO1, PSO2
11.	Jaya Suriya N Thanga Princy S Sarojini S	Driver Drowsiness Detection System	In – House Project	PO1 – PO12 PSO1, PSO2
12.	Jegadeeswari G Girija G Swathi Kannu S P	An Advanced Home Security System Using DNA Cryptography	In – House Project	PO1 – PO12 PSO1, PSO2
13.	Dhivya Jothi I Subha N Kanishka U	Class Time Table Generation Using Genetic Algorithm	In – House Project	PO1 – PO12 PSO1, PSO2
14.	Satheeswaran J Sakthi Vel Jeya Seelan M	Age Estimation	In – House Project	PO1 – PO12 PSO1, PSO2
15.	Vishnu Prabha A Mathumitha A Saranya M	A Dynamic Approach for Trust Node Identification using Fuzzy Membership Functions in WSN	In – House Project	PO1 – PO12 PSO1, PSO2
16.	Latha L Swetha S Santhana Vaishnavi E	Paddy Leaf Disease Detection using Machine Learning	In – House Project	PO1 – PO12 PSO1, PSO2
17.	Mathumathi V	Chimney Check Technician Inspection and Support	Industry Project	PO1 – PO12 PSO1, PSO2
18.	Malik Chandra Pandian T	Mobile Application for Chimney Check	Industry Project	PO1 – PO12 PSO1, PSO2
19.	Divya Bharathi R	DigitalSoft Material Scheduler	Industry Project	PO1 – PO12 PSO1, PSO2
20.	Gokulnath M	Dam Water Level Monitoring System	Industry Project	PO1 – PO12 PSO1, PSO2




**Project Coordinators**



**HoD/IT**

# **MITIGATING DISTRIBUTED DENIAL OF SERVICE ATTACK ON SMART GRID**

## **PROJECT REPORT**

*Submitted by*

**BHARATH S (17UITE007)  
DHARMARAJ S (17UITE023)  
VINAYAK AMIRTHARAJ A R M (17UITE006)**

*Inpartial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625701 (Near Virudhunagar)**

**APRIL 2021**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report “**MITIGATING DISTRIBUTED DENIAL OF SERVICE ATTACK ON SMART GRID**” is the bonafide work of “**BHARATH.S (17UITE007), DHARMARAJ.S (17UITE023) and VINAYAK AMIRTHARAJ.A.R.M (17UITE006)**” who carried out the project work under my supervision



26/4/2021

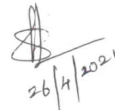
**SIGNATURE**

Dr.P.SUBATHRA

Head of the Department,

Professor,

Dept. of Information Technology,  
Kamaraj College of Engg & Tech,  
K.Vellakulam, Madurai



26/4/2021

**SIGNATURE**

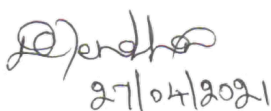
Dr. P.SUBATHRA

**SUPERVISOR,**

Head of the Department,

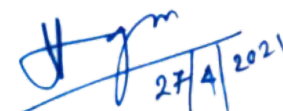
Professor,

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K.Vellakulam, Madurai



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

# **THE STUDENT'S PATH**

## **PROJECT REPORT**

*Submitted by*

**PRADEEP.R.R (17UITE001)**

**PRAVEEN RAJAN.M.N (17UITE010)**

**SELVARAJ.S (17UITE014)**

*Inpartial fulfillment for the award of the degree  
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**BACHELOR OF TECHNOLOGY**

**IN**

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**DEPARTMENT OF INFORMATION TECHNOLOGY**



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**APRIL 2021**

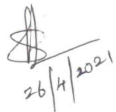
# KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

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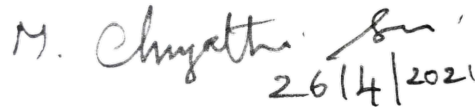
## BONAFIDE CERTIFICATE

Certified that the project report “THE STUDENT’S PATH” is the bonafide work of **PRADEEP.R.R (17UITE001), PRAVEEN RAJAN.M.N (17UITE010) & SELVARAJ.S (17UITE014)** who carried out the project work under my supervision



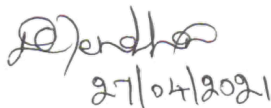
### SIGNATURE

Dr. P. SUBATHRA, M.E.,  
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Head of the Department,  
Professor,  
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Dr.M.Chengathir Selvi, M.C.A.,  
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### INTERNAL EXAMINER



### EXTERNAL EXAMINER

# **ONLINE EXAMINATION SYSTEM**

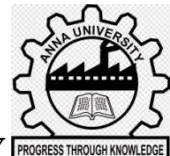
## **A PROJECT REPORT**

*Submitted by*

**K. MEERA KRISHNA (17UITE005)  
M. DIVYA(17UITE011)  
S. PAVITHRA(17UITE035)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

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**APRIL 2021**

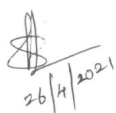
# KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

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K. VELLAKULAM – 625701 (Near Virudhunagar)

## BONAFIDE CERTIFICATE

Certified that this project report “ONLINE EXAMINATION SYSTEM” is the bonafide work of “K. MEERA KRISHNA (17UITE005), M. DIVYA (17UITE011) and S. PAVITHRA (17UITE035)” who carried out the project work under my supervision.



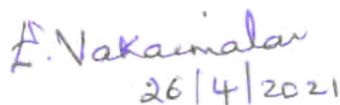
26/4/2021

**SIGNATURE**

**Dr. P.SUBATHRA, M.E., Ph.D.,  
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**Professor**

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Technology,  
K.Vellakulam, Madurai- 625701.



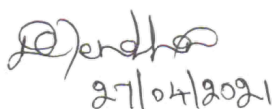
26/4/2021

**SIGNATURE**

**Dr. E.VAKAIMALAR, Ph.D.,  
SUPERVISOR**

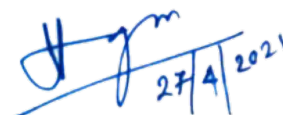
**Assistant Professor**

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27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

**ESTIMATOR - A SEARCH ENGINE FOR HOUSE PLAN AND  
CONSTRUCTION COST ESTIMATION**

**PROJECT REPORT**

*Submitted by*

**S.GOKUL (17UITE048)**

**R.PRANESH (17UITE052)**

**J.POMMURAJ@YOGAN (17UITE054)**

*In partial fulfillment for the award of the degree of*

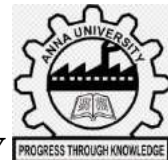
**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**  
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**APRIL 2021**

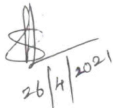
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701 (Near Virudhunagar)**


**BONAFIDE CERTIFICATE**

Certified that the project report “**ESTIMATOR - A SEARCH ENGINE FOR HOUSE PLAN AND CONSTRUCTION COST ESTIMATION**” is the bonafide work of “**S.GOKUL (17UITE048), R.PRANESH (17UITE052) & J.POMMURAJ@YOGAN (17UITE054)**” who carried out the project work under my supervision.



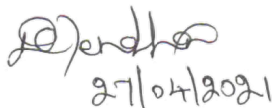
**SIGNATURE**

**Dr. P.SUBATHRA, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT,  
Professor,  
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**Dr. R. ARTHY, M.E., Ph.D.,  
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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**NETWORK INTRUSION DETECTION USING  
DEEP REINFORCEMENT LEARNING**

**PROJECT REPORT**

*Submitted by*

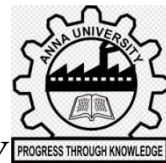
**B.SUNDARESWARI (17UITE013)**

**S.MUTHUMARI (17UITE037)**

**F.SANDHIYA (17UITE055)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY  
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**K. VELLAKULAM – 625701 (Near Virudhunagar)**

**APRIL 2021**



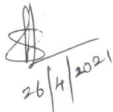
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

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**BONAFIDE CERTIFICATE**

Certified that the project report “**NETWORK INTRUSION DETECTION USING DEEP REINFORCEMENT LEARNING**” is the bonafide work of “**B.SUNDARESWARI (17UITE013), S.MUTHUMARI (17UITE037) & F.SANDHIYA (17UITE055)**” who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

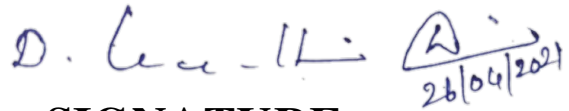
**HEAD OF THE DEPARTMENT**

Professor

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26/04/2021

**SIGNATURE**

**Mrs. D. Kayathri Devi**

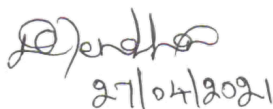
**SUPERVISOR**

Assistant Professor

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27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

# LET'S CAVORT TO LEARN

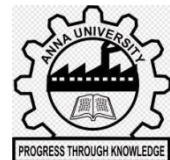
## PROJECT REPORT

*Submitted by*

**R.RATHINA MALA(17UITE027)  
G.AISHWARYA (17UITE044)  
S.RALINA BEGAM (17UITE050)**

*In partial fulfillment for the award of the degree of*

## **BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY  
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

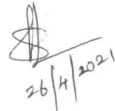
**K. VELLAKULAM – 625701 (Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K. VELLAKULAM - 625701(Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report “**Let’s cavort to learn**” is the bonafide work of “**R.RATHINA MALA (17UITE027), G.AISHWARYA (17UITE044) and S.RALINA BEGAM (17UITE050)**” who carried out the project work under my supervision.



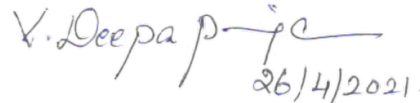
26/4/2021

**SIGNATURE**

Dr. P. SUBATHRA, M.E., Ph.D.,

**HEAD OF THE DEPARTMENT**

Professor  
Dept. of Information Technology  
Kamaraj College of Engineering and  
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K.Vellakulam, Madurai- 625701.

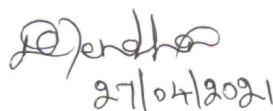


26/4/2021

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Mrs.V.Deepapriya,  
M.Sc.,M.Phil.,M.E.,(Ph.D),  
**SUPERVISOR**

Assistant Professor  
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K.Vellakulam, Madurai -625701.



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

# **SMART ENERGY ENVIRONMENT**

**PROJECT REPORT**

*Submitted by*

**VISHALINI.M.S (17UITE015)**

**BREETHI.S (17UITE017)**

**PIRTHOUS.A (17UITE020)**

*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

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**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**APRIL 2021**

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**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

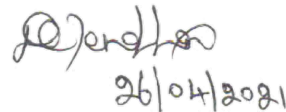
Certified that this project report “**SMART ENERGY ENVIRONMENT**” is the bonafide work of “**VISHALINI.M.S(17UITE015), BREETHI.S (17UITE017)** and **PIRTHOUS. A (17UITE020)**” who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

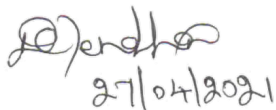
**Dr. P. SUBATHRA**  
**HEAD OF THE DEPARTMENT**  
Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering  
and Technology,  
K.Vellakulam, Madurai.



26/04/2021

**SIGNATURE**

**Mr. D. Vendhan**  
**SUPERVISOR**  
Assistant Professor,  
Dept. of Information Technology,  
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Engineering and Technology,  
K.Vellakulam, Madurai.



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

# **INSTAD - DIGITAL MARKETING**

## **PROJECT REPORT**

*Submitted by*

**M.NANDHA GURU (17UITE025)**

**S.BALAMURUGAN (17UITE031)**

**J.KARTHICK (17UITE053)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

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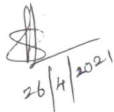


**APRIL 2021**

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**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report “INSTAD-DIGITAL MARKETING” is the bonafide work of “M.NANDHA GURU (17UITE025), S.BALAMURUGAN (17UITE031) and J.KARTHICK (17UITE053)” who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

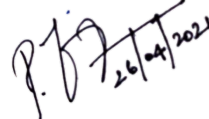
**HEAD OF THE DEPARTMENT**

Professor,

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26/4/2021

**SIGNATURE**

**Ms. P. KAVIYA**

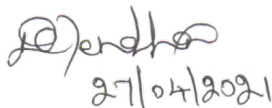
**SUPERVISOR**

Assistant Professor,

Dept. of Information Technology,

Kamaraj College of Engineering and  
Technology,

K.Vellakulam, Madurai - 625701.



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

# **DESIGN & DEVELOPMENT OF ONLINE COURSE ON INDIAN SIGN LANGUAGE FOR THE HEARING IMPAIRED**

PROJECT REPORT

*Submitted by*

**VISHNURAAJ B (17UITE009)**

**NAVIN C (17UITE041)**

**JEYAKUMAR P (17UITE056)**

*in partial fulfilment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**APRIL 2021**



KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY  
(An Autonomous Institution Affiliated to Anna University, Chennai)

K.VELLAKULAM - 625 701 (Near Virudhunagar)

## BONAFIDE CERTIFICATE

Certified that this project report “ **DESIGN & DEVELOPMENT OF ONLINE COURSE ON INDIAN SIGN LANGUAGE FOR THE HEARING IMPAIRED** ” is the bonafide work of **VISHNURAAJ B (17UITE009), NAVIN C (17UITE041), JEYAKUMAR P (17UITE056)** who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

**Dr. P. Subathra,**

**HEAD OF THE DEPARTMENT**

Professor

Dept. of Information Technology,

Kamaraj College of Engg. & Tech.,

K. Vellakulam – 625 701

Madurai District



26/4/2021

**SIGNATURE**

**Dr. P. Subathra,**

**HEAD OF THE DEPARTMENT**

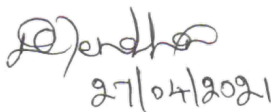
Professor

Dept. of Information Technology,

Kamaraj College of Engg. & Tech.,

K. Vellakulam – 625 701

Madurai District



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

# **PRODUCT RECOMMENDER SYSTEM**

## **PROJECT REPORT**

*Submitted by*

**S.PREETHY MEENA (17UITE018)**

**R.RAJAKOKILA (17UITE026)**

**J.NIVETHA (17UITE043)**

*In partial fulfillment for the award of the degree  
of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**KAMARAJ COLLEGE OF ENGINEERING AND**  
**TECHNOLOGY**



**(An Autonomous Institution Affiliated to Anna University, Chennai)**

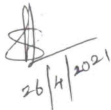
**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**( An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

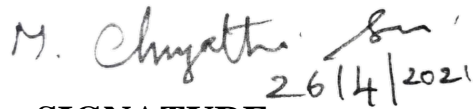
**BONAFIDE CERTIFICATE**

Certified that the project report “**PRODUCT RECOMMENDER SYSTEM**” is the bonafide work of “**S.PREETHY MEENA (17UITE018), R.RAJAKOKILA (17UITE026) and J.NIVETHA (17UITE043)**” who carried out the project work under my supervision



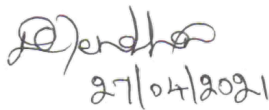
**SIGNATURE**

**Dr.P.SUBATHRA**  
**HEAD OF THE DEPARTMENT,**  
Professor,  
Dept. of Information Technology,  
Kamaraj College of Engg &Tech,  
K.Vellakulam, Madurai



**SIGNATURE**

**Dr. M.CHENGATHIR SELVI**  
**SUPERVISOR,**  
Assistant Professor,  
Dept. of Information Technology,  
Kamaraj College of Engg & Tech,  
K.Vellakulam, Madurai.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **DRIVER DROWSINESS DETECTION SYSTEM**

A PROJECT REPORT

*Submitted by*

**N.JAYA SURIYA (17UITE030)**  
**S.THANGA PRINCY (17UITE032)**  
**S.SAROJINI (17UITE045)**

*in partial fulfillment for the award of the  
degree of*

**BACHELOR OF TECHNOLOGY**  
**IN**  
**INFORMATION TECHNOLOGY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM -625 701(Near Virudhunagar)**


**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM -625 701(Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**DRIVER DROWSINESS DETECTION SYSTEM USING IMAGE PROCESSING**” is the bonafide work of “**N.JAYA SURIYA (17UITE030), S.THANGA PRINCY(17UITE032) and S.SAROJINI (17UITE045)**” who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

**Dr. P.SUBATHRA**

**HEAD OF THE DEPARTMENT**

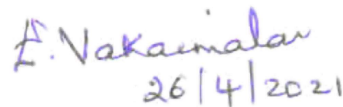
Professor

Dept. of Information Technology

Kamaraj College of Engineering

And Technology,

K.Vellakulam, Madurai- 625701.



26/4/2021

**SIGNATURE**

**Dr. E.VAKAIMALAR**

**SUPERVISOR**

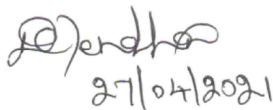
Assistant Professor

Dept. of Information Technology

Kamaraj College of Engineering

And Technology,

K.Vellakulam, Madurai- 625701.



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

**AN ADVANCED HOME SECURITY SYSTEM USING  
DNA CRYPTOGRAPHY**

**PROJECT REPORT**

*Submitted by*

**G.JEGADEESWARI (17UITE019)**

**G.GIRIJA (17UITE029)**

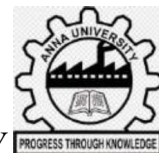
**S.P.SWATHI KANNU (17UITE040)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701 (Near Virudhunagar)**

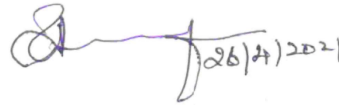
**BONAFIDE CERTIFICATE**

Certified that the project report “AN ADVANCED HOME SECURITY SYSTEM USING DNA CRYPTOGRAPHY” is the bonafide work of “G.JEGADEESWARI (17UITE019), G.GIRIJA (17UITE029) & S.P.SWATHI KANNU (17UITE040)” who carried out the project work under my supervision.



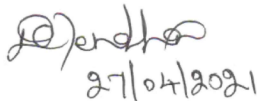
**SIGNATURE**

**Dr. P. SUBATHRA,**  
**HEAD OF THE DEPARTMENT,**  
Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering and  
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**SIGNATURE**

**Dr. R. ARTHY,**  
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Assistant Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering  
and Technology,  
K.Vellakulam, Madurai- 625701.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **CLASS TIME TABLE GENERATION USING GENETIC ALGORITHM**

## **PROJECT REPORT**

*Submitted by*

**I.DHIVYAJOTHI (17UITE039)**

**N.SUBHA (17UITE046)**

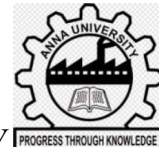
**U.KANISHKA (17UITE049)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**APRIL 2021**



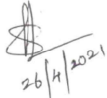
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report“**CLASS TIME TABLE GENERATION USING GENETIC ALGORITHM**” is the bonafide work of “**I.DHIVYAJOTHI (17UITE039), N.SUBHA (17UITE046)& U.KANISHKA(17UITE049)**” who carried out the project work under my supervision.

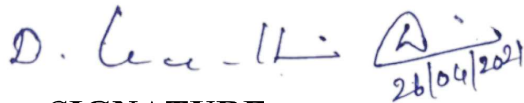


**SIGNATURE**

**Dr.P.SUBATHRA, M.E., Ph.D.,  
HEAD OF THE DEPARTMENT**

Professor

Dept. of Information Technology  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai- 625701.

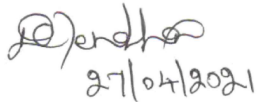


**SIGNATURE**

**Mrs.D.KAYATHRI DEVI,M.E.,  
SUPERVISOR**

Assistant Professor

Dept. of Information Technology  
Kamaraj College of Engineering  
and Technology,  
K.Vellakulam, Madurai- 625701.



**INTERNAL EXAMINAR**



**EXTERNAL EXAMINAR**

# **AGE ESTIMATION USING SVM LEARNING AND LINEAR BINARY PATTERN HISTOGRAM**

**PROJECT REPORT**

**Submitted by**

**J.SATHESWARAN(17UIT028)**

**M.JEYA SEELAN(17UITE008)**

**P.SAKTHIVEL(17UITE047)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY  
KAMARAJ COLLEGE OF ENGINEERING AND  
TECHNOLOGY**



**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625701 (Near Virudhunagar)**

**APRIL 2021**

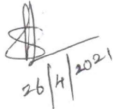
**KAMARAJ COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

(An Autonomous Institution Affiliated to Anna University, Chennai)

**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

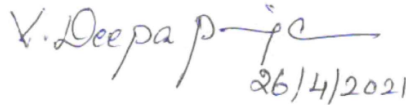
**Certified that this project report “AGE ESTIMATION USING SVM  
LEARNING AND LINEAR BINARY PATTERN HISTOGRAM” is the  
bonafide work of “J. SATHEESWARAN (17UITE028), M. JEYA SEELAN  
(17UITE008), P.SAKTHIVEL (17UITE047)” who carried out the project  
work under my supervision.**



SIGNATURE

Dr. P. SUBATHRA  
HEAD OF THE DEPARTMENT

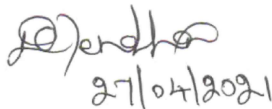
Information Technology  
Kamaraj College of Engineering and  
Technology,  
Madurai.



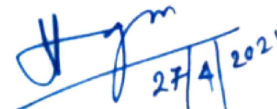
SIGNATURE

Ms. V.DEEPA PRIYA, M.E., Ph. D  
SUPERVISOR

Assistant Professor  
Information Technology  
Kamaraj College of Engineering  
and Technology,  
Madurai.



INTERNAL EXAMINER



EXTERNAL EXAMINER

**A DYNAMIC APPROACH FOR TRUST NODE  
IDENTIFICATION USING FUZZY  
MEMBERSHIP FUNCTIONS IN WSN**

**PROJECT REPORT**

*Submitted by*

**SARANYA M (17UITE022)  
VISHNU PRABA A (17UITE024)  
MATHUMITHA A (17UITE036)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



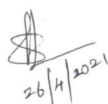
**DEPARTMENT OF INFORMATION TECHNOLOGY  
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY  
(An Autonomous Institution Affiliated to Anna University, Chennai)  
K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

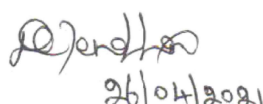
**BONAFIDE CERTIFICATE**

Certified that the project report “A DYNAMIC APPROACH FOR TRUST NODE IDENTIFICATION USING FUZZY MEMBERSHIP FUNCTIONS IN WSN” is the bonafide work of “SARANYA M (17UITE022), VISHNU PRABA A (17UITE024) and MATHUMITHA A (17UITE036)” who carried out the project work under my supervision.



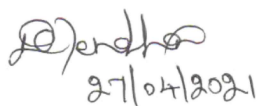
**SIGNATURE**

**Dr. P. Subathra,**  
**HEAD OF DEPARTMENT,**  
**Professor,**  
Dept. of Information Technology,  
Kamaraj College off Engg. &Tech,  
K. Vellakulam, Madurai.



**SIGNATURE**

**Mr. D. Vendhan,**  
**SUPERVISOR,**  
**Assistant Professor,**  
Dept. of Information Technology,  
Kamaraj College off Engg. &Tech,  
K. Vellakulam, Madurai.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **PADDY LEAF DISEASE DETECTION USING MACHINE LEARNING**

**A PROJECT REPORT**

*Submitted by*

**SANTHANA VAISHNAVI E (17UITE002)**

**SWETHA S (17UITE033)**

**LATHA L (17UITE034)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**PADDY LEAF DISEASE DETECTION USING MACHINE LEARNING**” is the bonafide work of **SANTHANA VAISHNAVI E (17UITE002)**, **SWETHA S (17UITE033)** and **LATHA L (17UITE034)** who carried out the project work under my supervision.



**SIGNATURE**

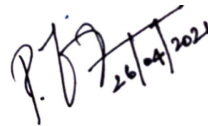
**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

Professor,

Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,

K.Vellakulam, Madurai - 625701.



**SIGNATURE**

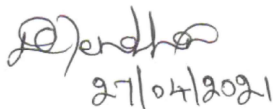
**Ms. P. KAVIYA**

**SUPERVISOR**

Assistant Professor,

Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,

K.Vellakulam, Madurai - 625701.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**CHIMNEY CHECK  
TECHNICIAN INSPECTION AND SUPPORT**

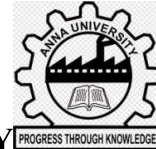
**PROJECT REPORT**

*Submitted by*

**MATHUMATHI V (17UITE038)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**APRIL 2021**



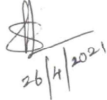
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report “**CHIMNEY CHECK TECHNICIAN INSPECTION AND SUPPORT**” is the bonafide work of “**MATHUMATHI V (17UITE038)**” who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

**Dr. P.SUBATHRA**

**HEAD OF THE DEPARTMENT**

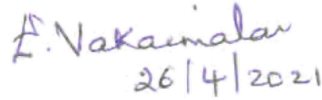
Professor

Dept. of Information Technology

Kamaraj College of Engineering

And Technology,

K.Vellakulam, Madurai- 625701.



26/4/2021

**SIGNATURE**

**Dr. E.VAKAIMALAR**

**SUPERVISOR**

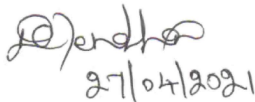
Assistant Professor

Dept. of Information Technology

Kamaraj College of Engineering

And Technology,

K.Vellakulam, Madurai- 625701.



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

Date: 23/4/2021

## PROJECT COMPLETION CERTIFICATE

This is to certify that **MATHUMATHI V (REG NO: 920417205021 )** ,  
**Department Of Information Technology, Kamaraj College of Engineering  
and Technology**, has undergone her internship as a partial fulfilment of the  
requirements for the award of the degree of Bachelor of Engineering in  
Centizen Inc., Tirunelveli.

She has worked on a project entitled “**MOBILE APPLICATION FOR  
CHIMNEY CHECK**” and completed in a full-fledged manner.

The project duration is from **18<sup>th</sup> January 2021 to 22<sup>nd</sup> April 2021**.  
During this period, she bears **GOOD** conducts and morals from our knowledge.

With Regards,



**Fanny Arul M.E.,  
Project Coordinator,  
Centizen Inc.**

# **MOBILE APPLICATION FOR CHIMNEY CHECK**

**PROJECT REPORT**

*Submitted by*

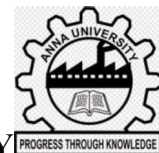
**T. MALIK CHANDRA PANDIAN (17UITE021)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K. VELLAKULAM – 625701 (Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K. VELLAKULAM - 625701(Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report “**MOBILE APPLICATION FOR CHIMNEY CHECK**” is the bonafide work of “**T. MALIK CHANDRA PANDIAN (17UITE021)**” who carried out the project work under my supervision.



**SIGNATURE**

**Dr. P. SUBATHRA,**

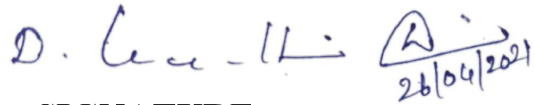
**HEAD OF THE DEPARTMENT**

Professor

Dept. of Information Technology

Kamaraj College of Engineering and  
Technology,

K.Vellakulam, Madurai - 625701.



**SIGNATURE**

**Mrs.D.Kayathri Devi,**

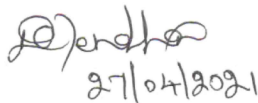
**SUPERVISOR**

Assistant Professor

Dept. of Information Technology

Kamaraj College of Engineering  
and Technology,

K.Vellakulam, Madurai - 625701.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

Date: 23/4/2021

## PROJECT COMPLETION CERTIFICATE

This is to certify that **MALIK CHANDRA PANDIAN T (REG NO: 920417205019 )** , **Department Of Information Technology, Kamaraj College of Engineering and Technology**, has undergone his internship as a partial fulfilment of the requirements for the award of the degree of Bachelor of Engineering in Centizen Inc., Tirunelveli.

He has worked on a project entitled “**MOBILE APPLICATION FOR CHIMNEY CHECK**” and completed in a full-fledged manner.

The project duration is from **18<sup>th</sup> January 2021 to 22<sup>nd</sup> April 2021**. During this period, he bears **GOOD** conducts and morals from our knowledge.

With Regards,



**Fanny Arul M.E.,  
Project Coordinator,  
Centizen Inc.**

# **DIGITALSOFT MATERIAL SCHEDULER**

**A PROJECT REPORT**

*Submitted by*

**R. DIVYA BHARATHI (17UITE012)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

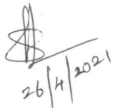
**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**APRIL 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM - 625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**DIGITALSOFT MATERIAL SCHEDULER**” is the bonafide work of “**R. DIVYA BHARATHI (17UITE012)**” who carried out the project work under my supervision.



26/4/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai - 625701.



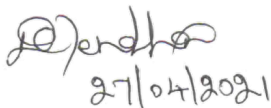
26/4/2021

**SIGNATURE**

**Ms. P. KAVIYA**

**SUPERVISOR**

Assistant Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai - 625701.



27/04/2021

**INTERNAL EXAMINER**



27/4/2021

**EXTERNAL EXAMINER**

Date: 24/08/2020

Dear Divya Bharathi R,

Subject: Internship Offer

Subsequent to the interview for internship opportunity, we are pleased to inform that you have been selected to undergo internship at Digitalsoft Innovation Lab Private Limited, Madurai

1. You will be on internship for a period of 3 months from the date of joining. You will be paid a stipend of INR.12000/- Per month. The internship period is however, liable to be extended or reduced, if be found necessary, at the discretion of Company during your internship.
2. Future Employment opportunities post your graduation depends on mutual interest and business needs at that time of year. Full time employment opportunities will involve tests, other employee recruitment process of the company and you will be subjected to the same.
3. You will report to such Digitalsoft Mentor who will be assigned by Managing Director of Digitalsoft Innovation Lab Private Limited as your internship supervisor from time to time.
4. During the period of internship, except for what is specified therein, you will not be entitled to any other allowances/reimbursements/benefits applicable to regular employees.
5. During your Internship, you will discharge all such duties that may be assigned to you with devotion and due diligence. You shall devote your whole time and attention to the discharge of your duties and shall not accept any other employment, part time or otherwise or carry any other business unless you have first obtained a written approval of the Company. If you are found guilty of dishonesty, forgery, fraud, disorderly or indecent behavior, habitual absenteeism, unsatisfactory performance or any other act subversive of discipline and good behavior, your internship will be immediately terminated.
6. You will not at any time, without the consent in writing of the Company during the term of internship with Company or after termination of internship by notice discharge or otherwise, make known or divulge in any manner whatsoever any information, while undergoing internship in the Company, or its associated Companies, as proprietary or confidential information concerning the technical matters, finance, affairs of any of the aforementioned company's parties. In addition, you shall be bound by the direction of the Company regarding publications, written otherwise, of any work with which you may be associated.
7. You will be governed by the Company's rules and regulations which are in force or will be in force from time to time in respect of service conditions other than not provided in the internship appointment letter.



8. You should report for your training on Tuesday, 1<sup>st</sup> December 2020 at 10:00 am at the following address.

**Digitalsoft Innovation Lab Pvt Ltd,**

Plot no 760, Vikashini Building 5th floor,

West 80 feet road, Annanagar

Madurai – 625020, India

The above date of training is deemed as the beginning of the internship

If the above terms and conditions are acceptable to you, please communicate your acceptance of the same to Ms. Revathy Alagar through an email at [revathy.alagar@digitalsoft.com](mailto:revathy.alagar@digitalsoft.com) and send a copy of this letter duly signed.

Thanking You.

Yours Sincerely

for Digitalsoft Innovation Lab Private Limited.



**Nedumaran Samiayah**

**Managing Director**

I have accepted the above stated offer

Date:

Signature:

# DAM WATER LEVEL MONITORING SYSTEM

## PROJECT REPORT

*Submitted by*

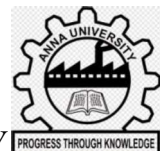
**GOKULNATH M (17UITE042)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**APRIL 2021**

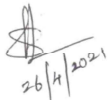
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that the project report “**DAM WATER LEVEL MONITORING SYSTEM**” is the bonafide work of “**M. GOKULNATH (17UITE042)**” who carried out the project work under my supervision.



**SIGNATURE**

**Dr. P.SUBATHRA,  
HEAD OF THE DEPARTMENT**

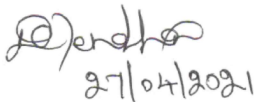
Professor  
Dept. of Information Technology  
Kamaraj College of Engineering  
And Technology,  
K.Vellakulam, Madurai- 625701.



**SIGNATURE**

**Dr. R.ARTHY,  
SUPERVISOR**

Assistant Professor  
Dept. of Information Technology  
Kamaraj College of Engineering  
And Technology,  
K.Vellakulam, Madurai- 625701.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

30<sup>th</sup> March 2021

**PROJECT COMPLETION CERTIFICATE**

This is to certify that **Mr. M. GOKULNATH (Reg.No: 920417205012)** a student **B.E.,(Information Technology), Kamaraj College of Engineering and Technology- Madurai** has successfully completed the project titled **“DAM WATER LEVEL MONITORING SYSTEM”** in **JAVA**Platform from **February 2021 to March 2021** in our company. During the period, he had been exposed to different processes and found to be Punctual, Hard Working and Inquisitive. We wish him every success in life and career.

For Shia#sh Info Solutions Private Limited



Ashwini Kanniyappan  
Manager – Human Resources

Shia#sh Info Solutions Private Limited  
#51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,  
Sholinganallur, Chennai – 600 119, Tamil Nadu, India  
+91 44 66255681 info@shia#sh.com

**DEPARTMENT OF INFORMATION TECHNOLOGY**

Class: III IT

Semester: VI

Academic Year: 2020-2021 EVEN

Domain: IoT

Subject Code: IT8611

Subject Name: Mini-Project

Staff In-charge: Dr.E.Vakaimalar & Ms.Kaviya.P

**PROJECT TEAM LIST & GUIDE ALLOCATION**

TEAM NO	Reg.No	ROLL NO	NAME	Project Title	Guide Name
1.	920418205002	18UITE001	AMRUTYAHARSHA.R	Flame Detection System Using IoT	Dr.M.Chengathir Selvi
	920418205016	18UITE015	JEYA RUBESH.A		
	920418205045	18UITE017	SARAVANASANTHOSH.M		
2.	920418205015	18UITE003	HINDHUJA.R	Smart Dustbin Using IoT	Dr.M.Chengathir Selvi
	920418205019	18UITE036	KARTHIKA.G		
	920418205050	18UITE052	SWETHA.S		
3.	920418205027	18UITE004	MADHUMITHRA.S	Automatic Hand Sanitizer	Dr.E.Vakaimalar
	920418205030	18UITE026	MALINIDEVI.S		
4.	920418205032	18UITE005	MANIKANDAN PRABHU.R	Smart Shoes Using IoT	Dr.P.Subathra
	920418205052	18UITE008	VEL VIJAI.V		
	920418205020	18UITE024	KARTHIKEYAN.M		
5.	920418205043	18UITE006	SAKTHI GANESH.M	Hand Gesture Control System Using IoT	Dr.R.Arthy
	920418205044	18UITE034	SAMINATHAN.G		
	920418205028	18UITE031	MAHENDRA PUROHIT J		
6.	920418205035	18UITE007	NANDHINI.S	Arduino Voice Control System	Dr.P.Subathra
	920418205024	18UITE047	KAYAL ARASI.R		
	920418205702	18UITE055	ABINAYA.M		

TEAM NO	Reg.No	ROLL NO	NAME	Project Title	Guide Name
7.	920418205046	18UITE009	SHREENITHY.R	Weather Reporting System Using IoT	Mrs.D.Kayathri Devi
	920418205039	18UITE028	PRAVEENA.G		
	920418205017	18UITE046	KARISHMA.V		
8.	920418205033	18UITE010	MEENAKSHI SUNDARAM.G	Temperature Based Fan Speed Controller	Mrs.D.Kayathri Devi
	920418205012	18UITE019	GOPINATH.R		
	920418205009	18UITE043	CHANJAIY.J		
9.	920418205023	18UITE011	KAVINILA.M	Obstacles Detection and Warning System Using IoT	Mrs.V.Deepa Priya
	920418205013	18UITE035	HARITHANJALI.K		
	920418205701	18UITE054	MRIDINI.M		
10.	920418205006	18UITE014	AYYAPARAJA.K	IoT Based Water Level Monitoring System	Ms.P.Kaviya
	920418205034	18UITE040	NANDHAKUMAR.S		
	920418205038	18UITE042	PARTHASARATHY.L		
	920418205018	18UITE030	KARTHICK GURU.J		
11.	920418205042	18UITE018	SABIN ANTO.M	Motion Detection System using IoT	Mrs.V.Deepa Priya
	920418205048	18UITE025	SUDHARSAN.M		
	920418205022	18UITE037	KARUPPASAMY.S		
12.	920418205004	18UITE020	ARASA MUNI VIYASAR.K	Vehicle Tracking System Using IoT	Ms.P.Kaviya
	920418205008	18UITE032	CHANDRU.R		
	920418205014	18UITE044	HARI VIGNESH.M		
13.	920418205040	18UITE022	RAGUL.T	LPG Leakage Detector	Dr.E.Vakaimalar
	920418205031	18UITE023	MANIKANDAN.M		
	920418205029	18UITE027	MAHENDRAN.A		

TEAM NO	Reg.No	ROLL NO	NAME	Project Title	Guide Name
14.	920418205037	18UITE029	PAPPASRI.D	Soil Moisture Notifier Using IoT	Mr.D.Vendhan
	920418205007	18UITE038	BANU PRIYA.S		
	920418205003	18UITE049	ANUPRIYA.S		
15.	920418205001	18UITE039	ABUL FAISAL.M	Air Quality Monitoring System Using IoT	Dr.R.Arthy
	920418205021	18UITE041	KARTHIKEYAN.T		
	920418205047	18UITE050	SIVA PRIYAN.A		
16.	920418205036	18UITE048	NITHYAN.G	Alcohol Detection System Using IoT	Mr.D.Vendhan
	920418205005	18UITE051	ARUN PRASATH.D		
	920418205041	18UITE053	RAMGANESH.S		

E. Vakkimalan 



# **FLAME DETECTION SYSTEM USING IOT**

**A MINI-PROJECT REPORT**

*Submitted by*

**AMRUTYA HARSHA R (18UITE001)**

**JEYA RUBESH A (18UITE015)**

**SARAVANA SANTHOSH M (18UITE017)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K. VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**

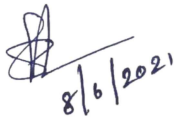


**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K. VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**FLAME DETECTION SYSTEM USING IOT**” is the bonafide work of **AMRUTYA HARSHA R (18UITE001)**, **JEYA RUBESH A(18UITE015)** and **SARAVANA SANTHOSH M (18UITE017)** who carried out the project work under my supervision.



8/6/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

Professor,

Dept. of Information Technology,

Kamaraj College of Engineering and

Technology,

K. Vellakulam, Madurai - 625701.



7/6/21

**SIGNATURE**

**Dr M. Chengathir Selvi**

**SUPERVISOR**

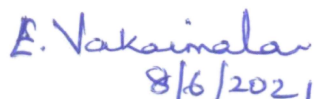
Assistant Professor,

Dept. of Information Technology,

Kamaraj College of Engineering and

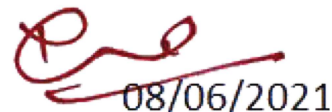
Technology,

K. Vellakulam, Madurai - 625701.



8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **SMART DUSTBIN USING IOT**

**A MINI-PROJECT REPORT**

*Submitted by*

**R.HINDHUJA(18UITE003)**

**G.KARTHIKA(18UITE036)**

**S.SWETHA(18UITE052)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “SMART DUSTBIN USING IOT” is the bonafide work of **HINDHUJA R (18UITE003), KARTHIKA G (18UITE036), SWETHA S (18UITE052)** who carried out the project work under my supervision.



8/6/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

Professor,

Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai - 625701.



7/6/21

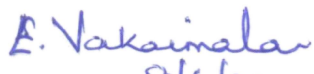
**SIGNATURE**

**Dr M. Chengathir Selvi**

**SUPERVISOR**

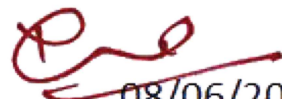
Assistant Professor,

Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai-625701.



8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **AUTOMATIC HAND SANITIZER**

**A MINI-PROJECT REPORT**

*Submitted by*

**S.MADHUMITHRA(18UITE004)**

**S.MALINIDEVI(18UITE026)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**


**K.VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “AUTOMATIC HAND SANITIZER” is the bonafide work of **S.MADHUMITHRA(18UITE004)** and **S.MALINIDEVI(18UITE026)** who carried out the project work under my supervision.



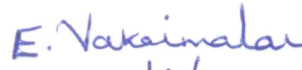
8/6/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai - 625701.



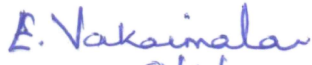
7/6/2021

**SIGNATURE**

**Dr. E. VAKAIMALAR**


**SUPERVISOR**

Assistant Professor,  
Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai - 625701.



8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **SMART SHOES USING IOT**

## **A MINI-PROJECT REPORT**

*Submitted by*

**R. MANIKANDAN PRABHU (18UITE005)**

**V. VEL VIJAI (18UITE008)**

**M. KARTHIKEYAN (18UITE024)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**


**K.VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “SMART SHOE USING IOT” is the bonafide work of **MANIKANDAN PRABHU R (18UITE005)**, **VELVIJAI V (18UITE008)** and **KARTHIKEYAN M (18UITE024)** who carried out the project work under my supervision.



8/6/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**


Professor,

Dept. of Information Technology,

Kamaraj College of Engineering and

Technology,

K.Vellakulam, Madurai - 625701.



7/6/2021

**SIGNATURE**

**Dr. P. SUBATHRA**

**SUPERVISOR**

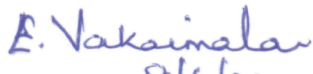
Professor,

Dept. of Information Technology,

Kamaraj College of Engineering and

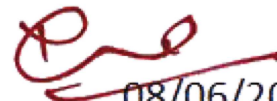
Technology,

K.Vellakulam, Madurai-625701.



8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **HAND GESTURE CONTROL SYSTEM USING IOT**

**A MINI-PROJECT REPORT**

*Submitted by*

**SAKTHI GANESH M (18UITE006)  
MAHENDRA PUROHIT J (18UITE031)  
SAMINATHAN G (18UITE034)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY  
IN  
INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY  
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY  
(An Autonomous Institution Affiliated to Anna University, Chennai)  
K.VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**HAND GESTURE CONTROL SYSTEM USING IOT**” is the bonafide work of **SAKTHI GANESH M (18UITE006) AND MAHENDRA PUROHIT J (18UITE031), SAMINATHAN G (18UITE034)** who carried out the project work under my supervision.



**SIGNATURE**

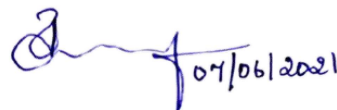
**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

Professor,

Dept. of Information Technology,  
Kamaraj College of Engineering and  
Technology,

K.Vellakulam, Madurai - 625701.



**SIGNATURE**

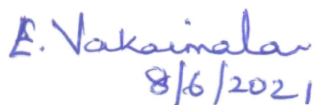
**Dr. R. ARTHY**

**SUPERVISOR**

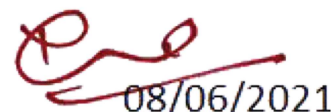
Assistant Professor,

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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **ARDUINO VOICE CONTROL SYSTEM**

**A MINI-PROJECT REPORT**

*Submitted by*

**R. KAYAL ARASI (920418205024)**

**S. NANDHINI (920418205035)**

**M. ABINAYA (920418205702)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

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**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**

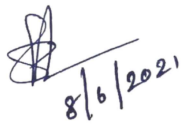
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**ARDUINO VOICE CONTROL SYSTEM**” is the bonafide work of **R.KAYAL ARASI(920418205024),S.NANDHINI(920418205035)andM.ABINAYA(920418205702)**, who carried out the project work under my supervision.



**SIGNATURE**

**Dr. P. SUBATHRA**

**HEAD OF THE DEPARTMENT**

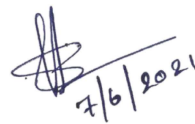
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**Dr.P.SUBATHRA**

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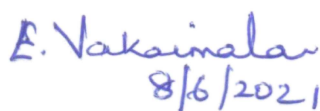
Professor,

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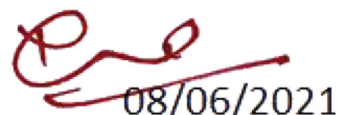
Kamaraj College of Engineering and

Technology,

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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **WEATHER REPORTING SYSTEM USING IOT**

**A MINI-PROJECT REPORT**

*Submitted by*

**R.SHREENITHY(18UIT009)**

**G.PRAVEENA(18UITE028)**

**V.KARISHMA(18UITE046)**

*In partial fulfillment for the award of the degree of*

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**BONAFIDE CERTIFICATE**

Certified that this project report “**Weather Reporting System Using IoT**” is the bonafide work of **R.SHREENITHY(18UITE009)**, **G.PRAVEENA (18UITE028)** and **V.KARISHMA(18UITE046)** who carried out the project work under my supervision.



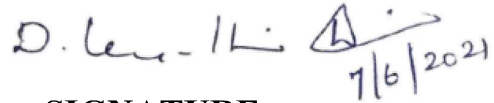
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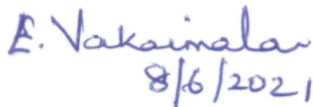
7/6/2021

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**Ms. D.KAYATHRI DEVI**

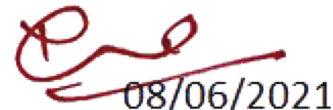
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8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **TEMPERATURE BASED FAN SPEED CONTROLLER**

**A MINI-PROJECT REPORT**

*Submitted by*

**MEENAKSHI SUNDARAM G (18UITE010)  
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CHANJAIY J (18UITE043)**

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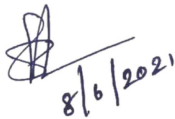


**JUNE 2021**

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**BONAFIDE CERTIFICATE**

Certified that this project report “**TEMPERATURE BASED FAN SPEED CONTROLLER**” is the bonafide work of **CHANJAIY(18UITE043)**, **GOPINATH(18UITE019)** and **MEENAKSHI SUNDERAM (18UITE010)** who carried out the project work under my supervision.



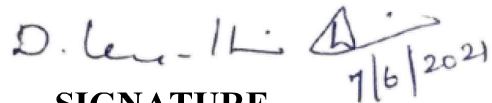
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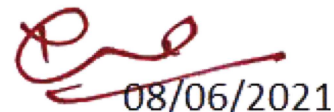
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8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

**OBSTACLES DETECTION AND WARNING SYSTEM USING IOT**

**A MINI-PROJECT REPORT**

*Submitted by*

**M KAVINILA (18UITE011)**

**K HARITHANJALI (18UITE035)**

**M MRIDINI (18UITE054)**

*In partial fulfilment for the award of the degree of*

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**JUNE 2021**



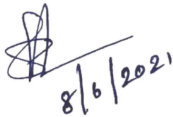
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Chennai)**

**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**OBSTACLE DETECTION AND WARNING USING ARUDINO**” is the bonafide work of **M KAVINILA (18UITE011) K HARITHANJALI (18UITE035)** and **M MRIDINI (18UITE054)** who carried out the project work under my supervision.



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**Mrs. V. DEEPAPRIYA**

**SUPERVISOR**

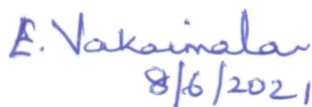
Assistant Professor,

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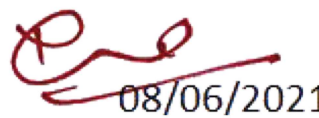
Kamaraj College of Engineering and

Technology,

K.Vellakulam, Madurai - 625701.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **IoT BASED WATER LEVEL MONITORING SYSTEM**

**A MINI-PROJECT REPORT**

*Submitted by*

**AYYAPARAJA K (18UITE014)  
KARTHICKGURU J (18UITE030)  
NANDHAKUMAR S (18UITE040)  
PARTHASARATHY L (18UITE042)**

*In partial fulfillment for the award of the degree of*

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**JUNE 2021**

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**BONAFIDE CERTIFICATE**

Certified that this project report “IoT Based Water Level Monitoring System” is the bonafide work of **AYYAPARAJA K (18UITE014)**, **KARTHICKGURU J (18UITE030)**, **NANDHAKUMAR S (18UITE040)** and **PARTHASARATHY L (18UITE042)** who carried out the project work under my supervision.



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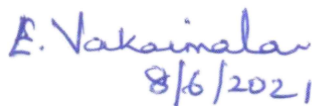


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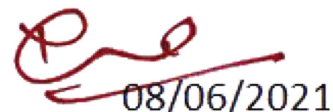
**Ms. P. KAVIYA**

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Kamaraj College of Engineering and  
Technology,  
K.Vellakulam, Madurai-625701.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **MOTION DETECTION SYSTEM USING IOT**

**A MINI-PROJECT REPORT**

*Submitted by*

**M SABIN ANTO (18UITE018)**

**M SUDHARSAN (18UITE025)**

**KARUPPASAMY S (18UITE037)**

*In partial fulfillment for the award of the degree of*

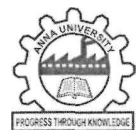
**BACHELOR OF TECHNOLOGY**

**IN**

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**DEPARTMENT OF INFORMATION TECHNOLOGY  
KAMARAJ COLLEGE OF ENGINEERING  
AND TECHNOLOGY**



**(An Autonomous Institution Affiliated to Anna University, Chennai)**

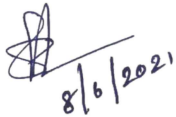
**K.VELLAKULAM-625 701(Near Virudhunagar)**

**JUNE 2021**

**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University, Chennai)**  
**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “**MOTION DETECTION SYSTEM USING IOT**” is the bonafide work of **SABIN ANTO M(18UITE018)**, **SUDHARSAN M(18UITE025)** and **KARUPPASAMY S(18UITE037)** who carried out the project work under my supervision.



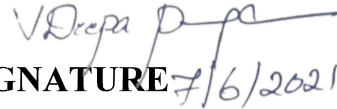
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**Dr. P. SUBATHRA**

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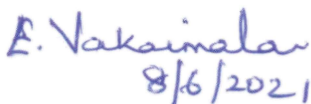
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**Mrs. V. DEEPA PRIYA**

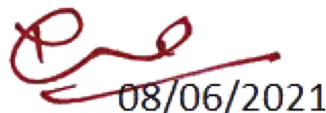
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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **VEHICLE TRACKING SYSTEM USING IoT**

**A MINI-PROJECT REPORT**

*Submitted by*

**ARASA MUNI VIYASAR K (18UITE020)**

**CHANDRU R (18UITE032)**

**HARI VIGNESH M (18UITE044)**

*In partial fulfillment for the award of the degree of*

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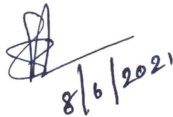


**JUNE 2021**

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**BONAFIDE CERTIFICATE**

Certified that this project report “VEHICLE TRACKING SYSTEM USING IoT” is the bonafide work of ARASA MUNI VIYASAR K (18UITE020), CHANDRU R (18UITE032) and HARI VIGNESH M (18UITE044), who carried out the project work under my supervision.



**SIGNATURE**

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Professor,  
Dept. of Information Technology,  
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Technology,  
K.Vellakulam, Madurai - 625701.

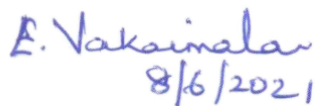


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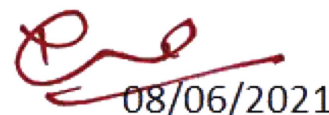
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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **LPG LEAKAGE DETECTOR**

**A MINI-PROJECT REPORT**

*Submitted by*

**T.RAGUL(18UITE022)**

**M.MANIKANDAN(18UITE023)**

**A.MAHENDRAN(18UITE027)**

*In partial fulfillment for the award of the degree of*

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**K.VELLAKULAM-625 701(Near Virudhunagar)**

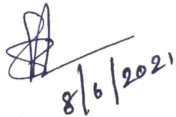
**JUNE 2021**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**  
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**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “LPG LEAKAGE DETECTOR” is the bonafide work Of **T.RAGUL (18UITE022), M.MANIKANDAN (18UITE023) and A.MAHENDRAN (18UITE027)** who carried out the project work under my supervision.



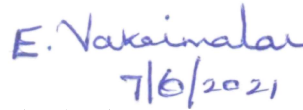
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Professor,  
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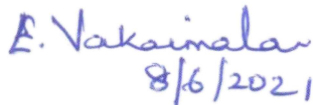
7/6/2021

**SIGNATURE**

**Dr.E.VAKAIMALAR**

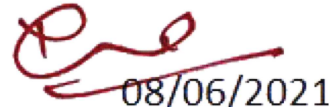
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8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **SOIL MOISTURE NOTIFIER USING IoT**

**A MINI-PROJECT REPORT**

*Submitted by*

**PAPPASRI D (18UITE029)**

**BANU PRIYA S (18UITE038)**

**ANUPRIYA S (18UITE049)**

*In partial fulfillment for the award of the degree of*

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**IN**

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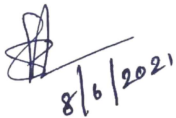


**JUNE 2021**

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**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “SOIL MOISTURE NOTIFIER USING INTERNET OF THINGS” is the bonafide work of PAPPASRI D (18UITE029), BANUPRIYA S(18UITE038) and ANUPRIYA S (18UITE049) who carried out the project work under my supervision.



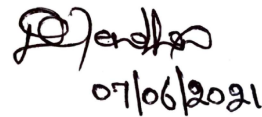
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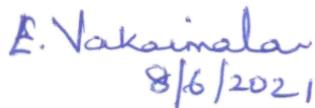
07/06/2021

**SIGNATURE**

**Ms. P. KAVIYA**

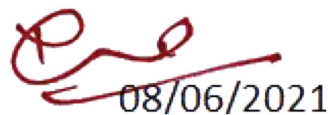
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8/6/2021

**INTERNAL EXAMINER**



08/06/2021

**EXTERNAL EXAMINER**

# **AIR QUALITY MONITORING SYSTEM USING IoT**

**A MINI-PROJECT REPORT**

*Submitted by*

**ABUL FAISAL M (18UITE039)**

**KARTHIKEYAN T(18UITE041)**

**SIVA PRIYAN A (18UITE050)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

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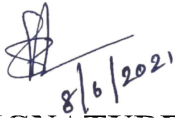
**DEPARTMENT OF INFORMATION TECHNOLOGY  
KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY  
(An Autonomous Institution Affiliated to Anna University, Chennai)  
K.VELLAKULAM-625 701(Near Virudhunagar)**



**JUNE 2021**

## BONAFIDE CERTIFICATE

Certified that this project report “AIR QUALITY MONITORING SYSTEM USING IoT” is the bonafide work of ABULFAISAL M(18UITE039), KARTHIKEYAN T (18UITE041) and SIVAPRIYAN A(18UITE050) who carried out the project work under my supervision.




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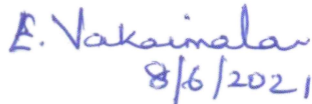


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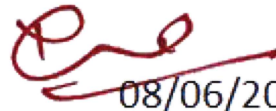
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**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

# **ALCOHOL DETECTION SYSTEM USING IoT**

**A MINI-PROJECT REPORT**

*Submitted by*

**ARUN PRASATH D (18UITE051)**

**NITHYAN G (18UITE048)**

**RAM GANESH S (18UITE053)**

*In partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**INFORMATION TECHNOLOGY**



**DEPARTMENT OF INFORMATION TECHNOLOGY**



**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**

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**K.VELLAKULAM-625 701 (Near Virudhunagar)**

**BONAFIDE CERTIFICATE**

Certified that this project report “ALCOHOL DETECTION SYSTEM USING IoT” is the bonafide work of ARUN PRASATH D (18UITE051), NITHYAN G (18UITE048) and RAM GANESH S (18UITE053) who carried out the project work under my supervision.

  
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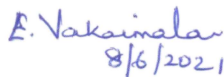
  
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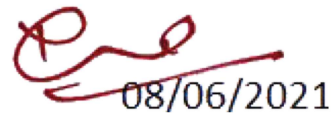
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