



# **K S R Institute for Engineering and Technology**

**Tiruchengode, Namakkal(Dt) , Tamil Nadu**

**(Approved by AICTE New Delhi & Affiliated to Anna University Chennai)**

**BE (CSE,EEE,ECE,Mech)&B.Tech (IT) Programmes are Accredited by NBA**

## **1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)**

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## 1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)

Academic Year: 2019 - 2020

### B.E. - Computer Science and Engineering

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30.	Guna M,Hariharan S,Poovarasana S,Soundhar P	34
31.	Mohanapreya N,Sneha P,Dharshini P, Menaga T	35
32.	R,Dharani ,Jeevitha R, Manjula K, Praveenkumar M	36


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This is to certify that M-AARTHI

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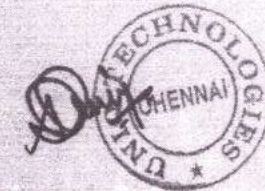
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NAMAKKAL DL, TAMIL NADU.




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NAMAKKAL DISTRICT, TAMIL NADU.



Project Manager

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5<sup>th</sup> March 2020

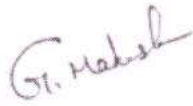
TO WHOM IT MAY CONCERN

This is to certify that **Laxman Cibi S** currently pursuing 4th Year, B.E(CSE) at KSR Institute for Engineering and Technology has been completed his paid internship as Front-End Developer from 1<sup>st</sup> October 2019 to 28<sup>th</sup> February 2020 at Crayond Digital Pvt. Ltd

He worked with the product engineering team to build modules as per the defined use cases.

We wish him good luck for his future endeavours.

For Crayond Digital Private Limited



G.Makesh,

Chief Executive Officer



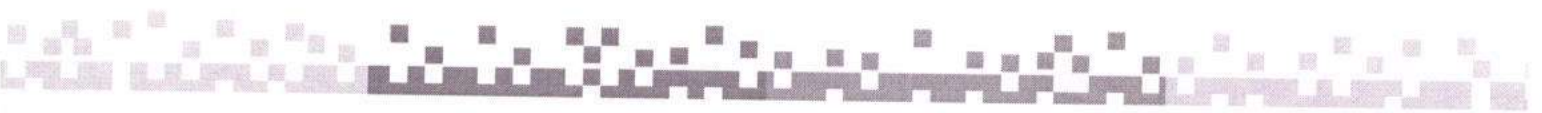
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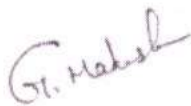
TO WHOM IT MAY CONCERN

This is to certify that **Mohammed Samir A** currently pursuing 4th Year, B.E(CSE) at KSR Institute for Engineering and Technology has been completed his paid internship as Front-End Developer from 1<sup>st</sup> October 2019 to 28<sup>th</sup> February 2020 at Crayond Digital Pvt. Ltd

He worked with the product engineering team to build modules as per the defined use cases.


We wish him good luck for his future endeavours.

For Crayond Digital Private Limited



G.Makesh,

Chief Executive Officer



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### PROBLEM:

Increasing the number of sectors per track will decrease the transfer time since more sectors will pass under the read/write head in a given amount of time. Seek times and rotational latencies are unaffected, so the total service time will decrease. Increasing the number of tracks per surface will not affect the transfer time or the rotational latency. Assuming the surface itself remains the same size, it is possible to make an argument that it may reduce seek times slightly (since track i and track j will be closer together on the disk with more tracks per surface), but this depends on the sequence of data requests and on how the data is distributed across the disk tracks.

### SOLUTION:

#### Disk Scheduling Algorithms

Disk scheduling is done by operating systems to schedule I/O requests arriving for the disk. Disk scheduling is also known as I/O scheduling.

Disk scheduling is important because:

Multiple I/O requests may arrive by different processes and only one I/O request can be served at a time by the disk controller. Thus other I/O requests need to wait in the waiting queue and need to be scheduled.

Two or more request may be far from each other so can result in greater disk arm movement.

Hard drives are one of the slowest parts of the computer system and thus need to be accessed in an efficient manner.

There are many Disk Scheduling Algorithms but before discussing them let's have a quick look at some of the important terms:

**Seek Time:** Seek time is the time taken to locate the disk arm to a specified track where the data is to be read or write. So the disk scheduling algorithm that gives minimum average seek time is better.

**Rotational Latency:** Rotational Latency is the time taken by the desired sector of disk to rotate into a position so that it can access the read/write heads. So the disk scheduling algorithm that gives minimum rotational latency is better.

**Transfer Time:** Transfer time is the time to transfer the data. It depends on the rotating speed of the disk and number of bytes to be transferred.

**Disk Access Time:** Disk Access Time is:

$$\text{Disk Access Time} = \text{Seek Time} + \text{Rotational Latency} + \text{Transfer Time}$$

**Disk Response Time:** Response Time is the average of time spent by a request waiting to perform its I/O operation. Average Response time is the response time of the all requests. Variance Response Time is measure of how individual request are serviced with respect to average response time. So the disk scheduling algorithm that gives minimum variance response time is better.

#### Disk Scheduling Algorithms

**FCFS:** FCFS is the simplest of all the Disk Scheduling Algorithms. In FCFS, the requests are addressed in the order they arrive in the disk queue. Let us understand this with the help of an example.

Example:

Suppose the order of request is- (82,170,43,140,24,16,190)

And current position of Read/Write head is : 50

So, total seek time:

$$=(82-50)+(170-82)+(170-43)+(140-43)+(140-24)+(24-16)+(190-16)$$
$$=642$$

Advantages:

Every request gets a fair chance

No indefinite postponement

Disadvantages:

Does not try to optimize seek time

May not provide the best possible service

SSTF: In SSTF (Shortest Seek Time First), requests having shortest seek time are executed first.

So, the seek time of every request is calculated in advance in the queue and then they are scheduled according to their calculated seek time. As a result, the request near the disk arm will get executed first. SSTF is certainly an improvement over FCFS as it decreases the average response time and increases the throughput of system. Let us understand this with the help of an example.

Example:

Suppose the order of request is- (82,170,43,140,24,16,190)

And current position of Read/Write head is : 50

So, total seek time:

$$=(50-43)+(43-24)+(24-16)+(82-16)+(140-82)+(170-40)+(190-170)$$
$$=208$$

Advantages:

Average Response Time decreases

Throughput increases

Disadvantages:

Overhead to calculate seek time in advance

Can cause Starvation for a request if it has higher seek time as compared to incoming requests

High variance of response time as SSTF favours only some requests

SCAN: In SCAN algorithm the disk arm moves into a particular direction and services the requests coming in its path and after reaching the end of disk, it reverses its direction and again services the request arriving in its path. So, this algorithm works as an elevator and hence also known as elevator algorithm. As a result, the requests at the midrange are serviced more and those arriving behind the disk arm will have to wait.

Example:

Suppose the requests to be addressed are-82,170,43,140,24,16,190. And the Read/Write arm is at 50, and it is also given that the disk arm should move "towards the larger value".

Therefore, the seek time is calculated as:

$$=(199-50)+(199-16)$$
$$=332$$

Advantages:

High throughput

Low variance of response time

Average response time

Disadvantages:

Long waiting time for requests for locations just visited by disk arm

CSCAN: In SCAN algorithm, the disk arm again scans the path that has been scanned, after reversing its direction. So, it may be possible that too many requests are waiting at the other end or there may be zero or few requests pending at the scanned area.

These situations are avoided in CSCAN algorithm in which the disk arm instead of reversing its direction goes to the other end of the disk and starts servicing the requests from there. So, the disk arm moves in a circular fashion and this algorithm is also similar to SCAN algorithm and hence it is known as C-SCAN (Circular SCAN).

Example:

Suppose the requests to be addressed are-82,170,43,140,24,16,190. And the Read/Write arm is at 50, and it is also given that the disk arm should move "towards the larger value".

Seek time is calculated as:

$$=(199-50)+(199-0)+(43-0)$$

$$=391$$

Advantages:

Provides more uniform wait time compared to SCAN

LOOK: It is similar to the SCAN disk scheduling algorithm except for the difference that the disk arm in spite of going to the end of the disk goes only to the last request to be serviced in front of the head and then reverses its direction from there only. Thus it prevents the extra delay which occurred due to unnecessary traversal to the end of the disk.

Example:

Suppose the requests to be addressed are-82,170,43,140,24,16,190. And the Read/Write arm is at 50, and it is also given that the disk arm should move "towards the larger value".

So, the seek time is calculated as:

$$=(190-50)+(190-16)$$

$$=314$$

CLOOK: As LOOK is similar to SCAN algorithm, in similar way, CLOOK is similar to CSCAN disk scheduling algorithm. In CLOOK, the disk arm in spite of going to the end goes only to the last request to be serviced in front of the head and then from there goes to the other end's last request. Thus, it also prevents the extra delay which occurred due to unnecessary traversal to the end of the disk.


Example:

Suppose the requests to be addressed are-82,170,43,140,24,16,190. And the Read/Write arm is at 50, and it is also given that the disk arm should move "towards the larger value".

So, the seek time is calculated as:

$$=(190-50)+(190-16)+(43-16)$$

$$=341$$

  
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Date: 19/02/2020

To whomsoever it may concern

This is to confirm the participation of internship of S Komathi of KSR Institute of Engineering and Technonoly, for a period of 310 attendance hours with us.

Shegot trained and practiced basic level HTML 5, PHP & MYSQL.

During her internship, her performance and attitude towards getting things done was Sartisfactory.

For ABC INFOMEDIA PVT LTD

A handwritten signature in black ink, appearing to read 'K. K. K. K.', is written over the typed name.

Director

A handwritten signature in green ink, appearing to read 'S. S.', is written above the typed name.

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CIN : U772200T22010PTC016531 | GSTIN : 33AAJCA0385Q1Z8

Date: 19/02/2020

To whomsoever it may concern

This is to confirm the participation of internship of V Yuvapriyanka of KSR Institute of Engineering and Technonoly, for a period of 272 attendance hours with us.

Shegot trained and practiced basic level HTML 5, PHP & MYSQL.

During her internship, her performance and attitude towards getting things done was Sartisfactory.

For ABC INFOMEDIA PVT LTD

Director

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This is to certify that Mr/Ms M. Gayathri, B.E (CSE) of  
KSR Institute For Engg & Tech have been associated towards  
his/her Internship on Web Development - DotNet  
from 3-6-19 to 7-6-19 in our company located at coimbatore.

  
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*Sya*  
Training Facilitator

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Branch Office : Coimbatore. Trichy.

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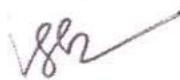
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📍 Near Kalyan Jewellers.  
☎ +91 975 11 11 343, 975 11 11 346  
🌐 www.codebindtechnologies.com  
✉ info@codebindtechnologies.com

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# ALUMNI TRACKING SYSTEM



## A PROJECT REPORT

*Submitted by*

ARUN.R (731616104004)

PUGAZHI VELAN.P (731616104031)

VELU PRABHA.S (731616104043)

*in partial fulfilment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE - 637 215

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APRIL 2020

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**ANISHA.N (731616104003)**  
**ILAKIYA.S (731616104013)**  
**SELVAMALINI.J (731616104034)**  
**SOUNDHARYA.A (731616104036)**

*in partial fulfillment for the award of the degree*

*of*

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**IN**


**COMPUTER SCIENCE AND ENGINEERING**

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June 28, 2019


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Department : B.E (CSE)

Name of the Institution : KSR Institute of Engineering & Technology, Tiruchengode.

Departments in Which Undergone Internship Training : Information & Communication Technology.

Internship Training Duration : From: 05.06.2019 To: 21.06.2019.

  
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# **RANKING FRAMEWORK**

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POOJA SHREE K  
SANGEETHA M  
VAISHNAVI V**

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

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TIRUCHENGODE-637 215,  
MAHAKKAL DI, TAMIL NADU.**

# Gamers Social Media

A PROJECT REPORT

*Submitted by*

<i>Arunkumar N</i>	<i>731617104004</i>
<i>Kishor P</i>	<i>731617104024</i>
<i>Manoranjith M</i>	<i>731617104027</i>
<i>Vignesh S</i>	<i>731617104054</i>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**K.S.R INSTITUTE FOR ENGINEERING AND  
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**ANNA UNIVERSITY :: CHENNAI 600 025**

v



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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DL, TAMIL NADU.**



# AUTOMATED RATION DISTRIBUTION SYSTEM



A PROJECT REPORT

*Submitted by*

DEVI GAYATHRI S      (731616104008)  
GOWRI S                      (731616104010)  
HARINI R                      (731616104012)  
INDHU R                      (731616104014)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**


**IN**

**COMPUTER SCIENCE AND ENGINEERING  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY**

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**AUGUST 2020**

  
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TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**





**E-DIRECTORY SERVICE  
MOBILE  
APPLICATION**



**A PROJECT REPORT**

*Submitted by*

**RAJA RAJAN A (731616104038)**

**SWETHA B (731616104040)**

**VASU MITHA R S (731616104042)**

**KOMATHI S (731616104701)**

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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**ANNA UNIVERSITY: CHENNAI 600 025**

**APRIL 2020**

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**



UDHIRAM



A PROJECT REPORT

*Submitted by*

LAXMANCIBI S (731616104019)  
MOHAMMED SAMIR A (731616104023)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE - 637 215**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**AUGUST 2020**

  
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K. S. R. SALVI NAGAR  
TIRUCHENGODE-637 215  
RAMAKKAL DE, TAMIL NADU

**WEB APPLICATION DEVELOPMENT - ONLINE STORE**  
**( Murugan Stores, Pudhur , Erode )**

**A MINI PROJECT REPORT**

*Submitted by*

**ABINAYA S**  
**GAYATHRI M**  
**POOJA M**  
**VALENTEENA COLLINS JP**

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

**BACHELOR OF ENGINEERING**  
**IN**  
**COMPUTER SCIENCE AND ENGINEERING**

**K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**ANNAUNIVERSITY :: CHENNAI 600 025**

  
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**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL DI, TAMIL NADU.**



# MULTI VENDOR E-COMMERCE WEBSITE

A PROJECT REPORT

*Submitted by*



DEVA DHARSHINI S S (731616104007)  
SWETHA C (731616104041)  
YUVAPRIYANKA V (731616104048)  
SOWMIYA S (731616104502)

*in partial fulfillment for the award of the*

*degree of*

**BACHELOR OF ENGINEERING  
IN  
COMPUTER SCIENCE AND  
ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY**

**ANNA UNIVERSITY: CHENNAI 600  
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**MARCH 2020**

**ANNA UNIVERSITY: CHENNAI 600 025**

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DISTRICT, TAMIL NADU.**

# DEVELOPING A KEYBOARD FOR CODERS USING ANDROID STUDIO

A MINI PROJECT REPORT

*Submitted by*

R.BABU

V.PRAKASH

G.GOWTHAM

R.MARIMUTHU

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

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

ANNAUNIVERSITY :: CHENNAI 600 025

  
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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE 637 215,  
NAMAKKAL Dt. TAMIL NADU.

**TRACKING AND TRACING FAKE NEWS**  
**A MINI PROJECT REPORT**

*Submitted by*

**HARISH P**

**KAILASH K**

**KESAVAN S**

**KARTHIKEYAN S**

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


**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

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**NAMAKKAL Dt. TAMIL NADU.**

# Certificate of Completion

This Certificate is Presented to

*R. Babu*

for successfully completing the Internship Program on

**Ethical Hacking**



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Duration

Erode

Training Centre

Managing Director



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TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.



# FAKE CURRENCY DETECTION USING IMAGE PROCESSING



A PROJECT REPORT

*Submitted by*

INDIRA PRIYADHARSHINI P	(731616104015)
PRIYANKA V	(731616104030)
STELINBERCIA S	(731616104038)
VENMATHI S	(731616104045)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**


**COMPUTER SCIENCE AND ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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NAMAKKAL Dt, TAMIL NADU.**





**WASTE SEGREGATION  
MANAGEMENT USING  
IOT**



**A PROJECT REPORT**

*Submitted by*

SRUTHI.S	(731616104037)
SHILPA.B	(731616104035)
JAYAVARSHINI.G	(731616104016)
SUBHASREE.S	(731616104039)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

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TIRUCHENGODE-637 215,  
NAMAKKAL DL, TAMIL NADU.**

# HOME DEVICE CONTROLLER BY USING CLOUD AND IOT

A MINI PROJECT REPORT

*Submitted by*

GUNA M  
HARIHARAN S  
POOVARASAN S  
SOUNDHAR P

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

BACHELOR OF ENGINEERING  
IN  
COMPUTER SCIENCE AND ENGINEERING

K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

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NAMAKKAL DI, TAMIL NADU.

**POOLING OF TRANSPORTATION FROM AGRICULTURAL  
PRODUCE TO MARKET**

**A MINI PROJECT REPORT**

*Submitted by*

**MOHANAPREYA N**

**SNEHA P**

**MENAGA T**

**DHARSHINI P**

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

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

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TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.**



IOT BASED  
ELECTROLYTE BOTTLE  
FOR HEALTHCARE



A PROJECT REPORT

*Submitted by*

DHARANI K	(731616104009)
JEEVITHA R	(731616104017)
MANJULA R	(731616104021)
PRAVEENKUMAR M	(731616104027)

*in partial fulfillment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

IN


COMPUTER SCIENCE AND ENGINEERING

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

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AUGUST 2020

  
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# KSRIET Institute for Engineering and Technology

Tiruchengode, Namakkal(Dt) , Tamil Nadu

(Approved by AICTE New Delhi & Affiliated to Anna University Chennai)

BE (CSE,EEE,ECE,Mech)&B.Tech (IT) Programmes are Accredited by NBA

## 1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)

Academic Year: 2019 - 2020

### B.E. - Electrical & Electronics Engineering

S. No.	Name of the Students	Page No.
1	Kavinkumar.K	39
	Saravanan.V	
	Sibin.S	
	Hariharan.R	
2	Anbalagan.M	40
	Praveen.D	
	Premkumar.G	
	Shankar Narayan.M	
3	Manojkumar.V	41
	Merlin Infanta.S	
	Prakash.S.P	
	Saranya.P	
4	Divyadevi.V	42
	Mohanraj.S	
	Nithiyasri.R	
	Pravin.R	
5	Mathubalan.S	43
	Mugesh.M	
	Pireethi.A	
	Preetha.E	
6	Bharath.S	44
	Iniya Dharini.R	
	Jeeva.R	
	Mythili.N	
7	Karthika Devi.S	45
	Latha.S	
	Logeshwaran.V	
	Dineshkumar. S	
8	Kanimozhi.V	46
	Navaneethan.S	
	Vivek.V	
	Emaiya.K	

<b>S. No.</b>	<b>Name of the Students</b>	<b>Page No.</b>
9	Akilan.G	47
	Boopathi.M	
	Janani.T	
	Nandhini.M	
10	Ajitha.P	48
	Aravind.R	
	Bharathi Kannan.M.R	
	Kaviya.M	
11	Jeeva.M	49
	Kamali Soundarya.B	
	Madhumitha.J.S	
	Rathnakumar.V	
12	Ganeshbabu.V	50
	Monisha.S	
	Sujitha.E	
	Karthi.K	
13	Suvetha T	51
14	Vinoth Kumar.R ,Sakthivel.P,Gokulraj.P,Sarathivasan.J Gokulrayar.R,Athif.L,Jambukesh.I	52
15	Dhatchanamoorthi A	53
16	Deenathayalan G	54
17	Naveen N	55
18	Savuriyappan S	56
19	Sridhar D	57
20	Gokulrayar R	58
21	Athif L	59
22	Hemalatha S	60
23	Monisa B	61
24	Mugesh.M	62
25	Saravanan.V	63

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### BONAFIDE CERTIFICATE

Certified that this project report "ARTIFICIAL INTELLEGENCE BASED TRAFFIC CONTROL SYSTEM FOR EMERGENCY VEHICLES" is the bonafide work of "KAVIN KUMAR K., SARAVANAN V., SIBIN S., HARIHARAN R." who carried out the project work under my supervision.

  
SIGNATURE

Dr.R.JEYABHARATH M.E., Ph.D.,

  
SIGNATURE

Dr.R.JEYABHARATH M.E., Ph.D.,

#### HEAD OF THE DEPARTMENT

Professor & Head

Electrical and Electronics  
Engineering,

K S R Institute for Engineering  
and Technology,  
Tiruchengode-637 215.

#### SUPERVISOR

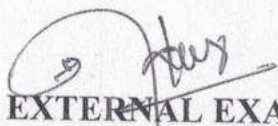
Professor & Head


Electrical and Electronics  
Engineering,

K S R Institute for Engineering  
and Technology,  
Tiruchengode-637 215.

Submitted for the Project work Viva-Voce held on 22-09-2020

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
PRINCIPAL,  
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NAMAKKAL Dt, TAMIL NADU.

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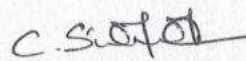
**BONAFIDE CERTIFICATE**

Certified that this project report "ENERGY HARVESTING USING PIEZOELECTRIC SENSOR ARRAY IN ROADWAYS USING IOT" is the bonafide work of "ANBALAGAN M, PRAVEEN D, PREM KUMAR G, SHANKAR NARAYAN M" who carried out the project under my supervision.

  
**SIGNATURE**

Dr.R.JEYABHARATH M.E., Ph.D.,  
**HEAD OF THE DEPARTMENT**

Professor & Head  
Electrical and Electronics Engineering,  
K S R Institute for Engineering and  
Technology,  
Tiruchengode-637215.

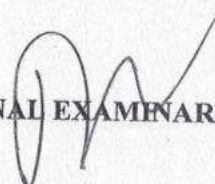
  
**SIGNATURE**


Mr.C.SIVAKUMAR M.E.,  
**SUPERVISOR**

Assistant Professor  
Electrical and Electronics Engineering,  
K S R Institute for Engineering and  
Technology,  
Tiruchengode-637215.

Submitted for the project work Viva-Voce held on 22/09/2020

  
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**EXTERNAL EXAMINAR**

  
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**BONAFIDE CERTIFICATE**

Certified that this project report "MONITORING AND CONTROLLING OF TOXIC GAS IN DRAINAGE SYSTEM USING IOT" is the bonafide work of "MANOJ KUMAR V, MERLIN INFANTA S, PRAKASH SP, SARANYA P" who carried out the project work under my supervision.

  
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Dr. R. JEYABHARATH M.E., Ph.D.,

  
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Mr. M. A. STEPHENRAJ, M.E.,

**HEAD OF THE DEPARTMENT**

Professor & Head

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Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637 215.

**SUPERVISOR**

Assistant Professor

Electrical and Electronics

Engineering,

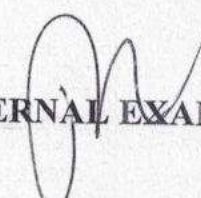
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INTERNAL EXAMINER

  
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### SIGNATURE

Dr. R. JEYABHARATH M.E., Ph.D.,

### HEAD OF THE DEPARTMENT

Professor & head

Electrical and Electronics

Engineering,

K S R Institute for Engineering

And Technology

Tiruchengode-637 215

### SIGNATURE

Dr. C. SANTHA KUMAR M.E., Ph.D.,

### SUPERVISOR

Associate professor

Electrical and Electronics

Engineering,

K S R Institute for Engineering

and Technology

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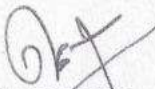
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EXTERNAL EXAMINER

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**BONAFIDE CERTIFICATE**

Certified that this project report "ZONE BASED SPEED CONTROL INELECTRIC VEHICLE" is the bonafide work of "MATHUBALAN S., MUGESH M., PIREETHI A., PREETHA E." who carried out the project work under my supervision.

  
**SIGNATURE**

Dr. R. JEYABHARATH M.E.,Ph.D.,

**HEAD OF THE DEPARTMENT**

Professor & head  
Electrical and electronics  
Engineering,  
K S R institute for Engineering  
and technology  
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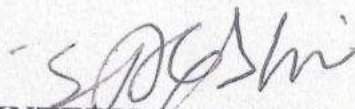
  
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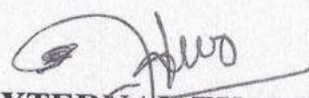
Mrs. R. SACITHRAA M.E.,


**SUPERVISOR**

Assistant professor  
Electrical and electronics  
Engineering,  
K S R institute for Engineering  
and technology  
Thiruchengode-637 215

Submitted for the project work Viva-Voce held on 22.09.2020.

  
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**BONAFIDE CERTIFICATE**

Certified that this project report "HARMONIC MINIMIZATION IN MULTILEVEL INVERTER USING ARDUINO" is the Bonafide work of "BHARATH S, INIYA DHARINI R, JEEVA R, MYTHILI N" who carried out the project under my supervision.

  
SIGNATURE

Dr.R.JEYABHARATH M.E., PH.D.,

**HEAD OF THE DEPARTMENT**

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering and

Technology,

Tiruchengode-637215.

  
SIGNATURE

Mrs.K.MEENATCHI M.E.,

**SUPERVISOR**

Assistant Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering and


Technology,

Tiruchengode-637215.

Submitted for the project work Viva-Voce held on 22/09/2020

  
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Certified that this project report "ROBOT CAR FOR SURVEILLANCE" is the bonafide work of "KARTHIKA DEVI S., LATHA S., LOGESHWARAN V., DINESHKUMAR S" who carried out the project work under my supervision.

  
SIGNATURE

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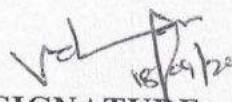
**HEAD OF THE DEPARTMENT**

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering  
and Technology,

Tiruchengode -637 215.

  
SIGNATURE

Dr.S.VELMURUGAN M.E.,Ph.D.,

**SUPERVISOR**

Associate Professor

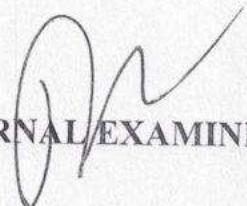
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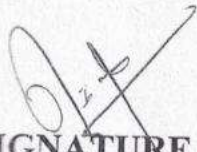
  
EXTERNAL EXAMINER

  
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**ANNA UNIVERSITY :: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "DRIVING LICENCE BASED BIO-AUTHENTICATED SMART VEHICLE" is the bonafide work of "KANIMOZHI V., NAVANEETHAN S., VIVEK V., EMAIYA K." who carried out the project under my supervision.



**SIGNATURE**

Dr. R. JEYABHARATH M.E., PH.D.,

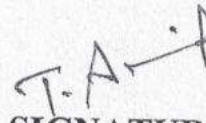
**HEAD OF THE DEPARTMENT**

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering and  
Technology,

Tiruchengode - 637 215.



**SIGNATURE**

Mr. T. ARVIND M.E.,

**SUPERVISOR**

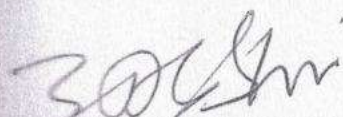
Assistant Professor

Electrical and Electronics Engineering,

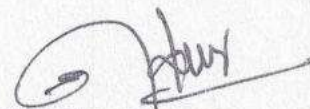
K S R Institute for Engineering and  
Technology,

Tiruchengode - 637 215.


Submitted for the project work Viva-Voce held on 22/09/2020



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



**PRINCIPAL,**  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report titled "IOT BASED ELECTRIC VEHICLE FAST CHARGING WITH TIME OF USE TARIFF" is the bonafide work of "AKILAN G., BOOPATHI M., JANANI T., NANDHINI M." who carried out the project work under my supervision.

  
**SIGNATURE**

Dr. R. JEYABHARATH M.E., Ph.D.,

**HEAD OF THE DEPARTMENT**

Professor & Head

- Electrical and Electronics Engineering,

K S R Institute for Engineering  
and Technology,

Tiruchengode -637 215.

  
**SIGNATURE**

Dr. T. SRIHARI M.E., Ph.D.,

**SUPERVISOR**

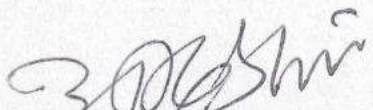
Professor

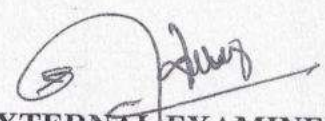
Electrical and Electronics Engineering,

K S R Institute for Engineering  
and Technology,

Tiruchengode -637 215.

Submitted for the Project work Viva-Voce held on 22.09.2020

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

  
**PRINCIPAL.**  
**K. S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL Dt. TAMIL NADU.**

**ANNA UNIVERSITY: CHENNAI 600 025**  
**BONAFIDE CERTIFICATE**

Certified that this project report titled "ONLINE REMOTE MONITORING AND CONTROL OF WIND MILL" is the bonafide work of "AJITHA P., ARAVIND R., BHARATHI KANNAN M R., KAVIYA M" who carried out the project work under my supervision.

  
SIGNATURE

Dr. R. JEYABHARATH, M.E., Ph.D.,

**HEAD OF THE DEPARTMENT**

Professor & Head  
Electrical and Electronics  
Engineering,  
K S R Institute for Engineering  
and Technology,  
Tiruchengode - 637 215.

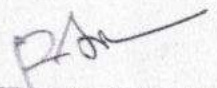
  
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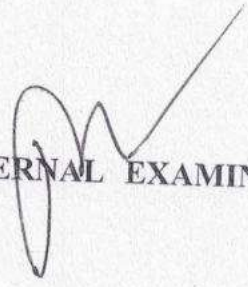
Dr. P. VEENA, M.E., Ph.D.,

**SUPERVISOR**

Professor  
Electrical and Electronics  
Engineering,  
K S R Institute for Engineering  
and Technology,  
Tiruchengode - 637 215.

Submitted for the Project work Viva-Voce held on 22/09/2020

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

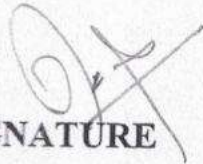
  
**PRINCIPAL,**  
**K S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL Dt. TAMIL NADU.**



# ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report titled "INTELLIGENT BATTERY MANAGEMENT SYSTEM FOR ELECTRIC VEHICLE" is the bonafide work of "JEEVA M., KAMALI SOUNDARYA B., MADHUMITHA J S., RATHNAKUMAR V" who carried out the project work under my supervision.



**SIGNATURE**

Dr. R. JEYABHARATH M.E., Ph.D.,

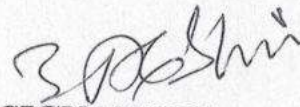
**HEAD OF THE DEPARTMENT**

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering

Tiruchengode-637215.



**SIGNATURE**

Dr. A. MURUGESAN M.E., PH.D.,

**SUPERVISOR**

Associate Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering

Tiruchengode-637215.

Submitted for the project work Viva-Voce held on 22/09/2020



**INTERNAL EXAMINAR**



**EXTERNAL EXAMINAR**

**PRINCIPAL,**  
**K S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL DI, TAMIL NADU.**

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "HERBAL LEAF RECOGNITION  
BASED ON FEATURE EXTRACTION USING RASPBERRY PI" is  
the bonafide work of "GANESH BABU V., MONISHA S., SUJITHA E.,  
KARTHI K" who carried out the project under my supervision.



**SIGNATURE**

Dr.R.JEYABHARATH M.E., Ph.D.,

**HEAD OF THE DEPARTMENT**

Professor

Electrical and Electronics Engineering,

K S R Institute for Engineering

and Technology,

Tiruchengode-637215



**SIGNATURE**

Mr. Y.KALIMUTHUM.E.,

**SUPERVISOR**

Assistant Professor

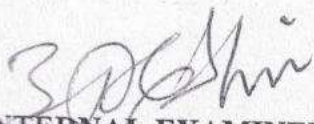
Electrical and Electronics Engineering,

K S R Institute for Engineering

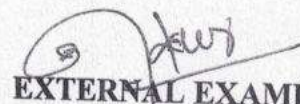
and Technology,

Tiruchengode-637215


Submitted for the project work Viva-Voce held on 22/09/2020



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

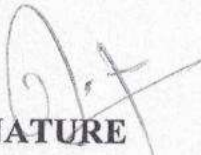


**PRINCIPAL.**  
**K S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL Dt. TAMIL NADU.**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "MICROCONTROLLER BASED  
AUTOMATIC PLANT IRRIGATION SYSTEM" is the bonafide work  
of "SUVETHA T" who carried out the project under my supervision.



**SIGNATURE**

Dr.R.JEYABHARATH M.E., PH.D.,


**HEAD OF THE DEPARTMENT**

Professor & Head

Electrical and Electronics Engineering,

K S R Institute for Engineering and  
Technology,

Tiruchengode - 637215.



**SIGNATURE**

Mrs.K.MEENATCHI M.E,

**SUPERVISOR**

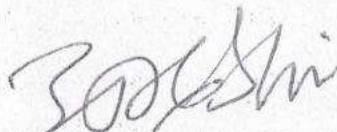
Assistant Professor

Electrical and Electronics Engineering,

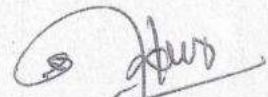
K S R Institute for Engineering and  
Technology,

Tiruchengode - 637215.


Submitted for the project work Viva-Voce held on \_\_\_\_\_



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DT, TAMIL NADU.**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF EEE**  
**IDEA Contest(2019-20)**

S NO	STUDENT NAME	PROJECT TITLE	Concept	Hardware	Total	Remarks
	SUJITHA.					
11	JEEVA.M	MASS DUST COLLECTOR	45	43	88	II
	MADHUMITHA.J.S					
	RATHNAKUMAR.V.V					
	KAMALI SOUNDARYA.B					
12	AJITHA.P	PROSOPIS JULIFLORA PODS MASH FOR BIOFUEL ENERGY PRODUCTION	30	39	69	
	KAVIYA.M					
	BHARATHI KANNAN.M.R					
	ARAVIND.R					
13	VINOTH KUMAR.R	AI BASED DOMESTIC WATER MANAGEMENT SYSTEM	44	43	87	III
14	SAKTHIVEL.P	EELECTRONOC NOTEPAD	40	40	80	
15	GOKULRAJ.P	AUTOMATIC HOME APPLICATIONS	39	38	77	
	SARATHIVASAN.J					
	GOKULRAYAR.R					
16	ATHIF.L	AIR SUSPENSION	35	36	71	
	JAMBUKESH.I					

Jury's Signature

Association Co-ordinator

HOD/EEE

PRINCIPAL,  
**K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL Dt, TAMIL NADU.**



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STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT


Ref No TR-15(4) / 13207


02/12/2019

## Certificate

Certified that **Shri DHATCHANAMOORTHY A, BE(EEE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY , TIRUCHENGODE** has undergone In-plant Training in the area of **ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from **26/11/2019 to 02/12/2019**.



  
R ULAGANATHAN  
DGM(HRD)

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

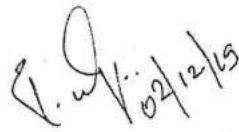
Ref No TR-15(4) / 13211


02/12/2019

## Certificate

Certified that **Shri DEENATHAYALAN G, BE(EEE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE** has undergone In-plant Training in the area of **ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from **26/11/2019 to 02/12/2019**.



  
R ULAGANATHAN  
DGM(HRD)

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

Ref No TR-15(4) / 13209

02/12/2019

## Certificate

Certified that **Shri NAVEEN N, BE(EEE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE** has undergone In-plant Training in the area of **ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from **26/11/2019 to 02/12/2019**.



*[Handwritten Signature]* 02/12/19

R ULAGANATHAN  
DGM(HRD)

*[Handwritten Signature]*  
PRINCIPAL,  
K S R INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

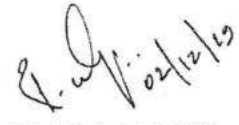
Ref No TR-15(4) / 13210

02/12/2019

## Certificate

Certified that **Shri SAVURIYAPPAN S, BE(EEE), II year student** of **KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE** has undergone In-plant Training in the area of **ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from 26/11/2019 to 02/12/2019.



  
R ULAGANATHAN  
DGM(HRD)

  
PRINCIPAL  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.





स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

Ref No TR-15(4) / 13206

02/12/2019

## Certificate

Certified that **Shri SRIDHAR D, BE(EEE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE** has undergone In-plant Training in the area of **ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from **26/11/2019 to 02/12/2019**.



*R. Ulaganathan*  
02/12/19

R ULAGANATHAN  
DGM(HRD)

✓  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT


Ref No TR-15(4) / 13205

02/12/2019

## Certificate

Certified that *Shri GOKULRAYAR R, BE(EEE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE* has undergone In-plant Training in the area of *ELECTRICAL MAINTENANCE* at Salem Steel Plant during the period from 26/11/2019 to 02/12/2019.



  
R ULAGANATHAN  
DGM(HRD)

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.

सेलम - 636 013 तमिलनाडु  
Salem-636 013 Tamil Nadu

दूरभाष : 0427-238 3021 फॅक्स : 0427-238 2800  
Phone : 0427-238 3021 Fax : 0427-238 2800

ई-मेल : geniadm@sailssp.in  
E-mail : geniadm@sailssp.in

वेबसाईट : www.sail.co.in  
Website : www.sail.co.in



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

Ref No TR-15(4) / 13208


02/12/2019

## Certificate

Certified that *Shri ATHIF L, BE(EEE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE* has undergone In-plant Training in the area of *ELECTRICAL MAINTENANCE* at Salem Steel Plant during the period from 26/11/2019 to 02/12/2019.



*R. Ulaganathan*  
02/12/19  
R ULAGANATHAN  
DGM(HRD)

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
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New Bus Stand, Salem 636 007, INDIA

Tel: 0427 4299444 Email: [infinitepowercontrols@gmail.com](mailto:infinitepowercontrols@gmail.com)

## CERTIFICATE

This is to certify that the following II-Year BE(Electrical And Electronic Engineering). Students from KSR Institute for Engineering and Technology, Tiruchengode .have Undergone inplant traning in our organisation from (22-11-2019 to 30-11-2019) and successfully completed the training.

M/S,

S.Hemalatha,

Reg no: 731618105009

Deg/Branch: BE-EEE

Place: salem

Date:02-12-2019

Infinite power controls



A handwritten signature in green ink, appearing to be "S. Hemalatha".

PRINCIPAL.  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.



# THE INDIA CEMENTS LIMITED SANKARI WORKS

Sankari West P.O., Salem District, Pin : 637 303, Tamil Nadu  
Phone : 04283-240387, Fax : 04283-240051, www.indiacements.co.in  
CIN : L26942TN1946PLC000931



Ref :

Date : .....  
28.12.2019

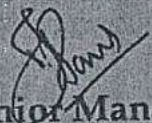
## To whomsoever it May Concern


This is to certify that Ms. Monisa B Second year Electrical and Electronics Engineering student of KSR Institute for Engineering and Technology has undergone In Plant Training in our Organization from 23.12.2019 to 27.12.2019.

In the span of training her involvement to learn was found to be Good.

We wish her a bright Future.

For The India Cements Limited,

  
Senior Manager (HR)

  
PRINCIPAL  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DL, TAMIL NADU.

Extraction. Filtration. Clean Air.

**NAF**

Date : 04/10/2019

Chennai

### CERTIFICATE OF INTERNSHIP


This is to certify that Mugesh M of KSR Institute of Engineering and Technology has done his internship in Electrical Engineering at Neos Air Filtration Private Limited, Chennai from 09/09/2019 to 04/10/2019

He has worked on project for development of circuit drawings, which was used for building control panels for the machine. As part of project, he has designed various line drawings by understanding the circuit flow.

During the internship he demonstrated good knowledge with electrical circuits with a self motivated attitude to learn new things. His Performance exceeded expectations and was able to complete the project successfully on time.


We wish him all the best for his future endeavours

For Neos Air Filtration Pvt Ltd

  
Vignesh D



Senior Engineer

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.

Neos Air Filtration Pvt Ltd

58 D 8th Cross Street Sidco Industrial Estate (NP) Ambattur Chennai 600 098 India  
Tel: +91 44 42104916 Email: info@naf.co.in www.naf.co.in

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**NAF**

Date : 04/10/2019

Chennai

### CERTIFICATE OF INTERNSHIP

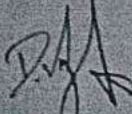
This is to certify that Saravanan V of KSR Institute of Engineering and Technology has done his Internship in Electrical Engineering at Neos Air Filtration Private Limited, Chennai from 09/09/2019 to 04/10/2019

He has worked on project for development of circuit drawings, which was used for building control panels for the machine. As part of project, he has designed various line drawings by understanding the circuit flow.

During the internship he demonstrated good knowledge with electrical circuits with a self motivated attitude to learn new things. His Performance exceeded expectations and was able to complete the project successfully on time.

We wish him all the best for his future endeavours


For Neos Air Filtration Pvt Ltd



Vignesh S

Senior Engineer



  
PROFESSOR  
K. S. R. K. FOR  
ENGINEERING AND TECHNOLOGY  
K. S. R. K. SAGAR,  
TIRUCHENBODE-637 213,  
NAMAKKAL DISTRICT, TAMIL NADU.

Neos Air Filtration Pvt Ltd

55 D St, Cross Street Sector Industrial Estate (NPI) Ambattur Chennai 600 098 India  
Tel: +91 44 42104916 Email: info@naf.co.in www.naf.co.in

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# KSRIET Institute for Engineering and Technology

Tiruchengode, Namakkal(Dt) , Tamil Nadu

(Approved by AICTE New Delhi & Affiliated to Anna University Chennai)

BE (CSE,EEE,ECE,Mech)&B.Tech (IT) Programmes are Accredited by NBA

## 1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)

Academic Year: 2019 - 2020

### B.E. - Electronics and Communication Engineering

S. No.	Name of the Students	Page No.
1.	G.Geetharani	67
2.	S.Hemalatha	68
3.	S.Janarth	69
4.	T.Manjula	70
5.	T.MushidhaSifana	71
6.	K.Anbazhagan	72
7.	V.Booma	73
8.	R.S.Daranidaran	74
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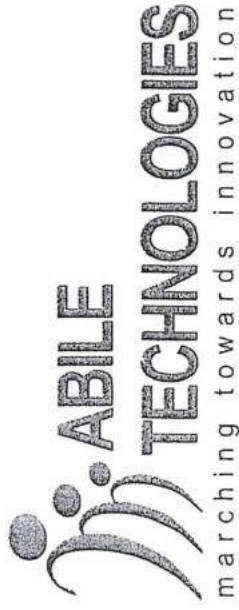
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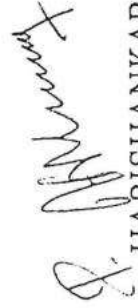
ANBAZHAGIAN.K

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**EMBEDDED SYSTEMS**

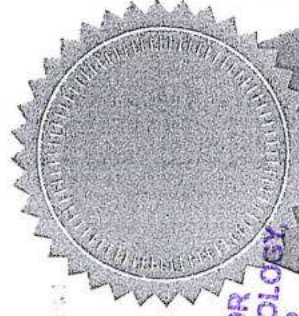
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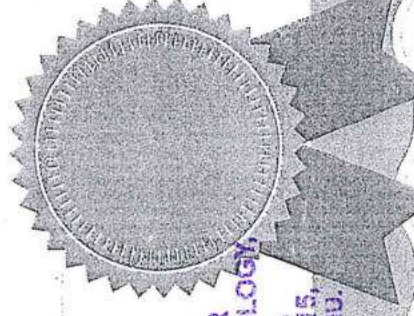
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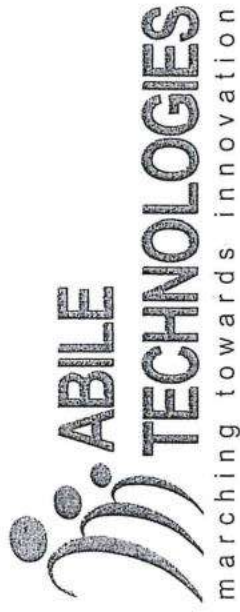
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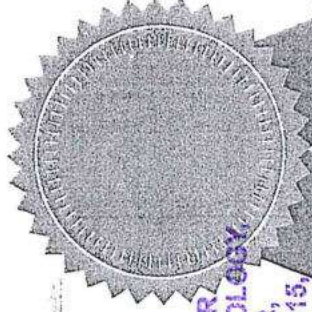
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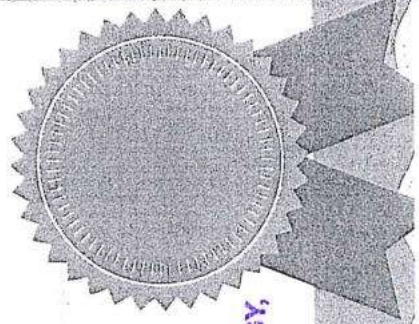
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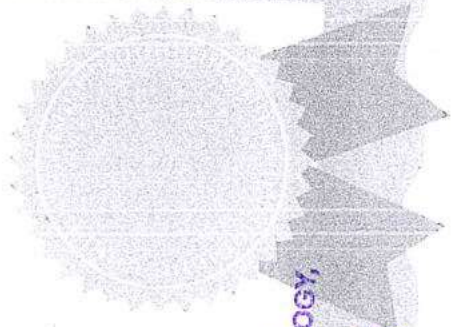
Mr. / Ms *GOKULNATH R*  
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**EMBEDDED SYSTEMS**  
during the period *26.11.2019* to *29.11.2019*

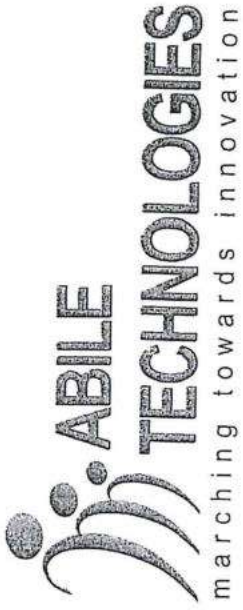


*R. Narasimha*  
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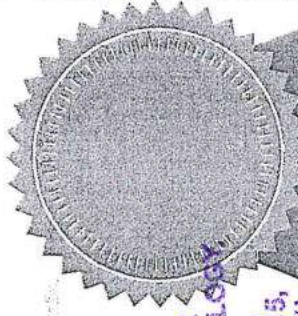
**EMBEDDED SYSTEMS**

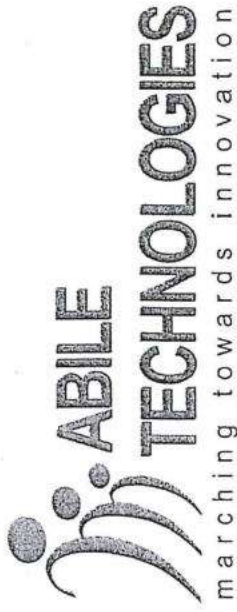
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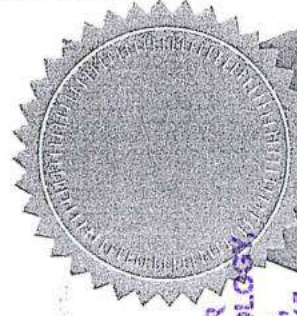


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INDIA





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MUTHULAKSHMI .S

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This is to certify that **Mr. DHANISH V ( Reg. No: 731617106010 )**, Third Year Student of **B.E. – Electronics and Communication Engineering** Department from “**K S R Institute For Engineering And Technology, Tiruchengode**” has undergone **INTERNSHIP** Training in “**VLSI Design**” in our organization from 26/12/2019 to 28/12/2019.

During the training, he has performed excellent in all terms of company regulations with hard work, sincerity, perseverance and diligence. We wish a great endeavour for his carrier.

For Dagslore Technology Solutions,

Project Manager



  
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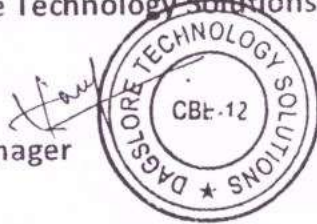
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Department from **“K S R Institute For Engineering And Technology,  
Tiruchengode”** has undergone **INTERNSHIP** Training in **“VLSI Design”** in our  
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During the training, he has performed excellent in all terms of company  
regulations with hard work, sincerity, perseverance and diligence. We wish a  
great endeavour for his carrier.

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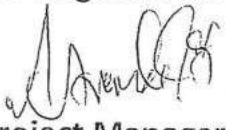
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This is to certify that **Mr. D. KISHORE ( Reg. No: 17IETEC034 )** , Third Year Student of **B.E. – Electronics and Communication Engineering** department from **“K S R Institute For Engineering And Technology , Tiruchengode”** has undergone **INTERNSHIP Training in “Product Development using Embedded System”** in our organization from 27/11/2019 to 29/11/2019.

During the training, he has performed excellent in all terms of company regulations with hard work, sincerity, perseverance and diligence. We wish a great endeavor for his carrier.

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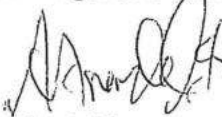
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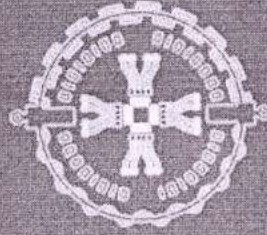
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Date: 05/12/2019

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This is to certify that **Mr.N.Dhanushkodi (731617106011)**, a student of III year B.E – Department of Electronics and Communication Engineering, KSR Institute for Engineering and Technology, Namakkal, Tamil Nadu has successfully completed (From 28th November, 2019 to 30th November, 2019) In-plant Training programme at **T-PEP**. During the period of his In-plant Training programme with us, he was found punctual, hardworking and good behavior.

We wish him every success in life

  
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For T-PEP  
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Mail: [info.tpep@gmail.com](mailto:info.tpep@gmail.com)

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We wish him every success in life

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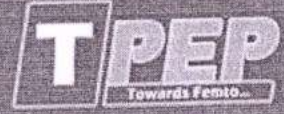
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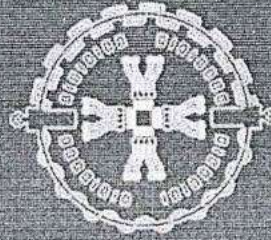
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108, 1<sup>st</sup> Floor, Bharathiar Road, Aiswarya Avenue, Ganapathy, Coimbatore – 641 006.

Website: [www.tpep.co.in](http://www.tpep.co.in)

Mail: [info.tpep@gmail.com](mailto:info.tpep@gmail.com)

Phone: +91 97153 07957.



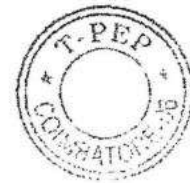
Ref: TPEP/IPT/501

Date: 05/12/2019

### TO WHOM IT MAY CONCERN

This is to certify that **Ms.N.Kamalini (731617106028)**, a student of III year B.E – Department of Electronics and Communication Engineering, KSR Institute for Engineering and Technology, Namakkal, Tamil Nadu has successfully completed (From 28th November, 2019 to 30th November, 2019) In-plant Training programme at **T-PEP**. During the period of her In-plant Training programme with us, she was found punctual, hardworking and good behavior.

We wish her every success in life



For T-PEP  
Authorized Signatory

Trusted Portable Electro Point

#### TPEP

Research and Product Development

108, 1<sup>st</sup> Floor, Bharathiar Road, Aiswarya Avenue, Ganapathy, Coimbatore – 641 006.

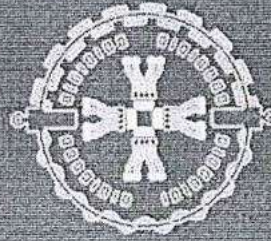
Website: [www.tpep.co.in](http://www.tpep.co.in)

Mail: [info.tpep@gmail.com](mailto:info.tpep@gmail.com)

+91 97153 07957.

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. NAGAR,  
TIRUCHENGODE - 637 210,  
NAMAKKAL DISTRICT, TAMIL NADU.



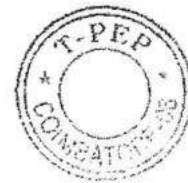


Ref: TPEP/IPT/498  
Date: 05/12/2019

### TO WHOM IT MAY CONCERN

This is to certify that **Ms.R.Manimala (731617106037)**, a student of III year B.E – Department of Electronics and Communication Engineering, KSR Institute for Engineering and Technology, Namakkal, Tamil Nadu has successfully completed (From 28th November, 2019 to 30th November, 2019) In-plant Training programme at **T-PEP**. During the period of her In-plant Training programme with us, she was found punctual, hardworking and good behavior.

We wish her every success in life



For T-PEP  
Authorized Signatory

Trusted Portable Electro Point

#### TPEP

Research and Product Development

108, 1<sup>st</sup> Floor, Bharathiar Road, Aiswarya Avenue, Ganapathy, Coimbatore – 641 006.

Website: [www.tpep.co.in](http://www.tpep.co.in)

Mail: [info.tpep@gmail.com](mailto:info.tpep@gmail.com)

Phone: +91 97153 07957.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. 75-157,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.

Ref: CARNETTS/HR/20/2019-20

Date : 6/12/2019

**TO WHOM SO EVER IT MAY CONCERN**

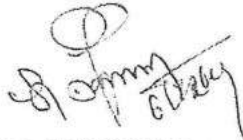
This is to certify that Mr.DINNESH.P, Reg No: 731617106015, his doing B.E (ECE) III Year at KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY in Tiruchengode has successfully completed his "INPLANT TRAINING" in our service factory during the period from 25.11.2019 to 29.11.2019.

During the period his behaviour and approach was good.

We wish all success in his future life.


Yours Faithfully,

For CARNETTS ALL CAR SERVICE FACTORY,



S.SAKTHIKUMAR ,M.E.,(P.hd).,  
Managing partner

CARNETTS  
ALL CAR SERVICE FACTORY  
RTO OFFICE,  
KOOTAPALLI,  
TIRUCHENGODE - 637214



PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.





ALL CAR SERVICE FACTORY

Opp Canara bank, Varagurampatti,  
Near RTO office, Kootapalli,  
Tiruchengode - 637214  
Ph: 9003231213  
Carnettsthiruchengode@gmail.com

Ref: CARNETTS/HR/21/2019-20

Date : 6/12/2019

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Miss.HEMAHARINIS, Reg No: 731617106023, his doing B.E (ECE) III Year at KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY in Tiruchengode has successfully completed his "INPLANT TRAINING" in our service factory during the period from 25.11.2019 to 29.11.2019.

During the period his behaviour and approach was good.

We wish all success in his future life.

Yours Faithfully,

For CARNETTS ALL CAR SERVICE FACTORY,

S.SAKTHIKUMAR ,M.E.,(P.hd).,  
Managing partner

CARNETTS  
ALL CAR SERVICE FACTORY  
Kootapalli,OPP. OLD RTO OFFICE,  
Tiruchengode - TA,  
Namakkal (Dt) - 637 214.

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.



Saturday, 30<sup>th</sup> November 2019

## Certificate of Internship

### To Whomsoever It May Concern

This is to certify that M/s S.Keerthana, B.E.(ECE) student of KSR Institute For Engineering and Technology, Tiruchengode; has successfully completed her internship program, starting from 25<sup>th</sup> november 2019 to 30<sup>th</sup> november 2019 at Mallow Technologies Private Limited, Karur.

During the internship, S.Keerthana was trained in android platform and given practical exposure and experience in handling business tasks professionally. Her performance during the internship was good. she has good coding skills and also found to be punctual, responsible and inquisitive.

We wish her every success in her life and career .

Warm Regards



HR Team,

Mallow Technologies Private Limited.



Regd.Office:S.F.No:535, Salem Bypass Road,  
Semmada, Karur -639006.

Admin.Office:No.62, Vivekananda Nagar Main Road  
Sengunthapuram, Karur - 639006.



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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
TAMIL NADU

# KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY

( Department of ECE )

## Implant Training report

Date:23/01/2020

ACADEMIC YEAR:2019-2020

YEAR:2017-2021

SEMESTER:EVEN

DATE OF TRAINING:02-12-2019 To 04-12-2019

AREA:SZIVA ELTEC (Ooty)

During the visit in the SZIVA ELTEC- ooty the chief engineer offered as a several companies which are all under the control of him

### 1.RADIO ASTRONOMY CENTRE:

The ooty astronomy centre helped us to learn the reception site of signal from the space and it's mostly used for receiving the image from the space

### 2. PYKARA POWER PLANT:

It's helps us to know how the electricity is generated from the water and what are the process required to transmit the power over a long distance

Yours faithfully

KEERTHIVASAN N



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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.

Date: 03/12/2019

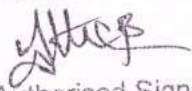
**INTERNSHIP CERTIFICATE**


This is to inform that **Mr. NAVEEN S.S**, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of **K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY**, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, he has learned the overview concepts of **ARTIFICIAL INTELLIGENCE**.

Thanking You.

For APPIN TECHNOLOGY LAB,

  
Authorised Signatory.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.

Date: 03/12/2019

**INTERNSHIP CERTIFICATE**


This is to inform that Ms. PARKAVI P, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, She has learned the overview concepts of MACHINE LEARNING.

Thanking You.

For APPIN TECHNOLOGY LAB,

  
Authorised Signatory.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALF NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt., NASSCOM

144, Sengupta Street, Near Hotel City Towers,  
Ram Nagar, Coimbatore - 641009.

T : 0422 450 2000 • M : +91 - 77080 40308  
www.appincoimbatore.com • E: info@appincoimbatore.com



NPTEL



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UNITED STATES DISTANCE LEARNING ASSOCIATION

Date: 03/12/2019

INTERNSHIP CERTIFICATE

This is to inform that Ms. PREMELA R, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, she has learned the overview concepts of ARTIFICIAL INTELLIGENCE.

Thanking You.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.

For APPIN TECHNOLOGY LAB

  
Authorised Signatory

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Ram Nagar, Coimbatore - 641009.

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Date: 03/12/2019

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This is to inform that Ms. RAMYA S, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, she has learned the overview concepts of DATA SCIENCE.

Thanking You.

Attest



PRINCIPAL,  
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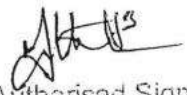
**INTERNSHIP CERTIFICATE**

This is to inform that Ms. SANTHIYA T, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, she has learned the overview concepts of **ARTIFICIAL INTELLIGENCE**.

Thanking You.

For APPIN TECHNOLOGY LAB,

  
Authorised Signatory.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 627 315,  
NAMAKKAL Dt, TAMIL NADU.

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Ram Nagar, Coimbatore - 641009.

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Technology Lab

Date: 03/12/2019

## INTERNSHIP CERTIFICATE

This is to inform that Mr. SRIDHARAN M, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K. S. R. INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, he has learned the overview concepts of MACHINE LEARNING.

Thanking You

APPIN TECHNOLOGY LAB

Authorized Signatory

**PRINCIPAL,**  
**K. S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE - 637 215,**  
**NAMAKKAL Dt, TAMIL NADU.**

144, Sengupta Street, Near Hotel City Towers,  
Rani Nagar, Coimbatore - 641009

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Date: 03/12/2019

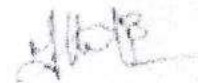
INTERNSHIP CERTIFICATE

This is to inform that Mr. SRINIVASAN A, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.


During this Internship training, he has learned the overview concepts of MACHINE LEARNING.

Thanking You

For APPIN TECHNOLOGY LAB



Authorized Signatory



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K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 687 215,  
NAMAKKAL DI, TAMIL NADU.



Date: 03/12/2019

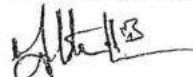
**INTERNSHIP CERTIFICATE**


This is to inform that **Mr. SRINIVASAN S.R**, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of **K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY**, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, he has learned the overview concepts of **MACHINE LEARNING**.

Thanking You.

For APPIN TECHNOLOGY LAB,

  
Authorised Signatory.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DIST, TAMIL NADU.

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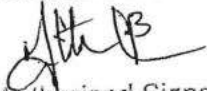
**INTERNSHIP CERTIFICATE**


This is to inform that **Mr. SWEETLIN JOSHVA A**, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of **K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY**, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, She has learned the overview concepts of **ARTIFICIAL INTELLIGENCE**.

Thanking You.

For APPIN TECHNOLOGY LAB,

  
Authorised Signatory.

  
PRINCIPAL,  
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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
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NAMAKKAL DISTRICT, TAMIL NADU.

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Ram Nagar, Coimbatore - 641009.

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Date: 03/12/2019

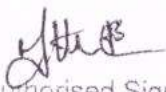
**INTERNSHIP CERTIFICATE**


This is to inform that Ms. SWETHA G.P, 3<sup>rd</sup> year B.E., Electronics & Communication Engineering student of K S R INSTITUTE FOR ENGINEERING & TECHNOLOGY, Tiruchengode, has attended Internship training in our organization from November 27<sup>th</sup> 2019 to December 03<sup>rd</sup> 2019.

During this Internship training, she has learned the overview concepts of ARTIFICIAL INTELLIGENCE.

Thanking You.

For APPIN TECHNOLOGY LAB,

  
Authorised Signatory.

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.





**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**  
**TIRUCHENGODE**

Department of Electronics and Communication Engineering

**IN PLANT TRAINING REPORT**

DATE: 10/12/2019,

**REPORTED BY:**

Shanmathi.M.M,

Yasodha.P,

Sindhuja.K,

Third year,

Department of Electronics and Communication Engineering.

The **HOD**,

Department of Electronics and Communication Engineering.

Respected Sir,

Sub: Report on the Six-day In plant Training-Reg.

On receiving the Call Of Permission From SALEM SOUTHERN RAILWAY,SALEM I have went on the In plant Training to the SALEM SOUTHERN RAILWAYat Old suramangalam, salem, from 26/11/2019to 1/12/2019sfn. On 6 days of Training I have reached the company at 9am and left the premises at 4.30pm.

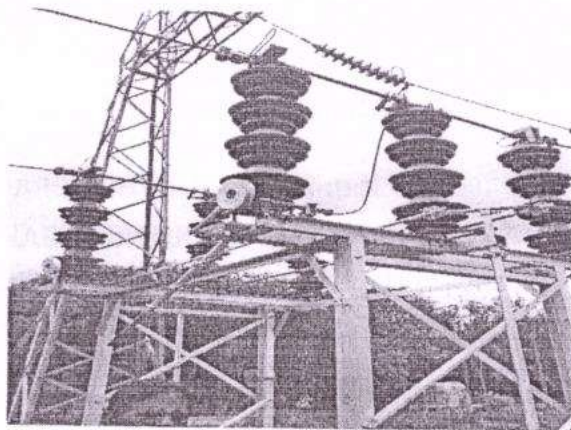
Our schedule on SALEM SOUTHERN RAILWAY training is that

<b>DAY</b>	<b>TOPICS</b>	<b>LOCATION</b>
26/11/2019	Grid power supply	Salem southern railway
27/11/2019	SCADA	Salem southern railway
28/11/2018	Signal and communication	Salem southern railway
29/11/2018	Control unit	Salem southern

  
PRINCIPAL.  
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		railway
30/11/2018	Power station	Salem southern railway
01/12/2018	Transformer and division of electricity supply	Salem southern railway

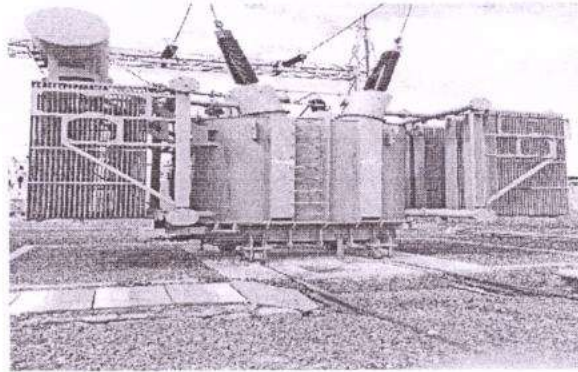
On the first day of my training under the topics, I got theoretical knowledge about the supply of power to the train, manufacturing of track, simulation for the control unit training, parts of the train etc. After that I went to the main control unit, In that shop I have observed how they are turning off and on the power supply to the train when the fault is identified by the field workers. After that I went to scada unit which is a vast area to know, In that area two EEE branch employees thought the signal transmission and delay of signals. On the second day of my training, they thought me how they note the arrival of time of train and make a bill on it. On the third day of my training, they thought me about the wires used to supply electricity to electrical train and also they thought us procedure of railway rules.



On 4<sup>th</sup> and 5<sup>th</sup> day of my training, they thought me about complete procedure of signal transmission and communication, they give us a better view of On 6<sup>th</sup>

  
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**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR.**

day of my training , they thought the procedure of power supply to the all divisions of railway.



I thank my HOD who motivated me to go on the training ,the faculty members who guided us and the officials who explained the various sectors


**Thanking you**

**Yours Faithfully,**

Shanmathi.M.M,

Yasodha.P,

Sindhuja.K,

  
PRINCIPAL.  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DL. TAMIL NADU.



ASHOK LEYLAND

28/12/2019

**CERTIFICATE**

This is to certify that **TEJASWINI S** Reg No: **(731617106082)** pursuing **B.E ECE** at **K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY , NAMAKKAL** has undergone **In-Plant** training at our Ashok Leyland, Unit-II, Hosur between **16/Dec/2019** and **21/Dec/2019**.

**S Ravichandran**

**AGM-WR**

**PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.**

**ASHOK LEYLAND LIMITED**

77 Sipcot Electronics Complex, Phase II, Kurudapalli, Hosur - 635 109 India

T: +91 4344 269200 F: +91 4344 260046

E: [rsachari@ashokleyland.com](mailto:rsachari@ashokleyland.com)

Regd. Office No. 1 Sardar Patel Road Gundy,

Chennai - 600 032 India T: +91 44 2220 6000 F: +91 44 2220 6001

CIN: L34101TN1948PLC000105

[www.ashokleyland.com](http://www.ashokleyland.com)

# भारत संचार निगम लिमिटेड

(भारत सरकार का उद्यम)

## BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)

No. 0825

ईरोड एसएसए / ERODE SSA

**OFFICE OF THE GENERAL MANAGER, ERODE - 638 001.**

This is to certify that **P. JOY PRINCEY**.....

**UP 2018-2022** year Student of **K.S.R. Institute for Engineering and Technology, Tiruchengode,**

with Roll No. **18IETECON** has undergone the Training on **Fundamentals of Telecom**

from **25.11.2019** to **29.11.2019**... in this organisation.

Date : **29.11.2019**

Place : Erode.

**PRINCIPAL**  
**K. S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215.**  
**NAMAKKAL DE TAMIL NADU**

**P. Jeyaraj**  
Asst. General Manager (Admin & HR)  
O/o. General Manager, BSNL,  
Erode - 638 001.

# BSNL



# भारत संचार निगम लिमिटेड

(भारत सरकार का उद्यम)

## BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)

ईरोड एसएसए / ERODE SSA

No. 0827

**OFFICE OF THE GENERAL MANAGER, ERODE - 638 001.**

BSNL

BSNL

This is to certify that .....J. D.H.V.I.N..R.I.T.H.I.K......

20.18.2022 Year Student of K.S.R.Institute.for.Engineering.and Technology, Tiruchengode.

with Roll No. 18.I.E.T.2009 has undergone the Training on Fundamentals of Telecom

from 25.11.2019..... to 29.11.2019.... in this organisation.

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DT, TAMIL NADU.

Date : 29-11-2019 >

Place : Erode.

Asst. General Manager (Admn & HR)  
O/o. General Manager, BSNL,  
Erode - 638 001.



# भारत संचार निगम लिमिटेड

(भारत सरकार का उद्यम)

## BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)

ईरोड एसएसए / ERODE SSA

No. 0828

**OFFICE OF THE GENERAL MANAGER, ERODE - 638 001.**

# BSNL

# BSNL

This is to certify that *..... G. RANJITH .....*

*2018-2022 Year Student of K.S.R. Institute for Engineering and Technology, Tiruchengodes with Roll No. 18IETE002514 has undergone the Training on Fundamentals of Telecom*

*from 25.11.2019..... to 29.11.2019... in this organisation.*

*S. Jeyaraj*  
Asst. General Manager (Admin & HR)  
O/o General Manager, BSNL  
Erode - 638 001

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.

Date : 29.11.2019,

Place : Erode.



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALAM STEEL PLANT

Ref No TR-15(4) / 13215

03/12/2019

## Certificate

Certified that *Ms AMUTHA K, BE(ECE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE* has undergone In-plant Training in the area of **CENTRALISED ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from 27/11/2019 to 03/12/2019.



R. ULAGANATHAN  
DGM(HRD)

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.





स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

Ref No TR-15(4) / 13216

03/12/2019

## Certificate

Certified that *Shri THANGARAJ K, BE(ECE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE* has undergone In-plant Training in the area of *CENTRALISED ELECTRICAL MAINTENANCE* at Salem Steel Plant during the period from *27/11/2019* to *03/12/2019*.



*R. Ulaganathan*  
03/12/19  
R ULAGANATHAN  
DGM(HRD)

*[Signature]*  
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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
सेलम इस्पात संयंत्र  
SALEM STEEL PLANT

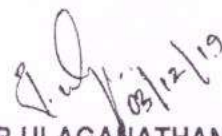
Ref No TR-15(4) / 13217


03/12/2019

## Certificate

Certified that **Shri PRASANTH S, BE(ECE), II year student of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY TIRUCHENGODE** has undergone In-plant Training in the area of **CENTRALISED ELECTRICAL MAINTENANCE** at Salem Steel Plant during the period from **27/11/2019 to 03/12/2019**.



  
R ULAGANATHAN  
DGM(HRD)

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DT, TAMIL NADU.



RITS Consulting & Technologies Pvt Ltd,  
100 G Upkar Royal Garden,  
Hosur, Tamilnadu.

15/10/2019

**Private and confidential**

**Mr. Abdulkadhar**  
173, Krishna Nagar, Second cross,  
Ammamet, Salem - 3  
Contact number: +91-904 702 0303

Dear Abdulkadhar,

**Congratulations!**

Subsequent to the interview you had with us on 06-Oct-2019, We are pleased to inform you that you have been provisionally selected for "Intern with Job Offer" with RITS Consulting & Technologies Private Ltd.

You will be in our regular role as "Intern" from Dec 02, 2019 to Mar 31, 2020 . You will receive a stipend of Rs.7,500 (Rupees Seven Thousand and Five Hundred) per month during the period of your on-Intern training.

You will be probation for 3 months after successful completion of your Intern and your continued participation in the Probation will be dependent upon successful completion of courses and learning objectives as scheduled in the training plan.

On your successful completion of the probation, you will be offered a permanent position as "Software Engineer" in RITS Consulting & Technologies Pvt Ltd at any of our locations in India, which will be informed to you during confirmation and Salary would revised according to industry standards of 1.8L/A to 2.2L/A and your individual performance.

Being Intern with Job offer, you are required to sign a BOND for two years from the day of Internship. Post internship, you are required to Join on June, 1, 2020. In case, if you decline to Join RITS then you agree to pay back the received Stipend and Training fees of INR 50,000. In case of poor performance, RITS will issue an notice before termination. Termination would be given with 15 days notice.

You will be entitled to bank holidays after the probation period. Incase, if you are leaving the organization after your job confirmation then you would require giving 3 months of notice period.

You are required to log 9 hours/day and 45 hours/week and your working calendar at RITS, Bangalore would be Mon-Fri. However on deployment of customer place / Project, you would required to follow the customer calendar.

We would be pleased to furnish you with any further information or clarify your queries. We congratulate you once again on your success. Looking forward to a mutual regarding association.

Kindly produce the signed copy of the offer letter on the day of joining.

Best Regards,

For RITS Consulting & Technologies Pvt. Ltd.

For Candidate

S.Suresh  
Head – Digital Manufacturing, HR & Admin.

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TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.



RITS Consulting & Technologies Pvt Ltd,  
100 G Upkar Royal Garden,  
Hosur, Tamilnadu.

15/10/2019

**Private and confidential**

**Mr. Brahadeeshwaran M**

70-1/6, Murugesan Lane, VOC Nagar,  
Cauvery RS (PO), Erode - 638 007  
Contact number: +91-72000 15777

Dear Brahadeeshwaran,

**Congratulations!**

Subsequent to the interview you had with us on 06-Oct-2019, We are pleased to inform you that you have been provisionally selected for "Intern with Job Offer" with RITS Consulting & Technologies Private Ltd.

You will be in our regular role as "Intern" from Dec 02, 2019 to Mar 31, 2020. You will receive a stipend of Rs.7,500 (Rupees Seven Thousand and Five Hundred) per month during the period of your on-Intern training.

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Kindly produce the signed copy of the offer letter on the day of joining.

Best Regards,

For RITS Consulting & Technologies Pvt. Ltd.

S.Suresh  
Head - Digital Manufacturing, HR & Admin.

For Candidate

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NAMAKKAL DI, TAMIL NADU.



RITS Consulting & Technologies Pvt Ltd,  
100 G Upkar Royal Garden,  
Hosur, Tamilnadu.

15/10/2019

**Private and confidential**

**Ms. Santhiya G**

58/77, mariyamman kovil Street, Konganpalayam  
Chithode, Erode – 638 102,  
Contact number: +91-98945 06558

Dear Santhiya,

**Congratulations!**

Subsequent to the interview you had with us on 06-Oct-2019, We are pleased to inform you that you have been provisionally selected for "Intern with Job Offer" with RITS Consulting & Technologies Private Ltd.

You will be in our regular role as "Intern" from Dec 02, 2019 to Mar 31, 2020 . You will receive a stipend of Rs.7,500 (Rupees Seven Thousand and Five Hundred) per month during the period of your on-Intern training.

You will be probation for 3 months after successful completion of your Intern and your continued participation in the Probation will be dependent upon successful completion of courses and learning objectives as scheduled in the training plan.

On your successful completion of the probation, you will be offered a permanent position as "Software Engineer" in RITS Consulting & Technologies Pvt Ltd at any of our locations in India, which will be informed to you during confirmation and Salary would revised according to industry standards of 1.8L/A to 2.2L/A and your individual performance.

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You are required to log 9 hours/day and 45 hours/week and your working calendar at RITS, Bangalore would be Mon-Fri. However on deployment of customer place / Project, you would required to follow the customer calendar.

We would be pleased to furnish you with any further information or clarify your queries. We congratulate you once again on your success. Looking forward to a mutual regarding association.

Kindly produce the signed copy of the offer letter on the day of joining.

Best Regards,

For RITS Consulting & Technologies Pvt. Ltd.

S.Suresh  
Head – Digital Manufacturing, HR & Admin.

For Candidate

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NAMAKKAL Dt. TAMIL NADU.

# Sri Selvakumaran Industries

Prof. Moorthy Selvakumaran  
Chief Executive Officer

240, Kannudaiyampalayam, Ganapathypalayam  
Erode - 638 153, Tamil Nadu, India.  
Ph : 0424 - 2351766 Mob : 94444 34118, 96553 21216  
selvaec@gmail.com www.selvakumaran.in

Date : 27/03/2020

Ref:

Date:27.03.2020

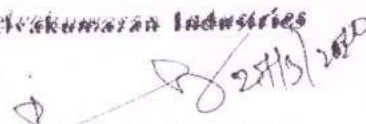
## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Abishek T, Mr. Adhithya Kumar M, Mr. Anantha Krishnan P , Mr. Durairaj S, S Bachelor of engineering (ECE) final year students of KSR Institute for Engineering and Technology –Tiruchengode has done project Work in the company on “Automatic Fertilizer Spraying Controller” under the guidance of Mr. Moorthy Selvakumaran, Technical support, Selvakumaran Industries, Erode. Towards the fulfillment of the award of “Bachelor of Engineering” during the Period 07.02.2020 to 27.03.2020.


All the necessary details were provided from our Side for the establishment of this project we wish you very best all in your future endeavors

Selvakumaran Industries

For Sri Selvakumaran Industries

  
Authorized Signatory Proprietor



  
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## TO WHOMSOEVER IT MAY CONCERN

This is to inform you that Ms.Poornima N. Ms.Priyadharshini M , Mr.Shyam sundar R, Ms. Srimathi G, Students of Final year Department of Electronics and Communication Engineering of KSR Institute for Engineering And Technology has successfully completed their "INTERNSHIP" program in our organization

Project Topic: **Biometric Finger Print System Used For Vehicle Documents Verification**

Period: 05.02.2020 to 14.03.2020

We wish you success in your future endeavors

Thanks and Regards.

  
Authorized Signatory.

  
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K. S. R. INSTITUTE FOR  
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K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 627 215,  
NAMAKKAL Dt, TAMIL NADU.

GSTIN No. : 33AADCE 9083 H1Z1 | CIN No. : U72300T22015PTC021189

# 88 & 89, SSN Square, Peelamedu Pudur, Coimbatore - 641 004, Tamilnadu, India.  
Te : +91 - 422 - 4217197 | E : info@enthutech.in | W : www.enthutech.in

# SELF NAVIGATED DUSTBIN DISPENSARY SYSTEM FOR SMART CITIES

A PROJECT REPORT

*Submitted by*

NANDHAKUMARAN R (731616106046)  
NAVEEN K (731616106048)  
SYED SALMAN N (731616106075)  
THAMARA KANNAN A S (731616106077)

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

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE-637 215**

**ANNA UNIVERSITY :: CHENNAI 600 025**

APRIL 2020



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TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.



**FINGERPRINT BASED MEDICAL INFORMATION  
AND ONLINE FIRST-AID RECOMMENDER FOR  
EMERGENCY**

**A PROJECT REPORT**

*Submitted by*

**PRAVEENA M (731616106052)**  
**PRIYADHARSHINI S (731616106054)**  
**VIGNESH R (731616106082)**  
**YOGESH S (731616106084)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*IN*


**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
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AUGUST 2020

  
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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.**

**IOT BASED FERTILIZER INJECTOR FOR  
AGRICULTURAL PLANT WITH ANALYZING  
SYSTEM**

**A PROJECT REPORT**

*Submitted by*

<b>PRIYANKA C</b>	<b>(731616106056)</b>
<b>RAMYA SRI E</b>	<b>(731616106058)</b>
<b>SHOWMIYA M</b>	<b>(731616106067)</b>
<b>THARANYA P</b>	<b>(731616106080)</b>

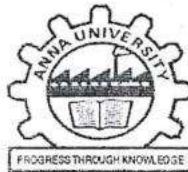
*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*


**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
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APRIL 2020

  
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TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.**

**LCD AUTOMATIC COLLEGE BELL USING ARDUINO  
MICROCONTROLLER**

**A PROJECT REPORT**

*Submitted by*

**DIVYA S**

**(731616106502)**

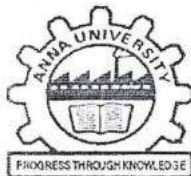
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*of*

**BACHELOR OF ENGINEERING**

**in**

**ELECTRONICS AND COMMUNICATION ENGINEERING**



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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**

# SMART HOME SYSTEM USING IOT

## A PROJECT REPORT

*Submitted by*

**RANJITH.V** (731616106059)

**SANTHOSHKUMAR.J** (731616106063)

**THANGARAJ.J** (731616106078)

**VIMALKUMAR.R** (731616106083)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



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NAMAKKAL DI, TAMIL NADU.

# IOT ENABLED AIR POLLUTION MONITORING

A PROJECT REPORT

*Submitted by*

MUGILAN M	[731616106043]
SATHYAMOORTHY K	[731616106064]
SURYAR	[731616106074]

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**



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NAMAKKAL Dt, TAMIL NADU.**

**FINGERPRINT BASED SECURITY LOCK FOR BIKE IGNITION AND  
HOME ALERT USING GSM**

**A PROJECT REPORT**

*Submitted by*

<b>ROSHINI T</b>	<b>(731616106060)</b>
<b>TAMILARASI S</b>	<b>(731616106076)</b>
<b>NANDHAKUMAR P</b>	<b>(731616106045)</b>
<b>SAKTHIPRIYA S</b>	<b>(731616106061)</b>

*in partial fulfillment for the award of the degree*

*of*

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*IN*

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TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**

# MULTIPURPOSE ROBOT USED IN AGRICULTURE

## A PROJECT REPORT

*Submitted by*

NARESH KUMAR S	[731616106047]
SELLAKRISHNARAJA S	[731616106065]
SHARVESH RAM K.R	[731616106066]
THANGAVEL P	[731616106079]

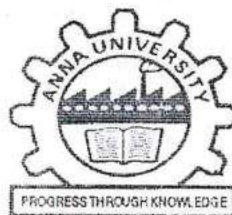
*in partial fulfillment for the award of the degree*

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**IN**

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NAMAKKAL Dt, TAMIL NADU.**

**BIOMETRIC FINGER PRINT SYSTEM USED FOR  
VEHICLE DOCUMENTS VERIFICATION**

**A PROJECT REPORT**

*Submitted by*

<b>N.POORNIMA</b>	<b>(731616106051)</b>
<b>M.PRIYADHARSHINI</b>	<b>(731616106053)</b>
<b>R.SHYAM SUNDAR</b>	<b>(731616106068)</b>
<b>G.SRIMATHI</b>	<b>(731616106069)</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
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**ANNA UNIVERSITY :: CHENNAI 600 025**

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.**



# LANE DEPARTURE WARNING SYSTEM (LDWS)

A PROJECT REPORT

*Submitted by*

NIVETHA S (731616106049)

PRIYADHARSHNI P (731616106055)

SANTHIA G (731616106062)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.

**HEALTH MANAGEMENT OF CROP PRECISION  
USING SMART FARMING TECHNOLOGIES WITH  
IoT**

**A PROJECT REPORT**

*Submitted by*

<b>DINESH KRISHNA S</b>	<b>731616106019</b>
<b>GOWTHAM M</b>	<b>731616106024</b>
<b>LAKSHMANAN R</b>	<b>731616106035</b>
<b>LOGESH KUMAR K</b>	<b>731616106036</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**

# ACCIDENT ALERT SYSTEM USING IOT

A PROJECT REPORT

*Submitted by*

KARTHIKEYAN S (731616106032)

KARTHIKEYAN V (731616106033)

MAHESWARAN J (731616106037)

*In partial fulfillment for the award of the degree*

*Of*

BACHELOR OF ENGINEERING

*in*

ELECTRONICS AND COMMUNICATION ENGINEERING




K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.

**A COMPACT MULTIBAND SELF ISOLATED ANTENNA  
FOR 5G mm WAVE APPLICATION USING MIMO**

**A PROJECT REPORT**

*Submitted by*

**N.M.AKSHAYA (731616106005)**  
**S.BHAVYASHREE (731616106012)**  
**P.ISWARYA (731616106028)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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**APRIL:2020**

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**K. S. R. INSTITUTE FOR**  
**ENGINEERING AND TECHNOLOGY,**  
**K. S. R. KALVI NAGAR,**  
**TIRUCHENGODE-637 215,**  
**NAMAKKAL DI, TAMIL NADU.**

**SMART WALKING STICK FOR VISUALLY  
CHALLENGED PEOPLE**

**A PROJECT REPORT**

*Submitted by*

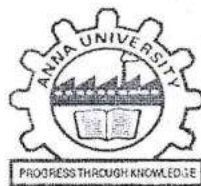
**ASWIN S (731616106009)**  
**BHAVYA D (731616106011)**  
**DHIVYA T (731616106018)**  
**MALATHI A S (731616106038)**

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

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.**

# **ELECTRONIC VOTING MACHINE USING ATMEGA**

**A PROJECT REPORT**

*Submitted by*

**ANANTH N (731616106006)**

**ELANGO VAN V (731616106022)**

**GOKULAKRISHNAN A (731616106023)**

**INDIRAKUMAR M (731616106027)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NAU.**

**SMART REAL TIME DRAINAGE MONITORING  
AND CONTROLLING SYSTEM USING ARDUINO**

**A PROJECT REPORT**

*Submitted by*

<b>DIVYA T</b>	<b>731616106020</b>
<b>MEENA A</b>	<b>731616106040</b>
<b>MEKALAI K</b>	<b>731616106041</b>

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

**BACHELOR OF ENGINEERING**

*in*


**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
TIRUCHENGODE-637 215**

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**APRIL 2020**

  
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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.**

# TEMPERATURE PREDICTION BY MACHINE LEARNING USING BOLT CLOUD

A PROJECT REPORT

*Submitted by*

BALAJI R (731616106010)

BRINDHA M (731616106015)

KOKILA K (731616106034)

NAVANANDHINI E (731616106302)

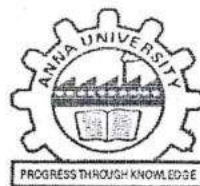
*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



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APRIL 2020

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K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**



# AUTOMATIC FERTILIZER SPRAYING CONTROLLER

A PROJECT REPORT

*Submitted by*

ABISHEK T	(731616106002)
ADHITHYAKUMAR M	(731616106003)
ANANTHA KRISHNAN P	(731616106007)
DURAIRAJ S	(731616106021)

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.**

**REALTIME MONITORING SYSTEM FOR  
AQUACULTURE USING IOT**

**A PROJECT REPORT**

*Submitted by*

**ILAKIYA S** (Reg.No:731616106026)

**JAYASHRI M** (Reg.No:731616106029)

**MARIMUTHU M** (Reg.No:731616106039)

**MONIKA R** (Reg.No:731616106042)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

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**SEPTEMBER 2020**

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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.**

**USER LOGIN APPLICATION BUILDER USING  
REACT AND MAVEN**

**A PROJECT REPORT**

*Submitted by*

**ABDULKADHAR S (731616106001)**

**BRAHADEESHWARAN M (731616106014)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*IN*

**ELECTRONICS AND COMMUNICATION ENGINEERING**



**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE-637 215**

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**APRIL 2020**



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K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL-NADU.**



# K S R Institute for Engineering and Technology

Tiruchengode, Namakkal(Dt) , Tamil Nadu

(Approved by AICTE New Delhi & Affiliated to Anna University Chennai)

BE (CSE,EEE,ECE,Mech)&B.Tech (IT) Programmes are Accredited by NBA

## 1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)

Academic Year: 2019 - 2020

### B.E. - Mechanical Engineering

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1	Gokulraj P	143
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	Jayamurugan K S	
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2	Arshath S	144
	Deepak R	
	Aswinkumar S	
	Joshua Y	
3	Dhayanidhi M	145
	Gopinath G	
	Govindasamy A	
	Hari Shankar P	
4	Annamalai K	146
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	Logesh N	
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5	Bharath V	147
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	Boopathy K M	
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8	Dhevendran E	150
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<b>S. No.</b>	<b>Name of the Students</b>	<b>Page No.</b>
9	Gokul R	151
	Karole Infanto D	
	Kesav Goutham N B	
	Mageswaran A	
10	Chellathurai T	152
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	Ethayakumar G	
11	Kavin P	153
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	Jeevanandham N	
12	Aakash S	154
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13	Ajith M	155
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	Pranesh S K	
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14	Parthasarathy R	156
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	Rahul C	
	Uthayakumar M	
15	Ragavendhar S	157
	Ranjithkumar R	
	Ruthrannan B	
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16	Prabhakaran M	158
	Surya R	
	Vignesh B	
17	Nambiraj J	159
	Praveen R (07.01.1999)	
	Ravichandran S	
	Sabarish.R	
18	Sanjay Kumar S.K	160
	Santhosh Kumar V	
	Thirumurugan V	
19	Nandha Gobal S	161
	Ranjith R	
	Sanjay Kumar S	
	Santhosh Kumar B	

<b>S. No.</b>	<b>Name of the Students</b>	<b>Page No.</b>
20	Navinkumar M	162
	Shakthi R M	
	Vasanthakumar P	
	Yogesh T	
21	Prabakaran S	163
	Praveen R (31.03.1999)	
	Vignesh V	
	Vinothmani M	
22	Sathish G	164
	Thamostraran J	
	Vijayaragavan P	
	Vishnu A	
23	Sowndhar A	165
	Barath V	
	Prakash S	
	Sanjeevi K P	
24	Sakthivel R	166
	Saranraj S	
	Shanmugamanivel D	
	Surendhar J	
25	Dinesh Kumar C	167
	Jeeva K	
	Jeeva M	
	Jestinraj K	

**HEAT TRANSFER AND FRICTION FACTOR  
CHARACTERISTICS OF VARIENT TWISTED TAPE  
FITTED IN A DOUBLE PIPE HEAT EXCHANGER**

**A PROJECT REPORT**

*Submitted by*

<b>GOKULRAJ P</b>	<b>731616114017</b>
<b>JAYAMURUGAN K S</b>	<b>731616114027</b>
<b>KALEESWARAN D</b>	<b>731616114032</b>
<b>MOHANAKRISHNAN D</b>	<b>731616114049</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*In*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**SEPTEMBER 2020**

**DESIGN AND ANALYSIS OF AUTOMATIC  
STRETCHER CUM WHEEL CHAIR WITH LIFTING  
AND SHIFTING MECHANISM FOR DISABLED  
PERSON**

**A PROJECT REPORT**

*Submitted by*

<b>ARSHATH S</b>	<b>731616114004</b>
<b>ASWINKUMAR S</b>	<b>731616114005</b>
<b>DEEPAK R</b>	<b>731616114011</b>
<b>JOSHUA Y</b>	<b>731616114031</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*In*

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,  
TIRUCHENGODE, NAMAKKAL 637 215**

**ANNA UNIVERSITY::CHENNAI 600 025**

**SEP – 2020**



**DESIGN AND DEVELOPMENT OF 3D FILAMENT  
EXTRUDER**

**A PROJECT REPORT**

*Submitted by*

<b>DHAYANIDHI M</b>	<b>731616114012</b>
<b>GOPINATH G</b>	<b>731616114018</b>
<b>GOVINDASAMY A</b>	<b>731616114019</b>
<b>HARI SHANKAR P</b>	<b>731616114024</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY: CHENNAI 600 025**

**SEPTEMBER 2020**

**DEVELOPMENT OF COCONUT DE-HUSKING  
MACHINE**

**A PROJECT REPORT**

*Submitted by*

<b>K. ANNAMALAI</b>	<b>731616114003</b>
<b>M. KIRUBAKARAN</b>	<b>731616114040</b>
<b>N. LOGESH</b>	<b>731616114042</b>
<b>MOHAN ARJUN KUMARAVEL</b>	<b>731616114050</b>

*In partial fulfillment for the award of the degree*

*Of*

**BACHELOR OF ENGINEERING**

**In**

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGODE – 637215.**

**ANNAUNIVERSITY::CHENNAI 600025**

**SEPTEMBER 2020**

# DESIGN AND ANALYSIS OF PISTON COATED WITH CERAMIC MATERIALS

## A PROJECT REPORT

*Submitted by*

BHARATH V (731616114006)

BOOPATHI RAJA E (731616114007)

BOOPATHY K M (731616114008)

CHANDRASEKAR K (731616114009)

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**



**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY  
TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY:: CHENNAI 600025**

**SEPTEMBER 2020**

**DESIGN AND FABRICATION OF AUTOMATIC  
BOX PACKING MACHINE**

**A PROJECT REPORT**

**Submitted by**

**GUNASEKARAN R 731616114021**

**LAKSHIMI NARAYANAN R 731616114041**

**LOGESH S 731616114043**

**MADHANKUMAR L 731616114044**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**in**

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE - 637 215**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**SEPTEMBER 2020**

**EXTRACTION OF FUEL FROM WASTE PLASTIC  
USING PYROLYSIS PROCESS**

**A PROJECT REPORT**

*Submitted by*

<b>P.GOWTHAM</b>	<b>731616114020</b>
<b>M.HARIHARAN</b>	<b>731616114022</b>
<b>S.HARIHARAN</b>	<b>731616114023</b>
<b>S.PRASANTH</b>	<b>731616114308</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGODE – 637 215.**

**ANNA UNIVERSITY:CHENNAI 600 025**

**APRIL 2020**



**DESIGN AND ANALYSIS OF WASTE HEAT RECOVERY IN  
DOMESTIC REFRIGERATION USING R134 a**

**A PROJECT REPORT**

submitted by

<b>GOKUL. R</b>	<b>731616114016</b>
<b>KAROLE INFANTO. D</b>	<b>731616114033</b>
<b>KESAV GOWTHAM. N.B.</b>	<b>731616114038</b>
<b>MAGESWARAN. A</b>	<b>731616114045</b>

in partial fulfillment for the award of the degree

of

**BACHELOR OF ENGINEERING**

in

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE - 637 215.**

**ANNA UNIVERSITY : CHENNAI - 600 025**

**APRIL 2020**

**DESIGN AND ANALYSIS OF CONNECTING ROD  
USING DIFFERENT ALLOY MATERIAL**

**A PROJECT REPORT**

*Submitted by*

<b>CHELLATHURAI T</b>	<b>731616114010</b>
<b>MANOJ KUMAR K</b>	<b>731616114047</b>
<b>BALAJI M</b>	<b>731616114302</b>
<b>EDHAYAKUMAR G</b>	<b>731616114304</b>

*in partial fulfillment for the award of the*

*degree of*

**BACHELOR OF ENGINEERING**

*In*

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND**

**TECHNOLOGY**

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**ANNA UNIVERSITY :: CHENNAI 600 025**

**SEP 2020**



**DESIGN & ANALYSIS OF CHASSIS WITH  
DIFFERENT CROSS SECTION**

**A PROJECT REPORT**

*Submitted by*

<b>KAVIN P</b>	<b>731616114035</b>
<b>MANIKANDAN V</b>	<b>731616114046</b>
<b>MOHANRAJ B</b>	<b>731616114051</b>
<b>JEEVANANTHAM N</b>	<b>731616114305</b>

*In partial fulfillment for the award of the*

*degree of*

**BACHELOR OF ENGINEERING**

*In*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND**

**TECHNOLOGY TIRUCHENGODE – 637 215**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**SEP 2020**

**DESIGN AND ANALYSIS OF DIFFERENT INSULATION MATERIAL  
IN FLAT PLATE SOLAR AIR DRYER**

**A PROJECT REPORT**

*Submitted by*

<b>AAKASH.S</b>	<b>731616114001</b>
<b>DHINAKARAN.P</b>	<b>731616114014</b>
<b>KEERTHIVASAN.S</b>	<b>731616114037</b>
<b>MOHAMMED NIHAL.R</b>	<b>731616114048</b>

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**TIRUCHENGODE – 637215**

**ANNA UNIVERSITY:: CHENNAI 600 025**

**SEPTEMBER 2020**

# **DESIGN AND ANALYSIS OF SAND SIEVING MACHINE USING COMPOSITE MATERIAL**

**A PROJECT REPORT**

*Submitted by*

<b>AJITH M</b>	<b>731616114002</b>
<b>TAMILMUGILAN N</b>	<b>731616114085</b>
<b>PRANESH S K</b>	<b>731616114701</b>
<b>MANOJ R</b>	<b>731616114702</b>

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY**

**ANNA UNIVERSITY:CHENNAI 600 025**

**APRIL-2020**

**DESIGN AND ANALYSIS OF AUTOMATIC  
GROUNDNUT EXTRACTION MACHINE**

**A PROJECT REPORT**

*Submitted by*

<b>R.PARTHASARATHY</b>	<b>731616114055</b>
<b>R.PRASANTH</b>	<b>731616114058</b>
<b>C.RAHUL</b>	<b>731616114064</b>
<b>M.UTHAYA KUMAR</b>	<b>731616114088</b>

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGODE – 637215.**

**ANNA UNIVERSITY:: CHENNAI- 600025**

**APRIL - 2020**

**DESIGN AND EXPERIMENTAL INVESTIGATION OF  
PROPERTIES OF CHICKEN EGGSHELL REINFORCED  
AL7075 MATRIX COMPOSITES**

**A PROJECT REPORT**

*Submitted by*

<b>S RAGAVENDHAR</b>	<b>731616114063</b>
<b>R RANJITHKUMAR</b>	<b>731616114067</b>
<b>B RUTHRANNAN</b>	<b>731616114071</b>
<b>G YOGARAJ</b>	<b>731616114099</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY,  
TIRUCHENGODE, NAMAKKAL 637 215**

**ANNA UNIVERSITY: CHENNAI 600 025**

**APRIL – 2020**

**DESIGN AND ANALYSIS OF CENTRIFUGAL  
PUMP IMPELLER USING CFD ANALYSIS**

**A PROJECT REPORT**

*Submitted by*

<b>M.PRABHAKARAN</b>	<b>731616114057</b>
<b>R.SURYA</b>	<b>731616114084</b>
<b>B.VIGNESH</b>	<b>731616114092</b>

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGOGE – 637215.**

**ANNA UNIVERSITY:: CHENNAI- 600025**

**APRIL - 2020**

**ANNA UNIVERSITY :: CHENNAI- 600025**

**DESIGN AND PERFORMANCE ANALYSIS OF P2H  
ELECTRIC VEHICLE  
(PORSCHE HYBRID ELECTRIC TWO-WHEELER)**

**A PROJECT REPORT**

*Submitted by*

<b>NAMBIRAJ J</b>	<b>731616114052</b>
<b>PRAVEEN R</b>	<b>731616114059</b>
<b>RAVICHANDRAN S</b>	<b>731616114069</b>
<b>SABARISH R</b>	<b>731616114072</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGODE, NAMAKKAL - 637 215**

**ANNA UNIVERSITY: CHENNAI 600 025**

**APRIL – 2020**

**TRIBOLOGICAL AND MICROSTRUCTURAL  
ANALYSIS OF ALUMINIUM (LM6) REINFORCED  
WITH ALUMINA AND SILICON CARBIDE MICRO  
PARTICLES**

**A PROJECT REPORT**

*Submitted by*

<b>SANJAYKUMAR S K</b>	<b>731616114076</b>
<b>SANTHOSHKUMAR V</b>	<b>731616114078</b>
<b>THIRUMURUGAN V</b>	<b>731616114087</b>

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGOGE – 637 215.**

**ANNA UNIVERSITY :: CHENNAI- 600 025**

**APRIL - 2020**





**DESIGN AND IMPLEMENTATION OF  
BOREWELL RESCUE SYSTEM**

**A PROJECT REPORT**

*Submitted by*

<b>M.NAVIN KUMAR</b>	<b>731616114054</b>
<b>R.M.SHAKTHI</b>	<b>731616114082</b>
<b>P.VASANTHA KUMAR</b>	<b>731616114090</b>
<b>T.YOGESH</b>	<b>731616114100</b>

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGOGE – 637215.**

**ANNA UNIVERSITY:: CHENNAI- 600025**

**APRIL - 2020**

**EXPERIMENTAL INVESTIGATION ON FRICTION AND  
WEAR BEHAVIOUR OF HYBRID COPPER MATRIX  
COMPOSITES SYNTHESIZED BY POWDER METALLURGY**

**A PROJECT REPORT**

*Submitted by*

<b>S. PRABAKARAN</b>	<b>731616114056</b>
<b>R. PRAVEEN</b>	<b>731616114060</b>
<b>V.VIGNESH</b>	<b>731616114093</b>
<b>M.VINOTHMANI</b>	<b>731616114096</b>

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**in**

**MECHANICAL ENGINEERING**

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,**

**TIRUCHENGOGE – 637215.**

**ANNA UNIVERSITY: CHENNAI 600 025**

**SEPTEMBER 2020**

**DESIGN AND ANALYSIS OF AUTOMOBILE LEAF  
SPRING FOR VARIOUS CROSS SECTIONS BY  
USING DIFFERENT COMPOSITE MATERIALS**

**A PROJECT REPORT**

*Submitted by*

<b>G SATHISH</b>	<b>731616114081</b>
<b>J THAMOTHARAN</b>	<b>731616114086</b>
<b>P VIJAYARAGAVAN</b>	<b>731616114095</b>
<b>A VISHNU</b>	<b>731616114097</b>

*in partial fulfillment for the award of the degree*

*of*

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*in*

**MECHANICAL ENGINEERING**

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**ANNA UNIVERSITY:: CHENNAI 600 025**

**APRIL – 2020**

**DESIGN AND ANALYSIS OF COMPOSITE  
MATERIAL USING GFRP IN PROPELLER  
SHAFT**

**A PROJECT REPORT**

*Submitted by*

<b>A.SOWNDHAR</b>	<b>731616114083</b>
<b>V.BARATH</b>	<b>731616114303</b>
<b>S.PRAKASH</b>	<b>731616114307</b>
<b>KP.SANJEEVI</b>	<b>731616114309</b>

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*of*

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**IN**

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**APRIL - 2020**

**EXPERIMENTAL INVESTIGATION & MECHANICAL  
PROPERTIES ANALYSIS OF ALUMINIUM METAL  
MATRIX ON TiB<sub>2</sub> & Gr REINFORCED COMPOSITES**

**A PROJECT REPORT**

*Submitted by*

<b>R SAKTHIVEL</b>	<b>731616114074</b>
<b>S SARANRAJ</b>	<b>731616114080</b>
<b>D SHANMUGAMANIVEL</b>	<b>731616114310</b>
<b>J SURENDHAR</b>	<b>731616114311</b>

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*of*

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**APRIL – 2020**

**DESIGN AND AUTOMATION OF COCONUT DE-  
HUSKING MACHINE USING BELT CONVEYOR**

**A PROJECT REPORT**

*Submitted by*

<b>DINESH KUMAR C</b>	<b>731616114015</b>
<b>JEEVA K</b>	<b>731616114028</b>
<b>JEEVA M</b>	<b>731616114029</b>
<b>JESTINRAJ K</b>	<b>731616114030</b>

*in partial fulfillment for the award of the degree*

*Of*

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**SEPTEMBER 2020**



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BE (CSE,EEE,ECE,Mech)&B.Tech (IT) Programmes are Accredited by NBA

## 1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)

Academic Year: 2019 - 2020

### B.Tech.- Information Technology

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41	Mohanraj S, Priyadarshni G, Stephenraj J, Steephen V	210

S.No 510




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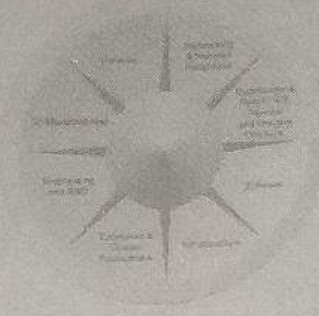
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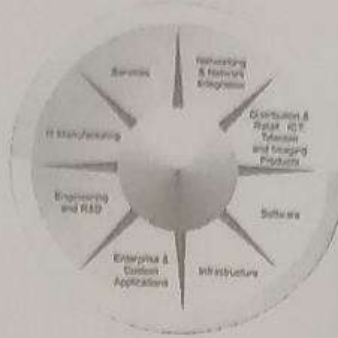
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in Implant Training on IOT

held at RGM TTC

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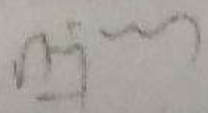
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of Year & Tech (IT)

studying in

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field at RGM TTC

from 28/11/2018 to 28/11/2018 for One week(s).

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*[Handwritten signature]*

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Duration

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Training Centre

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ENGINEERING AND TECHNOLOGY,  
K. S. R. KALYANAGAR,  
TIRUCHENGOORE - 637 215,  
NAMAKKAL DISTRICT, TAMIL NADU.

# Certificate of Completion

This Certificate is Presented to

*Sreemathi Indira S*

for successfully completing the Internship program on

## Photoshop



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[www.ccubeindia.com](http://www.ccubeindia.com)

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Training Centre

Authorized Signatory

PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU

# Certificate of Completion

This Certificate is Presented to

*Thusmeena. K.R*

for successfully completing the Internship program on

## Photoshop



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[www.cubetechnologies.com](http://www.cubetechnologies.com)


08.06.2019 to 14.06.2019

Duration

Erode

Training Centre

Authorised Signatory

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALM NAGAR,  
TIRUCHENGODI - 637 215,  
NAMAKKAL DISTRICT, TAMIL NADU.

# Certificate of Completion

This Certificate is Presented to

*Sandhiya. G*

for successfully completing the Internship program on

**Photoshop**

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K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU,

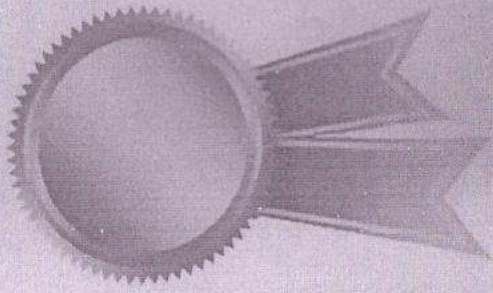
08.06.2019 to 14.06.2019

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Duration

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**TECHVOLT SOFTWARE PVT LTD**  
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### CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Ms Grobika M, B.Tech(IT) Student of KSR Institute For Engg and Tech have been associated towards his/her Internship on Android from 10/06/2019 to 14/06/2019 in our company located at coimbatore.


  
TECHLEAD

  
HR



Mob: 9423 983 975 [www.techvoltcoimbatore.com](http://www.techvoltcoimbatore.com)

#28, Thacil Centre, 2nd Floor, Above City Union Bank, Raja Annamalai Rd, Saibaba Colony, Coimbatore, Tamil Nadu 6

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.



**TECHVOLT SOFTWARE PVT.LTD**

Simple But Marvelous...

## CERTIFICATE OF INTERNSHIP

This is to certify that Mr/Ms J. P. Jessica Collins, B.Tech (IT) of

KSR Institute For Engg & Tech have been associated towards

his/her Internship on Web Development - DotNet

from 3-6-19 to 7-6-19 in our company located at coimbatore.

  
TECHLEAD

  
HR



**Mob: 8428 983 975** [www.techvoltcoimbatore.com](http://www.techvoltcoimbatore.com)



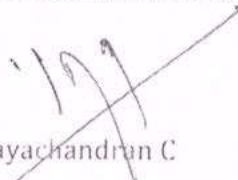
December 27, 2019

To Whom So Ever It May Concern


This is to certify that **Mr. MUKESH KANNA R, (REG:NO: 731617205028)**  
Student of III Year B. Tech Information Technology, KSR Institute for  
Engineering and Technology, Tiruchengode, has completed his Internship in  
our Organization, **Vendhar TV** - Editing Department, from November 26,  
2019 till December 26, 2019, for a period of 1 month.

We wish him all the best in his future endeavours.

For **Trac Media Pvt Ltd. - Vendhar TV,**

  
Vijayachandran C  
Head - HR & Admin



  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DT, TAMIL NADU.

**Vendhar TV**  
**TRAC MEDIA PVT LTD**  
# 35, NP, 3<sup>rd</sup> Main Road, Kalsimagal Nagar,  
Ekkattuthangal, Chennai - 600032.  
**T:** + 91 44 40 202 202, **F:** +91 44 40 202 244  
**W:** www.vendharmedia.in, **E:** updates@vendharmedia.in



To Whom So Ever It May Concern

This is to certify that **Mr. Babu U S, B.Tech in Information Technology**, Student from **KSR Institute of Engineering and Technology, Namakkal**, has successfully on boarded his internship program of **Junior Developer** in Role in Engineering Team from 14<sup>th</sup> September 2020 to 30<sup>th</sup> December 2020 under the guidance of our Engineering team.

During this period of his internship program, he will be paid with stipend which will be completely on individual performance basis.

Note: stipend should be paid back to the company if they fail to complete the Internship in subject to formal reasons (placed to some other company for internship).

We wish you all the Best for your future endeavors.

Note for hiring companies: To verify the authenticity of this certificate, please email to [hr@corviduk.com](mailto:hr@corviduk.com)

For and on behalf of

**Corvid Consulting UK LTD**




**Raghul S**

**Deputy General Manager – HR**

I have read the Internship offer letter, understood and accept the above mentioned terms and conditions.

Signature:

  
Date:  
**PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.  
97 Hartland way, Croydon, CR0 8RJ.**

To Whom So Ever It May Concern

This is to certify that **Mr. Venkateshwaran S, B.Tech in Information Technology**, Student from **KSR Institute of Engineering and Technology, Namakkal**, has successfully on boarded his internship program of **Junior Developer** in Role in Engineering Team from 14<sup>th</sup> September 2020 to 30<sup>th</sup> December 2020 under the guidance of our Engineering team.

During this period of his internship program, he will be paid with stipend which will be completely on individual performance basis.

Note: stipend should be paid back to the company if they fail to complete the Internship in subject to formal reasons (placed to some other company for internship).

We wish you all the Best for your future endeavors.

Note for hiring companies: To verify the authenticity of this certificate, please email to [hr@corviduk.com](mailto:hr@corviduk.com)

For and on behalf of

**Corvid Consulting UK LTD**




**Raghul S**

**Deputy General Manager – HR**

I have read the Internship offer letter, understood and accept the above mentioned terms and conditions.

Signature:



**PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALUWAGAR,  
TIRUCHENCODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.**

Date:

97 Hartland way, Croydon, CR0 8RJ.

To Whom So Ever It May Concern

This is to certify that **Mr. Santhosh kumar, B.Tech in Information Technology**, Student from **KSR Institute of Engineering and Technology, Namakkal**, has successfully on boarded his internship program of **Junior Developer** in Role in Engineering Team from 14<sup>th</sup> September 2020 to 30<sup>th</sup> December 2020 under the guidance of our Engineering team.

During this period of his internship program, he will be paid with stipend which will be completely on individual performance basis.

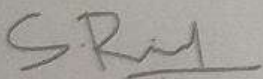
Note: stipend should be paid back to the company if they fail to complete the Internship in subject to formal reasons (placed to some other company for internship).

We wish you all the Best for your future endeavors.

Note for hiring companies: To verify the authenticity of this certificate, please email to [hr@corviduk.com](mailto:hr@corviduk.com)

For and on behalf of

**Corvid Consulting UK LTD**




**Raghul S**

**Deputy General Manager – HR**

I have read the Internship offer letter, understood and accept the above mentioned terms and conditions.

Signature:



**PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.**  
97 Hartland way, Croydon, CR0 8RJ.

Date:

**ANNA UNIVERSITY: CHENNAI 600 025**

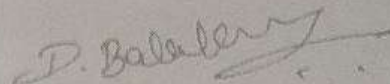
**BONAFIDE CERTIFICATE**

Certified that this project report "A WEB APPLICATION FOR CODING ASPIRANTS AND GEEKS" is the Bonafide work of "AJAY SRIRAM S, JESSICA COLLINS J P, PRIYA DHARSHINI M, SANTHOSH KUMAR R" who carried out the project work under my supervision.



**SIGNATURE**

Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.



**SIGNATURE**

Mr. D. BALAKRISHNAN  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.

Submitted for the Mini Project Viva-Voce examination held on *APR 2020*



**PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DL, TAMIL NADU.**

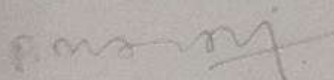
**Internal Examiner**

**External Examiner**

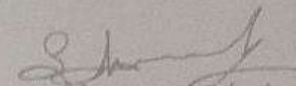
**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "A MOBILE APPLICATION FOR SYMPOSIUM REGISTRATION" is the Bonafide work of "DINESH KUMAR P, GOKULAN S, RAGU G, THANESSHWARAN Y G" who carried out the project work under my supervision.

  
SIGNATURE


Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.

  
SIGNATURE

Mr. S. NANDHAGOPAL  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.

Submitted for the University Mini Project Viva-Voce examination held on 18/10/20

Internal Examiner

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DI, TAMIL NADU.

External Examiner

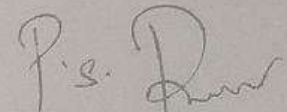
## BONAFIDE CERTIFICATE

Certified that this project report "CHATBOT FOR COLLEGE ENQUIRY" is the bonafide work of "NANDHINI S,SELVAMLAR P and SHAILAA P M who carried out the project work under my supervision.



SIGNATURE

Dr.P.MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR  
ENGINEERING  
AND TECHNOLOGY-637215



SIGNATURE

Dr.P.S. PRAKASH KUMAR.  
SUPERVISOR  
ASSOCIATE PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR  
ENGINEERING  
AND TECHNOLOGY-637215

Submitted for the Project Viva Voce examination held on APR 2020

Internal Examiner

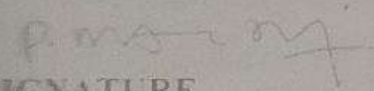
External Examiner



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K. S. R. KALVI HAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DI, TAMIL NADU.

## BONAFIDE CERTIFICATE

Certified that this project report "COURIER MANAGEMENT SYSTEM USING PHP" is the bonafide work of "SIVASANKAR.L.R and VINOTHIN.L.R" who carried out the project work under my supervision.

  
SIGNATURE

Mrs. Dr. P. MEENAKSHI DEVI.,  
M.E., (Ph.D),

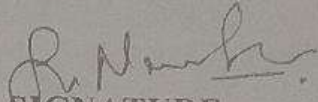
HEAD OF THE DEPARTMENT

PROFESSOR

DEPARTMENT OF IT

KSR IET

TIRUCHENGODE - 637215

  
SIGNATURE

Mr. S. NANDHAGOPAL,  
B.Tech., M.E

SUPERVISOR

ASSISTANT PROFESSOR

DEPARTMENT OF IT

KSR IET

TIRUCHENGODE - 637215

Submitted for university mini project viva-voce held on APR 2020 .....

INTERNAL EXAMINER

EXTERNAL EXAMINER

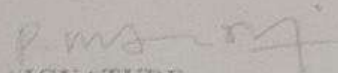


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K. S. R. KALVHAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DL, TAMIL NADU.

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "Expense Tracker" is the Bonafide work of "BABU U S, VENKATESHWARAN S, SARAN V, LAKSHMANAN R " who carried out the project work under my supervision.

  
SIGNATURE

Dr. P. MEENAKSHI DEVI

HEAD OF THE  
DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.

  
SIGNATURE

Mr. DEEPAN PRABU

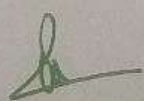
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR  
ENGINEERING AND  
TECHNOLOGY-637215.

Submitted for university mini project viva-voce held on APR 2020

INTERNAL EXAMINER

EXTERNAL EXAMINER

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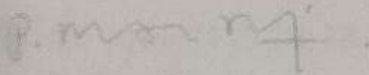
  
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TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.**



ANNA UNIVERSITY: CHENNAI 600 025

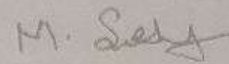
BONAFIDE CERTIFICATE

Certified that this project report "A WEB APPLICATION FOR FOR COMPILING PROGRAMS ONLINE" is the Bonafide work of "CHANDRU M, DHINAKARAN K, KARTHIK T, VIMALRAJ G" who carried out the project work under my supervision.



SIGNATURE

Dr. P. MEENAKSHI DEVI  
HEAD OF THE  
DEPARTMENT DEPARTMENT  
OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.



SIGNATURE

Mr. M. SELVAKUMAR  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
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KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.

Submitted for the Project Viva-Voce examination held on APR 2020

Internal Examiner



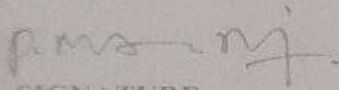
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K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL Dt, TAMIL NADU.

External Examiner

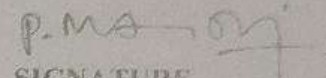
**ANNA UNIVERSITY :: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "**DETERMINATION OF PH LEVEL USING ARDUINO KIT**" is the bonafide work of "**GOBIKA M, SANDHIYA G, SREEMATHI INDRA S and THUSMEENA K R**" who carried out the project work under my supervision.

  
SIGNATURE

Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY- 637215.


  
SIGNATURE

Dr. P. MEENAKSHI DEVI  
SUPERVISOR  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY- 637215.

Submitted for the Project Viva-Voce examination held on APR 2020

Internal Examiner

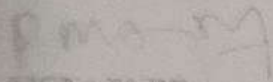
External Examiner

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY  
K. S. R. KALVI NAGAR  
TIRUCHENGODE - 637 215  
NAMAKKAL Dt, TAMIL NADU.


**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report "ATTANDANCE MANAGEMENT SYSTEM" is the Bonafide work of "SAANTHOSH BALAJI S N,ASHOK KUMAR S,DANUSH ADIT R,JOTEESH WARAN" who carried out the project work under my supervision.

  
SIGNATURE

**MEF NAKSHI DEVI**  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215


  
SIGNATURE

**Mrs. s. RUSSIA**  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY-  
637215.

Submitted for the Project Viva-Voce examination held on *APR 2020*

Internal examiner

External examiner

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KAMPAKAL,  
TIRUCHENGOORE - 637 215,  
NAMAIGAL DL, TAMIL NADU.

**BONAFIDE CERTIFICATE**

Certified that this project report "MULTI NEWS PROVIDENCE PORTAL WITH FACTUAL FINDER" is the bonafide work of "AHAMEDFAISHAL H, SUDARSAN S, VINOOTH M and VIJIV" who carried out the project work under my supervision.



**SIGNATURE**

Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.




**SIGNATURE**

Ms. P. KEERTHANA  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.

Submitted for the Project Viva-Voce examination held on 22.9.20



**Internal Examiner**



**External Examiner**

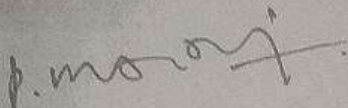


PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.

ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "MULTISERVICE WEBSITE" is the bonafide work of "ARAVINDH.K, JANANI.T, SHUGITHA.V.S and SUMITHA.J" who carried out the project work under my supervision.



SIGNATURE

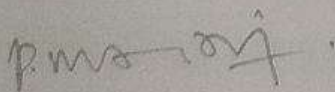
Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.



SIGNATURE

Mr.L.DEEPAN PRABHU,  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.


Submitted for the Project Viva-Voce examination held on 22.9.2020



Internal Examiner



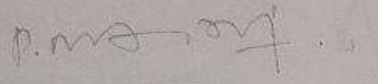
External Examiner



PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALMITHAGAR,  
TIRUCHENGODE - 637 215,  
NAMAKKAL DI, TAMIL NADU.

**BONAFIDE CERTIFICATE**

Certified that this project report "COLLEGE SOCIAL NETWORK" is the bonafide work of "ARUN KUMAR A, MOHANKUMAR M SATHAMHUSSAIN M S and SATHAS R" who carried out the project work under my supervision.



SIGNATURE

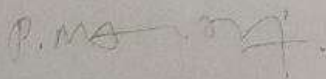
Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.



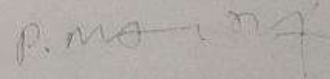
SIGNATURE

Mr. P.S. PRAKASH KUMAR  
SUPERVISOR  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY-637215.

Submitted for the Project Viva-Voce examination held on 22.9.20



Internal Examiner



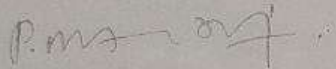
External Examiner



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K. S. R. KALVI NAGAR,  
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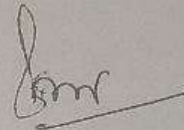
**BONAFIDE CERTIFICATE**

Certified that this project report "SCALABLE CONTENT-AWARE COLLABORATIVE FILTERING FOR LOCATION RECOMMENDATION" is the bonafide work of "BOOPALAN G, HAKKEM M, OVIYA A, and VIGNESH M" who carried out the project work under my supervision.



**SIGNATURE**

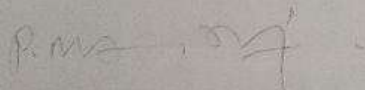
Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.



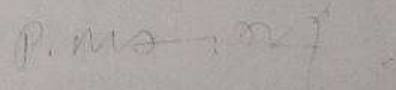
**SIGNATURE**

Dr.S. RUSSIA  
SUPERVISOR  
PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY-637215.

Submitted for the Project Viva-Voce examination held on 22.9.2020



**Internal Examiner**



**External Examiner**



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K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
TAMIL NADU.

ANNA UNIVERSITY : CHENNAI 600 025


BONAFIDE CERTIFICATE

Certified that this project report "AN ANDROID APPLICATION FOR HUSH-HUSH VOTING SYSTEM" is the bonafide work of "INDHUMATHI S, MOUNIKA S and SWETHA S" who carried out the project work under my supervision.



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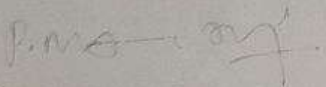
Dr. P. MEENAKSHI DEVI,  
HEAD OF THE DEPARTMENT  
INFORMATION TECHNOLOGY,  
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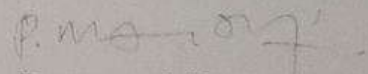
SIGNATURE

Dr.K.GOWSIC ,  
SUPERVISOR  
ASSOCIATE PROFESSOR,  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY-637215.


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External Examiner



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K. S. R. KALVI NAGAR,  
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NAMAKKAL DI. TAMIL NADU.



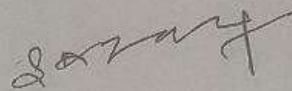
**BONAFIDE CERTIFICATE**

Certified that this project report "E-FARMER SELF SERVICE" is the bonafide work of "MANI BHARATHI G, SARASWATHY K, YAKSHEETHA V and YUVAPRIYA R" who carried out the project work under my supervision.



**SIGNATURE**

Dr. P. MEENAKSHI DEVI  
**HEAD OF THE DEPARTMENT**  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.



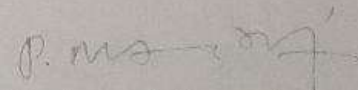
**SIGNATURE**

Mr. S. NANDHAGOPAL  
**SUPERVISOR**  
ASSISTANT PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY-637215.


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**Internal Examiner**



**External Examiner**



**PRINCIPAL,**  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL DI, TAMIL NADU.

**BONAFIDE CERTIFICATE**

Certified that this project report "SECURE AND EFFICIENT AUDIT SERVICE FOR DATA INTEGRITY IN CLOUD STORAGE" is the bonafide work of "MOHANRAJ S, PRIYADARSHNI G, STEEPHEN V and STEPHENRAJ J" who carried out the project work under my supervision.

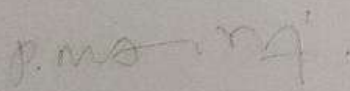
  
SIGNATURE

Dr. P. MEENAKSHI DEVI  
HEAD OF THE DEPARTMENT  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING  
AND TECHNOLOGY-637215.


  
SIGNATURE

Dr. M. DHURGADEVI  
SUPERVISOR  
ASSOCIATE PROFESSOR  
DEPARTMENT OF  
INFORMATION TECHNOLOGY,  
KSR INSTITUTE FOR ENGINEERING AND  
TECHNOLOGY-637215.

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Internal Examiner

  
External Examiner

  
PRINCIPAL,  
K. S. R. INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K. S. R. KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt. TAMIL NADU.